

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 3-T4N-R62W**

**STATE SEVENTY HOLES U-Y-10HNR**

**OWB**

**PROPOSAL 1**

## **Anticollision Report**

**21 March, 2023**

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXR
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL 1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.00 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	Date	3/21/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,865.66	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 3-T4N-R62W						
ABND VERT STATE #1 - OWB - Design #1	7,119.14	6,038.00	337.20	188.51	2.268	CC, ES, SF
EXIST HZ ANSCHUTZ STATE 4-62-2-1721BH2 - OWB -	8,098.04	5,928.18	219.12	164.68	4.025	CC
EXIST HZ ANSCHUTZ STATE 4-62-2-1721BH2 - OWB -	8,100.00	5,928.02	219.13	164.54	4.014	ES
EXIST HZ ANSCHUTZ STATE 4-62-2-1721BH2 - OWB -	8,200.00	5,918.64	241.47	178.67	3.845	SF
EXIST HZ ANSCHUTZ STATE 4-62-2-1721CH2 - OWB -	8,416.04	5,966.93	178.35	117.74	2.942	CC, ES
EXIST HZ ANSCHUTZ STATE 4-62-2-1721CH2 - OWB -	8,500.00	5,960.70	196.97	128.33	2.870	SF
EXIST HZ ANSCHUTZ STATE 4-62-2-3228BH2 - OWB -	8,702.53	5,953.26	224.77	163.13	3.646	CC, ES
EXIST HZ ANSCHUTZ STATE 4-62-2-3228BH2 - OWB -	8,800.00	5,957.86	244.94	175.00	3.502	SF
EXIST HZ ANSCHUTZ STATE 4-62-2-3228CH2 - OWB -	8,994.80	6,073.85	156.42	82.70	2.122	CC
EXIST HZ ANSCHUTZ STATE 4-62-2-3228CH2 - OWB -	9,000.00	6,073.35	156.51	82.12	2.104	ES, SF
EXIST HZ ANSCHUTZ WINDMILL 10-34H - OWB - FINA	6,343.25	5,873.26	201.97	154.62	4.265	CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CN - OW	9,945.56	6,466.06	30.45	-33.80	0.474	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CS - OW	10,551.32	6,291.25	25.65	-53.78	0.323	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-02-4956C - OWB	11,063.33	6,210.89	63.68	-19.57	0.765	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-02-6457C - OWB	11,600.00	6,177.72	82.47	-8.81	0.904	Level 1, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-02-6457C - OWB	11,627.95	6,178.29	77.59	-7.41	0.913	Level 1, CC
EXIST HZ RSU ANSCHUTZ FED 4-62-11-0108C - OWB	12,162.44	6,182.30	7.50	-86.21	0.080	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CN - OW	12,676.05	6,219.67	20.80	-87.99	0.191	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - OW	13,223.89	6,406.36	42.10	-79.32	0.347	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - STK	13,223.89	6,406.36	42.10	-79.32	0.347	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-1724C - OWB	13,792.93	6,433.21	71.99	-28.03	0.720	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-3225C - OWB	14,292.75	6,350.26	79.51	-39.57	0.668	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-3340C - OWB	14,778.90	6,280.60	92.00	-26.68	0.775	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-11-4841CN - OW	15,342.74	6,211.33	100.79	-21.08	0.827	Level 1, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C - OWB -	6,700.00	6,660.87	131.00	68.49	2.095	SF
EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C - OWB -	6,779.85	6,680.07	101.67	60.80	2.487	CC, ES
EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CN - OWB	7,200.00	6,579.28	161.32	107.00	2.970	ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CN - OWB	7,246.02	6,578.97	154.61	108.23	3.333	CC
EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CS - OWB	7,700.00	6,444.32	115.46	52.87	1.845	SF
EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CS - OWB	7,771.56	6,451.97	90.89	51.85	2.328	CC, ES
EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - OWB -	9,513.23	6,501.33	94.38	24.17	1.344	Level 3, CC, ES, SF
EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - STK 1	9,524.19	6,511.81	46.48	-10.99	0.809	Level 1, CC, ES, SF
EXIST HZ STATE SEVENTY HOLES 11-14-3HNB - OWB	100.00	75.36	2,439.13	2,438.79	7,098.140	CC, ES
EXIST HZ STATE SEVENTY HOLES 11-14-3HNB - OWB	12,000.00	10,828.00	4,573.91	4,393.66	25.376	SF
EXIST HZ STATE SEVENTY HOLES A11-E14-3HNC - O	103.61	83.63	2,438.79	2,438.40	6,314.766	CC, ES
EXIST HZ STATE SEVENTY HOLES A11-E14-3HNC - O	12,200.00	10,925.00	4,925.68	4,744.40	27.171	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
<b>SEC 3-T4N-R62W</b>						
EXIST HZ STATE SEVENTY HOLES A-E-3HNB - OWB	103.44	83.31	2,439.87	2,439.48	6,347.015	CC, ES
EXIST HZ STATE SEVENTY HOLES A-E-3HNB - OWB	12,300.00	10,870.00	5,263.27	5,080.14	28.740	SF
EXIST HZ STATE SEVENTY HOLES F11-J14-3HNC - O	100.00	71.55	2,438.70	2,438.37	7,381.277	CC, ES
EXIST HZ STATE SEVENTY HOLES F11-J14-3HNC - O	11,800.00	10,897.00	4,197.99	4,020.10	23.599	SF
EXIST HZ STATE SEVENTY HOLES F-J-3HNB - OWB	100.00	74.93	2,437.32	2,436.98	7,124.052	CC, ES
EXIST HZ STATE SEVENTY HOLES F-J-3HNB - OWB	11,700.00	10,837.00	3,867.02	3,690.59	21.918	SF
EXIST HZ STATE SEVENTY HOLES K-O-3HNB - OWB	100.00	89.32	207.54	207.26	748.034	CC, ES
EXIST HZ STATE SEVENTY HOLES K-O-3HNB - OWB	11,500.00	10,836.00	2,545.22	2,369.85	14.514	SF
STATE SEVENTY HOLES 21-24-3HN - OWB - PROPOS	100.00	100.00	44.60	44.33	165.880	CC, ES
STATE SEVENTY HOLES 21-24-3HN - OWB - PROPOS	11,700.00	10,919.17	3,219.04	3,039.70	17.949	SF
STATE SEVENTY HOLES P31-T34-3HN - OWB - PROP	100.00	100.00	30.66	30.39	114.043	CC
STATE SEVENTY HOLES P31-T34-3HN - OWB - PROP	200.00	200.80	31.04	30.05	31.477	ES
STATE SEVENTY HOLES P31-T34-3HN - OWB - PROP	11,400.00	10,873.88	1,673.50	1,495.52	9.402	SF
STATE SEVENTY HOLES P41-T44-3HN - OWB - PROP	100.00	100.00	13.94	13.67	51.838	CC
STATE SEVENTY HOLES P41-T44-3HN - OWB - PROP	800.00	803.19	15.29	9.76	2.763	ES
STATE SEVENTY HOLES P41-T44-3HN - OWB - PROP	900.00	903.29	16.68	10.27	2.600	SF
STATE SEVENTY HOLES P41-T44-4HN - OWB - PROP	100.00	100.00	58.53	58.27	217.718	CC, ES
STATE SEVENTY HOLES P41-T44-4HN - OWB - PROP	13,200.00	11,999.42	6,120.22	5,916.53	30.046	SF
STATE SEVENTY HOLES Y-E-10HNXRL - OWB - PROP	272.09	271.35	15.51	14.02	10.420	CC
STATE SEVENTY HOLES Y-E-10HNXRL - OWB - PROP	11,887.34	8,782.15	31.83	-62.91	0.336	Level 1, ES, SF
<b>SEC 5-T4N-R62W</b>						
STATE SEVENTY HOLES 34-32-34XRLN - OWB - FINA	6,510.78	18,231.00	238.72	88.80	1.592	CC
STATE SEVENTY HOLES 34-32-34XRLN - OWB - FINA	6,700.00	18,231.00	316.34	15.12	1.050	Level 2, ES, SF
<b>SEC 9-T4N-R62W</b>						
ABND VERT STATE 1-10 - OWB - Design #1	16,600.00	5,905.60	673.94	375.96	2.262	ES, SF
ABND VERT STATE 1-10 - OWB - Design #1	16,607.03	5,905.60	673.90	376.11	2.263	CC

Offset Design												SEC 3-T4N-R62W - ABND VERT STATE #1 - OWB - Design #1		Offset Site Error:	0.00 usft
Survey Program:												0-INC	Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis			Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
0.00	0.00	2.00	-2.00	0.00	0.02	95.89	-270.18	2,620.97	2,634.86						
100.00	100.00	102.00	98.00	0.13	1.24	95.89	-270.18	2,620.97	2,634.86	2,633.48	1.38	1,911.477			
200.00	199.98	202.02	197.98	0.49	3.53	21.54	-270.18	2,620.97	2,633.24	2,629.22	4.02	654.835			
300.00	299.84	302.16	297.84	0.86	5.61	21.62	-270.18	2,620.97	2,628.37	2,621.90	6.47	406.463			
400.00	399.45	402.55	397.45	1.23	7.66	21.75	-270.18	2,620.97	2,620.27	2,611.38	8.88	294.921			
500.00	498.70	503.30	496.70	1.63	9.70	21.93	-270.18	2,620.97	2,608.94	2,597.64	11.30	230.848			
600.00	597.47	604.53	595.47	2.05	11.75	22.17	-270.18	2,620.97	2,594.42	2,580.69	13.73	188.991			
700.00	695.62	706.38	693.62	2.51	13.81	22.47	-270.18	2,620.97	2,576.72	2,560.55	16.17	159.352			
800.00	793.06	808.94	791.06	3.00	15.88	22.83	-270.18	2,620.97	2,555.88	2,537.25	18.63	137.164			
900.00	889.64	887.64	887.64	3.54	17.46	23.25	-270.18	2,620.97	2,531.94	2,511.32	20.63	122.757			
1,000.00	985.27	983.27	983.27	4.13	19.39	23.73	-270.18	2,620.97	2,504.95	2,481.97	22.97	109.050			
1,100.00	1,079.82	1,077.82	1,077.82	4.77	21.29	24.29	-270.18	2,620.97	2,474.94	2,449.63	25.31	97.793			
1,200.00	1,173.17	1,171.17	1,171.17	5.46	23.17	24.93	-270.18	2,620.97	2,441.99	2,414.35	27.64	88.358			
1,300.00	1,265.23	1,263.23	1,263.23	6.21	25.03	25.60	-270.18	2,620.97	2,406.18	2,376.22	29.96	80.302			
1,400.00	1,356.75	1,354.75	1,354.75	7.00	26.87	26.01	-270.18	2,620.97	2,369.35	2,337.07	32.28	73.400			
1,500.00	1,448.28	1,446.28	1,446.28	7.80	28.71	26.44	-270.18	2,620.97	2,332.62	2,298.01	34.61	67.401			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		SEC 3-T4N-R62W - ABND VERT STATE #1 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program:		0-INC										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,600.00	1,539.81	1,537.81	1,537.81	8.60	30.55	26.88	-270.18	2,620.97	2,296.02	2,259.07	36.95	62.142	
1,700.00	1,631.34	1,629.34	1,629.34	9.41	32.40	27.34	-270.18	2,620.97	2,259.54	2,220.25	39.30	57.498	
1,800.00	1,722.86	1,720.86	1,720.86	10.23	34.24	27.80	-270.18	2,620.97	2,223.20	2,181.54	41.66	53.368	
1,900.00	1,814.39	1,812.39	1,812.39	11.05	36.08	28.29	-270.18	2,620.97	2,186.99	2,142.96	44.03	49.673	
2,000.00	1,905.92	1,903.92	1,903.92	11.87	37.92	28.79	-270.18	2,620.97	2,150.92	2,104.52	46.41	46.349	
2,100.00	1,997.45	2,004.55	1,995.45	12.69	39.95	29.30	-270.18	2,620.97	2,115.01	2,066.03	48.98	43.181	
2,200.00	2,088.97	2,086.97	2,086.97	13.52	41.60	29.83	-270.18	2,620.97	2,079.26	2,028.07	51.20	40.613	
2,300.00	2,180.50	2,178.50	2,178.50	14.35	43.44	30.38	-270.18	2,620.97	2,043.68	1,990.07	53.61	38.123	
2,400.00	2,272.03	2,270.03	2,270.03	15.17	45.29	30.95	-270.18	2,620.97	2,008.28	1,952.25	56.03	35.844	
2,500.00	2,363.56	2,361.56	2,361.56	16.00	47.13	31.54	-270.18	2,620.97	1,973.06	1,914.60	58.46	33.750	
2,600.00	2,455.08	2,453.08	2,453.08	16.83	48.97	32.15	-270.18	2,620.97	1,938.04	1,877.13	60.90	31.821	
2,700.00	2,546.61	2,544.61	2,544.61	17.66	50.81	32.78	-270.18	2,620.97	1,903.23	1,839.87	63.36	30.038	
2,800.00	2,638.14	2,636.14	2,636.14	18.50	52.65	33.43	-270.18	2,620.97	1,868.63	1,802.81	65.83	28.386	
2,900.00	2,729.67	2,727.67	2,727.67	19.33	54.49	34.11	-270.18	2,620.97	1,834.27	1,765.96	68.31	26.852	
3,000.00	2,821.19	2,819.19	2,819.19	20.16	56.33	34.81	-270.18	2,620.97	1,800.16	1,729.35	70.81	25.424	
3,100.00	2,912.72	2,910.72	2,910.72	20.99	58.17	35.53	-270.18	2,620.97	1,766.31	1,692.99	73.32	24.091	
3,200.00	3,004.25	3,002.25	3,002.25	21.83	60.01	36.28	-270.18	2,620.97	1,732.73	1,656.88	75.84	22.846	
3,300.00	3,095.78	3,106.22	3,093.78	22.66	62.10	37.06	-270.18	2,620.97	1,699.44	1,620.80	78.64	21.611	
3,400.00	3,187.30	3,185.30	3,185.30	23.50	63.70	37.87	-270.18	2,620.97	1,666.46	1,585.51	80.95	20.587	
3,500.00	3,278.83	3,276.83	3,276.83	24.33	65.54	38.71	-270.18	2,620.97	1,633.81	1,550.29	83.52	19.561	
3,600.00	3,370.36	3,368.36	3,368.36	25.16	67.38	39.58	-270.18	2,620.97	1,601.50	1,515.39	86.12	18.596	
3,700.00	3,461.89	3,459.89	3,459.89	26.00	69.22	40.49	-270.18	2,620.97	1,569.57	1,480.83	88.74	17.688	
3,800.00	3,553.41	3,551.41	3,551.41	26.83	71.06	41.42	-270.18	2,620.97	1,538.03	1,446.65	91.37	16.832	
3,900.00	3,644.94	3,642.94	3,642.94	27.67	72.90	42.40	-270.18	2,620.97	1,506.90	1,412.87	94.03	16.026	
4,000.00	3,736.47	3,734.47	3,734.47	28.51	74.74	43.41	-270.18	2,620.97	1,476.22	1,379.51	96.71	15.264	
4,100.00	3,828.00	3,826.00	3,826.00	29.34	76.58	44.47	-270.18	2,620.97	1,446.01	1,346.59	99.42	14.545	
4,200.00	3,919.52	3,917.52	3,917.52	30.18	78.42	45.56	-270.18	2,620.97	1,416.29	1,314.15	102.14	13.866	
4,300.00	4,011.05	4,009.05	4,009.05	31.01	80.26	46.69	-270.18	2,620.97	1,387.12	1,282.22	104.90	13.224	
4,400.00	4,102.58	4,100.58	4,100.58	31.85	82.10	47.87	-270.18	2,620.97	1,358.51	1,250.83	107.67	12.617	
4,500.00	4,194.11	4,207.89	4,192.11	32.68	84.26	49.10	-270.18	2,620.97	1,330.50	1,219.71	110.80	12.009	
4,600.00	4,285.64	4,283.64	4,283.64	33.52	85.78	50.37	-270.18	2,620.97	1,303.14	1,189.83	113.31	11.501	
4,700.00	4,377.16	4,375.16	4,375.16	34.36	87.63	51.69	-270.18	2,620.97	1,276.47	1,160.30	116.17	10.988	
4,800.00	4,468.69	4,466.69	4,466.69	35.19	89.47	53.07	-270.18	2,620.97	1,250.52	1,131.47	119.05	10.504	
4,900.00	4,560.22	4,558.22	4,558.22	36.03	91.31	54.49	-270.18	2,620.97	1,225.35	1,103.39	121.96	10.047	
5,000.00	4,651.75	4,649.75	4,649.75	36.87	93.15	55.96	-270.18	2,620.97	1,201.00	1,076.11	124.89	9.616	
5,100.00	4,743.27	4,741.27	4,741.27	37.70	94.99	57.49	-270.18	2,620.97	1,177.53	1,049.67	127.85	9.210	
5,200.00	4,834.80	4,832.80	4,832.80	38.54	96.83	59.07	-270.18	2,620.97	1,154.98	1,024.15	130.83	8.828	
5,300.00	4,926.33	4,924.33	4,924.33	39.38	98.67	60.71	-270.18	2,620.97	1,133.42	999.59	133.83	8.469	
5,400.00	5,017.86	5,015.86	5,015.86	40.21	100.51	62.40	-270.18	2,620.97	1,112.90	976.05	136.85	8.132	
5,500.00	5,109.38	5,107.38	5,107.38	41.05	102.35	64.14	-270.18	2,620.97	1,093.48	953.59	139.89	7.817	
5,600.00	5,200.91	5,201.09	5,198.91	41.89	104.24	65.94	-270.18	2,620.97	1,075.21	932.24	142.97	7.520	
5,700.00	5,292.44	5,309.56	5,290.44	42.73	106.42	67.79	-270.18	2,620.97	1,058.17	911.81	146.36	7.230	
5,800.00	5,383.97	5,381.97	5,381.97	43.56	107.87	69.68	-270.18	2,620.97	1,042.41	893.38	149.03	6.995	
5,900.00	5,475.51	5,473.51	5,473.51	44.40	109.71	71.65	-270.18	2,620.97	1,027.79	875.71	152.07	6.758	
6,000.00	5,567.04	5,565.04	5,565.04	45.19	111.56	73.51	-270.18	2,620.97	1,014.49	858.96	154.96	6.485	
6,100.00	5,658.57	5,656.57	5,656.57	45.99	113.41	75.44	-270.18	2,620.97	1,001.87	843.13	157.85	6.214	
6,200.00	5,750.10	5,748.10	5,748.10	46.78	115.26	77.44	-270.18	2,620.97	989.88	828.22	160.71	5.947	
6,300.00	5,841.63	5,839.63	5,839.63	47.57	117.11	79.50	-270.18	2,620.97	978.57	813.26	163.54	5.685	
6,400.00	5,933.16	5,931.16	5,931.16	48.36	118.96	81.63	-270.18	2,620.97	967.89	798.35	166.34	5.428	
6,500.00	6,024.69	6,022.69	6,022.69	49.14	120.81	83.82	-270.18	2,620.97	957.78	783.50	169.09	5.175	
6,600.00	6,116.22	6,114.22	6,114.22	49.92	122.66	86.08	-270.18	2,620.97	948.19	768.71	171.79	4.927	
6,700.00	6,207.75	6,205.75	6,205.75	50.70	124.51	88.40	-270.18	2,620.97	939.07	753.97	174.44	4.684	
6,800.00	6,299.28	6,297.28	6,297.28	51.48	126.36	90.78	-270.18	2,620.97	930.37	739.28	177.04	4.446	
6,900.00	6,390.81	6,388.81	6,388.81	52.26	128.21	93.22	-270.18	2,620.97	922.03	724.64	179.59	4.213	
7,000.00	6,482.34	6,480.34	6,480.34	53.03	130.06	95.72	-270.18	2,620.97	914.00	710.05	182.09	3.985	
7,100.00	6,573.87	6,571.87	6,571.87	53.80	131.91	98.28	-270.18	2,620.97	906.23	695.51	184.54	3.762	
7,200.00	6,665.40	6,663.40	6,663.40	54.57	133.76	100.90	-270.18	2,620.97	898.68	681.02	186.99	3.544	
7,300.00	6,756.93	6,754.93	6,754.93	55.34	135.61	103.58	-270.18	2,620.97	891.32	666.59	189.34	3.331	
7,400.00	6,848.46	6,846.46	6,846.46	56.11	137.46	106.32	-270.18	2,620.97	884.11	652.20	191.59	3.123	
7,500.00	6,939.99	6,937.99	6,937.99	56.88	139.31	109.12	-270.18	2,620.97	877.02	637.91	193.74	2.920	
7,600.00	7,031.52	7,029.52	7,029.52	57.65	141.16	111.98	-270.18	2,620.97	870.03	623.71	195.79	2.722	
7,700.00	7,123.05	7,121.05	7,121.05	58.42	143.01	114.90	-270.18	2,620.97	863.12	609.60	197.74	2.529	
7,800.00	7,214.58	7,212.58	7,212.58	59.19	144.86	117.88	-270.18	2,620.97	856.27	595.58	199.59	2.341	
7,900.00	7,306.11	7,304.11	7,304.11	59.96	146.71	120.92	-270.18	2,620.97	849.47	581.64	201.34	2.158	
8,000.00	7,397.64	7,395.64	7,395.64	60.73	148.56	124.02	-270.18	2,620.97	842.71	567.78	202.99	1.980	
8,100.00	7,489.17	7,487.17	7,487.17	61.50	150.41	127.18	-270.18	2,620.97	836.00	554.00	204.54	1.807	
8,200.00	7,580.70	7,578.70	7,578.70	62.27	152.26	130.39	-270.18	2,620.97	829.43	540.29	205.99	1.639	
8,300.00	7,672.23	7,670.23	7,670.23	63.04	154.11	133.65	-270.18	2,620.97	822.99	526.65	207.34	1.476	
8,400.00	7,763.76	7,761.76	7,761.76	63.81	155.96	136.96	-270.18	2,620.97	816.68	513.07	208.59	1.318	
8,500.00	7,855.29	7,853.29	7,853.29	64.58	157.81	140.32	-270.18	2,620.97	810.40	500.00	209.74	1.164	
8,600.00													

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC SEC 3-T4N-R62W - ABND VERT STATE #1 - OWB - Design #1													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,700.00	6,024.17	6,022.17	6,022.17	47.86	120.75	-71.55	-270.18	2,620.97	541.11	378.95	162.15	3.337		
6,800.00	6,038.67	6,036.67	6,036.67	47.91	121.04	-86.26	-270.18	2,620.97	464.67	305.32	159.35	2.916		
6,900.00	6,040.00	6,038.00	6,038.00	47.93	121.07	-90.00	-270.18	2,620.97	402.15	247.26	154.89	2.596		
7,000.00	6,040.00	6,038.00	6,038.00	47.98	121.07	-90.00	-270.18	2,620.97	357.63	207.53	150.09	2.383		
7,100.00	6,040.00	6,038.00	6,038.00	48.09	121.07	-90.00	-270.18	2,620.97	337.74	189.39	148.34	2.277		
7,119.14	6,040.00	6,038.00	6,038.00	48.11	121.07	-90.00	-270.18	2,620.97	337.20	188.51	148.69	2.268	CC, ES, SF	
7,200.00	6,040.00	6,038.00	6,038.00	48.23	121.07	-90.00	-270.18	2,620.97	346.76	194.58	152.17	2.279		
7,300.00	6,040.00	6,038.00	6,038.00	48.43	121.07	-90.00	-270.18	2,620.97	382.64	224.41	158.23	2.418		
7,400.00	6,040.00	6,038.00	6,038.00	48.67	121.07	-90.00	-270.18	2,620.97	438.84	275.61	163.23	2.688		
7,500.00	6,040.00	6,038.00	6,038.00	48.97	121.07	-90.00	-270.18	2,620.97	508.68	342.05	166.63	3.053		
7,600.00	6,040.00	6,038.00	6,038.00	49.32	121.07	-90.00	-270.18	2,620.97	587.30	418.50	168.81	3.479		
7,700.00	6,040.00	6,038.00	6,038.00	49.73	121.07	-90.00	-270.18	2,620.97	671.64	501.42	170.22	3.946		
7,800.00	6,040.00	6,038.00	6,038.00	50.19	121.07	-90.00	-270.18	2,620.97	759.78	588.64	171.15	4.439		
7,900.00	6,040.00	6,038.00	6,038.00	50.71	121.07	-90.00	-270.18	2,620.97	850.55	678.78	171.78	4.951		
8,000.00	6,040.00	6,038.00	6,038.00	51.29	121.07	-90.00	-270.18	2,620.97	943.19	770.97	172.22	5.477		
8,100.00	6,040.00	6,038.00	6,038.00	51.93	121.07	-90.00	-270.18	2,620.97	1,037.20	864.67	172.53	6.012		
8,200.00	6,040.00	6,038.00	6,038.00	52.63	121.07	-90.00	-270.18	2,620.97	1,132.24	959.47	172.76	6.554		
8,300.00	6,040.00	6,038.00	6,038.00	53.39	121.07	-90.00	-270.18	2,620.97	1,228.06	1,055.12	172.94	7.101		
8,400.00	6,040.00	6,038.00	6,038.00	54.20	121.07	-90.00	-270.18	2,620.97	1,324.50	1,151.43	173.07	7.653		
8,500.00	6,040.00	6,038.00	6,038.00	55.07	121.07	-90.00	-270.18	2,620.97	1,421.43	1,248.26	173.17	8.208		
8,600.00	6,040.00	6,038.00	6,038.00	55.99	121.07	-90.00	-270.18	2,620.97	1,518.76	1,345.51	173.25	8.766		
8,700.00	6,040.00	6,038.00	6,038.00	56.97	121.07	-90.00	-270.18	2,620.97	1,616.42	1,443.11	173.31	9.327		
8,800.00	6,040.00	6,038.00	6,038.00	57.99	121.07	-90.00	-270.18	2,620.97	1,714.35	1,540.98	173.37	9.889		
8,900.00	6,040.00	6,038.00	6,038.00	59.06	121.07	-90.00	-270.18	2,620.97	1,812.50	1,639.09	173.41	10.452		
9,000.00	6,040.00	6,038.00	6,038.00	60.17	121.07	-90.00	-270.18	2,620.97	1,910.85	1,737.40	173.45	11.017		
9,100.00	6,040.00	6,038.00	6,038.00	61.32	121.07	-90.00	-270.18	2,620.97	2,009.35	1,835.88	173.48	11.583		
9,200.00	6,040.00	6,038.00	6,038.00	62.51	121.07	-90.00	-270.18	2,620.97	2,108.00	1,934.50	173.50	12.150		
9,300.00	6,040.00	6,038.00	6,038.00	63.73	121.07	-90.00	-270.18	2,620.97	2,206.77	2,033.25	173.53	12.717		
9,400.00	6,040.00	6,038.00	6,038.00	64.98	121.07	-90.00	-270.18	2,620.97	2,305.65	2,132.10	173.55	13.285		
9,500.00	6,040.00	6,038.00	6,038.00	66.27	121.07	-90.00	-270.18	2,620.97	2,404.62	2,231.05	173.57	13.854		
9,600.00	6,040.00	6,038.00	6,038.00	67.58	121.07	-90.00	-270.18	2,620.97	2,503.67	2,330.09	173.58	14.423		
9,700.00	6,040.00	6,038.00	6,038.00	68.92	121.07	-90.00	-270.18	2,620.97	2,602.79	2,429.19	173.60	14.993		
9,800.00	6,040.00	6,038.00	6,038.00	70.29	121.07	-90.00	-270.18	2,620.97	2,701.98	2,528.37	173.62	15.563		
9,900.00	6,040.00	6,038.00	6,038.00	71.67	121.07	-90.00	-270.18	2,620.97	2,801.23	2,627.60	173.63	16.133		
10,000.00	6,040.00	6,038.00	6,038.00	73.08	121.07	-90.00	-270.18	2,620.97	2,900.53	2,726.88	173.65	16.704		
10,100.00	6,040.00	6,038.00	6,038.00	74.51	121.07	-90.00	-270.18	2,620.97	2,999.87	2,826.21	173.66	17.274		
10,200.00	6,040.00	6,038.00	6,038.00	75.95	121.07	-90.00	-270.18	2,620.97	3,099.26	2,925.58	173.67	17.845		
10,300.00	6,040.00	6,038.00	6,038.00	77.41	121.07	-90.00	-270.18	2,620.97	3,198.68	3,024.99	173.69	18.416		
10,400.00	6,040.00	6,038.00	6,038.00	78.89	121.07	-90.00	-270.18	2,620.97	3,298.14	3,124.44	173.70	18.987		
10,500.00	6,040.00	6,038.00	6,038.00	80.38	121.07	-90.00	-270.18	2,620.97	3,397.63	3,223.92	173.72	19.559		
10,600.00	6,040.00	6,038.00	6,038.00	81.88	121.07	-90.00	-270.18	2,620.97	3,497.15	3,323.42	173.73	20.130		
10,700.00	6,040.00	6,038.00	6,038.00	83.40	121.07	-90.00	-270.18	2,620.97	3,596.70	3,422.96	173.74	20.701		
10,800.00	6,040.00	6,038.00	6,038.00	84.93	121.07	-90.00	-270.18	2,620.97	3,696.27	3,522.51	173.76	21.272		
10,900.00	6,040.00	6,038.00	6,038.00	86.47	121.07	-90.00	-270.18	2,620.97	3,795.87	3,622.09	173.77	21.844		
11,000.00	6,040.00	6,038.00	6,038.00	88.02	121.07	-90.00	-270.18	2,620.97	3,895.48	3,721.69	173.79	22.415		
11,100.00	6,040.00	6,038.00	6,038.00	89.58	121.07	-90.00	-270.18	2,620.97	3,995.11	3,821.31	173.80	22.986		
11,200.00	6,040.00	6,038.00	6,038.00	91.15	121.07	-90.00	-270.18	2,620.97	4,094.77	3,920.95	173.82	23.557		
11,300.00	6,040.00	6,038.00	6,038.00	92.73	121.07	-90.00	-270.18	2,620.97	4,194.44	4,020.60	173.84	24.129		
11,400.00	6,040.00	6,038.00	6,038.00	94.31	121.07	-90.00	-270.18	2,620.97	4,294.12	4,120.27	173.85	24.700		
11,500.00	6,040.00	6,038.00	6,038.00	95.91	121.07	-90.00	-270.18	2,620.97	4,393.82	4,219.95	173.87	25.271		
11,600.00	6,040.00	6,038.00	6,038.00	97.51	121.07	-90.00	-270.18	2,620.97	4,493.53	4,319.64	173.89	25.842		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 0-INC													SEC 3-T4N-R62W - ABND VERT STATE #1 - OWB - Design #1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,700.00	6,040.00	6,038.00	6,038.00	99.11	121.07	-90.00	-270.18	2,620.97	4,593.25	4,419.35	173.90	26.413				
11,800.00	6,040.00	6,038.00	6,038.00	100.73	121.07	-90.00	-270.18	2,620.97	4,692.99	4,519.07	173.92	26.983				
11,900.00	6,040.00	6,038.00	6,038.00	102.35	121.07	-90.00	-270.18	2,620.97	4,792.74	4,618.80	173.94	27.554				
12,000.00	6,040.00	6,038.00	6,038.00	103.97	121.07	-90.00	-270.18	2,620.97	4,892.49	4,718.53	173.96	28.124				
12,100.00	6,040.00	6,038.00	6,038.00	105.60	121.07	-90.00	-270.18	2,620.97	4,992.26	4,818.28	173.98	28.695				
12,200.00	6,040.00	6,038.00	6,038.00	107.24	121.07	-90.00	-270.18	2,620.97	5,092.04	4,918.04	174.00	29.265				
12,300.00	6,040.00	6,038.00	6,038.00	108.88	121.07	-90.00	-270.18	2,620.97	5,191.82	5,017.80	174.02	29.835				
12,400.00	6,040.00	6,038.00	6,038.00	110.53	121.07	-90.00	-270.18	2,620.97	5,291.61	5,117.58	174.04	30.405				
12,500.00	6,040.00	6,038.00	6,038.00	112.18	121.07	-90.00	-270.18	2,620.97	5,391.41	5,217.35	174.06	30.975				
12,600.00	6,040.00	6,038.00	6,038.00	113.83	121.07	-90.00	-270.18	2,620.97	5,491.22	5,317.14	174.08	31.544				
12,700.00	6,040.00	6,038.00	6,038.00	115.49	121.07	-90.00	-270.18	2,620.97	5,591.04	5,416.93	174.10	32.114				
12,800.00	6,040.00	6,038.00	6,038.00	117.16	121.07	-90.00	-270.18	2,620.97	5,690.86	5,516.73	174.12	32.683				
12,900.00	6,040.00	6,038.00	6,038.00	118.82	121.07	-90.00	-270.18	2,620.97	5,790.69	5,616.54	174.15	33.252				
13,000.00	6,040.00	6,038.00	6,038.00	120.49	121.07	-90.00	-270.18	2,620.97	5,890.52	5,716.35	174.17	33.821				
13,100.00	6,040.00	6,038.00	6,038.00	122.16	121.07	-90.00	-270.18	2,620.97	5,990.36	5,816.16	174.19	34.389				
13,200.00	6,040.00	6,038.00	6,038.00	123.84	121.07	-90.00	-270.18	2,620.97	6,090.20	5,915.98	174.22	34.958				
13,300.00	6,040.00	6,038.00	6,038.00	125.52	121.07	-90.00	-270.18	2,620.97	6,190.05	6,015.81	174.24	35.526				
13,400.00	6,040.00	6,038.00	6,038.00	127.20	121.07	-90.00	-270.18	2,620.97	6,289.90	6,115.64	174.27	36.094				
13,500.00	6,040.00	6,038.00	6,038.00	128.89	121.07	-90.00	-270.18	2,620.97	6,389.76	6,215.47	174.29	36.662				
13,600.00	6,040.00	6,038.00	6,038.00	130.58	121.07	-90.00	-270.18	2,620.97	6,489.63	6,315.31	174.32	37.229				
13,700.00	6,040.00	6,038.00	6,038.00	132.27	121.07	-90.00	-270.18	2,620.97	6,589.49	6,415.15	174.34	37.796				
13,800.00	6,040.00	6,038.00	6,038.00	133.96	121.07	-90.00	-270.18	2,620.97	6,689.36	6,515.00	174.37	38.364				
13,900.00	6,040.00	6,038.00	6,038.00	135.66	121.07	-90.00	-270.18	2,620.97	6,789.24	6,614.84	174.39	38.930				
14,000.00	6,040.00	6,038.00	6,038.00	137.35	121.07	-90.00	-270.18	2,620.97	6,889.12	6,714.70	174.42	39.497				
14,100.00	6,040.00	6,038.00	6,038.00	139.05	121.07	-90.00	-270.18	2,620.97	6,989.00	6,814.55	174.45	40.063				
14,200.00	6,040.00	6,038.00	6,038.00	140.75	121.07	-90.00	-270.18	2,620.97	7,088.88	6,914.41	174.48	40.629				
14,300.00	6,040.00	6,038.00	6,038.00	142.46	121.07	-90.00	-270.18	2,620.97	7,188.77	7,014.27	174.50	41.195				
14,400.00	6,040.00	6,038.00	6,038.00	144.17	121.07	-90.00	-270.18	2,620.97	7,288.66	7,114.13	174.53	41.761				
14,500.00	6,040.00	6,038.00	6,038.00	145.87	121.07	-90.00	-270.18	2,620.97	7,388.56	7,214.00	174.56	42.326				
14,600.00	6,040.00	6,038.00	6,038.00	147.58	121.07	-90.00	-270.18	2,620.97	7,488.45	7,313.86	174.59	42.891				
14,700.00	6,040.00	6,038.00	6,038.00	149.29	121.07	-90.00	-270.18	2,620.97	7,588.35	7,413.73	174.62	43.456				
14,800.00	6,040.00	6,038.00	6,038.00	151.01	121.07	-90.00	-270.18	2,620.97	7,688.26	7,513.61	174.65	44.020				
14,900.00	6,040.00	6,038.00	6,038.00	152.72	121.07	-90.00	-270.18	2,620.97	7,788.16	7,613.48	174.68	44.585				
15,000.00	6,040.00	6,038.00	6,038.00	154.44	121.07	-90.00	-270.18	2,620.97	7,888.07	7,713.36	174.71	45.149				
15,100.00	6,040.00	6,038.00	6,038.00	156.16	121.07	-90.00	-270.18	2,620.97	7,987.98	7,813.23	174.75	45.712				
15,200.00	6,040.00	6,038.00	6,038.00	157.88	121.07	-90.00	-270.18	2,620.97	8,087.89	7,913.11	174.78	46.275				
15,300.00	6,040.00	6,038.00	6,038.00	159.60	121.07	-90.00	-270.18	2,620.97	8,187.81	8,013.00	174.81	46.838				
15,400.00	6,040.00	6,038.00	6,038.00	161.32	121.07	-90.00	-270.18	2,620.97	8,287.72	8,112.88	174.84	47.401				
15,500.00	6,040.00	6,038.00	6,038.00	163.04	121.07	-90.00	-270.18	2,620.97	8,387.64	8,212.76	174.87	47.964				
15,600.00	6,040.00	6,038.00	6,038.00	164.77	121.07	-90.00	-270.18	2,620.97	8,487.56	8,312.65	174.91	48.526				
15,700.00	6,040.00	6,038.00	6,038.00	166.49	121.07	-90.00	-270.18	2,620.97	8,587.48	8,412.54	174.94	49.088				
15,800.00	6,040.00	6,038.00	6,038.00	168.22	121.07	-90.00	-270.18	2,620.97	8,687.41	8,512.43	174.98	49.649				
15,900.00	6,040.00	6,038.00	6,038.00	169.95	121.07	-90.00	-270.18	2,620.97	8,787.33	8,612.32	175.01	50.210				
16,000.00	6,040.00	6,038.00	6,038.00	171.68	121.07	-90.00	-270.18	2,620.97	8,887.26	8,712.21	175.05	50.771				
16,100.00	6,040.00	6,038.00	6,038.00	173.41	121.07	-90.00	-270.18	2,620.97	8,987.19	8,812.11	175.08	51.332				
16,200.00	6,040.00	6,038.00	6,038.00	175.14	121.07	-90.00	-270.18	2,620.97	9,087.12	8,912.00	175.12	51.892				
16,300.00	6,040.00	6,038.00	6,038.00	176.88	121.07	-90.00	-270.18	2,620.97	9,187.05	9,011.90	175.15	52.452				
16,400.00	6,040.00	6,038.00	6,038.00	178.61	121.07	-90.00	-270.18	2,620.97	9,286.98	9,111.79	175.19	53.011				
16,500.00	6,040.00	6,038.00	6,038.00	180.34	121.07	-90.00	-270.18	2,620.97	9,386.92	9,211.69	175.23	53.570				
16,600.00	6,040.00	6,038.00	6,038.00	182.08	121.07	-90.00	-270.18	2,620.97	9,486.85	9,311.59	175.26	54.129				
16,700.00	6,040.00	6,038.00	6,038.00	183.82	121.07	-90.00	-270.18	2,620.97	9,586.79	9,411.49	175.30	54.687				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC      SEC 3-T4N-R62W - ABND VERT STATE #1 - OWB - Design #1													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,800.00	6,040.00	6,038.00	6,038.00	185.56	121.07	-90.00	-270.18	2,620.97	9,686.73	9,511.39	175.34	55.246		
16,865.66	6,040.00	6,038.00	6,038.00	186.70	121.07	-90.00	-270.18	2,620.97	9,752.35	9,576.98	175.36	55.612		

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 100-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
0.00	0.00	0.00	0.00	0.00	0.00	115.96	-1,259.64	2,587.63	2,877.95									
100.00	100.00	100.72	100.72	0.13	0.14	115.97	-1,259.99	2,587.29	2,877.80	2,877.52	0.28	N/A						
200.00	199.98	177.30	177.30	0.49	0.41	41.64	-1,260.42	2,587.17	2,876.60	2,875.70	0.90	3,189.590						
300.00	299.84	319.32	319.31	0.86	0.90	41.79	-1,260.26	2,587.27	2,872.80	2,871.04	1.76	1,632.139						
400.00	399.45	391.21	391.21	1.23	1.16	41.97	-1,260.36	2,587.06	2,866.02	2,863.64	2.38	1,203.967						
500.00	498.70	468.74	468.73	1.63	1.43	42.22	-1,260.85	2,587.14	2,857.33	2,854.30	3.03	942.268						
600.00	597.47	591.54	591.53	2.05	1.86	42.63	-1,261.07	2,587.88	2,846.39	2,842.53	3.86	738.210						
700.00	695.62	696.05	696.04	2.51	2.22	43.10	-1,260.84	2,587.72	2,832.05	2,827.42	4.63	611.619						
800.00	793.06	780.42	780.40	3.00	2.52	43.62	-1,261.45	2,587.33	2,815.42	2,810.06	5.36	525.439						
900.00	889.64	863.47	863.45	3.54	2.81	44.20	-1,261.86	2,587.50	2,796.87	2,790.77	6.11	457.994						
1,000.00	985.27	958.14	958.12	4.13	3.14	44.90	-1,262.09	2,588.12	2,776.27	2,769.34	6.93	400.876						
1,100.00	1,079.82	1,054.13	1,054.11	4.77	3.48	45.70	-1,262.24	2,588.77	2,753.40	2,745.61	7.78	353.754						
1,200.00	1,173.17	1,141.75	1,141.73	5.46	3.79	46.56	-1,262.47	2,589.39	2,728.44	2,719.79	8.65	315.349						
1,300.00	1,265.23	1,239.10	1,239.07	6.21	4.13	47.53	-1,262.94	2,589.99	2,701.46	2,691.86	9.60	281.356						
1,400.00	1,356.75	1,332.15	1,332.13	7.00	4.46	48.15	-1,263.44	2,590.40	2,673.78	2,663.22	10.56	253.213						
1,500.00	1,448.28	1,427.35	1,427.32	7.80	4.80	48.80	-1,264.04	2,590.67	2,646.34	2,634.79	11.54	229.251						
1,600.00	1,539.81	1,527.08	1,527.05	8.60	5.16	49.50	-1,264.71	2,590.63	2,618.99	2,606.43	12.56	208.557						
1,700.00	1,631.34	1,616.68	1,616.65	9.41	5.47	50.15	-1,265.58	2,590.30	2,591.88	2,578.33	13.55	191.244						
1,800.00	1,722.86	1,700.37	1,700.33	10.23	5.77	50.77	-1,266.57	2,590.09	2,565.33	2,550.78	14.54	176.385						
1,900.00	1,814.39	1,881.52	1,881.45	11.05	6.41	52.15	-1,268.02	2,588.52	2,539.30	2,523.44	15.86	160.144						
2,000.00	1,905.92	1,963.72	1,963.61	11.87	6.69	52.80	-1,267.59	2,586.04	2,510.58	2,493.72	16.86	148.915						
2,100.00	1,997.45	2,049.78	2,049.64	12.69	6.98	53.49	-1,267.40	2,583.55	2,482.49	2,464.60	17.89	138.775						
2,200.00	2,088.97	2,213.80	2,213.43	13.52	7.55	54.88	-1,266.34	2,575.37	2,452.69	2,433.53	19.16	128.021						
2,300.00	2,180.50	2,378.08	2,377.17	14.35	8.13	56.38	-1,265.00	2,562.37	2,421.60	2,401.16	20.43	118.522						
2,400.00	2,272.03	2,457.23	2,455.88	15.17	8.41	57.18	-1,265.06	2,554.01	2,389.61	2,368.11	21.50	111.167						
2,500.00	2,363.56	2,517.54	2,515.82	16.00	8.63	57.81	-1,266.18	2,547.47	2,358.99	2,336.46	22.53	104.712						
2,600.00	2,455.08	2,591.07	2,588.86	16.83	8.90	58.62	-1,268.73	2,539.42	2,329.83	2,306.22	23.62	98.646						
2,700.00	2,546.61	2,682.35	2,679.52	17.66	9.23	59.66	-1,272.26	2,529.39	2,301.64	2,276.86	24.78	92.894						
2,800.00	2,638.14	2,773.87	2,770.55	18.50	9.57	60.67	-1,274.29	2,520.10	2,273.80	2,247.85	25.95	87.635						
2,900.00	2,729.67	2,853.51	2,849.84	19.33	9.86	61.56	-1,275.39	2,512.69	2,246.79	2,219.70	27.09	82.932						
3,000.00	2,821.19	2,933.73	2,929.77	20.16	10.16	62.44	-1,276.28	2,505.97	2,220.93	2,192.68	28.25	78.617						
3,100.00	2,912.72	3,027.25	3,022.98	20.99	10.50	63.48	-1,276.85	2,498.43	2,195.70	2,166.24	29.46	74.542						
3,200.00	3,004.25	3,110.96	3,106.38	21.83	10.81	64.45	-1,277.81	2,491.32	2,171.28	2,140.63	30.65	70.842						
3,300.00	3,095.78	3,207.78	3,202.81	22.66	11.18	65.59	-1,279.09	2,482.70	2,147.53	2,115.63	31.90	67.330						
3,400.00	3,187.30	3,305.60	3,300.24	23.50	11.54	66.76	-1,279.83	2,473.98	2,124.23	2,091.07	33.15	64.073						
3,500.00	3,278.83	3,405.91	3,400.11	24.33	11.92	67.99	-1,280.12	2,464.59	2,101.20	2,066.77	34.43	61.031						
3,600.00	3,370.36	3,491.43	3,485.21	25.16	12.24	69.06	-1,280.57	2,456.12	2,078.91	2,043.24	35.68	58.271						
3,700.00	3,461.89	3,579.89	3,573.21	26.00	12.58	70.20	-1,281.16	2,447.20	2,057.55	2,020.61	36.94	55.693						
3,800.00	3,553.41	3,645.82	3,638.83	26.83	12.83	71.06	-1,281.84	2,440.81	2,037.60	1,999.44	38.16	53.400						
3,900.00	3,644.94	3,728.89	3,721.55	27.67	13.14	72.15	-1,283.05	2,433.30	2,019.28	1,979.86	39.42	51.221						
4,000.00	3,736.47	3,818.93	3,811.26	28.51	13.48	73.33	-1,283.90	2,425.63	2,001.86	1,961.15	40.71	49.173						
4,100.00	3,828.00	3,905.40	3,897.45	29.34	13.81	74.46	-1,284.26	2,418.86	1,985.40	1,943.41	41.99	47.285						
4,200.00	3,919.52	3,984.04	3,975.84	30.18	14.10	75.51	-1,284.90	2,412.55	1,970.14	1,926.89	43.25	45.557						
4,300.00	4,011.05	4,056.14	4,047.72	31.01	14.37	76.48	-1,285.95	2,407.09	1,956.58	1,912.10	44.48	43.986						
4,400.00	4,102.58	4,148.04	4,139.39	31.85	14.72	77.72	-1,287.35	2,400.52	1,944.32	1,898.54	45.78	42.472						
4,500.00	4,194.11	4,243.16	4,234.29	32.68	15.07	78.99	-1,288.22	2,394.23	1,932.88	1,885.80	47.08	41.056						
4,600.00	4,285.64	4,333.66	4,324.62	33.52	15.41	80.20	-1,288.59	2,388.72	1,922.29	1,873.93	48.36	39.752						
4,700.00	4,377.16	4,416.13	4,406.95	34.36	15.71	81.31	-1,288.91	2,383.96	1,912.83	1,863.23	49.60	38.562						
4,800.00	4,468.69	4,492.28	4,482.98	35.19	15.99	82.33	-1,289.48	2,379.83	1,904.85	1,854.02	50.82	37.481						
4,900.00	4,560.22	4,557.74	4,548.36	36.03	16.23	83.21	-1,290.41	2,376.71	1,898.69	1,846.71	51.99	36.523						
5,000.00	4,651.75	4,619.00	4,609.59	36.87	16.45	84.01	-1,291.80	2,375.06	1,894.95	1,841.84	53.11	35.680						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 100-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-1721BH2 - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	4,743.27	4,699.18	4,689.73	37.70	16.73	85.03	-1,294.08	2,374.03	1,893.11	1,838.83	54.28	34.874				
5,200.00	4,834.80	4,834.44	4,824.95	38.54	17.21	86.74	-1,296.40	2,372.36	1,891.24	1,835.57	55.66	33.976				
5,300.00	4,926.33	4,925.94	4,916.44	39.38	17.53	87.90	-1,297.01	2,370.83	1,889.30	1,832.43	56.87	33.224				
5,400.00	5,017.86	5,018.94	5,009.43	40.21	17.86	89.07	-1,297.46	2,369.59	1,888.20	1,830.14	58.06	32.522				
5,482.09	5,092.99	5,094.78	5,085.26	40.90	18.13	90.02	-1,297.65	2,368.93	1,887.92	1,828.89	59.03	31.985				
5,500.00	5,109.38	5,110.67	5,101.16	41.05	18.18	90.22	-1,297.68	2,368.83	1,887.94	1,828.70	59.23	31.873				
5,600.00	5,200.91	5,200.76	5,191.24	41.89	18.50	91.33	-1,297.85	2,368.45	1,888.61	1,828.22	60.39	31.276				
5,700.00	5,292.44	5,298.31	5,288.79	42.73	18.83	92.52	-1,297.82	2,368.32	1,890.01	1,828.47	61.54	30.710				
5,800.00	5,383.97	5,395.91	5,386.39	43.56	19.16	93.71	-1,297.37	2,368.51	1,891.96	1,829.28	62.68	30.185				
5,900.00	5,475.51	5,489.09	5,479.57	44.40	19.47	94.19	-1,296.76	2,368.73	1,894.36	1,830.58	63.78	29.701				
6,000.00	5,567.37	5,820.00	5,801.74	45.19	20.46	70.39	-1,270.77	2,415.24	1,885.12	1,819.94	65.18	28.922				
6,100.00	5,657.57	5,850.00	5,827.76	45.89	20.53	50.71	-1,265.08	2,429.02	1,850.17	1,784.02	66.15	27.970				
6,200.00	5,743.38	5,883.00	5,855.05	46.48	20.62	36.81	-1,259.41	2,446.67	1,802.26	1,735.30	66.96	26.915				
6,300.00	5,822.18	5,917.00	5,881.75	46.95	20.71	27.01	-1,254.28	2,467.07	1,742.30	1,674.69	67.62	25.767				
6,400.00	5,891.60	5,933.79	5,894.51	47.31	20.76	19.63	-1,252.19	2,477.78	1,671.77	1,603.70	68.07	24.561				
6,500.00	5,949.50	5,946.00	5,903.67	47.58	20.79	12.93	-1,250.93	2,485.75	1,592.03	1,523.70	68.33	23.300				
6,600.00	5,994.15	5,958.33	5,912.81	47.76	20.83	4.85	-1,249.90	2,493.96	1,504.59	1,436.16	68.44	21.985				
6,700.00	6,024.17	5,965.28	5,917.91	47.86	20.86	-8.45	-1,249.43	2,498.66	1,411.28	1,342.89	68.39	20.635				
6,800.00	6,038.67	5,968.25	5,920.08	47.91	20.86	-38.96	-1,249.26	2,500.68	1,314.20	1,245.99	68.22	19.265				
6,900.00	6,040.00	5,967.45	5,919.50	47.93	20.86	-59.78	-1,249.30	2,500.14	1,215.84	1,147.90	67.94	17.895				
7,000.00	6,040.00	5,966.13	5,918.54	47.98	20.86	-59.45	-1,249.38	2,499.24	1,117.70	1,050.08	67.61	16.530				
7,100.00	6,040.00	5,964.66	5,917.46	48.09	20.85	-59.08	-1,249.47	2,498.24	1,019.91	952.69	67.22	15.173				
7,200.00	6,040.00	5,963.00	5,916.24	48.23	20.85	-58.67	-1,249.57	2,497.12	922.58	855.85	66.73	13.826				
7,300.00	6,040.00	5,961.13	5,914.87	48.43	20.84	-58.19	-1,249.70	2,495.85	825.88	759.77	66.11	12.492				
7,400.00	6,040.00	5,959.00	5,913.30	48.67	20.83	-57.65	-1,249.85	2,494.41	730.06	664.73	65.32	11.176				
7,500.00	6,040.00	5,956.54	5,911.49	48.97	20.83	-57.03	-1,250.03	2,492.77	635.50	571.23	64.28	9.887				
7,600.00	6,040.00	5,953.69	5,909.38	49.32	20.82	-56.30	-1,250.26	2,490.86	542.87	480.03	62.84	8.639				
7,700.00	6,040.00	5,946.00	5,903.67	49.73	20.79	-54.32	-1,250.93	2,485.75	453.38	392.58	60.80	7.457				
7,800.00	6,040.00	5,946.00	5,903.67	50.19	20.79	-54.32	-1,250.93	2,485.75	369.15	311.30	57.85	6.381				
7,900.00	6,040.00	5,941.39	5,900.23	50.71	20.78	-53.13	-1,251.38	2,482.73	294.89	240.98	53.91	5.470				
8,000.00	6,040.00	5,935.41	5,895.74	51.29	20.76	-51.58	-1,252.01	2,478.83	239.90	188.97	50.93	4.710				
8,098.04	6,040.00	5,928.18	5,890.27	51.92	20.74	-49.70	-1,252.84	2,474.17	219.12	164.68	54.44	4.025 CC				
8,100.00	6,040.00	5,928.02	5,890.15	51.93	20.74	-49.66	-1,252.86	2,474.06	219.13	164.54	54.59	4.014 ES				
8,200.00	6,040.00	5,918.64	5,883.00	52.63	20.71	-47.22	-1,254.06	2,468.11	241.47	178.67	62.80	3.845 SF				
8,300.00	6,040.00	5,908.75	5,875.39	53.39	20.69	-44.67	-1,255.44	2,461.95	297.26	229.03	68.23	4.357				
8,400.00	6,040.00	5,897.70	5,866.75	54.20	20.66	-41.87	-1,257.08	2,455.26	371.68	301.20	70.48	5.274				
8,500.00	6,040.00	5,884.90	5,856.57	55.07	20.62	-38.70	-1,259.10	2,447.76	455.64	384.46	71.18	6.401				
8,600.00	6,040.00	5,873.15	5,847.06	55.99	20.59	-35.91	-1,261.06	2,441.15	544.69	473.33	71.36	7.633				
8,700.00	6,040.00	5,860.99	5,837.01	56.97	20.56	-33.15	-1,263.15	2,434.63	636.71	565.42	71.29	8.931				
8,800.00	6,040.00	5,847.43	5,825.57	57.99	20.53	-30.25	-1,265.54	2,427.75	730.55	659.46	71.10	10.275				
8,900.00	6,040.00	5,828.81	5,809.49	59.06	20.48	-26.64	-1,269.03	2,419.05	825.51	754.75	70.76	11.667				
9,000.00	6,040.00	5,820.00	5,801.74	60.17	20.46	-25.08	-1,270.77	2,415.24	921.21	850.52	70.69	13.032				
9,100.00	6,040.00	5,804.67	5,788.08	61.32	20.42	-22.58	-1,273.77	2,408.98	1,017.47	947.01	70.47	14.439				
9,200.00	6,040.00	5,795.73	5,780.01	62.51	20.40	-21.24	-1,275.46	2,405.50	1,114.27	1,043.89	70.38	15.831				
9,300.00	6,040.00	5,787.31	5,772.36	63.73	20.38	-20.04	-1,276.99	2,402.34	1,211.47	1,141.15	70.31	17.230				
9,400.00	6,040.00	5,779.38	5,765.10	64.98	20.36	-18.99	-1,278.40	2,399.47	1,308.98	1,238.73	70.25	18.634				
9,500.00	6,040.00	5,771.89	5,758.20	66.27	20.34	-18.04	-1,279.68	2,396.86	1,406.74	1,336.56	70.19	20.042				
9,600.00	6,040.00	5,755.00	5,742.49	67.58	20.30	-16.10	-1,282.45	2,391.31	1,504.80	1,434.79	70.01	21.494				
9,700.00	6,040.00	5,755.00	5,742.49	68.92	20.30	-16.10	-1,282.45	2,391.31	1,602.90	1,532.85	70.05	22.881				
9,800.00	6,040.00	5,755.00	5,742.49	70.29	20.30	-16.10	-1,282.45	2,391.31	1,701.22	1,631.13	70.09	24.272				
9,900.00	6,040.00	5,755.00	5,742.49	71.67	20.30	-16.10	-1,282.45	2,391.31	1,799.73	1,729.61	70.12	25.667				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 100-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
10,000.00	6,040.00	5,741.41	5,729.69	73.08	20.26	-14.72	-1,284.53	2,387.23	1,898.25	1,828.25	70.00	27.117						
10,100.00	6,040.00	5,736.50	5,725.04	74.51	20.25	-14.26	-1,285.24	2,385.84	1,996.94	1,926.96	69.98	28.536						
10,200.00	6,040.00	5,723.00	5,712.15	75.95	20.21	-13.10	-1,287.10	2,382.29	2,095.77	2,025.89	69.88	29.990						
10,300.00	6,040.00	5,723.00	5,712.15	77.41	20.21	-13.10	-1,287.10	2,382.29	2,194.59	2,124.69	69.91	31.393						
10,400.00	6,040.00	5,723.00	5,712.15	78.89	20.21	-13.10	-1,287.10	2,382.29	2,293.52	2,223.59	69.93	32.797						
10,500.00	6,040.00	5,723.00	5,712.15	80.38	20.21	-13.10	-1,287.10	2,382.29	2,392.53	2,322.58	69.95	34.203						
10,600.00	6,040.00	5,723.00	5,712.15	81.88	20.21	-13.10	-1,287.10	2,382.29	2,491.62	2,421.65	69.97	35.610						
10,700.00	6,040.00	5,723.00	5,712.15	83.40	20.21	-13.10	-1,287.10	2,382.29	2,590.78	2,520.79	69.99	37.017						
10,800.00	6,040.00	5,711.50	5,701.06	84.93	20.18	-12.23	-1,288.55	2,379.62	2,689.90	2,619.97	69.92	38.469						
10,900.00	6,040.00	5,708.94	5,698.58	86.47	20.17	-12.05	-1,288.86	2,379.07	2,789.13	2,719.20	69.93	39.887						
11,000.00	6,040.00	5,706.50	5,696.20	88.02	20.16	-11.89	-1,289.14	2,378.57	2,888.40	2,818.47	69.93	41.305						
11,100.00	6,040.00	5,694.00	5,683.99	89.58	20.13	-11.11	-1,290.47	2,376.28	2,987.79	2,917.92	69.87	42.760						
11,200.00	6,040.00	5,694.00	5,683.99	91.15	20.13	-11.11	-1,290.47	2,376.28	3,087.10	3,017.21	69.89	44.170						
11,300.00	6,040.00	5,694.00	5,683.99	92.73	20.13	-11.11	-1,290.47	2,376.28	3,186.46	3,116.55	69.91	45.579						
11,400.00	6,040.00	5,694.00	5,683.99	94.31	20.13	-11.11	-1,290.47	2,376.28	3,285.86	3,215.93	69.93	46.988						
11,500.00	6,040.00	5,694.00	5,683.99	95.91	20.13	-11.11	-1,290.47	2,376.28	3,385.29	3,315.35	69.95	48.397						
11,600.00	6,040.00	5,694.00	5,683.99	97.51	20.13	-11.11	-1,290.47	2,376.28	3,484.76	3,414.79	69.97	49.805						
11,700.00	6,040.00	5,694.00	5,683.99	99.11	20.13	-11.11	-1,290.47	2,376.28	3,584.25	3,514.27	69.99	51.214						
11,800.00	6,040.00	5,694.00	5,683.99	100.73	20.13	-11.11	-1,290.47	2,376.28	3,683.78	3,613.77	70.01	52.621						
11,900.00	6,040.00	5,694.00	5,683.99	102.35	20.13	-11.11	-1,290.47	2,376.28	3,783.32	3,713.30	70.02	54.028						
12,000.00	6,040.00	5,694.00	5,683.99	103.97	20.13	-11.11	-1,290.47	2,376.28	3,882.90	3,812.85	70.04	55.435						
12,100.00	6,040.00	5,694.00	5,683.99	105.60	20.13	-11.11	-1,290.47	2,376.28	3,982.49	3,912.42	70.06	56.841						
12,200.00	6,040.00	5,694.00	5,683.99	107.24	20.13	-11.11	-1,290.47	2,376.28	4,082.10	4,012.02	70.08	58.246						
12,300.00	6,040.00	5,694.00	5,683.99	108.88	20.13	-11.11	-1,290.47	2,376.28	4,181.73	4,111.63	70.10	59.650						
12,400.00	6,040.00	5,694.00	5,683.99	110.53	20.13	-11.11	-1,290.47	2,376.28	4,281.38	4,211.25	70.13	61.053						
12,500.00	6,040.00	5,680.88	5,671.07	112.18	20.09	-10.43	-1,291.66	2,374.37	4,380.92	4,310.83	70.09	62.506						
12,600.00	6,040.00	5,679.68	5,669.88	113.83	20.09	-10.37	-1,291.76	2,374.22	4,480.57	4,410.47	70.10	63.913						
12,700.00	6,040.00	5,678.53	5,668.74	115.49	20.08	-10.32	-1,291.85	2,374.08	4,580.24	4,510.12	70.12	65.318						
12,800.00	6,040.00	5,677.41	5,667.63	117.16	20.08	-10.27	-1,291.94	2,373.95	4,679.92	4,609.78	70.14	66.722						
12,900.00	6,040.00	5,676.33	5,666.56	118.82	20.08	-10.22	-1,292.03	2,373.83	4,779.61	4,709.45	70.16	68.125						
13,000.00	6,040.00	5,663.00	5,653.32	120.49	20.04	-9.68	-1,292.94	2,372.60	4,879.43	4,809.29	70.14	69.570						
13,100.00	6,040.00	5,663.00	5,653.32	122.16	20.04	-9.68	-1,292.94	2,372.60	4,979.12	4,908.96	70.16	70.967						
13,200.00	6,040.00	5,663.00	5,653.32	123.84	20.04	-9.68	-1,292.94	2,372.60	5,078.83	5,008.64	70.19	72.362						
13,300.00	6,040.00	5,663.00	5,653.32	125.52	20.04	-9.68	-1,292.94	2,372.60	5,178.55	5,108.34	70.21	73.757						
13,400.00	6,040.00	5,663.00	5,653.32	127.20	20.04	-9.68	-1,292.94	2,372.60	5,278.28	5,208.04	70.24	75.150						
13,500.00	6,040.00	5,663.00	5,653.32	128.89	20.04	-9.68	-1,292.94	2,372.60	5,378.02	5,307.75	70.26	76.542						
13,600.00	6,040.00	5,663.00	5,653.32	130.58	20.04	-9.68	-1,292.94	2,372.60	5,477.77	5,407.48	70.29	77.933						
13,700.00	6,040.00	5,663.00	5,653.32	132.27	20.04	-9.68	-1,292.94	2,372.60	5,577.52	5,507.21	70.32	79.322						
13,800.00	6,040.00	5,663.00	5,653.32	133.96	20.04	-9.68	-1,292.94	2,372.60	5,677.29	5,606.95	70.34	80.710						
13,900.00	6,040.00	5,663.00	5,653.32	135.66	20.04	-9.68	-1,292.94	2,372.60	5,777.07	5,706.70	70.37	82.096						
14,000.00	6,040.00	5,663.00	5,653.32	137.35	20.04	-9.68	-1,292.94	2,372.60	5,876.85	5,806.45	70.40	83.481						
14,100.00	6,040.00	5,663.00	5,653.32	139.05	20.04	-9.68	-1,292.94	2,372.60	5,976.64	5,906.21	70.43	84.864						
14,200.00	6,040.00	5,663.00	5,653.32	140.75	20.04	-9.68	-1,292.94	2,372.60	6,076.43	6,005.98	70.45	86.246						
14,300.00	6,040.00	5,663.00	5,653.32	142.46	20.04	-9.68	-1,292.94	2,372.60	6,176.24	6,105.75	70.48	87.626						
14,400.00	6,040.00	5,663.00	5,653.32	144.17	20.04	-9.68	-1,292.94	2,372.60	6,276.05	6,205.53	70.51	89.005						
14,500.00	6,040.00	5,663.00	5,653.32	145.87	20.04	-9.68	-1,292.94	2,372.60	6,375.86	6,305.32	70.54	90.382						
14,600.00	6,040.00	5,663.00	5,653.32	147.58	20.04	-9.68	-1,292.94	2,372.60	6,475.68	6,405.11	70.57	91.757						
14,700.00	6,040.00	5,663.00	5,653.32	149.29	20.04	-9.68	-1,292.94	2,372.60	6,575.51	6,504.91	70.60	93.131						
14,800.00	6,040.00	5,663.00	5,653.32	151.01	20.04	-9.68	-1,292.94	2,372.60	6,675.34	6,604.71	70.64	94.503						
14,900.00	6,040.00	5,663.00	5,653.32	152.72	20.04	-9.68	-1,292.94	2,372.60	6,775.18	6,704.51	70.67	95.874						
15,000.00	6,040.00	5,663.00	5,653.32	154.44	20.04	-9.68	-1,292.94	2,372.60	6,875.02	6,804.32	70.70	97.242						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft				
Survey Program: 100-MWD OWSG												Offset Well Error:		0.00 usft			
Reference				Offset				Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
15,100.00	6,040.00	5,663.00	5,653.32	156.16	20.04	-9.68	-1,292.94	2,372.60	6,974.87	6,904.13	70.73	98.609					
15,200.00	6,040.00	5,663.00	5,653.32	157.88	20.04	-9.68	-1,292.94	2,372.60	7,074.72	7,003.95	70.77	99.974					
15,300.00	6,040.00	5,663.00	5,653.32	159.60	20.04	-9.68	-1,292.94	2,372.60	7,174.57	7,103.77	70.80	101.337					
15,400.00	6,040.00	5,663.00	5,653.32	161.32	20.04	-9.68	-1,292.94	2,372.60	7,274.43	7,203.60	70.83	102.699					
15,500.00	6,040.00	5,663.00	5,653.32	163.04	20.04	-9.68	-1,292.94	2,372.60	7,374.29	7,303.43	70.87	104.058					
15,600.00	6,040.00	5,663.00	5,653.32	164.77	20.04	-9.68	-1,292.94	2,372.60	7,474.16	7,403.26	70.90	105.416					
15,700.00	6,040.00	5,663.00	5,653.32	166.49	20.04	-9.68	-1,292.94	2,372.60	7,574.03	7,503.09	70.94	106.771					
15,800.00	6,040.00	5,663.00	5,653.32	168.22	20.04	-9.68	-1,292.94	2,372.60	7,673.90	7,602.93	70.97	108.125					
15,900.00	6,040.00	5,663.00	5,653.32	169.95	20.04	-9.68	-1,292.94	2,372.60	7,773.78	7,702.77	71.01	109.477					
16,000.00	6,040.00	5,663.00	5,653.32	171.68	20.04	-9.68	-1,292.94	2,372.60	7,873.66	7,802.61	71.04	110.827					
16,100.00	6,040.00	5,663.00	5,653.32	173.41	20.04	-9.68	-1,292.94	2,372.60	7,973.54	7,902.46	71.08	112.175					
16,200.00	6,040.00	5,663.00	5,653.32	175.14	20.04	-9.68	-1,292.94	2,372.60	8,073.42	8,002.31	71.12	113.521					
16,300.00	6,040.00	5,663.00	5,653.32	176.88	20.04	-9.68	-1,292.94	2,372.60	8,173.31	8,102.16	71.16	114.865					
16,400.00	6,040.00	5,663.00	5,653.32	178.61	20.04	-9.68	-1,292.94	2,372.60	8,273.20	8,202.01	71.19	116.206					
16,500.00	6,040.00	5,663.00	5,653.32	180.34	20.04	-9.68	-1,292.94	2,372.60	8,373.10	8,301.86	71.23	117.546					
16,600.00	6,040.00	5,663.00	5,653.32	182.08	20.04	-9.68	-1,292.94	2,372.60	8,472.99	8,401.72	71.27	118.884					
16,700.00	6,040.00	5,663.00	5,653.32	183.82	20.04	-9.68	-1,292.94	2,372.60	8,572.89	8,501.58	71.31	120.219					
16,800.00	6,040.00	5,663.00	5,653.32	185.56	20.04	-9.68	-1,292.94	2,372.60	8,672.79	8,601.44	71.35	121.553					
16,865.66	6,040.00	5,663.00	5,653.32	186.70	20.04	-9.68	-1,292.94	2,372.60	8,738.39	8,667.01	71.38	122.427					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 100-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	116.22	-1,274.94	2,588.46	2,885.43						
100.00	100.00	111.66	111.66	0.13	0.18	116.23	-1,275.08	2,587.82	2,884.96	2,884.64	0.32	9,095.848			
200.00	199.98	180.54	180.53	0.49	0.43	41.91	-1,275.68	2,587.41	2,883.52	2,882.60	0.92	3,146.719			
300.00	299.84	256.19	256.18	0.86	0.69	42.03	-1,276.97	2,587.50	2,880.48	2,878.93	1.55	1,863.252			
400.00	399.45	362.48	362.44	1.23	1.07	42.25	-1,278.66	2,588.29	2,875.40	2,873.11	2.29	1,255.397			
500.00	498.70	475.18	475.14	1.63	1.46	42.55	-1,279.20	2,588.86	2,867.01	2,863.94	3.07	934.232			
600.00	597.47	575.27	575.23	2.05	1.82	42.92	-1,279.88	2,589.09	2,855.97	2,852.15	3.81	748.698			
700.00	695.62	681.51	681.46	2.51	2.18	43.38	-1,279.66	2,589.66	2,842.32	2,837.72	4.59	618.647			
800.00	793.06	774.71	774.67	3.00	2.51	43.90	-1,279.60	2,590.02	2,826.15	2,820.79	5.35	527.990			
900.00	889.64	889.19	889.14	3.54	2.91	44.61	-1,280.42	2,589.94	2,807.60	2,801.38	6.21	451.815			
1,000.00	985.27	1,030.88	1,030.59	4.13	3.42	45.70	-1,286.06	2,584.62	2,784.94	2,777.74	7.20	386.664			
1,100.00	1,079.82	1,134.31	1,133.58	4.77	3.79	46.79	-1,293.30	2,578.22	2,759.71	2,751.61	8.10	340.733			
1,200.00	1,173.17	1,231.31	1,230.15	5.46	4.14	47.95	-1,299.91	2,571.93	2,732.24	2,723.22	9.02	302.921			
1,300.00	1,265.23	1,330.06	1,328.48	6.21	4.51	49.17	-1,306.10	2,565.49	2,702.71	2,692.71	10.00	270.374			
1,400.00	1,356.75	1,418.59	1,416.72	7.00	4.84	49.93	-1,310.83	2,560.01	2,672.66	2,661.70	10.96	243.834			
1,500.00	1,448.28	1,497.98	1,495.72	7.80	5.14	50.64	-1,316.32	2,554.46	2,643.25	2,631.32	11.92	221.703			
1,600.00	1,539.81	1,574.14	1,571.31	8.60	5.44	51.38	-1,323.31	2,548.38	2,614.73	2,601.83	12.90	202.669			
1,700.00	1,631.34	1,630.72	1,627.47	9.41	5.66	51.93	-1,328.75	2,544.10	2,587.43	2,573.60	13.83	187.116			
1,800.00	1,722.86	1,690.00	1,686.27	10.23	5.89	52.53	-1,335.26	2,540.32	2,562.14	2,547.36	14.78	173.322			
1,900.00	1,814.39	1,744.91	1,740.71	11.05	6.11	53.09	-1,341.70	2,537.32	2,538.56	2,522.82	15.74	161.319			
2,000.00	1,905.92	1,822.02	1,817.20	11.87	6.42	53.87	-1,350.72	2,533.55	2,516.23	2,499.43	16.79	149.841			
2,100.00	1,997.45	1,901.52	1,896.11	12.69	6.73	54.68	-1,359.85	2,530.11	2,494.90	2,477.03	17.87	139.599			
2,200.00	2,088.97	2,035.68	2,029.29	13.52	7.27	56.07	-1,374.83	2,524.41	2,474.47	2,455.29	19.19	128.976			
2,300.00	2,180.50	2,155.04	2,147.82	14.35	7.75	57.33	-1,386.71	2,516.94	2,452.43	2,431.97	20.45	119.898			
2,400.00	2,272.03	2,298.47	2,290.26	15.17	8.32	58.89	-1,399.04	2,505.45	2,428.95	2,407.13	21.83	111.284			
2,500.00	2,363.56	2,378.43	2,369.71	16.00	8.64	59.76	-1,405.32	2,499.03	2,406.16	2,383.19	22.97	104.771			
2,600.00	2,455.08	2,461.23	2,451.99	16.83	8.97	60.68	-1,412.03	2,492.56	2,384.44	2,360.31	24.13	98.825			
2,700.00	2,546.61	2,549.79	2,540.02	17.66	9.33	61.67	-1,418.95	2,485.84	2,363.53	2,338.21	25.32	93.337			
2,800.00	2,638.14	2,636.20	2,625.95	18.50	9.67	62.64	-1,425.51	2,479.51	2,343.46	2,316.95	26.52	88.373			
2,900.00	2,729.67	2,724.14	2,713.39	19.33	10.02	63.65	-1,432.18	2,473.05	2,324.24	2,296.51	27.73	83.818			
3,000.00	2,821.19	2,810.06	2,798.85	20.16	10.36	64.63	-1,438.58	2,468.91	2,305.91	2,276.97	28.94	79.674			
3,100.00	2,912.72	2,910.17	2,898.52	20.99	10.75	65.78	-1,445.25	2,460.26	2,288.24	2,258.03	30.21	75.743			
3,200.00	3,004.25	2,971.63	2,959.69	21.83	11.00	66.49	-1,449.66	2,456.19	2,271.77	2,240.42	31.34	72.481			
3,300.00	3,095.78	3,048.84	3,036.45	22.66	11.31	67.42	-1,456.18	2,450.91	2,256.95	2,224.40	32.55	69.347			
3,400.00	3,187.30	3,138.43	3,125.51	23.50	11.67	68.50	-1,463.75	2,444.93	2,243.18	2,209.38	33.80	66.357			
3,500.00	3,278.83	3,229.17	3,215.75	24.33	12.03	69.60	-1,471.15	2,438.90	2,230.20	2,195.13	35.07	63.588			
3,600.00	3,370.36	3,317.37	3,303.46	25.16	12.38	70.68	-1,478.38	2,432.96	2,218.17	2,181.84	36.33	61.049			
3,700.00	3,461.89	3,404.69	3,390.26	26.00	12.73	71.76	-1,485.57	2,426.91	2,207.08	2,169.49	37.60	58.705			
3,800.00	3,553.41	3,485.77	3,470.87	26.83	13.06	72.77	-1,492.36	2,421.39	2,197.15	2,158.32	38.83	56.580			
3,900.00	3,644.94	3,562.04	3,546.73	27.67	13.37	73.72	-1,498.78	2,416.72	2,188.62	2,148.58	40.04	54.655			
4,000.00	3,736.47	3,646.98	3,631.23	28.51	13.70	74.77	-1,505.96	2,412.02	2,181.40	2,140.11	41.29	52.833			
4,100.00	3,828.00	3,728.07	3,711.90	29.34	14.03	75.78	-1,512.96	2,407.61	2,175.37	2,132.86	42.51	51.169			
4,200.00	3,919.52	3,826.65	3,809.96	30.18	14.42	77.01	-1,521.52	2,402.31	2,170.44	2,126.63	43.81	49.540			
4,300.00	4,011.05	3,910.54	3,893.49	31.01	14.75	78.04	-1,528.15	2,398.26	2,166.15	2,121.11	45.03	48.100			
4,400.00	4,102.58	3,999.63	3,982.29	31.85	15.09	79.11	-1,534.80	2,395.50	2,163.16	2,116.89	46.27	46.756			
4,500.00	4,194.11	4,100.56	4,082.93	32.68	15.48	80.31	-1,541.86	2,392.39	2,160.74	2,113.20	47.54	45.451			
4,600.00	4,285.64	4,199.56	4,181.66	33.52	15.85	81.49	-1,548.29	2,389.21	2,158.81	2,110.01	48.80	44.239			
4,700.00	4,377.16	4,298.21	4,280.09	34.36	16.22	82.66	-1,554.16	2,386.25	2,157.43	2,107.38	50.05	43.109			
4,800.00	4,468.69	4,394.73	4,376.44	35.19	16.58	83.79	-1,559.38	2,383.63	2,156.61	2,105.34	51.27	42.060			
4,868.47	4,531.36	4,459.13	4,440.73	35.77	16.82	84.54	-1,562.68	2,381.97	2,156.44	2,104.33	52.10	41.388			
4,900.00	4,560.22	4,488.49	4,470.05	36.03	16.93	84.88	-1,564.15	2,381.25	2,156.47	2,103.99	52.48	41.090			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-1721CH2 - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 100-MWD OWSG														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,651.75	4,583.64	4,565.06	36.87	17.28	85.99	-1,568.72	2,379.03	2,157.06	2,103.38	53.68	40.181		
5,100.00	4,743.27	4,709.09	4,690.39	37.70	17.74	87.42	-1,573.54	2,376.54	2,157.85	2,102.86	54.99	39.239		
5,200.00	4,834.80	4,802.67	4,783.92	38.54	18.07	88.47	-1,576.00	2,375.08	2,158.51	2,102.34	56.16	38.433		
5,300.00	4,926.33	4,937.35	4,918.59	39.38	18.53	89.95	-1,577.32	2,373.77	2,158.55	2,101.09	57.46	37.568		
5,305.62	4,931.47	4,942.34	4,923.58	39.42	18.55	90.01	-1,577.33	2,373.74	2,158.55	2,101.03	57.52	37.526		
5,400.00	5,017.86	5,022.12	5,003.36	40.21	18.81	90.87	-1,577.51	2,373.32	2,158.97	2,100.40	58.57	36.861		
5,500.00	5,109.38	5,102.07	5,083.30	41.05	19.09	91.74	-1,578.14	2,372.82	2,160.62	2,100.97	59.66	36.216		
5,600.00	5,200.91	5,190.58	5,171.81	41.89	19.39	92.70	-1,579.08	2,372.29	2,163.32	2,102.55	60.77	35.601		
5,700.00	5,292.44	5,279.01	5,260.23	42.73	19.70	93.66	-1,580.10	2,371.95	2,166.90	2,105.04	61.86	35.029		
5,800.00	5,383.97	5,364.93	5,346.14	43.56	19.98	94.56	-1,581.06	2,372.67	2,171.43	2,108.50	62.92	34.509		
5,900.00	5,475.51	5,464.10	5,445.29	44.40	20.30	91.93	-1,581.96	2,374.55	2,176.40	2,112.39	64.01	33.999		
6,000.00	5,567.37	5,569.41	5,550.58	45.19	20.63	69.83	-1,582.42	2,376.50	2,170.38	2,105.29	65.09	33.344		
6,100.00	5,657.57	5,666.95	5,648.10	45.89	20.94	51.38	-1,582.55	2,378.01	2,147.53	2,081.46	66.07	32.502		
6,200.00	5,743.38	5,752.00	5,732.87	46.48	21.19	38.72	-1,581.44	2,384.13	2,108.07	2,041.14	66.93	31.498		
6,300.00	5,822.18	5,799.00	5,778.86	46.95	21.32	30.03	-1,580.73	2,393.65	2,054.64	1,987.08	67.55	30.414		
6,400.00	5,891.60	6,027.29	5,977.15	47.31	21.77	21.87	-1,562.70	2,499.78	1,984.08	1,915.55	68.53	28.951		
6,500.00	5,949.50	6,036.00	5,983.18	47.58	21.78	15.64	-1,561.50	2,505.95	1,902.06	1,833.18	68.88	27.614		
6,600.00	5,994.15	6,061.36	6,000.07	47.76	21.82	7.19	-1,558.25	2,524.58	1,812.22	1,743.10	69.12	26.220		
6,700.00	6,024.17	6,069.02	6,004.99	47.86	21.83	-7.94	-1,557.35	2,530.38	1,716.95	1,647.78	69.17	24.822		
6,800.00	6,038.67	6,083.00	6,013.76	47.91	21.85	-56.24	-1,555.83	2,541.16	1,618.65	1,549.55	69.10	23.425		
6,900.00	6,040.00	6,067.45	6,003.99	47.93	21.82	-82.57	-1,557.53	2,529.19	1,519.49	1,450.59	68.89	22.056		
7,000.00	6,040.00	6,063.32	6,001.33	47.98	21.82	-81.76	-1,558.01	2,526.05	1,420.57	1,351.89	68.67	20.687		
7,100.00	6,040.00	6,058.91	5,998.48	48.09	21.81	-80.86	-1,558.54	2,522.74	1,321.77	1,253.35	68.42	19.319		
7,200.00	6,040.00	6,054.22	5,995.40	48.23	21.80	-79.87	-1,559.12	2,519.24	1,223.14	1,155.01	68.14	17.951		
7,300.00	6,040.00	6,049.20	5,992.08	48.43	21.80	-78.78	-1,559.75	2,515.54	1,124.71	1,056.89	67.81	16.585		
7,400.00	6,040.00	6,036.00	5,983.18	48.67	21.78	-75.70	-1,561.50	2,505.95	1,026.58	959.11	67.47	15.215		
7,500.00	6,040.00	6,036.00	5,983.18	48.97	21.78	-75.70	-1,561.50	2,505.95	928.65	861.64	67.01	13.859		
7,600.00	6,040.00	6,036.00	5,983.18	49.32	21.78	-75.70	-1,561.50	2,505.95	831.21	764.78	66.43	12.513		
7,700.00	6,040.00	6,024.30	5,975.04	49.73	21.76	-72.74	-1,563.11	2,497.70	734.31	668.49	65.82	11.157		
7,800.00	6,040.00	6,016.95	5,969.78	50.19	21.75	-70.75	-1,564.14	2,492.67	638.25	573.27	64.98	9.822		
7,900.00	6,040.00	6,009.37	5,964.24	50.71	21.74	-68.63	-1,565.22	2,487.61	543.44	479.58	63.86	8.509		
8,000.00	6,040.00	6,001.57	5,958.42	51.29	21.73	-66.35	-1,566.33	2,482.53	450.67	388.35	62.32	7.232		
8,100.00	6,040.00	5,989.00	5,948.80	51.93	21.71	-62.54	-1,568.15	2,474.65	361.53	301.37	60.15	6.010		
8,200.00	6,040.00	5,984.89	5,945.60	52.63	21.70	-61.27	-1,568.75	2,472.16	279.32	222.32	57.00	4.900		
8,300.00	6,040.00	5,976.21	5,938.71	53.39	21.69	-58.53	-1,569.97	2,467.02	212.48	158.01	54.47	3.901		
8,400.00	6,040.00	5,968.17	5,932.20	54.20	21.67	-55.97	-1,571.06	2,462.43	179.06	120.03	59.04	3.033		
8,416.04	6,040.00	5,966.93	5,931.19	54.34	21.67	-55.58	-1,571.22	2,461.73	178.35	117.74	60.61	2.942 CC, ES		
8,500.00	6,040.00	5,960.70	5,926.05	55.07	21.66	-53.59	-1,572.03	2,458.30	196.97	128.33	68.64	2.870 SF		
8,600.00	6,040.00	5,953.76	5,920.24	55.99	21.65	-51.39	-1,572.91	2,454.60	255.66	182.44	73.22	3.492		
8,700.00	6,040.00	5,942.00	5,910.22	56.97	21.63	-47.72	-1,574.32	2,448.61	334.40	260.49	73.91	4.524		
8,800.00	6,040.00	5,942.00	5,910.22	57.99	21.63	-47.72	-1,574.32	2,448.61	421.97	347.75	74.23	5.685		
8,900.00	6,040.00	5,942.00	5,910.22	59.06	21.63	-47.72	-1,574.32	2,448.61	514.10	439.99	74.11	6.937		
9,000.00	6,040.00	5,930.70	5,900.42	60.17	21.61	-44.30	-1,575.56	2,443.12	608.51	534.98	73.53	8.276		
9,100.00	6,040.00	5,926.27	5,896.55	61.32	21.60	-43.00	-1,576.00	2,441.02	704.45	631.23	73.22	9.621		
9,200.00	6,040.00	5,922.29	5,893.05	62.51	21.59	-41.84	-1,576.38	2,439.15	801.35	728.39	72.95	10.984		
9,300.00	6,040.00	5,918.69	5,889.88	63.73	21.59	-40.82	-1,576.71	2,437.49	898.88	826.16	72.73	12.360		
9,400.00	6,040.00	5,915.43	5,886.99	64.98	21.58	-39.90	-1,577.00	2,436.00	996.88	924.35	72.53	13.744		
9,500.00	6,040.00	5,912.45	5,884.35	66.27	21.58	-39.08	-1,577.25	2,434.66	1,095.22	1,022.85	72.37	15.134		
9,600.00	6,040.00	5,909.73	5,881.92	67.58	21.57	-38.34	-1,577.47	2,433.44	1,193.82	1,121.59	72.23	16.528		
9,700.00	6,040.00	5,907.23	5,879.69	68.92	21.57	-37.66	-1,577.66	2,432.33	1,292.62	1,220.51	72.11	17.926		
9,800.00	6,040.00	5,893.00	5,866.89	70.29	21.54	-34.01	-1,578.63	2,426.19	1,391.73	1,319.90	71.83	19.376		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 100-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-1721CH2 - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.00	6,040.00	5,893.00	5,866.89	71.67	21.54	-34.01	-1,578.63	2,426.19	1,490.77	1,418.99	71.77	20.770		
10,000.00	6,040.00	5,893.00	5,866.89	73.08	21.54	-34.01	-1,578.63	2,426.19	1,589.93	1,518.20	71.73	22.166		
10,100.00	6,040.00	5,893.00	5,866.89	74.51	21.54	-34.01	-1,578.63	2,426.19	1,689.19	1,617.50	71.69	23.563		
10,200.00	6,040.00	5,893.00	5,866.89	75.95	21.54	-34.01	-1,578.63	2,426.19	1,788.53	1,716.88	71.65	24.962		
10,300.00	6,040.00	5,893.00	5,866.89	77.41	21.54	-34.01	-1,578.63	2,426.19	1,887.94	1,816.32	71.62	26.361		
10,400.00	6,040.00	5,893.00	5,866.89	78.89	21.54	-34.01	-1,578.63	2,426.19	1,987.41	1,915.82	71.59	27.761		
10,500.00	6,040.00	5,893.00	5,866.89	80.38	21.54	-34.01	-1,578.63	2,426.19	2,086.93	2,015.36	71.57	29.161		
10,600.00	6,040.00	5,893.00	5,866.89	81.88	21.54	-34.01	-1,578.63	2,426.19	2,186.49	2,114.95	71.55	30.561		
10,700.00	6,040.00	5,893.00	5,866.89	83.40	21.54	-34.01	-1,578.63	2,426.19	2,286.09	2,214.57	71.53	31.961		
10,800.00	6,040.00	5,893.00	5,866.89	84.93	21.54	-34.01	-1,578.63	2,426.19	2,385.73	2,314.22	71.51	33.361		
10,900.00	6,040.00	5,893.00	5,866.89	86.47	21.54	-34.01	-1,578.63	2,426.19	2,485.39	2,413.90	71.50	34.761		
11,000.00	6,040.00	5,893.00	5,866.89	88.02	21.54	-34.01	-1,578.63	2,426.19	2,585.09	2,513.60	71.49	36.161		
11,100.00	6,040.00	5,893.00	5,866.89	89.58	21.54	-34.01	-1,578.63	2,426.19	2,684.80	2,613.32	71.48	37.560		
11,200.00	6,040.00	5,893.00	5,866.89	91.15	21.54	-34.01	-1,578.63	2,426.19	2,784.53	2,713.06	71.47	38.958		
11,300.00	6,040.00	5,893.00	5,866.89	92.73	21.54	-34.01	-1,578.63	2,426.19	2,884.29	2,812.82	71.47	40.356		
11,400.00	6,040.00	5,893.00	5,866.89	94.31	21.54	-34.01	-1,578.63	2,426.19	2,984.06	2,912.59	71.47	41.754		
11,500.00	6,040.00	5,893.00	5,866.89	95.91	21.54	-34.01	-1,578.63	2,426.19	3,083.84	3,012.37	71.47	43.151		
11,600.00	6,040.00	5,893.00	5,866.89	97.51	21.54	-34.01	-1,578.63	2,426.19	3,183.64	3,112.17	71.47	44.547		
11,700.00	6,040.00	5,893.00	5,866.89	99.11	21.54	-34.01	-1,578.63	2,426.19	3,283.45	3,211.98	71.47	45.942		
11,800.00	6,040.00	5,893.00	5,866.89	100.73	21.54	-34.01	-1,578.63	2,426.19	3,383.27	3,311.80	71.47	47.336		
11,900.00	6,040.00	5,893.00	5,866.89	102.35	21.54	-34.01	-1,578.63	2,426.19	3,483.10	3,411.62	71.48	48.729		
12,000.00	6,040.00	5,893.00	5,866.89	103.97	21.54	-34.01	-1,578.63	2,426.19	3,582.94	3,511.46	71.48	50.122		
12,100.00	6,040.00	5,893.00	5,866.89	105.60	21.54	-34.01	-1,578.63	2,426.19	3,682.79	3,611.30	71.49	51.513		
12,200.00	6,040.00	5,893.00	5,866.89	107.24	21.54	-34.01	-1,578.63	2,426.19	3,782.65	3,711.15	71.50	52.904		
12,300.00	6,040.00	5,893.00	5,866.89	108.88	21.54	-34.01	-1,578.63	2,426.19	3,882.51	3,811.00	71.51	54.293		
12,400.00	6,040.00	5,874.81	5,850.30	110.53	21.50	-29.78	-1,579.55	2,418.79	3,982.17	3,910.80	71.36	55.801		
12,500.00	6,040.00	5,874.22	5,849.76	112.18	21.50	-29.66	-1,579.57	2,418.56	4,082.03	4,010.66	71.37	57.194		
12,600.00	6,040.00	5,873.65	5,849.23	113.83	21.50	-29.53	-1,579.59	2,418.34	4,181.90	4,110.52	71.38	58.586		
12,700.00	6,040.00	5,873.10	5,848.73	115.49	21.49	-29.41	-1,579.61	2,418.12	4,281.78	4,210.39	71.39	59.977		
12,800.00	6,040.00	5,872.58	5,848.24	117.16	21.49	-29.30	-1,579.63	2,417.91	4,381.66	4,310.26	71.40	61.366		
12,900.00	6,040.00	5,872.07	5,847.78	118.82	21.49	-29.19	-1,579.65	2,417.71	4,481.55	4,410.13	71.41	62.754		
13,000.00	6,040.00	5,871.57	5,847.32	120.49	21.49	-29.08	-1,579.67	2,417.52	4,581.44	4,510.01	71.43	64.141		
13,100.00	6,040.00	5,871.10	5,846.88	122.16	21.49	-28.98	-1,579.69	2,417.34	4,681.33	4,609.89	71.44	65.527		
13,200.00	6,040.00	5,870.64	5,846.46	123.84	21.49	-28.88	-1,579.71	2,417.16	4,781.23	4,709.78	71.46	66.912		
13,300.00	6,040.00	5,870.19	5,846.05	125.52	21.49	-28.79	-1,579.72	2,416.99	4,881.14	4,809.67	71.47	68.295		
13,400.00	6,040.00	5,869.76	5,845.65	127.20	21.49	-28.70	-1,579.74	2,416.82	4,981.04	4,909.56	71.49	69.676		
13,500.00	6,040.00	5,869.34	5,845.27	128.89	21.49	-28.61	-1,579.75	2,416.66	5,080.96	5,009.45	71.51	71.056		
13,600.00	6,040.00	5,868.94	5,844.89	130.58	21.49	-28.53	-1,579.77	2,416.50	5,180.87	5,109.35	71.52	72.435		
13,700.00	6,040.00	5,868.54	5,844.53	132.27	21.48	-28.44	-1,579.78	2,416.35	5,280.79	5,209.24	71.54	73.813		
13,800.00	6,040.00	5,868.16	5,844.18	133.96	21.48	-28.36	-1,579.79	2,416.20	5,380.71	5,309.14	71.56	75.188		
13,900.00	6,040.00	5,867.79	5,843.84	135.66	21.48	-28.29	-1,579.81	2,416.06	5,480.63	5,409.05	71.58	76.563		
14,000.00	6,040.00	5,867.43	5,843.51	137.35	21.48	-28.21	-1,579.82	2,415.92	5,580.55	5,508.95	71.60	77.936		
14,100.00	6,040.00	5,867.09	5,843.19	139.05	21.48	-28.14	-1,579.83	2,415.79	5,680.48	5,608.86	71.63	79.307		
14,200.00	6,040.00	5,866.75	5,842.87	140.75	21.48	-28.07	-1,579.84	2,415.66	5,780.41	5,708.76	71.65	80.676		
14,300.00	6,040.00	5,866.42	5,842.57	142.46	21.48	-28.00	-1,579.85	2,415.54	5,880.34	5,808.67	71.67	82.045		
14,400.00	6,040.00	5,866.10	5,842.27	144.17	21.48	-27.94	-1,579.86	2,415.41	5,980.28	5,908.58	71.70	83.411		
14,500.00	6,040.00	5,865.79	5,841.99	145.87	21.48	-27.87	-1,579.87	2,415.30	6,080.22	6,008.49	71.72	84.776		
14,600.00	6,040.00	5,846.00	5,823.58	147.58	21.44	-24.10	-1,580.30	2,408.05	6,180.38	6,108.77	71.61	86.308		
14,700.00	6,040.00	5,846.00	5,823.58	149.29	21.44	-24.10	-1,580.30	2,408.05	6,280.32	6,208.68	71.64	87.668		
14,800.00	6,040.00	5,846.00	5,823.58	151.01	21.44	-24.10	-1,580.30	2,408.05	6,380.25	6,308.58	71.67	89.027		
14,900.00	6,040.00	5,846.00	5,823.58	152.72	21.44	-24.10	-1,580.30	2,408.05	6,480.19	6,408.49	71.70	90.385		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft				
Survey Program: 100-MWD OWSG												Offset Well Error:		0.00 usft			
Reference				Offset				Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
15,000.00	6,040.00	5,846.00	5,823.58	154.44	21.44	-24.10	-1,580.30	2,408.05	6,580.13	6,508.40	71.73	91.740					
15,100.00	6,040.00	5,846.00	5,823.58	156.16	21.44	-24.10	-1,580.30	2,408.05	6,680.07	6,608.31	71.76	93.094					
15,200.00	6,040.00	5,846.00	5,823.58	157.88	21.44	-24.10	-1,580.30	2,408.05	6,780.01	6,708.22	71.79	94.446					
15,300.00	6,040.00	5,846.00	5,823.58	159.60	21.44	-24.10	-1,580.30	2,408.05	6,879.95	6,808.14	71.82	95.796					
15,400.00	6,040.00	5,846.00	5,823.58	161.32	21.44	-24.10	-1,580.30	2,408.05	6,979.90	6,908.05	71.85	97.144					
15,500.00	6,040.00	5,846.00	5,823.58	163.04	21.44	-24.10	-1,580.30	2,408.05	7,079.85	7,007.96	71.88	98.491					
15,600.00	6,040.00	5,846.00	5,823.58	164.77	21.44	-24.10	-1,580.30	2,408.05	7,179.80	7,107.88	71.92	99.836					
15,700.00	6,040.00	5,846.00	5,823.58	166.49	21.44	-24.10	-1,580.30	2,408.05	7,279.75	7,207.80	71.95	101.178					
15,800.00	6,040.00	5,846.00	5,823.58	168.22	21.44	-24.10	-1,580.30	2,408.05	7,379.70	7,307.71	71.98	102.519					
15,900.00	6,040.00	5,846.00	5,823.58	169.95	21.44	-24.10	-1,580.30	2,408.05	7,479.65	7,407.63	72.02	103.858					
16,000.00	6,040.00	5,846.00	5,823.58	171.68	21.44	-24.10	-1,580.30	2,408.05	7,579.60	7,507.55	72.05	105.195					
16,100.00	6,040.00	5,846.00	5,823.58	173.41	21.44	-24.10	-1,580.30	2,408.05	7,679.56	7,607.47	72.09	106.530					
16,200.00	6,040.00	5,846.00	5,823.58	175.14	21.44	-24.10	-1,580.30	2,408.05	7,779.52	7,707.39	72.12	107.863					
16,300.00	6,040.00	5,846.00	5,823.58	176.88	21.44	-24.10	-1,580.30	2,408.05	7,879.47	7,807.31	72.16	109.194					
16,400.00	6,040.00	5,846.00	5,823.58	178.61	21.44	-24.10	-1,580.30	2,408.05	7,979.43	7,907.23	72.20	110.523					
16,500.00	6,040.00	5,846.00	5,823.58	180.34	21.44	-24.10	-1,580.30	2,408.05	8,079.39	8,007.16	72.23	111.850					
16,600.00	6,040.00	5,846.00	5,823.58	182.08	21.44	-24.10	-1,580.30	2,408.05	8,179.35	8,107.08	72.27	113.175					
16,700.00	6,040.00	5,846.00	5,823.58	183.82	21.44	-24.10	-1,580.30	2,408.05	8,279.31	8,207.00	72.31	114.498					
16,800.00	6,040.00	5,846.00	5,823.58	185.56	21.44	-24.10	-1,580.30	2,408.05	8,379.28	8,306.93	72.35	115.819					
16,865.66	6,040.00	5,846.00	5,823.58	186.70	21.44	-24.10	-1,580.30	2,408.05	8,444.91	8,372.54	72.37	116.685					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 864-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-3228BH2 - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	116.47	-1,289.15	2,588.47	2,891.73						
100.00	100.00	91.48	91.48	0.13	0.16	116.47	-1,289.11	2,588.49	2,891.73	2,891.44	0.29	9,829.072			
200.00	199.98	190.89	190.89	0.49	0.33	42.14	-1,289.00	2,588.58	2,890.46	2,889.64	0.82	3,507.907			
300.00	299.84	290.19	290.19	0.86	0.51	42.26	-1,288.81	2,588.73	2,886.63	2,885.27	1.36	2,121.247			
400.00	399.45	389.27	389.27	1.23	0.68	42.45	-1,288.54	2,588.94	2,880.25	2,878.34	1.90	1,512.147			
500.00	498.70	488.01	488.01	1.63	0.85	42.73	-1,288.20	2,589.20	2,871.33	2,868.87	2.46	1,168.105			
600.00	597.47	586.30	586.30	2.05	1.02	43.09	-1,287.77	2,589.53	2,859.91	2,856.88	3.02	945.681			
700.00	695.62	684.04	684.03	2.51	1.19	43.52	-1,287.28	2,589.91	2,846.02	2,842.41	3.61	789.140			
800.00	793.06	781.10	781.09	3.00	1.36	44.05	-1,286.71	2,590.35	2,829.71	2,825.50	4.21	672.340			
900.00	889.64	877.38	877.37	3.54	1.53	44.66	-1,286.07	2,590.85	2,811.04	2,806.20	4.83	581.407			
1,000.00	985.27	960.84	960.82	4.13	1.84	45.32	-1,286.18	2,591.17	2,790.30	2,784.66	5.63	495.284			
1,100.00	1,079.82	1,039.41	1,039.37	4.77	2.11	46.07	-1,288.06	2,590.92	2,767.79	2,761.37	6.42	431.125			
1,200.00	1,173.17	1,106.09	1,105.95	5.46	2.34	46.87	-1,291.67	2,590.16	2,743.88	2,736.67	7.21	380.542			
1,300.00	1,265.23	1,171.31	1,170.94	6.21	2.56	47.72	-1,297.05	2,589.09	2,718.94	2,710.89	8.05	337.828			
1,400.00	1,356.75	1,239.09	1,238.34	7.00	2.80	48.30	-1,304.09	2,587.82	2,694.39	2,685.46	8.93	301.816			
1,500.00	1,448.28	1,326.95	1,325.24	7.80	3.13	49.13	-1,316.53	2,584.54	2,670.78	2,660.86	9.92	269.323			
1,600.00	1,539.81	1,448.56	1,444.63	8.60	3.62	50.43	-1,337.98	2,576.02	2,647.04	2,635.95	11.10	238.573			
1,700.00	1,631.34	1,528.19	1,522.66	9.41	3.96	51.30	-1,352.52	2,569.73	2,623.88	2,611.74	12.14	216.151			
1,800.00	1,722.86	1,602.32	1,595.40	10.23	4.28	52.12	-1,365.78	2,564.38	2,601.89	2,588.71	13.18	197.389			
1,900.00	1,814.39	1,684.67	1,676.29	11.05	4.64	53.03	-1,380.22	2,558.90	2,581.00	2,566.72	14.28	180.741			
2,000.00	1,905.92	1,763.23	1,753.53	11.87	4.99	53.89	-1,393.72	2,554.07	2,561.14	2,545.77	15.38	166.555			
2,100.00	1,997.45	1,905.63	1,893.75	12.69	5.63	55.47	-1,416.64	2,544.61	2,541.21	2,524.43	16.78	151.442			
2,200.00	2,088.97	1,986.14	1,973.04	13.52	5.99	56.38	-1,429.22	2,538.62	2,521.43	2,503.51	17.92	140.718			
2,300.00	2,180.50	2,068.10	2,053.81	14.35	6.35	57.30	-1,441.85	2,532.85	2,502.72	2,483.65	19.07	131.204			
2,400.00	2,272.03	2,156.21	2,140.79	15.17	6.74	58.29	-1,454.78	2,527.27	2,484.94	2,464.68	20.27	122.622			
2,500.00	2,363.56	2,250.82	2,234.34	16.00	7.15	59.34	-1,467.84	2,521.76	2,467.89	2,446.40	21.49	114.849			
2,600.00	2,455.08	2,340.36	2,322.97	16.83	7.54	60.34	-1,479.55	2,516.88	2,451.52	2,428.83	22.69	108.034			
2,700.00	2,546.61	2,401.42	2,383.39	17.66	7.81	61.02	-1,487.78	2,513.65	2,436.41	2,412.62	23.78	102.444			
2,800.00	2,638.14	2,462.57	2,443.66	18.50	8.08	61.74	-1,497.45	2,510.05	2,423.25	2,398.37	24.88	97.385			
2,900.00	2,729.67	2,539.00	2,518.95	19.33	8.43	62.65	-1,509.93	2,505.83	2,411.66	2,385.59	26.07	92.515			
3,000.00	2,821.19	2,649.51	2,627.95	20.16	8.93	63.95	-1,527.17	2,500.14	2,400.82	2,373.40	27.42	87.555			
3,100.00	2,912.72	2,745.33	2,722.58	20.99	9.35	65.08	-1,541.41	2,495.14	2,390.46	2,361.75	28.70	83.288			
3,200.00	3,004.25	2,846.98	2,823.18	21.83	9.80	66.25	-1,555.13	2,490.21	2,380.32	2,350.32	30.01	79.325			
3,300.00	3,095.78	2,910.20	2,885.64	22.66	10.08	67.01	-1,564.29	2,486.77	2,371.55	2,340.42	31.14	76.166			
3,400.00	3,187.30	3,000.00	2,985.75	23.50	12.29	68.24	-1,579.57	2,480.42	2,363.73	2,329.59	34.14	69.233			
3,500.00	3,278.83	3,080.42	3,053.66	24.33	10.84	69.07	-1,589.48	2,476.59	2,356.98	2,323.35	33.62	70.100			
3,600.00	3,370.36	3,169.09	3,141.32	25.16	11.23	70.12	-1,602.41	2,473.19	2,352.16	2,317.29	34.87	67.452			
3,700.00	3,461.89	3,274.96	3,246.16	26.00	11.69	71.35	-1,616.62	2,469.19	2,347.49	2,311.29	36.20	64.846			
3,800.00	3,553.41	3,342.18	3,312.62	26.83	11.99	72.16	-1,626.13	2,465.84	2,343.84	2,306.49	37.35	62.761			
3,900.00	3,644.94	3,399.40	3,369.00	27.67	12.25	72.87	-1,635.32	2,462.61	2,342.30	2,303.87	38.43	60.945			
3,929.49	3,671.94	3,421.01	3,390.26	27.92	12.35	73.14	-1,639.00	2,461.33	2,342.23	2,303.45	38.78	60.397			
4,000.00	3,736.47	3,472.50	3,440.86	28.51	12.59	73.79	-1,647.95	2,458.20	2,342.63	2,303.02	39.61	59.145			
4,100.00	3,828.00	3,555.48	3,522.32	29.34	12.99	74.84	-1,662.85	2,452.86	2,344.42	2,303.58	40.84	57.409			
4,200.00	3,919.52	3,652.21	3,617.23	30.18	13.45	76.08	-1,680.28	2,446.13	2,347.23	2,305.09	42.14	55.697			
4,300.00	4,011.05	3,771.69	3,734.72	31.01	14.02	77.59	-1,700.41	2,438.04	2,350.39	2,306.82	43.57	53.947			
4,400.00	4,102.58	3,890.61	3,852.06	31.85	14.56	79.06	-1,718.13	2,430.26	2,353.13	2,308.16	44.97	52.331			
4,500.00	4,194.11	3,965.25	3,925.84	32.68	14.89	79.96	-1,728.68	2,426.20	2,356.79	2,310.69	46.10	51.121			
4,600.00	4,285.64	4,044.82	4,004.47	33.52	15.24	80.91	-1,740.16	2,422.13	2,361.83	2,314.58	47.25	49.981			
4,700.00	4,377.16	4,133.31	4,091.87	34.36	15.64	81.97	-1,753.14	2,417.47	2,368.05	2,319.60	48.45	48.880			
4,800.00	4,468.69	4,238.84	4,196.22	35.19	16.11	83.22	-1,768.00	2,412.33	2,374.93	2,325.21	49.72	47.765			
4,900.00	4,560.22	4,358.57	4,314.85	36.03	16.62	84.60	-1,783.30	2,406.97	2,381.83	2,330.78	51.05	46.653			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 864-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-3228BH2 - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,651.75	4,469.05	4,424.53	36.87	17.08	85.85	-1,795.82	2,402.72	2,388.62	2,336.30	52.32	45.658			
5,100.00	4,743.27	4,572.65	4,527.51	37.70	17.50	87.00	-1,806.58	2,399.16	2,395.63	2,342.10	53.53	44.757			
5,200.00	4,834.80	4,668.76	4,623.12	38.54	17.88	88.04	-1,815.93	2,396.22	2,403.03	2,348.34	54.69	43.942			
5,300.00	4,926.33	4,771.18	4,725.06	39.38	18.28	89.14	-1,825.50	2,393.76	2,411.13	2,355.27	55.86	43.161			
5,400.00	5,017.86	4,880.11	4,833.60	40.21	18.70	90.27	-1,834.46	2,391.78	2,419.14	2,362.08	57.06	42.399			
5,500.00	5,109.38	4,979.07	4,932.27	41.05	19.07	91.29	-1,842.01	2,390.40	2,427.53	2,369.34	58.19	41.717			
5,600.00	5,200.91	5,087.26	5,040.15	41.89	19.47	92.40	-1,849.78	2,388.43	2,436.21	2,376.85	59.36	41.043			
5,700.00	5,292.44	5,333.19	5,285.78	42.73	20.30	94.91	-1,858.06	2,381.05	2,441.51	2,380.51	61.00	40.023			
5,800.00	5,383.97	5,454.85	5,407.40	43.56	20.84	96.01	-1,856.55	2,383.09	2,444.64	2,382.52	62.12	39.354			
5,900.00	5,475.51	5,544.51	5,496.99	44.40	20.88	93.14	-1,854.91	2,386.07	2,447.91	2,384.77	63.14	38.769			
6,000.00	5,567.37	5,635.44	5,587.87	45.19	21.12	70.77	-1,853.39	2,388.97	2,440.59	2,376.45	64.14	38.051			
6,100.00	5,657.57	5,687.20	5,639.47	45.89	21.26	51.77	-1,852.53	2,392.84	2,417.27	2,352.30	64.97	37.205			
6,200.00	5,743.38	5,725.05	5,676.81	46.48	21.35	38.62	-1,852.40	2,398.96	2,379.69	2,314.02	65.66	36.241			
6,300.00	5,822.18	5,770.19	5,720.69	46.95	21.47	29.87	-1,852.72	2,409.52	2,328.38	2,262.11	66.27	35.134			
6,400.00	5,891.60	5,815.91	5,764.32	47.31	21.57	23.62	-1,853.42	2,423.14	2,264.22	2,197.44	66.78	33.906			
6,500.00	5,949.50	5,856.00	5,801.63	47.58	21.66	18.46	-1,854.15	2,437.75	2,188.57	2,121.40	67.17	32.585			
6,600.00	5,994.15	5,879.59	5,822.88	47.76	21.71	13.09	-1,854.67	2,447.97	2,103.51	2,036.12	67.38	31.217			
6,700.00	6,024.17	5,904.00	5,843.97	47.86	21.76	4.71	-1,855.37	2,460.23	2,011.34	1,943.83	67.51	29.792			
6,800.00	6,038.67	5,904.00	5,843.97	47.91	21.76	-15.52	-1,855.37	2,460.23	1,914.27	1,846.81	67.46	28.377			
6,900.00	6,040.00	5,904.00	5,843.97	47.93	21.76	-36.45	-1,855.37	2,460.23	1,815.18	1,747.84	67.35	26.953			
7,000.00	6,040.00	5,904.00	5,843.97	47.98	21.76	-36.45	-1,855.37	2,460.23	1,716.06	1,648.85	67.21	25.531			
7,100.00	6,040.00	5,904.00	5,843.97	48.09	21.76	-36.45	-1,855.37	2,460.23	1,617.05	1,549.99	67.06	24.112			
7,200.00	6,040.00	5,904.00	5,843.97	48.23	21.76	-36.45	-1,855.37	2,460.23	1,518.17	1,451.28	66.89	22.695			
7,300.00	6,040.00	5,914.76	5,852.94	48.43	21.78	-38.96	-1,855.72	2,466.16	1,419.37	1,352.63	66.73	21.270			
7,400.00	6,040.00	5,917.09	5,854.85	48.67	21.78	-39.52	-1,855.80	2,467.49	1,320.79	1,254.28	66.51	19.859			
7,500.00	6,040.00	5,919.48	5,856.81	48.97	21.78	-40.09	-1,855.88	2,468.86	1,222.43	1,156.19	66.24	18.454			
7,600.00	6,040.00	5,921.92	5,858.79	49.32	21.79	-40.68	-1,855.96	2,470.28	1,124.35	1,058.43	65.92	17.056			
7,700.00	6,040.00	5,924.41	5,860.81	49.73	21.79	-41.29	-1,856.05	2,471.75	1,026.63	961.10	65.53	15.666			
7,800.00	6,040.00	5,926.97	5,862.85	50.19	21.80	-41.92	-1,856.14	2,473.26	929.38	864.33	65.05	14.288			
7,900.00	6,040.00	5,929.58	5,864.94	50.71	21.80	-42.57	-1,856.23	2,474.83	832.77	768.33	64.44	12.923			
8,000.00	6,040.00	5,932.25	5,867.06	51.29	21.81	-43.23	-1,856.33	2,476.46	737.05	673.39	63.66	11.577			
8,100.00	6,040.00	5,934.98	5,869.21	51.93	21.81	-43.92	-1,856.43	2,478.14	642.61	579.96	62.64	10.258			
8,200.00	6,040.00	5,937.77	5,871.39	52.63	21.82	-44.62	-1,856.53	2,479.88	550.11	488.83	61.27	8.978			
8,300.00	6,040.00	5,940.63	5,873.61	53.39	21.82	-45.34	-1,856.64	2,481.68	460.72	401.29	59.42	7.753			
8,400.00	6,040.00	5,943.56	5,875.86	54.20	21.83	-46.08	-1,856.75	2,483.54	376.67	319.65	57.01	6.607			
8,500.00	6,040.00	5,952.00	5,882.26	55.07	21.84	-48.23	-1,857.08	2,489.04	302.51	247.84	54.67	5.533			
8,600.00	6,040.00	5,952.00	5,882.26	55.99	21.84	-48.23	-1,857.08	2,489.04	247.02	192.13	54.89	4.500			
8,700.00	6,040.00	5,953.14	5,883.12	56.97	21.84	-48.52	-1,857.12	2,489.79	224.78	163.37	61.41	3.660			
8,702.53	6,040.00	5,953.26	5,883.21	56.99	21.84	-48.55	-1,857.13	2,489.87	224.77	163.13	61.64	3.646 CC, ES			
8,800.00	6,040.00	5,957.86	5,886.64	57.99	21.85	-49.72	-1,857.30	2,492.92	244.94	175.00	69.94	3.502 SF			
8,900.00	6,040.00	5,962.48	5,890.09	59.06	21.85	-50.89	-1,857.48	2,496.00	299.02	224.56	74.46	4.016			
9,000.00	6,040.00	5,967.02	5,893.46	60.17	21.86	-52.04	-1,857.65	2,499.03	372.54	296.64	75.90	4.908			
9,100.00	6,040.00	5,971.47	5,896.76	61.32	21.87	-53.17	-1,857.82	2,502.01	456.19	380.10	76.09	5.995			
9,200.00	6,040.00	5,975.84	5,899.99	62.51	21.87	-54.27	-1,857.98	2,504.95	545.33	469.45	75.87	7.187			
9,300.00	6,040.00	5,980.13	5,903.15	63.73	21.88	-55.35	-1,858.13	2,507.84	637.66	562.11	75.55	8.440			
9,400.00	6,040.00	5,984.34	5,906.25	64.98	21.88	-56.40	-1,858.28	2,510.69	731.98	656.75	75.23	9.730			
9,500.00	6,040.00	5,988.48	5,909.28	66.27	21.89	-57.42	-1,858.43	2,513.50	827.61	752.67	74.94	11.044			
9,600.00	6,040.00	5,992.54	5,912.26	67.58	21.89	-58.42	-1,858.57	2,516.26	924.14	849.46	74.68	12.374			
9,700.00	6,040.00	5,996.53	5,915.17	68.92	21.90	-59.40	-1,858.70	2,518.99	1,021.32	946.86	74.47	13.715			
9,800.00	6,040.00	5,999.00	5,916.97	70.29	21.90	-60.00	-1,858.78	2,520.68	1,118.98	1,044.74	74.25	15.072			
9,900.00	6,040.00	6,004.04	5,920.64	71.67	21.91	-61.21	-1,858.95	2,524.14	1,217.01	1,142.89	74.12	16.419			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 864-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
10,000.00	6,040.00	6,007.55	5,923.19	73.08	21.91	-62.05	-1,859.06	2,526.54	1,315.32	1,241.33	73.98	17.778						
10,100.00	6,040.00	6,010.91	5,925.63	74.51	21.92	-62.85	-1,859.16	2,528.85	1,413.85	1,339.98	73.87	19.141						
10,200.00	6,040.00	6,014.15	5,927.99	75.95	21.92	-63.61	-1,859.26	2,531.06	1,512.57	1,438.80	73.76	20.505						
10,300.00	6,040.00	6,017.26	5,930.25	77.41	21.92	-64.33	-1,859.35	2,533.20	1,611.43	1,537.76	73.68	21.872						
10,400.00	6,040.00	6,020.26	5,932.43	78.89	21.93	-65.03	-1,859.43	2,535.26	1,710.42	1,636.82	73.60	23.240						
10,500.00	6,040.00	6,023.14	5,934.52	80.38	21.93	-65.69	-1,859.51	2,537.24	1,809.52	1,735.98	73.53	24.608						
10,600.00	6,040.00	6,025.93	5,936.55	81.88	21.93	-66.32	-1,859.58	2,539.15	1,908.70	1,835.22	73.48	25.977						
10,700.00	6,040.00	6,028.61	5,938.50	83.40	21.93	-66.93	-1,859.65	2,541.00	2,007.96	1,934.53	73.43	27.346						
10,800.00	6,040.00	6,031.21	5,940.38	84.93	21.94	-67.51	-1,859.72	2,542.78	2,107.28	2,033.89	73.39	28.715						
10,900.00	6,040.00	6,033.71	5,942.20	86.47	21.94	-68.07	-1,859.78	2,544.50	2,206.66	2,133.31	73.35	30.084						
11,000.00	6,040.00	6,036.13	5,943.96	88.02	21.94	-68.60	-1,859.83	2,546.16	2,306.09	2,232.77	73.32	31.453						
11,100.00	6,040.00	6,038.47	5,945.66	89.58	21.95	-69.11	-1,859.89	2,547.77	2,405.56	2,332.27	73.29	32.821						
11,200.00	6,040.00	6,046.00	5,951.12	91.15	21.96	-70.74	-1,860.05	2,552.95	2,505.08	2,431.71	73.36	34.145						
11,300.00	6,040.00	6,046.00	5,951.12	92.73	21.96	-70.74	-1,860.05	2,552.95	2,604.62	2,531.31	73.31	35.530						
11,400.00	6,040.00	6,046.00	5,951.12	94.31	21.96	-70.74	-1,860.05	2,552.95	2,704.19	2,630.93	73.25	36.915						
11,500.00	6,040.00	6,046.00	5,951.12	95.91	21.96	-70.74	-1,860.05	2,552.95	2,803.79	2,730.58	73.21	38.299						
11,600.00	6,040.00	6,046.00	5,951.12	97.51	21.96	-70.74	-1,860.05	2,552.95	2,903.42	2,830.26	73.17	39.683						
11,700.00	6,040.00	6,046.00	5,951.12	99.11	21.96	-70.74	-1,860.05	2,552.95	3,003.08	2,929.95	73.13	41.066						
11,800.00	6,040.00	6,046.00	5,951.12	100.73	21.96	-70.74	-1,860.05	2,552.95	3,102.75	3,029.66	73.09	42.449						
11,900.00	6,040.00	6,046.00	5,951.12	102.35	21.96	-70.74	-1,860.05	2,552.95	3,202.45	3,129.39	73.06	43.831						
12,000.00	6,040.00	6,046.00	5,951.12	103.97	21.96	-70.74	-1,860.05	2,552.95	3,302.17	3,229.13	73.04	45.212						
12,100.00	6,040.00	6,046.00	5,951.12	105.60	21.96	-70.74	-1,860.05	2,552.95	3,401.90	3,328.89	73.01	46.593						
12,200.00	6,040.00	6,046.00	5,951.12	107.24	21.96	-70.74	-1,860.05	2,552.95	3,501.65	3,428.65	72.99	47.973						
12,300.00	6,040.00	6,046.00	5,951.12	108.88	21.96	-70.74	-1,860.05	2,552.95	3,601.41	3,528.43	72.97	49.352						
12,400.00	6,040.00	6,046.00	5,951.12	110.53	21.96	-70.74	-1,860.05	2,552.95	3,701.18	3,628.22	72.96	50.730						
12,500.00	6,040.00	6,046.00	5,951.12	112.18	21.96	-70.74	-1,860.05	2,552.95	3,800.97	3,728.02	72.94	52.107						
12,600.00	6,040.00	6,046.00	5,951.12	113.83	21.96	-70.74	-1,860.05	2,552.95	3,900.76	3,827.83	72.93	53.484						
12,700.00	6,040.00	6,046.00	5,951.12	115.49	21.96	-70.74	-1,860.05	2,552.95	4,000.57	3,927.65	72.92	54.859						
12,800.00	6,040.00	6,061.07	5,961.84	117.16	21.97	-73.83	-1,860.30	2,563.54	4,100.30	4,027.13	73.16	56.043						
12,900.00	6,040.00	6,061.98	5,962.48	118.82	21.97	-74.01	-1,860.31	2,564.19	4,200.11	4,126.94	73.17	57.401						
13,000.00	6,040.00	6,062.87	5,963.09	120.49	21.97	-74.19	-1,860.33	2,564.83	4,299.94	4,226.75	73.18	58.758						
13,100.00	6,040.00	6,063.74	5,963.69	122.16	21.97	-74.36	-1,860.34	2,565.45	4,399.77	4,326.57	73.19	60.113						
13,200.00	6,040.00	6,064.58	5,964.28	123.84	21.97	-74.52	-1,860.35	2,566.06	4,499.60	4,426.40	73.20	61.467						
13,300.00	6,040.00	6,065.41	5,964.85	125.52	21.97	-74.68	-1,860.36	2,566.66	4,599.45	4,526.23	73.22	62.820						
13,400.00	6,040.00	6,066.21	5,965.40	127.20	21.98	-74.84	-1,860.36	2,567.24	4,699.30	4,626.07	73.23	64.171						
13,500.00	6,040.00	6,067.00	5,965.94	128.89	21.98	-74.99	-1,860.37	2,567.81	4,799.15	4,725.91	73.25	65.521						
13,600.00	6,040.00	6,067.77	5,966.47	130.58	21.98	-75.13	-1,860.38	2,568.37	4,899.01	4,825.75	73.26	66.870						
13,700.00	6,040.00	6,068.52	5,966.98	132.27	21.98	-75.28	-1,860.39	2,568.92	4,998.88	4,925.60	73.28	68.217						
13,800.00	6,040.00	6,069.25	5,967.48	133.96	21.98	-75.41	-1,860.40	2,569.45	5,098.75	5,025.46	73.30	69.563						
13,900.00	6,040.00	6,069.97	5,967.97	135.66	21.98	-75.55	-1,860.40	2,569.98	5,198.63	5,125.31	73.32	70.907						
14,000.00	6,040.00	6,070.67	5,968.45	137.35	21.98	-75.68	-1,860.41	2,570.49	5,298.51	5,225.17	73.34	72.250						
14,100.00	6,040.00	6,071.35	5,968.91	139.05	21.98	-75.81	-1,860.42	2,571.00	5,398.39	5,325.04	73.36	73.591						
14,200.00	6,040.00	6,072.02	5,969.37	140.75	21.98	-75.93	-1,860.42	2,571.49	5,498.28	5,424.90	73.38	74.931						
14,300.00	6,040.00	6,072.68	5,969.81	142.46	21.98	-76.06	-1,860.43	2,571.97	5,598.17	5,524.77	73.40	76.270						
14,400.00	6,040.00	6,073.32	5,970.24	144.17	21.98	-76.17	-1,860.43	2,572.45	5,698.07	5,624.65	73.42	77.607						
14,500.00	6,040.00	6,073.95	5,970.67	145.87	21.98	-76.29	-1,860.44	2,572.91	5,797.97	5,724.52	73.45	78.942						
14,600.00	6,040.00	6,074.57	5,971.08	147.58	21.98	-76.40	-1,860.44	2,573.37	5,897.87	5,824.40	73.47	80.276						
14,700.00	6,040.00	6,075.17	5,971.49	149.29	21.98	-76.51	-1,860.44	2,573.82	5,997.77	5,924.28	73.50	81.608						
14,800.00	6,040.00	6,075.76	5,971.88	151.01	21.99	-76.62	-1,860.45	2,574.26	6,097.68	6,024.16	73.52	82.938						
14,900.00	6,040.00	6,093.00	5,983.12	152.72	22.00	-79.58	-1,860.49	2,587.32	6,197.69	6,123.88	73.81	83.968						
15,000.00	6,040.00	6,093.00	5,983.12	154.44	22.00	-79.58	-1,860.49	2,587.32	6,297.59	6,223.77	73.83	85.302						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 864-MWD OWSG												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,093.00	5,983.12	156.16	22.00	-79.58	-1,860.49	2,587.32	6,397.50	6,323.66	73.85	86.634		
15,200.00	6,040.00	6,093.00	5,983.12	157.88	22.00	-79.58	-1,860.49	2,587.32	6,497.41	6,423.55	73.86	87.965		
15,300.00	6,040.00	6,093.00	5,983.12	159.60	22.00	-79.58	-1,860.49	2,587.32	6,597.33	6,523.45	73.88	89.293		
15,400.00	6,040.00	6,093.00	5,983.12	161.32	22.00	-79.58	-1,860.49	2,587.32	6,697.25	6,623.34	73.90	90.621		
15,500.00	6,040.00	6,093.00	5,983.12	163.04	22.00	-79.58	-1,860.49	2,587.32	6,797.17	6,723.24	73.93	91.946		
15,600.00	6,040.00	6,093.00	5,983.12	164.77	22.00	-79.58	-1,860.49	2,587.32	6,897.09	6,823.14	73.95	93.270		
15,700.00	6,040.00	6,093.00	5,983.12	166.49	22.00	-79.58	-1,860.49	2,587.32	6,997.01	6,923.04	73.97	94.593		
15,800.00	6,040.00	6,093.00	5,983.12	168.22	22.00	-79.58	-1,860.49	2,587.32	7,096.94	7,022.95	73.99	95.913		
15,900.00	6,040.00	6,093.00	5,983.12	169.95	22.00	-79.58	-1,860.49	2,587.32	7,196.87	7,122.85	74.02	97.232		
16,000.00	6,040.00	6,093.00	5,983.12	171.68	22.00	-79.58	-1,860.49	2,587.32	7,296.80	7,222.75	74.04	98.549		
16,100.00	6,040.00	6,093.00	5,983.12	173.41	22.00	-79.58	-1,860.49	2,587.32	7,396.73	7,322.66	74.07	99.864		
16,200.00	6,040.00	6,093.00	5,983.12	175.14	22.00	-79.58	-1,860.49	2,587.32	7,496.66	7,422.57	74.09	101.177		
16,300.00	6,040.00	6,093.00	5,983.12	176.88	22.00	-79.58	-1,860.49	2,587.32	7,596.60	7,522.48	74.12	102.489		
16,400.00	6,040.00	6,093.00	5,983.12	178.61	22.00	-79.58	-1,860.49	2,587.32	7,696.54	7,622.39	74.15	103.799		
16,500.00	6,040.00	6,093.00	5,983.12	180.34	22.00	-79.58	-1,860.49	2,587.32	7,796.48	7,722.30	74.18	105.107		
16,600.00	6,040.00	6,093.00	5,983.12	182.08	22.00	-79.58	-1,860.49	2,587.32	7,896.42	7,822.21	74.21	106.413		
16,700.00	6,040.00	6,093.00	5,983.12	183.82	22.00	-79.58	-1,860.49	2,587.32	7,996.36	7,922.12	74.23	107.717		
16,800.00	6,040.00	6,093.00	5,983.12	185.56	22.00	-79.58	-1,860.49	2,587.32	8,096.30	8,022.04	74.26	109.019		
16,865.66	6,040.00	6,093.00	5,983.12	186.70	22.00	-79.58	-1,860.49	2,587.32	8,161.92	8,087.64	74.28	109.873		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 100-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	116.74	-1,304.45	2,589.30	2,899.34						
100.00	100.00	124.21	124.20	0.13	0.23	116.75	-1,304.46	2,588.27	2,898.58	2,898.22	0.36	7,957.278			
200.00	199.98	208.05	208.03	0.49	0.53	42.44	-1,304.78	2,587.32	2,896.46	2,895.44	1.02	2,843.837			
300.00	299.84	290.79	290.78	0.86	0.82	42.57	-1,305.35	2,586.79	2,892.34	2,890.66	1.68	1,726.434			
400.00	399.45	377.00	376.99	1.23	1.12	42.76	-1,305.91	2,586.78	2,886.19	2,883.85	2.35	1,230.665			
500.00	498.70	494.19	494.17	1.63	1.52	43.07	-1,305.86	2,587.21	2,877.57	2,874.44	3.13	919.905			
600.00	597.47	624.50	624.48	2.05	1.97	43.51	-1,304.73	2,586.55	2,865.22	2,861.24	3.98	720.584			
700.00	695.62	700.00	699.97	2.51	2.24	43.92	-1,304.64	2,585.77	2,850.37	2,845.72	4.65	612.614			
800.00	793.06	776.06	776.02	3.00	2.51	44.40	-1,305.04	2,585.53	2,833.99	2,828.63	5.35	529.428			
900.00	889.64	892.86	892.83	3.54	2.92	45.12	-1,305.48	2,585.24	2,815.26	2,809.03	6.22	452.314			
1,000.00	985.27	954.59	954.54	4.13	3.14	45.72	-1,306.67	2,584.90	2,794.62	2,787.69	6.93	403.090			
1,100.00	1,079.82	1,030.34	1,030.23	4.77	3.41	46.48	-1,309.73	2,584.22	2,772.58	2,764.85	7.73	358.733			
1,200.00	1,173.17	1,098.07	1,097.80	5.46	3.65	47.30	-1,314.19	2,583.16	2,749.14	2,740.60	8.54	321.905			
1,300.00	1,265.23	1,150.00	1,149.46	6.21	3.84	48.05	-1,319.26	2,581.97	2,724.78	2,715.44	9.34	291.610			
1,400.00	1,356.75	1,211.42	1,210.36	7.00	4.07	48.61	-1,327.10	2,580.30	2,701.14	2,690.92	10.22	264.374			
1,500.00	1,448.28	1,268.56	1,266.76	7.80	4.29	49.16	-1,336.10	2,578.63	2,679.28	2,668.18	11.10	241.373			
1,600.00	1,539.81	1,333.00	1,330.06	8.60	4.55	49.82	-1,347.94	2,576.37	2,658.99	2,646.95	12.04	220.881			
1,700.00	1,631.34	1,403.24	1,398.81	9.41	4.84	50.57	-1,362.04	2,573.72	2,640.15	2,627.12	13.03	202.610			
1,800.00	1,722.86	1,480.91	1,474.79	10.23	5.18	51.40	-1,377.93	2,571.00	2,622.55	2,608.47	14.08	186.310			
1,900.00	1,814.39	1,566.37	1,558.54	11.05	5.55	52.32	-1,394.82	2,568.64	2,605.98	2,590.81	15.18	171.711			
2,000.00	1,905.92	1,649.26	1,639.91	11.87	5.92	53.19	-1,410.49	2,566.85	2,590.25	2,573.97	16.28	159.102			
2,100.00	1,997.45	1,728.69	1,717.61	12.69	6.28	54.07	-1,426.82	2,564.46	2,575.69	2,558.30	17.39	148.121			
2,200.00	2,088.97	1,814.37	1,801.31	13.52	6.67	55.04	-1,444.89	2,561.50	2,562.07	2,543.52	18.55	138.117			
2,300.00	2,180.50	1,887.21	1,872.25	14.35	7.02	55.88	-1,461.15	2,558.53	2,549.70	2,530.04	19.66	129.663			
2,400.00	2,272.03	1,977.97	1,960.42	15.17	7.47	56.96	-1,482.21	2,554.24	2,538.48	2,517.59	20.89	121.494			
2,500.00	2,363.56	2,067.08	2,046.97	16.00	7.91	58.03	-1,502.91	2,549.76	2,528.16	2,506.03	22.13	114.246			
2,600.00	2,455.08	2,155.15	2,132.57	16.83	8.35	59.09	-1,523.18	2,545.32	2,518.79	2,495.43	23.37	107.788			
2,700.00	2,546.61	2,244.36	2,219.31	17.66	8.81	60.17	-1,543.52	2,540.81	2,510.40	2,485.77	24.62	101.958			
2,800.00	2,638.14	2,315.87	2,288.78	18.50	9.17	61.05	-1,560.05	2,537.01	2,503.18	2,477.39	25.79	97.078			
2,900.00	2,729.67	2,385.88	2,356.55	19.33	9.54	61.92	-1,577.15	2,533.02	2,497.69	2,470.74	26.95	92.688			
3,000.00	2,821.19	2,466.15	2,434.14	20.16	9.97	62.94	-1,597.16	2,528.30	2,493.63	2,465.45	28.18	88.496			
3,100.00	2,912.72	2,548.11	2,513.31	20.99	10.41	63.98	-1,617.79	2,523.34	2,490.85	2,461.43	29.42	84.657			
3,200.00	3,004.25	2,624.99	2,587.51	21.83	10.82	64.96	-1,637.36	2,518.62	2,489.44	2,458.80	30.64	81.252			
3,247.52	3,047.74	2,661.51	2,622.73	22.22	11.02	65.43	-1,646.73	2,516.38	2,489.28	2,458.06	31.22	79.744			
3,300.00	3,095.78	2,701.99	2,661.77	22.66	11.25	65.94	-1,657.17	2,513.91	2,489.47	2,457.62	31.85	78.152			
3,400.00	3,187.30	2,786.25	2,742.97	23.50	11.71	67.03	-1,679.04	2,508.74	2,490.89	2,457.78	33.12	75.218			
3,500.00	3,278.83	2,877.02	2,830.48	24.33	12.22	68.19	-1,702.45	2,502.97	2,493.34	2,458.93	34.42	72.443			
3,600.00	3,370.36	2,968.70	2,918.91	25.16	12.72	69.36	-1,725.89	2,496.97	2,496.79	2,461.07	35.72	69.893			
3,700.00	3,461.89	3,062.44	3,009.42	26.00	13.24	70.56	-1,749.50	2,490.67	2,501.13	2,464.09	37.04	67.533			
3,800.00	3,553.41	3,151.63	3,095.65	26.83	13.73	71.69	-1,771.51	2,484.82	2,506.39	2,468.08	38.31	65.424			
3,900.00	3,644.94	3,235.22	3,176.45	27.67	14.20	72.75	-1,792.16	2,479.16	2,512.80	2,473.26	39.54	63.552			
4,000.00	3,736.47	3,322.65	3,260.96	28.51	14.68	73.85	-1,813.72	2,473.13	2,520.33	2,479.55	40.79	61.793			
4,100.00	3,828.00	3,399.21	3,334.93	29.34	15.10	74.81	-1,832.72	2,467.72	2,529.12	2,487.17	41.95	60.286			
4,200.00	3,919.52	3,472.87	3,406.01	30.18	15.52	75.74	-1,851.30	2,462.35	2,539.34	2,496.26	43.09	58.935			
4,300.00	4,011.05	3,549.13	3,479.49	31.01	15.95	76.71	-1,870.88	2,456.63	2,551.04	2,506.81	44.23	57.675			
4,400.00	4,102.58	3,626.21	3,553.67	31.85	16.39	77.68	-1,890.90	2,450.64	2,564.10	2,518.73	45.37	56.517			
4,500.00	4,194.11	3,708.57	3,633.02	32.68	16.86	78.70	-1,912.24	2,444.93	2,578.52	2,531.99	46.53	55.417			
4,600.00	4,285.64	3,831.29	3,751.87	33.52	17.54	80.15	-1,942.11	2,438.43	2,593.27	2,545.31	47.96	54.073			
4,700.00	4,377.16	3,943.09	3,860.55	34.36	18.13	81.44	-1,967.75	2,432.89	2,608.03	2,558.74	49.29	52.914			
4,800.00	4,468.69	4,032.03	3,947.16	35.19	18.60	82.45	-1,987.48	2,428.51	2,623.18	2,572.73	50.45	52.000			
4,900.00	4,560.22	4,108.85	4,021.97	36.03	19.01	83.32	-2,004.57	2,425.00	2,639.45	2,587.94	51.51	51.244			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 100-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
5,000.00	4,651.75	4,186.57	4,097.59	36.87	19.42	84.18	-2,022.14	2,421.50	2,656.98	2,604.42	52.56	50.549						
5,100.00	4,743.27	4,282.13	4,190.59	37.70	19.93	85.24	-2,043.72	2,417.11	2,675.41	2,621.67	53.73	49.790						
5,200.00	4,834.80	4,394.93	4,300.57	38.54	20.52	86.46	-2,068.22	2,411.91	2,694.00	2,638.99	55.01	48.970						
5,300.00	4,926.33	4,495.93	4,399.24	39.38	21.04	87.54	-2,089.35	2,407.52	2,712.87	2,656.67	56.20	48.275						
5,400.00	5,017.86	4,683.23	4,582.96	40.21	21.95	89.47	-2,124.90	2,399.82	2,731.25	2,673.34	57.92	47.158						
5,500.00	5,109.38	5,206.58	5,103.53	41.05	23.82	94.11	-2,167.63	2,398.58	2,742.05	2,681.29	60.76	45.128						
5,600.00	5,200.91	5,292.35	5,189.29	41.89	24.04	94.82	-2,167.60	2,398.83	2,745.50	2,683.73	61.77	44.447						
5,700.00	5,292.44	5,408.69	5,305.63	42.73	24.33	95.79	-2,167.26	2,399.13	2,749.30	2,686.46	62.84	43.748						
5,800.00	5,383.97	5,483.21	5,380.15	43.56	24.51	96.40	-2,166.90	2,399.55	2,753.53	2,689.71	63.82	43.146						
5,900.00	5,475.51	5,562.12	5,459.06	44.40	24.71	93.41	-2,166.82	2,400.53	2,758.54	2,693.73	64.80	42.568						
6,000.00	5,567.37	5,639.35	5,536.28	45.19	24.92	70.90	-2,167.11	2,401.60	2,753.28	2,687.51	65.76	41.868						
6,100.00	5,657.57	6,597.43	6,178.24	45.89	25.54	45.78	-2,005.39	2,886.21	2,722.29	2,653.80	68.49	39.745						
6,200.00	5,743.38	6,609.00	6,177.87	46.48	25.53	30.96	-2,002.07	2,897.28	2,663.34	2,593.82	69.52	38.312						
6,300.00	5,822.18	6,609.00	6,177.87	46.95	25.53	20.23	-2,002.07	2,897.28	2,593.60	2,523.34	70.26	36.916						
6,400.00	5,891.60	6,609.00	6,177.87	47.31	25.53	10.94	-2,002.07	2,897.28	2,514.42	2,443.63	70.79	35.520						
6,500.00	5,949.50	6,609.00	6,177.87	47.58	25.53	0.50	-2,002.07	2,897.28	2,427.42	2,356.30	71.11	34.134						
6,600.00	5,994.15	6,609.00	6,177.87	47.76	25.53	-15.69	-2,002.07	2,897.28	2,334.51	2,263.27	71.23	32.772						
6,700.00	6,024.17	6,609.00	6,177.87	47.86	25.53	-47.47	-2,002.07	2,897.28	2,237.96	2,166.80	71.16	31.451						
6,800.00	6,038.67	6,609.00	6,177.87	47.91	25.53	-91.26	-2,002.07	2,897.28	2,140.42	2,069.53	70.88	30.196						
6,900.00	6,040.00	6,587.15	6,178.44	47.93	25.55	-104.88	-2,008.38	2,876.37	2,044.11	1,973.72	70.38	29.043						
7,000.00	6,040.00	6,568.32	6,178.50	47.98	25.57	-105.36	-2,013.93	2,858.38	1,948.15	1,878.28	69.87	27.882						
7,100.00	6,040.00	6,548.70	6,178.13	48.09	25.58	-105.86	-2,019.83	2,839.67	1,852.33	1,782.98	69.35	26.710						
7,200.00	6,040.00	6,528.27	6,177.29	48.23	25.61	-106.37	-2,026.08	2,820.24	1,756.66	1,687.85	68.82	25.527						
7,300.00	6,040.00	6,507.00	6,175.92	48.43	25.63	-106.88	-2,032.72	2,800.08	1,661.14	1,592.87	68.27	24.332						
7,400.00	6,040.00	6,484.86	6,173.95	48.67	25.65	-107.39	-2,039.75	2,779.18	1,565.78	1,498.06	67.72	23.123						
7,500.00	6,040.00	6,461.83	6,171.31	48.97	25.67	-107.89	-2,047.20	2,757.55	1,470.57	1,403.42	67.15	21.899						
7,600.00	6,040.00	6,422.95	6,165.04	49.32	25.72	-108.61	-2,059.92	2,721.36	1,375.46	1,308.75	66.71	20.617						
7,700.00	6,040.00	6,388.62	6,156.43	49.73	25.76	-108.90	-2,070.98	2,690.04	1,280.10	1,213.77	66.33	19.299						
7,800.00	6,040.00	6,349.22	6,143.09	50.19	25.80	-108.69	-2,083.53	2,655.17	1,184.64	1,118.57	66.06	17.931						
7,900.00	6,040.00	6,305.67	6,123.91	50.71	25.84	-107.51	-2,096.73	2,618.40	1,088.84	1,022.91	65.93	16.516						
8,000.00	6,040.00	6,270.69	6,105.63	51.29	25.86	-105.64	-2,106.72	2,590.30	992.73	927.01	65.72	15.105						
8,100.00	6,040.00	6,243.97	6,089.83	51.93	25.88	-103.41	-2,114.01	2,570.04	896.61	831.22	65.38	13.713						
8,200.00	6,040.00	6,212.86	6,069.59	52.63	25.89	-99.69	-2,122.07	2,547.83	800.55	735.43	65.12	12.294						
8,300.00	6,040.00	6,186.02	6,050.90	53.39	25.90	-95.35	-2,128.55	2,529.70	704.62	639.90	64.72	10.887						
8,400.00	6,040.00	6,163.68	6,034.42	54.20	25.90	-90.74	-2,133.61	2,515.49	609.13	545.00	64.12	9.499						
8,500.00	6,040.00	6,144.22	6,019.37	55.07	25.90	-85.89	-2,137.73	2,503.87	514.52	451.24	63.28	8.131						
8,600.00	6,040.00	6,124.99	6,003.93	55.99	25.89	-80.34	-2,141.52	2,493.05	421.52	359.37	62.16	6.782						
8,700.00	6,040.00	6,108.75	5,990.50	56.97	25.88	-75.12	-2,144.46	2,484.41	331.69	271.05	60.63	5.471						
8,800.00	6,040.00	6,095.00	5,978.87	57.99	25.88	-70.40	-2,146.76	2,477.45	248.72	189.45	59.27	4.196						
8,900.00	6,040.00	6,083.54	5,968.99	59.06	25.87	-66.31	-2,148.56	2,471.93	182.57	120.43	62.14	2.938						
8,994.80	6,040.00	6,073.85	5,960.51	60.11	25.86	-62.80	-2,150.01	2,467.48	156.42	82.70	73.72	2.122 CC						
9,000.00	6,040.00	6,073.35	5,960.06	60.17	25.86	-62.62	-2,150.08	2,467.25	156.51	82.12	74.39	2.104 ES, SF						
9,100.00	6,040.00	6,064.16	5,951.91	61.32	25.85	-59.29	-2,151.38	2,463.22	188.14	107.05	81.09	2.320						
9,200.00	6,040.00	6,055.85	5,944.45	62.51	25.84	-56.31	-2,152.50	2,459.73	257.06	176.64	80.41	3.197						
9,300.00	6,040.00	6,048.00	5,937.34	63.73	25.84	-53.55	-2,153.50	2,456.57	341.42	262.75	78.67	4.340						
9,400.00	6,040.00	6,040.58	5,930.55	64.98	25.83	-50.99	-2,154.41	2,453.69	432.29	355.06	77.23	5.598						
9,500.00	6,040.00	6,033.36	5,923.93	66.27	25.82	-48.58	-2,155.27	2,450.97	526.33	450.18	76.15	6.912						
9,600.00	6,040.00	6,026.64	5,917.72	67.58	25.81	-46.41	-2,156.04	2,448.52	622.11	546.76	75.35	8.256						
9,700.00	6,040.00	6,020.37	5,911.90	68.92	25.80	-44.44	-2,156.73	2,446.29	718.94	644.20	74.74	9.619						
9,800.00	6,040.00	6,014.51	5,906.43	70.29	25.79	-42.67	-2,157.36	2,444.26	816.46	742.20	74.27	10.993						
9,900.00	6,040.00	6,009.01	5,901.29	71.67	25.79	-41.06	-2,157.93	2,442.41	914.46	840.57	73.89	12.375						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ STATE 4-62-2-3228CH2 - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 100-MWD OWSG														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,000.00	6,040.00	6,000.00	5,892.81	73.08	25.77	-38.55	-2,158.82	2,439.48	1,012.82	939.30	73.52	13.776		
10,100.00	6,040.00	6,000.00	5,892.81	74.51	25.77	-38.55	-2,158.82	2,439.48	1,111.40	1,038.04	73.36	15.150		
10,200.00	6,040.00	6,000.00	5,892.81	75.95	25.77	-38.55	-2,158.82	2,439.48	1,210.21	1,136.99	73.22	16.528		
10,300.00	6,040.00	6,000.00	5,892.81	77.41	25.77	-38.55	-2,158.82	2,439.48	1,309.21	1,236.11	73.10	17.909		
10,400.00	6,040.00	5,987.19	5,880.68	78.89	25.75	-35.26	-2,160.00	2,435.54	1,408.22	1,335.39	72.83	19.337		
10,500.00	6,040.00	5,983.71	5,877.37	80.38	25.75	-34.41	-2,160.30	2,434.52	1,507.39	1,434.69	72.70	20.734		
10,600.00	6,040.00	5,980.44	5,874.25	81.88	25.74	-33.64	-2,160.57	2,433.57	1,606.66	1,534.06	72.60	22.131		
10,700.00	6,040.00	5,977.35	5,871.30	83.40	25.74	-32.93	-2,160.82	2,432.69	1,705.99	1,633.49	72.51	23.529		
10,800.00	6,040.00	5,974.43	5,868.51	84.93	25.73	-32.28	-2,161.05	2,431.88	1,805.39	1,732.96	72.43	24.927		
10,900.00	6,040.00	5,971.68	5,865.87	86.47	25.73	-31.68	-2,161.26	2,431.12	1,904.84	1,832.48	72.36	26.325		
11,000.00	6,040.00	5,969.07	5,863.36	88.02	25.72	-31.12	-2,161.46	2,430.41	2,004.34	1,932.04	72.30	27.723		
11,100.00	6,040.00	5,966.59	5,860.98	89.58	25.72	-30.60	-2,161.64	2,429.75	2,103.87	2,031.62	72.25	29.120		
11,200.00	6,040.00	5,964.00	5,858.77	91.15	25.70	-27.94	-2,162.55	2,426.31	2,203.52	2,131.42	72.10	30.561		
11,300.00	6,040.00	5,961.00	5,856.77	92.73	25.70	-27.94	-2,162.55	2,426.31	2,303.09	2,231.01	72.09	31.949		
11,400.00	6,040.00	5,958.00	5,854.77	94.31	25.70	-27.94	-2,162.55	2,426.31	2,402.70	2,330.63	72.07	33.337		
11,500.00	6,040.00	5,955.00	5,852.77	95.91	25.70	-27.94	-2,162.55	2,426.31	2,502.34	2,430.28	72.06	34.725		
11,600.00	6,040.00	5,952.00	5,850.77	97.51	25.69	-27.94	-2,162.55	2,426.31	2,602.00	2,515.70	72.05	36.113		
11,700.00	6,040.00	5,949.00	5,848.77	99.11	25.69	-27.94	-2,162.55	2,426.31	2,701.69	2,629.61	72.04	37.501		
11,800.00	6,040.00	5,946.00	5,846.77	100.71	25.69	-27.94	-2,162.55	2,426.31	2,801.40	2,729.39	72.03	38.889		
11,900.00	6,040.00	5,943.00	5,844.77	102.31	25.68	-25.73	-2,163.35	2,423.31	2,901.12	2,829.18	71.95	40.277		
12,000.00	6,040.00	5,940.00	5,842.77	103.91	25.68	-25.73	-2,163.35	2,423.31	3,000.84	2,928.96	71.88	41.665		
12,100.00	6,040.00	5,937.00	5,840.77	105.51	25.67	-25.73	-2,163.35	2,423.31	3,100.55	3,028.74	71.81	43.053		
12,200.00	6,040.00	5,934.00	5,838.77	107.11	25.67	-25.73	-2,163.35	2,423.31	3,200.27	3,128.52	71.75	44.441		
12,300.00	6,040.00	5,931.00	5,836.77	108.71	25.67	-25.73	-2,163.35	2,423.31	3,299.98	3,228.25	71.73	45.829		
12,400.00	6,040.00	5,928.00	5,834.77	110.31	25.66	-25.73	-2,163.35	2,423.31	3,399.71	3,327.97	71.74	47.217		
12,500.00	6,040.00	5,925.00	5,832.77	111.91	25.66	-25.73	-2,163.35	2,423.31	3,499.45	3,427.70	71.75	48.605		
12,600.00	6,040.00	5,922.00	5,830.77	113.51	25.66	-25.73	-2,163.35	2,423.31	3,599.21	3,527.45	71.76	50.000		
12,700.00	6,040.00	5,919.00	5,828.77	115.11	25.66	-25.73	-2,163.35	2,423.31	3,698.98	3,627.20	71.78	51.395		
12,800.00	6,040.00	5,916.00	5,826.77	116.71	25.66	-25.73	-2,163.35	2,423.31	3,798.76	3,726.97	71.79	52.790		
12,900.00	6,040.00	5,913.00	5,824.77	118.31	25.66	-25.73	-2,163.35	2,423.31	3,898.56	3,826.75	71.81	54.185		
13,000.00	6,040.00	5,910.00	5,822.77	120.00	25.66	-25.73	-2,163.35	2,423.31	3,998.36	3,926.54	71.82	55.580		
13,100.00	6,040.00	5,907.00	5,820.77	121.60	25.66	-25.73	-2,163.35	2,423.31	4,098.18	4,026.34	71.84	56.975		
13,200.00	6,040.00	5,904.00	5,818.77	123.20	25.66	-25.73	-2,163.35	2,423.31	4,198.00	4,126.14	71.85	58.370		
13,300.00	6,040.00	5,901.00	5,816.77	124.80	25.66	-25.73	-2,163.35	2,423.31	4,297.83	4,225.96	71.87	59.765		
13,400.00	6,040.00	5,898.00	5,814.77	126.40	25.66	-25.73	-2,163.35	2,423.31	4,397.67	4,325.78	71.89	61.160		
13,500.00	6,040.00	5,895.00	5,812.77	128.00	25.66	-25.73	-2,163.35	2,423.31	4,497.52	4,425.60	71.91	62.555		
13,600.00	6,040.00	5,892.00	5,810.77	129.60	25.66	-25.73	-2,163.35	2,423.31	4,597.37	4,525.44	71.93	63.950		
13,700.00	6,040.00	5,889.00	5,808.77	131.20	25.66	-25.73	-2,163.35	2,423.31	4,697.23	4,625.27	71.95	65.345		
13,800.00	6,040.00	5,886.00	5,806.77	132.80	25.66	-25.73	-2,163.35	2,423.31	4,797.09	4,725.12	71.97	66.740		
13,900.00	6,040.00	5,883.00	5,804.77	134.40	25.66	-25.73	-2,163.35	2,423.31	4,896.96	4,824.97	72.00	68.135		
14,000.00	6,040.00	5,880.00	5,802.77	136.00	25.66	-25.73	-2,163.35	2,423.31	4,996.84	4,924.82	72.02	69.530		
14,100.00	6,040.00	5,877.00	5,800.77	137.60	25.66	-25.73	-2,163.35	2,423.31	5,096.72	5,024.67	72.04	70.925		
14,200.00	6,040.00	5,874.00	5,798.77	139.20	25.66	-25.73	-2,163.35	2,423.31	5,196.60	5,124.54	72.07	72.320		
14,300.00	6,040.00	5,871.00	5,796.77	140.80	25.66	-25.73	-2,163.35	2,423.31	5,296.49	5,224.40	72.09	73.715		
14,400.00	6,040.00	5,868.00	5,794.77	142.40	25.66	-25.73	-2,163.35	2,423.31	5,396.33	5,324.11	72.02	74.925		
14,500.00	6,040.00	5,865.00	5,792.77	144.00	25.66	-25.73	-2,163.35	2,423.31	5,496.01	5,423.97	72.04	76.286		
14,600.00	6,040.00	5,862.00	5,790.77	145.60	25.66	-25.73	-2,163.35	2,423.31	5,595.90	5,523.83	72.07	77.646		
14,700.00	6,040.00	5,859.00	5,788.77	147.20	25.66	-25.73	-2,163.35	2,423.31	5,695.79	5,623.69	72.09	79.005		
14,800.00	6,040.00	5,856.00	5,786.77	148.80	25.66	-25.73	-2,163.35	2,423.31	5,795.68	5,723.56	72.12	80.365		
14,900.00	6,040.00	5,853.00	5,784.77	150.40	25.66	-25.73	-2,163.35	2,423.31	5,895.57	5,823.43	72.15	81.725		
15,000.00	6,040.00	5,850.00	5,782.77	152.00	25.66	-25.73	-2,163.35	2,423.31	5,995.47	5,923.30	72.17	83.085		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	5,881.34	5,777.84	156.16	25.56	-18.12	-2,167.03	2,411.89	6,095.38	6,023.18	72.20	84.422		
15,200.00	6,040.00	5,880.84	5,777.35	157.88	25.56	-18.07	-2,167.05	2,411.82	6,195.28	6,123.05	72.23	85.772		
15,300.00	6,040.00	5,880.36	5,776.88	159.60	25.56	-18.02	-2,167.07	2,411.75	6,295.19	6,222.93	72.26	87.120		
15,400.00	6,040.00	5,879.90	5,776.42	161.32	25.56	-17.98	-2,167.09	2,411.68	6,395.10	6,322.81	72.29	88.467		
15,500.00	6,040.00	5,879.44	5,775.97	163.04	25.56	-17.94	-2,167.11	2,411.62	6,495.01	6,422.69	72.32	89.811		
15,600.00	6,040.00	5,879.00	5,775.53	164.77	25.56	-17.89	-2,167.12	2,411.55	6,594.93	6,522.58	72.35	91.154		
15,700.00	6,040.00	5,878.57	5,775.10	166.49	25.55	-17.85	-2,167.14	2,411.49	6,694.85	6,622.47	72.38	92.495		
15,800.00	6,040.00	5,858.00	5,754.71	168.22	25.51	-16.12	-2,167.72	2,408.91	6,795.02	6,722.69	72.34	93.938		
15,900.00	6,040.00	5,858.00	5,754.71	169.95	25.51	-16.12	-2,167.72	2,408.91	6,894.93	6,822.56	72.37	95.274		
16,000.00	6,040.00	5,858.00	5,754.71	171.68	25.51	-16.12	-2,167.72	2,408.91	6,994.85	6,922.44	72.40	96.609		
16,100.00	6,040.00	5,858.00	5,754.71	173.41	25.51	-16.12	-2,167.72	2,408.91	7,094.76	7,022.32	72.44	97.941		
16,200.00	6,040.00	5,858.00	5,754.71	175.14	25.51	-16.12	-2,167.72	2,408.91	7,194.68	7,122.21	72.47	99.271		
16,300.00	6,040.00	5,858.00	5,754.71	176.88	25.51	-16.12	-2,167.72	2,408.91	7,294.60	7,222.09	72.51	100.600		
16,400.00	6,040.00	5,858.00	5,754.71	178.61	25.51	-16.12	-2,167.72	2,408.91	7,394.52	7,321.98	72.55	101.927		
16,500.00	6,040.00	5,858.00	5,754.71	180.34	25.51	-16.12	-2,167.72	2,408.91	7,494.45	7,421.87	72.58	103.251		
16,600.00	6,040.00	5,858.00	5,754.71	182.08	25.51	-16.12	-2,167.72	2,408.91	7,594.38	7,521.75	72.62	104.574		
16,700.00	6,040.00	5,858.00	5,754.71	183.82	25.51	-16.12	-2,167.72	2,408.91	7,694.31	7,621.65	72.66	105.895		
16,800.00	6,040.00	5,858.00	5,754.71	185.56	25.51	-16.12	-2,167.72	2,408.91	7,794.24	7,721.54	72.70	107.213		
16,865.66	6,040.00	5,858.00	5,754.71	186.70	25.51	-16.12	-2,167.72	2,408.91	7,859.85	7,787.13	72.72	108.078		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ WINDMILL 10-34H - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 820-MWD OWSG														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	8.00	8.00	0.00	0.01	69.00	936.02	2,438.00	2,611.51					
100.00	100.00	108.00	108.00	0.13	0.19	69.00	936.02	2,438.00	2,611.51	2,611.19	0.32	8,054.631		
200.00	199.98	207.98	207.98	0.49	0.37	-5.38	936.02	2,438.00	2,609.77	2,608.91	0.86	3,043.963		
300.00	299.84	307.84	307.84	0.86	0.54	-5.40	936.02	2,438.00	2,604.56	2,603.16	1.40	1,862.041		
400.00	399.45	407.45	407.45	1.23	0.72	-5.44	936.02	2,438.00	2,595.89	2,593.94	1.94	1,336.355		
500.00	498.70	506.70	506.70	1.63	0.89	-5.48	936.02	2,438.00	2,583.75	2,581.27	2.49	1,038.385		
600.00	597.47	605.47	605.47	2.05	1.06	-5.55	936.02	2,438.00	2,568.18	2,565.15	3.04	845.850		
700.00	695.62	703.62	703.62	2.51	1.24	-5.63	936.02	2,438.00	2,549.19	2,545.60	3.59	710.723		
800.00	793.06	801.06	801.06	3.00	1.41	-5.72	936.02	2,438.00	2,526.80	2,522.66	4.14	610.314		
900.00	889.64	928.70	928.69	3.54	1.82	-5.83	935.02	2,437.98	2,500.86	2,495.92	4.94	506.379		
1,000.00	985.27	1,028.52	1,028.33	4.13	2.16	-5.83	929.07	2,438.46	2,470.10	2,464.44	5.66	436.130		
1,100.00	1,079.82	1,172.45	1,171.84	4.77	2.66	-5.78	918.28	2,437.53	2,434.15	2,427.60	6.55	371.521		
1,200.00	1,173.17	1,333.72	1,332.03	5.46	3.25	-5.58	899.98	2,437.43	2,395.17	2,387.64	7.52	318.419		
1,300.00	1,265.23	1,412.63	1,410.22	6.21	3.56	-5.48	889.39	2,436.33	2,350.76	2,342.53	8.23	285.768		
1,400.00	1,356.75	1,481.41	1,478.42	7.00	3.83	-5.33	880.41	2,435.77	2,305.76	2,296.87	8.88	259.524		
1,500.00	1,448.28	1,561.97	1,558.25	7.80	4.15	-5.13	869.69	2,435.79	2,261.40	2,251.81	9.60	235.675		
1,600.00	1,539.81	1,671.16	1,666.31	8.60	4.60	-4.81	853.95	2,436.07	2,216.97	2,206.56	10.42	212.860		
1,700.00	1,631.34	1,743.97	1,738.41	9.41	4.90	-4.61	843.88	2,435.75	2,172.16	2,161.05	11.12	195.404		
1,800.00	1,722.86	1,857.24	1,850.50	10.23	5.37	-4.25	827.58	2,436.10	2,127.95	2,115.99	11.96	177.927		
1,900.00	1,814.39	1,987.08	1,978.85	11.05	5.92	-3.83	808.26	2,433.40	2,081.36	2,068.51	12.85	161.983		
2,000.00	1,905.92	2,050.59	2,041.78	11.87	6.18	-3.65	799.93	2,431.66	2,034.92	2,021.39	13.53	150.391		
2,100.00	1,997.45	2,116.47	2,107.12	12.69	6.45	-3.46	791.56	2,430.57	1,989.55	1,975.33	14.23	139.859		
2,200.00	2,088.97	2,199.77	2,189.80	13.52	6.80	-3.22	781.40	2,429.89	1,945.05	1,930.07	14.97	129.906		
2,300.00	2,180.50	2,296.42	2,285.73	14.35	7.19	-2.93	769.73	2,428.72	1,900.29	1,884.54	15.76	120.602		
2,400.00	2,272.03	2,387.26	2,375.84	15.17	7.57	-2.63	758.27	2,427.56	1,855.37	1,838.84	16.53	112.256		
2,500.00	2,363.56	2,482.44	2,470.22	16.00	7.97	-2.30	746.04	2,426.30	1,810.39	1,793.08	17.31	104.576		
2,600.00	2,455.08	2,586.10	2,572.94	16.83	8.41	-1.90	732.24	2,424.39	1,764.89	1,746.77	18.12	97.426		
2,700.00	2,546.61	2,681.39	2,667.23	17.66	8.82	-1.48	718.64	2,422.20	1,718.79	1,699.89	18.90	90.922		
2,800.00	2,638.14	2,760.38	2,745.34	18.50	9.16	-1.11	707.05	2,420.51	1,672.80	1,653.14	19.66	85.066		
2,900.00	2,729.67	2,840.99	2,825.17	19.33	9.50	-0.72	695.88	2,419.16	1,627.48	1,607.05	20.43	79.659		
3,000.00	2,821.19	2,927.93	2,911.33	20.16	9.87	-0.31	684.29	2,417.79	1,582.44	1,561.23	21.21	74.616		
3,100.00	2,912.72	3,009.76	2,992.40	20.99	10.22	0.11	673.35	2,416.58	1,537.57	1,515.59	21.98	69.946		
3,200.00	3,004.25	3,112.06	3,093.67	21.83	10.66	0.69	659.06	2,414.88	1,492.43	1,469.64	22.79	65.485		
3,300.00	3,095.78	3,191.93	3,172.80	22.66	11.00	1.15	648.29	2,413.54	1,447.53	1,423.96	23.57	61.418		
3,400.00	3,187.30	3,286.01	3,266.01	23.50	11.40	1.73	635.58	2,412.46	1,403.20	1,378.83	24.37	57.581		
3,500.00	3,278.83	3,417.30	3,395.71	24.33	11.97	2.67	615.91	2,407.45	1,356.02	1,330.83	25.19	53.831		
3,600.00	3,370.36	3,484.81	3,462.34	25.16	12.27	3.20	605.41	2,404.68	1,309.03	1,283.03	25.99	50.358		
3,700.00	3,461.89	3,550.00	3,526.87	26.00	12.56	3.71	596.22	2,403.53	1,264.27	1,237.47	26.81	47.161		
3,800.00	3,553.41	3,661.75	3,637.55	26.83	13.03	4.63	580.96	2,401.38	1,219.91	1,192.29	27.62	44.162		
3,900.00	3,644.94	3,722.97	3,698.19	27.67	13.30	5.16	572.68	2,400.26	1,175.53	1,147.07	28.46	41.300		
4,000.00	3,736.47	3,801.83	3,776.39	28.51	13.63	5.87	562.52	2,399.59	1,132.44	1,103.13	29.31	38.641		
4,100.00	3,828.00	3,893.03	3,866.89	29.34	14.01	6.73	551.21	2,399.12	1,089.93	1,059.77	30.16	36.140		
4,200.00	3,919.52	3,993.27	3,966.22	30.18	14.44	7.81	537.80	2,398.03	1,047.00	1,015.98	31.02	33.748		
4,300.00	4,011.05	4,086.16	4,058.29	31.01	14.83	8.87	525.65	2,396.12	1,003.50	971.60	31.91	31.448		
4,400.00	4,102.58	4,170.99	4,142.45	31.85	15.19	9.88	515.15	2,394.30	960.30	927.48	32.82	29.258		
4,500.00	4,194.11	4,251.32	4,222.21	32.68	15.52	10.90	505.65	2,393.06	917.99	884.22	33.77	27.184		
4,600.00	4,285.64	4,330.92	4,301.13	33.52	15.86	12.06	495.37	2,392.83	877.03	842.27	34.77	25.227		
4,700.00	4,377.16	4,420.41	4,389.78	34.36	16.24	13.53	483.09	2,393.33	837.22	801.41	35.81	23.381		
4,800.00	4,468.69	4,527.07	4,495.26	35.19	16.71	15.54	467.35	2,391.98	796.21	759.32	36.90	21.579		
4,900.00	4,560.22	4,610.85	4,578.15	36.03	17.07	17.27	455.27	2,390.60	755.62	717.53	38.09	19.838		
5,000.00	4,651.75	4,696.53	4,662.97	36.87	17.44	19.19	443.21	2,389.74	716.34	676.99	39.36	18.202		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 820-MWD OWSG												Offset Well Error:		0.00 usft	
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ WINDMILL 10-34H - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	4,743.27	4,793.16	4,758.91	37.70	17.84	21.40	431.78	2,388.19	677.26	636.61	40.64	16.664			
5,200.00	4,834.80	4,872.93	4,838.40	38.54	18.15	23.16	425.23	2,387.47	639.35	597.37	41.99	15.228			
5,300.00	4,926.33	4,967.28	4,932.63	39.38	18.49	25.14	420.69	2,387.42	602.56	559.29	43.28	13.924			
5,400.00	5,017.86	5,055.68	5,020.99	40.21	18.79	27.07	417.93	2,387.51	566.34	521.69	44.65	12.685			
5,500.00	5,109.38	5,143.46	5,108.73	41.05	19.09	29.20	415.26	2,388.12	531.33	485.21	46.13	11.519			
5,600.00	5,200.91	5,255.10	5,220.32	41.89	19.46	32.31	412.28	2,387.39	495.95	448.36	47.59	10.422			
5,700.00	5,292.44	5,339.74	5,304.91	42.73	19.75	35.06	410.17	2,385.47	460.08	410.66	49.42	9.310			
5,800.00	5,383.97	5,427.70	5,392.83	43.56	20.04	38.32	407.82	2,384.15	426.23	374.80	51.43	8.288			
5,900.00	5,475.51	5,515.20	5,480.30	44.40	20.34	37.87	405.48	2,383.49	394.53	340.89	53.64	7.355			
6,000.00	5,567.37	5,633.91	5,598.83	45.19	20.70	14.16	408.18	2,382.81	357.71	302.96	54.75	6.533			
6,100.00	5,657.57	5,755.37	5,716.95	45.89	20.92	-15.86	435.29	2,380.36	305.14	252.52	52.63	5.798			
6,200.00	5,743.38	5,824.12	5,780.06	46.48	21.00	-46.39	462.37	2,378.42	246.69	196.96	49.72	4.961			
6,300.00	5,822.18	5,863.08	5,813.98	46.95	21.03	-68.50	481.49	2,378.52	206.73	159.60	47.13	4.386			
6,343.25	5,853.49	5,873.26	5,822.58	47.10	21.04	-74.31	486.93	2,378.73	201.97	154.62	47.35	4.265	CC, ES, SF		
6,400.00	5,891.60	5,881.00	5,829.05	47.31	21.04	-78.38	491.19	2,378.94	210.38	161.27	49.11	4.284			
6,500.00	5,949.50	5,885.59	5,832.85	47.58	21.04	-77.51	493.77	2,379.08	260.00	207.02	52.98	4.907			
6,600.00	5,994.15	5,881.00	5,829.05	47.76	21.04	-66.82	491.19	2,378.94	335.46	279.66	55.80	6.012			
6,700.00	6,024.17	5,865.13	5,815.73	47.86	21.03	-47.86	482.57	2,378.55	420.84	363.23	57.61	7.305			
6,800.00	6,038.67	5,849.00	5,801.90	47.91	21.02	-30.00	474.28	2,378.36	508.26	448.78	59.47	8.546			
6,900.00	6,040.00	5,818.00	5,774.60	47.93	20.99	-22.30	459.61	2,378.51	594.79	534.27	60.53	9.827			
7,000.00	6,040.00	5,805.58	5,763.42	47.98	20.98	-21.52	454.21	2,378.74	683.12	621.12	62.00	11.018			
7,100.00	6,040.00	5,786.00	5,745.53	48.09	20.96	-20.41	446.26	2,379.25	773.39	710.55	62.84	12.307			
7,200.00	6,040.00	5,775.03	5,735.37	48.23	20.95	-19.84	442.12	2,379.60	865.08	801.39	63.69	13.584			
7,300.00	6,040.00	5,755.00	5,716.61	48.43	20.92	-18.89	435.17	2,380.37	958.04	893.91	64.13	14.939			
7,400.00	6,040.00	5,755.00	5,716.61	48.67	20.92	-18.89	435.17	2,380.37	1,051.75	986.89	64.86	16.216			
7,500.00	6,040.00	5,741.46	5,703.77	48.97	20.90	-18.30	430.89	2,380.91	1,146.28	1,081.07	65.20	17.580			
7,600.00	6,040.00	5,723.00	5,686.10	49.32	20.87	-17.53	425.59	2,381.54	1,241.54	1,176.13	65.41	18.980			
7,700.00	6,040.00	5,723.00	5,686.10	49.73	20.87	-17.53	425.59	2,381.54	1,337.11	1,271.28	65.83	20.312			
7,800.00	6,040.00	5,723.00	5,686.10	50.19	20.87	-17.53	425.59	2,381.54	1,433.28	1,367.11	66.17	21.661			
7,900.00	6,040.00	5,709.34	5,672.91	50.71	20.85	-16.99	422.06	2,381.91	1,529.71	1,463.40	66.31	23.070			
8,000.00	6,040.00	5,703.01	5,666.77	51.29	20.84	-16.75	420.53	2,382.04	1,626.52	1,560.02	66.50	24.460			
8,100.00	6,040.00	5,692.00	5,656.05	51.93	20.82	-16.33	418.04	2,382.22	1,723.64	1,657.03	66.61	25.875			
8,200.00	6,040.00	5,692.00	5,656.05	52.63	20.82	-16.33	418.04	2,382.22	1,820.95	1,754.14	66.81	27.256			
8,300.00	6,040.00	5,692.00	5,656.05	53.39	20.82	-16.33	418.04	2,382.22	1,918.53	1,851.55	66.98	28.644			
8,400.00	6,040.00	5,692.00	5,656.05	54.20	20.82	-16.33	418.04	2,382.22	2,016.35	1,949.23	67.13	30.038			
8,500.00	6,040.00	5,677.30	5,641.66	55.07	20.79	-15.80	415.04	2,382.39	2,114.15	2,046.99	67.16	31.481			
8,600.00	6,040.00	5,673.11	5,637.55	55.99	20.78	-15.65	414.25	2,382.43	2,212.21	2,144.96	67.25	32.895			
8,700.00	6,040.00	5,660.00	5,624.64	56.97	20.75	-15.20	411.95	2,382.55	2,310.49	2,243.21	67.28	34.342			
8,800.00	6,040.00	5,660.00	5,624.64	57.99	20.75	-15.20	411.95	2,382.55	2,408.74	2,341.36	67.38	35.747			
8,900.00	6,040.00	5,660.00	5,624.64	59.06	20.75	-15.20	411.95	2,382.55	2,507.13	2,439.66	67.48	37.156			
9,000.00	6,040.00	5,660.00	5,624.64	60.17	20.75	-15.20	411.95	2,382.55	2,605.65	2,538.09	67.56	38.567			
9,100.00	6,040.00	5,660.00	5,624.64	61.32	20.75	-15.20	411.95	2,382.55	2,704.28	2,636.64	67.64	39.981			
9,200.00	6,040.00	5,660.00	5,624.64	62.51	20.75	-15.20	411.95	2,382.55	2,803.00	2,735.29	67.71	41.397			
9,300.00	6,040.00	5,660.00	5,624.64	63.73	20.75	-15.20	411.95	2,382.55	2,901.81	2,834.03	67.78	42.815			
9,400.00	6,040.00	5,647.60	5,612.39	64.98	20.73	-14.80	410.02	2,382.66	3,000.55	2,932.77	67.78	44.268			
9,500.00	6,040.00	5,645.15	5,609.96	66.27	20.72	-14.72	409.67	2,382.69	3,099.44	3,031.61	67.83	45.694			
9,600.00	6,040.00	5,642.83	5,607.66	67.58	20.72	-14.65	409.35	2,382.71	3,198.40	3,130.52	67.88	47.121			
9,700.00	6,040.00	5,629.00	5,593.95	68.92	20.69	-14.24	407.60	2,382.88	3,297.54	3,229.66	67.87	48.584			
9,800.00	6,040.00	5,629.00	5,593.95	70.29	20.69	-14.24	407.60	2,382.88	3,396.55	3,328.63	67.93	50.004			
9,900.00	6,040.00	5,629.00	5,593.95	71.67	20.69	-14.24	407.60	2,382.88	3,495.62	3,427.65	67.97	51.425			
10,000.00	6,040.00	5,629.00	5,593.95	73.08	20.69	-14.24	407.60	2,382.88	3,594.75	3,526.72	68.02	52.847			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 820-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ ANSCHUTZ WINDMILL 10-34H - OWB - FINAL SURVEY															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,100.00	6,040.00	5,629.00	5,593.95	74.51	20.69	-14.24	407.60	2,382.88	3,693.92	3,625.85	68.07	54.269			
10,200.00	6,040.00	5,629.00	5,593.95	75.95	20.69	-14.24	407.60	2,382.88	3,793.13	3,725.02	68.11	55.692			
10,300.00	6,040.00	5,629.00	5,593.95	77.41	20.69	-14.24	407.60	2,382.88	3,892.38	3,824.23	68.15	57.114			
10,400.00	6,040.00	5,629.00	5,593.95	78.89	20.69	-14.24	407.60	2,382.88	3,991.68	3,923.48	68.19	58.537			
10,500.00	6,040.00	5,629.00	5,593.95	80.38	20.69	-14.24	407.60	2,382.88	4,091.00	4,022.77	68.23	59.959			
10,600.00	6,040.00	5,629.00	5,593.95	81.88	20.69	-14.24	407.60	2,382.88	4,190.36	4,122.09	68.27	61.382			
10,700.00	6,040.00	5,629.00	5,593.95	83.40	20.69	-14.24	407.60	2,382.88	4,289.75	4,221.44	68.30	62.804			
10,800.00	6,040.00	5,629.00	5,593.95	84.93	20.69	-14.24	407.60	2,382.88	4,389.16	4,320.82	68.34	64.226			
10,900.00	6,040.00	5,629.00	5,593.95	86.47	20.69	-14.24	407.60	2,382.88	4,488.60	4,420.23	68.37	65.647			
11,000.00	6,040.00	5,629.00	5,593.95	88.02	20.69	-14.24	407.60	2,382.88	4,588.07	4,519.66	68.41	67.068			
11,100.00	6,040.00	5,629.00	5,593.95	89.58	20.69	-14.24	407.60	2,382.88	4,687.56	4,619.12	68.44	68.489			
11,200.00	6,040.00	5,629.00	5,593.95	91.15	20.69	-14.24	407.60	2,382.88	4,787.07	4,718.59	68.48	69.908			
11,300.00	6,040.00	5,629.00	5,593.95	92.73	20.69	-14.24	407.60	2,382.88	4,886.60	4,818.09	68.51	71.328			
11,400.00	6,040.00	5,629.00	5,593.95	94.31	20.69	-14.24	407.60	2,382.88	4,986.15	4,917.60	68.54	72.746			
11,500.00	6,040.00	5,629.00	5,593.95	95.91	20.69	-14.24	407.60	2,382.88	5,085.71	5,017.14	68.57	74.164			
11,600.00	6,040.00	5,629.00	5,593.95	97.51	20.69	-14.24	407.60	2,382.88	5,185.30	5,116.69	68.61	75.581			
11,700.00	6,040.00	5,629.00	5,593.95	99.11	20.69	-14.24	407.60	2,382.88	5,284.89	5,216.26	68.64	76.997			
11,800.00	6,040.00	5,629.00	5,593.95	100.73	20.69	-14.24	407.60	2,382.88	5,384.51	5,315.84	68.67	78.412			
11,900.00	6,040.00	5,614.56	5,579.59	102.35	20.65	-13.84	406.14	2,383.04	5,483.90	5,415.23	68.66	79.867			
12,000.00	6,040.00	5,613.90	5,578.93	103.97	20.65	-13.82	406.09	2,383.04	5,583.51	5,514.82	68.69	81.282			
12,100.00	6,040.00	5,613.26	5,578.29	105.60	20.65	-13.80	406.03	2,383.05	5,683.14	5,614.42	68.72	82.696			
12,200.00	6,040.00	5,612.64	5,577.67	107.24	20.65	-13.79	405.98	2,383.06	5,782.79	5,714.03	68.75	84.109			
12,300.00	6,040.00	5,598.00	5,563.07	108.88	20.61	-13.40	405.02	2,383.17	5,882.67	5,813.92	68.75	85.570			
12,400.00	6,040.00	5,598.00	5,563.07	110.53	20.61	-13.40	405.02	2,383.17	5,982.31	5,913.54	68.78	86.978			
12,500.00	6,040.00	5,598.00	5,563.07	112.18	20.61	-13.40	405.02	2,383.17	6,081.97	6,013.16	68.81	88.386			
12,600.00	6,040.00	5,598.00	5,563.07	113.83	20.61	-13.40	405.02	2,383.17	6,181.64	6,112.80	68.84	89.792			
12,700.00	6,040.00	5,598.00	5,563.07	115.49	20.61	-13.40	405.02	2,383.17	6,281.32	6,212.45	68.88	91.197			
12,800.00	6,040.00	5,598.00	5,563.07	117.16	20.61	-13.40	405.02	2,383.17	6,381.01	6,312.10	68.91	92.601			
12,900.00	6,040.00	5,598.00	5,563.07	118.82	20.61	-13.40	405.02	2,383.17	6,480.71	6,411.77	68.94	94.003			
13,000.00	6,040.00	5,598.00	5,563.07	120.49	20.61	-13.40	405.02	2,383.17	6,580.42	6,511.44	68.97	95.405			
13,100.00	6,040.00	5,598.00	5,563.07	122.16	20.61	-13.40	405.02	2,383.17	6,680.14	6,611.13	69.01	96.804			
13,200.00	6,040.00	5,598.00	5,563.07	123.84	20.61	-13.40	405.02	2,383.17	6,779.86	6,710.82	69.04	98.203			
13,300.00	6,040.00	5,598.00	5,563.07	125.52	20.61	-13.40	405.02	2,383.17	6,879.59	6,810.52	69.07	99.600			
13,400.00	6,040.00	5,598.00	5,563.07	127.20	20.61	-13.40	405.02	2,383.17	6,979.33	6,910.23	69.11	100.995			
13,500.00	6,040.00	5,598.00	5,563.07	128.89	20.61	-13.40	405.02	2,383.17	7,079.08	7,009.94	69.14	102.389			
13,600.00	6,040.00	5,598.00	5,563.07	130.58	20.61	-13.40	405.02	2,383.17	7,178.84	7,109.67	69.17	103.781			
13,700.00	6,040.00	5,598.00	5,563.07	132.27	20.61	-13.40	405.02	2,383.17	7,278.60	7,209.39	69.21	105.172			
13,800.00	6,040.00	5,598.00	5,563.07	133.96	20.61	-13.40	405.02	2,383.17	7,378.37	7,309.13	69.24	106.561			
13,900.00	6,040.00	5,598.00	5,563.07	135.66	20.61	-13.40	405.02	2,383.17	7,478.14	7,408.87	69.27	107.949			
14,000.00	6,040.00	5,598.00	5,563.07	137.35	20.61	-13.40	405.02	2,383.17	7,577.92	7,508.61	69.31	109.335			
14,100.00	6,040.00	5,598.00	5,563.07	139.05	20.61	-13.40	405.02	2,383.17	7,677.71	7,608.37	69.34	110.719			
14,200.00	6,040.00	5,598.00	5,563.07	140.75	20.61	-13.40	405.02	2,383.17	7,777.50	7,708.12	69.38	112.102			
14,300.00	6,040.00	5,598.00	5,563.07	142.46	20.61	-13.40	405.02	2,383.17	7,877.30	7,807.88	69.41	113.482			
14,400.00	6,040.00	5,598.00	5,563.07	144.17	20.61	-13.40	405.02	2,383.17	7,977.10	7,907.65	69.45	114.862			
14,500.00	6,040.00	5,598.00	5,563.07	145.87	20.61	-13.40	405.02	2,383.17	8,076.91	8,007.42	69.49	116.239			
14,600.00	6,040.00	5,598.00	5,563.07	147.58	20.61	-13.40	405.02	2,383.17	8,176.72	8,107.20	69.52	117.614			
14,700.00	6,040.00	5,598.00	5,563.07	149.29	20.61	-13.40	405.02	2,383.17	8,276.54	8,206.98	69.56	118.988			
14,800.00	6,040.00	5,598.00	5,563.07	151.01	20.61	-13.40	405.02	2,383.17	8,376.36	8,306.76	69.59	120.360			
14,900.00	6,040.00	5,598.00	5,563.07	152.72	20.61	-13.40	405.02	2,383.17	8,476.18	8,406.55	69.63	121.730			
15,000.00	6,040.00	5,598.00	5,563.07	154.44	20.61	-13.40	405.02	2,383.17	8,576.01	8,506.34	69.67	123.098			
15,100.00	6,040.00	5,598.00	5,563.07	156.16	20.61	-13.40	405.02	2,383.17	8,675.84	8,606.14	69.71	124.464			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 820-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,200.00	6,040.00	5,598.00	5,563.07	157.88	20.61	-13.40	405.02	2,383.17	8,775.68	8,705.94	69.74	125.828			
15,300.00	6,040.00	5,598.00	5,563.07	159.60	20.61	-13.40	405.02	2,383.17	8,875.52	8,805.74	69.78	127.190			
15,400.00	6,040.00	5,598.00	5,563.07	161.32	20.61	-13.40	405.02	2,383.17	8,975.36	8,905.54	69.82	128.551			
15,500.00	6,040.00	5,598.00	5,563.07	163.04	20.61	-13.40	405.02	2,383.17	9,075.21	9,005.35	69.86	129.909			
15,600.00	6,040.00	5,598.00	5,563.07	164.77	20.61	-13.40	405.02	2,383.17	9,175.06	9,105.16	69.90	131.265			
15,700.00	6,040.00	5,598.00	5,563.07	166.49	20.61	-13.40	405.02	2,383.17	9,274.92	9,204.98	69.94	132.619			
15,800.00	6,040.00	5,598.00	5,563.07	168.22	20.61	-13.40	405.02	2,383.17	9,374.77	9,304.80	69.98	133.972			
15,900.00	6,040.00	5,598.00	5,563.07	169.95	20.61	-13.40	405.02	2,383.17	9,474.63	9,404.62	70.02	135.322			
16,000.00	6,040.00	5,598.00	5,563.07	171.68	20.61	-13.40	405.02	2,383.17	9,574.50	9,504.44	70.06	136.670			
16,100.00	6,040.00	5,598.00	5,563.07	173.41	20.61	-13.40	405.02	2,383.17	9,674.36	9,604.26	70.10	138.015			
16,200.00	6,040.00	5,598.00	5,563.07	175.14	20.61	-13.40	405.02	2,383.17	9,774.23	9,704.09	70.14	139.359			
16,300.00	6,040.00	5,598.00	5,563.07	176.88	20.61	-13.40	405.02	2,383.17	9,874.10	9,803.92	70.18	140.701			
16,400.00	6,040.00	5,598.00	5,563.07	178.61	20.61	-13.40	405.02	2,383.17	9,973.97	9,903.76	70.22	142.040			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 792-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CN - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1,167.44	1,150.70	0.00	3.91	158.61	-4,599.98	1,801.87	5,079.09					
100.00	100.00	1,630.81	1,592.90	0.13	6.68	157.88	-4,462.85	1,814.27	5,052.06	5,046.00	6.05	834.566		
200.00	199.98	1,695.21	1,653.53	0.49	7.10	84.02	-4,441.30	1,816.97	5,022.06	5,015.56	6.50	772.933		
300.00	299.84	1,754.28	1,709.22	0.86	7.49	84.56	-4,421.82	1,819.72	4,992.35	4,985.33	7.02	710.724		
400.00	399.45	2,280.61	2,196.42	1.23	11.20	84.55	-4,226.83	1,853.52	4,961.24	4,951.13	10.11	490.715		
500.00	498.70	2,505.24	2,400.04	1.63	12.94	85.18	-4,132.57	1,863.20	4,923.08	4,911.45	11.64	423.124		
600.00	597.47	2,541.00	2,432.03	2.05	13.23	86.03	-4,116.70	1,865.30	4,882.58	4,870.40	12.19	400.574		
700.00	695.62	2,593.85	2,479.32	2.51	13.65	86.86	-4,093.46	1,869.26	4,842.65	4,829.76	12.89	375.688		
800.00	793.06	2,634.00	2,515.39	3.00	13.97	87.69	-4,076.24	1,873.10	4,803.83	4,790.27	13.56	354.168		
900.00	889.64	2,690.05	2,565.84	3.54	14.41	88.53	-4,052.53	1,878.98	4,765.78	4,751.40	14.38	331.485		
1,000.00	985.27	2,759.00	2,628.00	4.13	14.96	89.39	-4,023.58	1,886.25	4,728.05	4,712.74	15.31	308.875		
1,100.00	1,079.82	2,823.00	2,686.03	4.77	15.45	90.28	-3,997.31	1,892.37	4,690.86	4,674.60	16.26	288.574		
1,200.00	1,173.17	2,863.03	2,722.59	5.46	15.75	91.14	-3,981.37	1,895.72	4,654.50	4,637.38	17.11	271.968		
1,300.00	1,265.23	2,918.00	2,773.27	6.21	16.16	91.96	-3,960.42	1,899.56	4,619.30	4,601.20	18.10	255.161		
1,400.00	1,356.75	2,945.67	2,798.96	7.00	16.35	92.05	-3,950.27	1,901.17	4,585.15	4,566.16	18.98	241.561		
1,500.00	1,448.28	2,987.25	2,837.78	7.80	16.64	92.19	-3,935.52	1,903.24	4,552.14	4,532.20	19.94	228.311		
1,600.00	1,539.81	3,053.46	2,899.95	8.60	17.08	92.43	-3,912.90	1,905.98	4,520.17	4,499.15	21.01	215.124		
1,700.00	1,631.34	3,210.04	3,046.53	9.41	18.15	92.99	-3,858.35	1,913.36	4,488.06	4,465.57	22.48	199.619		
1,800.00	1,722.86	3,598.51	3,400.97	10.23	21.09	94.14	-3,703.40	1,946.23	4,453.08	4,427.97	25.11	177.333		
1,900.00	1,814.39	3,638.28	3,436.63	11.05	21.41	94.25	-3,686.21	1,950.11	4,414.69	4,388.58	26.12	169.036		
2,000.00	1,905.92	3,670.00	3,465.20	11.87	21.67	94.34	-3,672.81	1,953.26	4,377.44	4,350.35	27.09	161.583		
2,100.00	1,997.45	3,729.63	3,519.24	12.69	22.13	94.51	-3,648.26	1,958.97	4,341.15	4,312.96	28.19	153.981		
2,200.00	2,088.97	3,764.00	3,550.58	13.52	22.39	94.62	-3,634.48	1,962.01	4,305.91	4,276.73	29.18	147.543		
2,300.00	2,180.50	3,821.53	3,603.34	14.35	22.82	94.81	-3,612.08	1,966.85	4,271.66	4,241.39	30.27	141.113		
2,400.00	2,272.03	3,858.00	3,637.00	15.17	23.09	94.93	-3,598.33	1,969.79	4,238.59	4,207.32	31.27	135.541		
2,500.00	2,363.56	3,925.46	3,699.57	16.00	23.57	95.17	-3,573.63	1,974.84	4,206.45	4,174.06	32.39	129.861		
2,600.00	2,455.08	3,953.00	3,725.21	16.83	23.76	95.27	-3,563.77	1,976.71	4,175.39	4,142.03	33.35	125.184		
2,700.00	2,546.61	4,014.19	3,782.50	17.66	24.17	95.50	-3,542.63	1,980.63	4,145.33	4,110.89	34.44	120.368		
2,800.00	2,638.14	4,081.89	3,846.36	18.50	24.62	95.77	-3,520.46	1,984.38	4,116.64	4,081.10	35.54	115.840		
2,900.00	2,729.67	4,329.00	4,078.22	19.33	26.27	96.90	-3,435.27	1,989.13	4,084.54	4,047.34	37.19	109.814		
3,000.00	2,821.19	4,385.28	4,130.72	20.16	26.65	97.15	-3,415.04	1,990.57	4,052.85	4,014.60	38.25	105.952		
3,100.00	2,912.72	4,423.00	4,166.03	20.99	26.91	97.31	-3,401.90	1,992.39	4,022.70	3,983.45	39.25	102.484		
3,200.00	3,004.25	4,456.05	4,197.07	21.83	27.13	97.45	-3,390.73	1,994.44	3,994.01	3,953.77	40.24	99.254		
3,300.00	3,095.78	4,490.46	4,229.50	22.66	27.35	97.59	-3,379.51	1,996.88	3,966.85	3,925.62	41.23	96.208		
3,400.00	3,187.30	4,517.00	4,254.60	23.50	27.53	97.70	-3,371.15	1,998.97	3,941.24	3,899.05	42.19	93.407		
3,500.00	3,278.83	4,559.31	4,294.85	24.33	27.78	97.88	-3,358.47	2,002.12	3,917.15	3,873.96	43.20	90.680		
3,600.00	3,370.36	4,611.00	4,344.45	25.16	28.09	98.11	-3,344.24	2,005.03	3,894.80	3,850.57	44.23	88.063		
3,700.00	3,461.89	4,611.00	4,344.45	26.00	28.09	98.11	-3,344.24	2,005.03	3,873.96	3,828.88	45.08	85.943		
3,800.00	3,553.41	4,670.48	4,401.98	26.83	28.41	98.40	-3,329.31	2,007.47	3,854.54	3,808.44	46.10	83.612		
3,900.00	3,644.94	4,705.00	4,435.52	27.67	28.59	98.57	-3,321.26	2,008.61	3,836.78	3,789.74	47.04	81.564		
4,000.00	3,736.47	4,761.74	4,490.86	28.51	28.87	98.87	-3,308.80	2,010.01	3,820.41	3,772.38	48.03	79.540		
4,100.00	3,828.00	4,814.20	4,542.19	29.34	29.12	99.15	-3,298.00	2,010.80	3,805.39	3,756.39	49.00	77.660		
4,200.00	3,919.52	4,873.97	4,600.81	30.18	29.39	99.49	-3,286.33	2,011.10	3,791.56	3,741.58	49.98	75.863		
4,300.00	4,011.05	4,892.00	4,618.51	31.01	29.47	99.59	-3,282.94	2,011.06	3,779.23	3,728.41	50.82	74.360		
4,400.00	4,102.58	4,952.84	4,678.39	31.85	29.73	99.94	-3,272.22	2,011.59	3,768.19	3,716.40	51.79	72.758		
4,500.00	4,194.11	4,986.00	4,711.12	32.68	29.87	100.12	-3,266.94	2,012.50	3,759.09	3,706.43	52.66	71.381		
4,600.00	4,285.64	5,025.98	4,750.65	33.52	30.02	100.33	-3,261.13	2,013.82	3,751.72	3,698.18	53.54	70.069		
4,700.00	4,377.16	5,080.00	4,804.22	34.36	30.22	100.62	-3,254.35	2,015.48	3,746.20	3,691.74	54.46	68.783		
4,800.00	4,468.69	5,080.00	4,804.22	35.19	30.22	100.62	-3,254.35	2,015.48	3,742.35	3,687.18	55.17	67.835		
4,900.00	4,560.22	5,140.05	4,863.93	36.03	30.42	100.96	-3,248.18	2,016.95	3,740.03	3,683.95	56.08	66.694		
4,981.54	4,634.85	5,174.00	4,897.75	36.71	30.53	101.15	-3,245.30	2,017.53	3,739.50	3,682.75	56.75	65.890		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 792-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CN - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,651.75	5,174.00	4,897.75	36.87	30.53	101.15	-3,245.30	2,017.53	3,739.55	3,682.67	56.88	65.750			
5,100.00	4,743.27	5,227.63	4,951.24	37.70	30.67	101.47	-3,241.48	2,018.17	3,740.63	3,682.90	57.73	64.796			
5,200.00	4,834.80	5,268.00	4,991.54	38.54	30.79	101.70	-3,239.10	2,018.45	3,743.23	3,684.72	58.52	63.966			
5,300.00	4,926.33	5,324.49	5,047.97	39.38	30.93	102.04	-3,236.45	2,018.62	3,747.29	3,687.93	59.36	63.131			
5,400.00	5,017.86	5,375.96	5,099.41	40.21	31.05	102.35	-3,234.69	2,018.58	3,752.80	3,692.64	60.16	62.376			
5,500.00	5,109.38	5,434.63	5,158.06	41.05	31.18	102.70	-3,233.23	2,018.42	3,759.60	3,698.61	60.99	61.642			
5,600.00	5,200.91	6,363.49	5,999.25	41.89	34.99	104.51	-3,116.98	2,246.83	3,758.30	3,691.68	66.62	56.416			
5,700.00	5,292.44	6,397.00	6,013.79	42.73	35.22	104.17	-3,111.35	2,276.48	3,746.39	3,678.56	67.83	55.232			
5,800.00	5,383.97	6,397.00	6,013.79	43.56	35.22	104.17	-3,111.35	2,276.48	3,736.56	3,667.94	68.62	54.453			
5,900.00	5,475.51	6,397.00	6,013.79	44.40	35.22	100.54	-3,111.35	2,276.48	3,729.15	3,659.78	69.37	53.757			
6,000.00	5,567.37	6,397.00	6,013.79	45.19	35.22	77.50	-3,111.35	2,276.48	3,713.16	3,643.09	70.07	52.992			
6,100.00	5,657.57	6,439.85	6,030.27	45.89	35.47	57.92	-3,106.13	2,315.68	3,681.41	3,610.11	71.30	51.635			
6,200.00	5,743.38	6,451.55	6,034.61	46.48	35.54	44.88	-3,105.10	2,326.50	3,636.34	3,564.35	71.98	50.516			
6,300.00	5,822.18	6,492.00	6,049.08	46.95	35.79	36.07	-3,102.86	2,364.20	3,578.85	3,505.87	72.99	49.035			
6,400.00	5,891.60	6,492.00	6,049.08	47.31	35.79	30.76	-3,102.86	2,364.20	3,508.50	3,435.20	73.30	47.867			
6,500.00	5,949.50	6,492.00	6,049.08	47.58	35.79	27.33	-3,102.86	2,364.20	3,427.98	3,354.46	73.52	46.628			
6,600.00	5,994.15	6,492.00	6,049.08	47.76	35.79	25.15	-3,102.86	2,364.20	3,339.11	3,265.45	73.66	45.332			
6,700.00	6,024.17	6,492.00	6,049.08	47.86	35.79	23.94	-3,102.86	2,364.20	3,244.02	3,170.28	73.74	43.994			
6,800.00	6,038.67	6,492.00	6,049.08	47.91	35.79	23.95	-3,102.86	2,364.20	3,145.17	3,071.40	73.77	42.635			
6,900.00	6,040.00	6,492.00	6,049.08	47.93	35.79	-160.56	-3,102.86	2,364.20	3,045.19	2,971.42	73.77	41.278			
7,000.00	6,040.00	6,492.00	6,049.08	47.98	35.79	-160.56	-3,102.86	2,364.20	2,945.20	2,871.43	73.77	39.923			
7,100.00	6,040.00	6,492.00	6,049.08	48.09	35.79	-160.56	-3,102.86	2,364.20	2,845.21	2,771.44	73.77	38.567			
7,200.00	6,040.00	6,492.00	6,049.08	48.23	35.79	-160.56	-3,102.86	2,364.20	2,745.22	2,671.45	73.78	37.211			
7,300.00	6,040.00	6,492.00	6,049.08	48.43	35.79	-160.56	-3,102.86	2,364.20	2,645.23	2,571.46	73.78	35.855			
7,400.00	6,040.00	6,492.00	6,049.08	48.67	35.79	-160.56	-3,102.86	2,364.20	2,545.24	2,471.47	73.78	34.498			
7,500.00	6,040.00	6,492.00	6,049.08	48.97	35.79	-160.56	-3,102.86	2,364.20	2,445.26	2,371.48	73.78	33.142			
7,600.00	6,040.00	6,492.00	6,049.08	49.32	35.79	-160.56	-3,102.86	2,364.20	2,345.27	2,271.49	73.78	31.786			
7,700.00	6,040.00	6,492.00	6,049.08	49.73	35.79	-160.56	-3,102.86	2,364.20	2,245.29	2,171.50	73.79	30.429			
7,800.00	6,040.00	6,492.00	6,049.08	50.19	35.79	-160.56	-3,102.86	2,364.20	2,145.30	2,071.51	73.79	29.073			
7,900.00	6,040.00	6,492.00	6,049.08	50.71	35.79	-160.56	-3,102.86	2,364.20	2,045.32	1,971.53	73.79	27.717			
8,000.00	6,040.00	6,492.00	6,049.08	51.29	35.79	-160.56	-3,102.86	2,364.20	1,945.34	1,871.54	73.80	26.361			
8,100.00	6,040.00	6,492.00	6,049.08	51.93	35.79	-160.56	-3,102.86	2,364.20	1,845.36	1,771.56	73.80	25.004			
8,200.00	6,040.00	6,492.00	6,049.08	52.63	35.79	-160.56	-3,102.86	2,364.20	1,745.39	1,671.58	73.81	23.649			
8,300.00	6,040.00	6,492.00	6,049.08	53.39	35.79	-160.56	-3,102.86	2,364.20	1,645.41	1,571.61	73.81	22.293			
8,400.00	6,040.00	6,492.00	6,049.08	54.20	35.79	-160.56	-3,102.86	2,364.20	1,545.45	1,471.63	73.81	20.937			
8,500.00	6,040.00	6,492.00	6,049.08	55.07	35.79	-160.56	-3,102.86	2,364.20	1,445.48	1,371.66	73.82	19.582			
8,600.00	6,040.00	6,492.00	6,049.08	55.99	35.79	-160.56	-3,102.86	2,364.20	1,345.52	1,271.70	73.82	18.227			
8,700.00	6,040.00	6,492.00	6,049.08	56.97	35.79	-160.56	-3,102.86	2,364.20	1,245.57	1,171.74	73.82	16.872			
8,800.00	6,040.00	6,492.00	6,049.08	57.99	35.79	-160.56	-3,102.86	2,364.20	1,145.63	1,071.80	73.83	15.518			
8,900.00	6,040.00	6,492.00	6,049.08	59.06	35.79	-160.56	-3,102.86	2,364.20	1,045.69	971.86	73.83	14.164			
9,000.00	6,040.00	6,492.00	6,049.08	60.17	35.79	-160.56	-3,102.86	2,364.20	945.77	871.94	73.83	12.811			
9,100.00	6,040.00	6,492.00	6,049.08	61.32	35.79	-160.56	-3,102.86	2,364.20	845.87	772.05	73.82	11.458			
9,200.00	6,040.00	6,492.00	6,049.08	62.51	35.79	-160.56	-3,102.86	2,364.20	746.00	672.18	73.82	10.106			
9,300.00	6,040.00	6,492.00	6,049.08	63.73	35.79	-160.56	-3,102.86	2,364.20	646.16	572.36	73.80	8.756			
9,400.00	6,040.00	6,492.00	6,049.08	64.98	35.79	-160.56	-3,102.86	2,364.20	546.39	472.62	73.77	7.407			
9,500.00	6,040.00	6,477.73	6,044.07	66.27	35.70	179.83	-3,103.42	2,350.85	446.36	372.17	74.19	6.016			
9,600.00	6,040.00	6,475.91	6,043.43	67.58	35.69	176.78	-3,103.51	2,349.15	346.70	272.29	74.41	4.659			
9,700.00	6,040.00	6,473.74	6,042.66	68.92	35.68	173.01	-3,103.62	2,347.13	247.28	172.46	74.83	3.305			
9,800.00	6,040.00	6,471.11	6,041.72	70.29	35.66	168.25	-3,103.76	2,344.67	148.61	72.84	75.77	1.961			
9,900.00	6,040.00	6,467.83	6,040.54	71.67	35.64	162.17	-3,103.95	2,341.62	54.77	-22.92	77.68	0.705 Level 1			
9,945.56	6,040.00	6,466.06	6,039.90	72.31	35.63	158.85	-3,104.06	2,339.97	30.45	-33.80	64.26	0.474 Level 1, CC, ES, SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 792-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CN - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	6,040.00	6,463.65	6,039.03	73.08	35.61	154.33	-3,104.22	2,337.73	62.34	-0.83	63.17	0.987	Level 1		
10,100.00	6,040.00	6,458.14	6,037.03	74.51	35.58	144.27	-3,104.60	2,332.61	157.26	88.49	68.77	2.287			
10,200.00	6,040.00	6,450.53	6,034.24	75.95	35.53	131.81	-3,105.18	2,325.56	255.95	186.10	69.85	3.664			
10,300.00	6,040.00	6,439.37	6,030.09	77.41	35.47	117.47	-3,106.18	2,315.24	355.21	285.26	69.95	5.078			
10,400.00	6,040.00	10,400.00	6,003.87	78.89	87.98	85.22	-3,115.36	2,259.84	454.40	340.99	113.40	4.007			
10,500.00	6,040.00	6,386.14	6,009.36	80.38	35.15	88.55	-3,113.04	2,266.71	553.69	485.49	68.20	8.118			
10,600.00	6,040.00	6,296.98	5,963.15	81.88	34.55	73.03	-3,131.83	2,193.11	651.58	586.27	65.31	9.977			
10,700.00	6,040.00	6,248.96	5,931.53	83.40	34.21	67.44	-3,144.49	2,159.32	747.96	683.44	64.53	11.591			
10,800.00	6,040.00	6,198.52	5,893.83	84.93	33.87	62.21	-3,158.52	2,128.94	843.64	779.76	63.88	13.207			
10,900.00	6,040.00	6,158.25	5,861.34	86.47	33.60	58.43	-3,169.94	2,108.10	938.96	875.38	63.58	14.768			
11,000.00	6,040.00	6,117.25	5,826.57	88.02	33.33	54.88	-3,181.61	2,089.79	1,034.09	970.76	63.33	16.329			
11,100.00	6,040.00	6,096.94	5,808.79	89.58	33.21	53.21	-3,187.28	2,081.79	1,129.30	1,065.87	63.43	17.804			
11,200.00	6,040.00	6,079.92	5,793.63	91.15	33.10	51.86	-3,191.82	2,075.54	1,224.88	1,161.32	63.56	19.271			
11,300.00	6,040.00	6,064.32	5,779.53	92.73	33.01	50.65	-3,195.80	2,070.17	1,320.81	1,257.12	63.70	20.736			
11,400.00	6,040.00	6,049.98	5,766.41	94.31	32.93	49.56	-3,199.30	2,065.56	1,417.05	1,353.22	63.83	22.200			
11,500.00	6,040.00	6,036.77	5,754.20	95.91	32.85	48.58	-3,202.40	2,061.58	1,513.56	1,449.60	63.96	23.662			
11,600.00	6,040.00	6,020.00	5,738.54	97.51	32.75	47.36	-3,206.14	2,056.91	1,610.34	1,546.28	64.06	25.140			
11,700.00	6,040.00	6,020.00	5,738.54	99.11	32.75	47.36	-3,206.14	2,056.91	1,707.34	1,643.06	64.28	26.562			
11,800.00	6,040.00	6,020.00	5,738.54	100.73	32.75	47.36	-3,206.14	2,056.91	1,804.67	1,740.19	64.48	27.988			
11,900.00	6,040.00	6,020.00	5,738.54	102.35	32.75	47.36	-3,206.14	2,056.91	1,902.28	1,837.61	64.67	29.417			
12,000.00	6,040.00	6,020.00	5,738.54	103.97	32.75	47.36	-3,206.14	2,056.91	2,000.12	1,935.28	64.84	30.847			
12,100.00	6,040.00	5,988.67	5,708.88	105.60	32.61	45.17	-3,212.40	2,049.00	2,097.44	2,032.65	64.80	32.370			
12,200.00	6,040.00	5,983.17	5,703.62	107.24	32.58	44.80	-3,213.38	2,047.70	2,195.40	2,130.48	64.91	33.820			
12,300.00	6,040.00	5,978.02	5,698.69	108.88	32.56	44.46	-3,214.28	2,046.52	2,293.49	2,228.46	65.03	35.270			
12,400.00	6,040.00	5,973.21	5,694.08	110.53	32.53	44.14	-3,215.08	2,045.43	2,391.71	2,326.57	65.13	36.720			
12,500.00	6,040.00	5,968.69	5,689.74	112.18	32.51	43.85	-3,215.82	2,044.42	2,490.04	2,424.80	65.23	38.170			
12,600.00	6,040.00	5,964.45	5,685.65	113.83	32.49	43.58	-3,216.48	2,043.50	2,588.47	2,523.14	65.33	39.620			
12,700.00	6,040.00	5,960.46	5,681.80	115.49	32.48	43.32	-3,217.09	2,042.64	2,686.99	2,621.57	65.42	41.070			
12,800.00	6,040.00	5,926.00	5,648.32	117.16	32.32	41.19	-3,221.61	2,035.87	2,786.25	2,720.89	65.37	42.625			
12,900.00	6,040.00	5,926.00	5,648.32	118.82	32.32	41.19	-3,221.61	2,035.87	2,884.79	2,819.32	65.47	44.063			
13,000.00	6,040.00	5,926.00	5,648.32	120.49	32.32	41.19	-3,221.61	2,035.87	2,983.43	2,917.86	65.57	45.501			
13,100.00	6,040.00	5,926.00	5,648.32	122.16	32.32	41.19	-3,221.61	2,035.87	3,082.16	3,016.49	65.66	46.938			
13,200.00	6,040.00	5,926.00	5,648.32	123.84	32.32	41.19	-3,221.61	2,035.87	3,180.96	3,115.21	65.76	48.376			
13,300.00	6,040.00	5,926.00	5,648.32	125.52	32.32	41.19	-3,221.61	2,035.87	3,279.84	3,214.00	65.84	49.813			
13,400.00	6,040.00	5,926.00	5,648.32	127.20	32.32	41.19	-3,221.61	2,035.87	3,378.78	3,312.86	65.93	51.249			
13,500.00	6,040.00	5,926.00	5,648.32	128.89	32.32	41.19	-3,221.61	2,035.87	3,477.79	3,411.78	66.01	52.685			
13,600.00	6,040.00	5,926.00	5,648.32	130.58	32.32	41.19	-3,221.61	2,035.87	3,576.85	3,510.76	66.09	54.120			
13,700.00	6,040.00	5,926.00	5,648.32	132.27	32.32	41.19	-3,221.61	2,035.87	3,675.96	3,609.79	66.17	55.554			
13,800.00	6,040.00	5,926.00	5,648.32	133.96	32.32	41.19	-3,221.61	2,035.87	3,775.12	3,708.87	66.24	56.988			
13,900.00	6,040.00	5,926.00	5,648.32	135.66	32.32	41.19	-3,221.61	2,035.87	3,874.32	3,808.00	66.32	58.420			
14,000.00	6,040.00	5,926.00	5,648.32	137.35	32.32	41.19	-3,221.61	2,035.87	3,973.56	3,907.17	66.39	59.851			
14,100.00	6,040.00	5,926.00	5,648.32	139.05	32.32	41.19	-3,221.61	2,035.87	4,072.83	4,006.37	66.46	61.281			
14,200.00	6,040.00	5,926.00	5,648.32	140.75	32.32	41.19	-3,221.61	2,035.87	4,172.15	4,105.62	66.53	62.710			
14,300.00	6,040.00	5,926.00	5,648.32	142.46	32.32	41.19	-3,221.61	2,035.87	4,271.49	4,204.89	66.60	64.138			
14,400.00	6,040.00	5,926.00	5,648.32	144.17	32.32	41.19	-3,221.61	2,035.87	4,370.87	4,304.20	66.67	65.564			
14,500.00	6,040.00	5,926.00	5,648.32	145.87	32.32	41.19	-3,221.61	2,035.87	4,470.27	4,403.54	66.73	66.988			
14,600.00	6,040.00	5,926.00	5,648.32	147.58	32.32	41.19	-3,221.61	2,035.87	4,569.70	4,502.90	66.80	68.412			
14,700.00	6,040.00	5,926.00	5,648.32	149.29	32.32	41.19	-3,221.61	2,035.87	4,669.15	4,602.29	66.86	69.833			
14,800.00	6,040.00	5,926.00	5,648.32	151.01	32.32	41.19	-3,221.61	2,035.87	4,768.62	4,701.70	66.92	71.253			
14,900.00	6,040.00	5,926.00	5,648.32	152.72	32.32	41.19	-3,221.61	2,035.87	4,868.12	4,801.13	66.99	72.672			
15,000.00	6,040.00	5,926.00	5,648.32	154.44	32.32	41.19	-3,221.61	2,035.87	4,967.64	4,900.59	67.05	74.089			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 792-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CN - OWB - FINAL SURVEY														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	6,040.00	5,926.00	5,648.32	156.16	32.32	41.19	-3,221.61	2,035.87	5,067.18	5,000.06	67.11	75.504		
15,200.00	6,040.00	5,926.00	5,648.32	157.88	32.32	41.19	-3,221.61	2,035.87	5,166.73	5,099.56	67.17	76.917		
15,300.00	6,040.00	5,926.00	5,648.32	159.60	32.32	41.19	-3,221.61	2,035.87	5,266.30	5,199.07	67.23	78.328		
15,400.00	6,040.00	5,926.00	5,648.32	161.32	32.32	41.19	-3,221.61	2,035.87	5,365.89	5,298.59	67.29	79.738		
15,500.00	6,040.00	5,926.00	5,648.32	163.04	32.32	41.19	-3,221.61	2,035.87	5,465.49	5,398.14	67.35	81.146		
15,600.00	6,040.00	5,926.00	5,648.32	164.77	32.32	41.19	-3,221.61	2,035.87	5,565.11	5,497.69	67.41	82.552		
15,700.00	6,040.00	5,926.00	5,648.32	166.49	32.32	41.19	-3,221.61	2,035.87	5,664.74	5,597.26	67.47	83.956		
15,800.00	6,040.00	5,926.00	5,648.32	168.22	32.32	41.19	-3,221.61	2,035.87	5,764.38	5,696.85	67.53	85.358		
15,900.00	6,040.00	5,926.00	5,648.32	169.95	32.32	41.19	-3,221.61	2,035.87	5,864.03	5,796.44	67.59	86.757		
16,000.00	6,040.00	5,888.26	5,611.22	171.68	32.20	38.97	-3,225.17	2,029.97	5,962.99	5,895.46	67.53	88.302		
16,100.00	6,040.00	5,887.04	5,610.01	173.41	32.20	38.90	-3,225.27	2,029.81	6,062.62	5,995.04	67.58	89.704		
16,200.00	6,040.00	5,885.85	5,608.84	175.14	32.19	38.83	-3,225.36	2,029.66	6,162.26	6,094.62	67.64	91.104		
16,300.00	6,040.00	5,884.70	5,607.70	176.88	32.19	38.76	-3,225.44	2,029.51	6,261.92	6,194.22	67.69	92.503		
16,400.00	6,040.00	5,883.58	5,606.59	178.61	32.19	38.70	-3,225.52	2,029.37	6,361.58	6,293.83	67.75	93.899		
16,500.00	6,040.00	5,882.49	5,605.52	180.34	32.18	38.64	-3,225.60	2,029.24	6,461.25	6,393.45	67.80	95.293		
16,600.00	6,040.00	5,881.44	5,604.47	182.08	32.18	38.58	-3,225.68	2,029.11	6,560.93	6,493.07	67.86	96.684		
16,700.00	6,040.00	5,880.41	5,603.45	183.82	32.18	38.52	-3,225.75	2,028.98	6,660.62	6,592.70	67.91	98.074		
16,800.00	6,040.00	5,879.40	5,602.46	185.56	32.17	38.46	-3,225.82	2,028.86	6,760.32	6,692.35	67.97	99.461		
16,865.66	6,040.00	5,878.76	5,601.82	186.70	32.17	38.42	-3,225.86	2,028.78	6,825.78	6,757.77	68.01	100.371		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 897-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CS - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	1,097.57	1,081.96	0.00	3.50	158.58	-4,630.75	1,816.42	5,096.70							
100.00	100.00	1,159.83	1,141.79	0.13	3.85	158.45	-4,614.46	1,821.96	5,075.26	5,071.52	3.74	1,356.114				
200.00	199.98	1,233.12	1,212.36	0.49	4.27	84.38	-4,595.75	1,828.39	5,054.26	5,049.99	4.27	1,183.269				
300.00	299.84	1,306.73	1,283.34	0.86	4.68	84.70	-4,577.32	1,834.78	5,033.39	5,028.48	4.91	1,025.467				
400.00	399.45	400.00	1,392.77	1.23	0.45	85.02	-4,549.09	1,844.54	5,012.35	5,010.31	2.03	2,465.532				
500.00	498.70	2,225.85	2,151.45	1.63	10.51	84.94	-4,290.44	1,905.63	4,982.85	4,972.59	10.26	485.524				
600.00	597.47	2,327.47	2,244.08	2.05	11.28	85.59	-4,249.79	1,915.47	4,947.40	4,936.18	11.21	441.235				
700.00	695.62	2,411.80	2,320.71	2.51	11.92	86.29	-4,215.77	1,924.41	4,911.67	4,899.57	12.11	405.681				
800.00	793.06	2,487.21	2,389.35	3.00	12.50	87.03	-4,185.58	1,932.41	4,876.03	4,863.04	12.99	375.230				
900.00	889.64	2,566.82	2,461.71	3.54	13.11	87.80	-4,153.71	1,941.79	4,840.59	4,826.64	13.95	346.927				
1,000.00	985.27	2,680.91	2,565.49	4.13	13.99	88.63	-4,108.12	1,954.69	4,804.96	4,789.81	15.15	317.196				
1,100.00	1,079.82	2,799.47	2,673.45	4.77	14.89	89.56	-4,060.59	1,966.58	4,768.72	4,752.32	16.40	290.771				
1,200.00	1,173.17	2,870.57	2,738.29	5.46	15.43	90.46	-4,032.16	1,973.17	4,732.37	4,714.93	17.44	271.410				
1,300.00	1,265.23	2,924.00	2,787.29	6.21	15.83	91.27	-4,011.35	1,977.62	4,696.75	4,678.32	18.43	254.839				
1,400.00	1,356.75	2,980.19	2,839.12	7.00	16.24	91.43	-3,990.06	1,981.83	4,661.95	4,642.50	19.46	239.575				
1,500.00	1,448.28	3,018.00	2,874.16	7.80	16.51	91.54	-3,976.09	1,984.41	4,628.05	4,607.63	20.41	226.705				
1,600.00	1,539.81	3,070.32	2,922.79	8.60	16.88	91.70	-3,957.19	1,988.27	4,595.13	4,573.68	21.45	214.237				
1,700.00	1,631.34	3,112.00	2,961.61	9.41	17.17	91.82	-3,942.46	1,991.98	4,563.37	4,540.93	22.44	203.332				
1,800.00	1,722.86	3,151.89	2,998.87	10.23	17.44	91.94	-3,928.73	1,995.79	4,532.76	4,509.33	23.44	193.407				
1,900.00	1,814.39	3,206.00	3,049.67	11.05	17.80	92.10	-3,910.84	2,000.93	4,503.37	4,478.87	24.50	183.798				
2,000.00	1,905.92	3,246.31	3,087.71	11.87	18.06	92.22	-3,898.00	2,004.54	4,475.00	4,449.50	25.50	175.506				
2,100.00	1,997.45	3,308.46	3,146.65	12.69	18.46	92.43	-3,878.85	2,009.31	4,447.49	4,420.90	26.59	167.259				
2,200.00	2,088.97	3,390.72	3,224.78	13.52	18.98	92.71	-3,853.89	2,015.52	4,420.54	4,392.78	27.76	159.223				
2,300.00	2,180.50	3,454.83	3,285.67	14.35	19.38	92.92	-3,834.57	2,020.87	4,394.14	4,365.27	28.87	152.223				
2,400.00	2,272.03	3,488.00	3,317.20	15.17	19.59	93.03	-3,824.70	2,023.83	4,368.66	4,338.81	29.84	146.395				
2,500.00	2,363.56	3,538.17	3,365.10	16.00	19.88	93.20	-3,810.41	2,028.13	4,344.34	4,313.46	30.88	140.683				
2,600.00	2,455.08	3,582.00	3,407.26	16.83	20.14	93.36	-3,798.89	2,031.47	4,321.58	4,289.69	31.89	135.502				
2,700.00	2,546.61	3,612.91	3,437.11	17.66	20.31	93.48	-3,791.21	2,033.71	4,300.17	4,267.33	32.85	130.922				
2,800.00	2,638.14	3,676.00	3,498.23	18.50	20.65	93.72	-3,776.30	2,038.44	4,280.17	4,246.25	33.92	126.185				
2,900.00	2,729.67	3,676.00	3,498.23	19.33	20.65	93.72	-3,776.30	2,038.44	4,261.41	4,226.67	34.75	122.636				
3,000.00	2,821.19	3,732.48	3,553.19	20.16	20.93	93.94	-3,764.03	2,042.75	4,243.95	4,208.17	35.79	118.591				
3,100.00	2,912.72	3,770.00	3,589.85	20.99	21.12	94.09	-3,756.55	2,045.60	4,228.10	4,191.35	36.75	115.052				
3,200.00	3,004.25	3,800.91	3,620.14	21.83	21.25	94.21	-3,750.86	2,047.88	4,213.79	4,176.12	37.67	111.850				
3,300.00	3,095.78	3,832.82	3,651.53	22.66	21.40	94.35	-3,745.49	2,050.09	4,201.09	4,162.50	38.60	108.850				
3,400.00	3,187.30	3,864.00	3,682.27	23.50	21.53	94.48	-3,740.75	2,052.12	4,190.03	4,150.52	39.51	106.056				
3,500.00	3,278.83	3,919.48	3,737.14	24.33	21.75	94.73	-3,733.14	2,055.12	4,180.34	4,139.85	40.49	103.250				
3,600.00	3,370.36	3,959.00	3,776.32	25.16	21.90	94.91	-3,728.19	2,056.67	4,171.86	4,130.45	41.41	100.756				
3,700.00	3,461.89	4,018.75	3,835.68	26.00	22.10	95.21	-3,721.57	2,057.99	4,164.58	4,122.22	42.37	98.298				
3,800.00	3,553.41	4,053.00	3,869.78	26.83	22.22	95.39	-3,718.29	2,058.17	4,158.73	4,115.49	43.24	96.181				
3,900.00	3,644.94	4,089.18	3,905.84	27.67	22.32	95.58	-3,715.39	2,058.03	4,154.49	4,110.40	44.09	94.220				
4,000.00	3,736.47	4,146.00	3,962.57	28.51	22.47	95.90	-3,712.35	2,057.44	4,152.37	4,107.36	45.00	92.265				
4,090.38	3,819.19	4,146.00	3,962.57	29.26	22.47	95.90	-3,712.35	2,057.44	4,151.38	4,105.73	45.65	90.931				
4,100.00	3,828.00	4,146.00	3,962.57	29.34	22.47	95.90	-3,712.35	2,057.44	4,151.39	4,105.67	45.72	90.796				
4,200.00	3,919.52	4,206.12	4,022.65	30.18	22.61	96.24	-3,710.33	2,056.58	4,152.17	4,105.55	46.62	89.067				
4,300.00	4,011.05	4,270.96	4,087.47	31.01	22.76	96.60	-3,708.64	2,055.66	4,154.01	4,106.48	47.53	87.405				
4,400.00	4,102.58	4,335.00	4,151.48	31.85	22.90	96.97	-3,707.30	2,054.74	4,156.74	4,108.32	48.43	85.837				
4,500.00	4,194.11	4,375.68	4,192.16	32.68	22.98	97.20	-3,706.80	2,054.29	4,160.76	4,111.52	49.23	84.510				
4,600.00	4,285.64	4,429.00	4,245.48	33.52	23.09	97.49	-3,706.98	2,054.12	4,166.43	4,116.35	50.08	83.199				
4,700.00	4,377.16	4,429.00	4,245.48	34.36	23.09	97.49	-3,706.98	2,054.12	4,173.66	4,122.95	50.71	82.300				
4,800.00	4,468.69	4,482.05	4,298.51	35.19	23.18	97.78	-3,708.20	2,054.25	4,182.35	4,130.83	51.53	81.170				
4,900.00	4,560.22	4,523.00	4,339.43	36.03	23.25	98.01	-3,709.92	2,054.42	4,192.82	4,140.54	52.28	80.193				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 897-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CS - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,651.75	4,602.35	4,418.68	36.87	23.37	98.44	-3,713.84	2,054.81	4,204.43	4,151.24	53.19	79.051				
5,100.00	4,743.27	4,700.73	4,516.94	37.70	23.53	98.98	-3,718.51	2,055.29	4,216.27	4,162.10	54.17	77.837				
5,200.00	4,834.80	4,778.11	4,594.24	38.54	23.66	99.40	-3,722.23	2,055.62	4,228.52	4,173.46	55.06	76.792				
5,300.00	4,926.33	5,042.02	4,858.03	39.38	24.17	100.84	-3,728.92	2,054.91	4,238.23	4,181.50	56.73	74.708				
5,400.00	5,017.86	5,139.30	4,955.30	40.21	24.38	101.37	-3,729.93	2,054.02	4,247.73	4,190.00	57.73	73.579				
5,500.00	5,109.38	5,232.43	5,048.43	41.05	24.58	101.88	-3,730.57	2,053.75	4,257.32	4,198.60	58.72	72.508				
5,600.00	5,200.91	5,328.40	5,144.39	41.89	24.79	102.39	-3,731.35	2,053.56	4,267.39	4,207.68	59.71	71.464				
5,700.00	5,292.44	5,425.64	5,241.63	42.73	25.01	102.90	-3,731.85	2,054.00	4,277.55	4,216.83	60.72	70.444				
5,800.00	5,383.97	5,894.11	5,700.19	43.56	26.47	104.55	-3,715.31	2,114.87	4,286.31	4,222.73	63.58	67.415				
5,900.00	5,475.51	5,932.00	5,732.03	44.40	26.66	100.83	-3,712.85	2,135.23	4,289.54	4,224.99	64.55	66.453				
6,000.00	5,567.37	5,932.00	5,732.03	45.19	26.66	77.78	-3,712.85	2,135.23	4,282.90	4,217.68	65.22	65.669				
6,100.00	5,657.57	6,026.00	5,808.20	45.89	27.09	58.40	-3,708.17	2,190.11	4,259.93	4,193.31	66.63	63.939				
6,200.00	5,743.38	6,081.07	5,851.71	46.48	27.36	45.33	-3,705.63	2,223.76	4,220.98	4,153.30	67.68	62.364				
6,300.00	5,822.18	6,120.00	5,881.48	46.95	27.55	36.98	-3,704.38	2,248.82	4,167.75	4,099.24	68.51	60.835				
6,400.00	5,891.60	6,120.00	5,881.48	47.31	27.55	31.82	-3,704.38	2,248.82	4,101.72	4,032.85	68.87	59.555				
6,500.00	5,949.50	6,120.00	5,881.48	47.58	27.55	28.64	-3,704.38	2,248.82	4,024.75	3,955.61	69.15	58.205				
6,600.00	5,994.15	6,160.50	5,910.75	47.76	27.75	26.47	-3,703.96	2,276.78	3,937.75	3,867.96	69.79	56.422				
6,700.00	6,024.17	6,168.30	5,916.09	47.86	27.79	25.88	-3,704.02	2,282.46	3,844.15	3,774.15	70.00	54.917				
6,800.00	6,038.67	6,172.54	5,918.95	47.91	27.81	28.69	-3,704.08	2,285.59	3,746.02	3,675.91	70.11	53.432				
6,900.00	6,040.00	6,173.68	5,919.71	47.93	27.82	40.63	-3,704.09	2,286.44	3,646.16	3,576.01	70.14	51.983				
7,000.00	6,040.00	6,174.52	5,920.28	47.98	27.82	40.58	-3,704.11	2,287.07	3,546.21	3,476.04	70.17	50.539				
7,100.00	6,040.00	6,175.40	5,920.86	48.09	27.83	40.52	-3,704.12	2,287.72	3,446.27	3,376.07	70.20	49.094				
7,200.00	6,040.00	6,176.32	5,921.48	48.23	27.83	40.46	-3,704.14	2,288.41	3,346.33	3,276.10	70.23	47.650				
7,300.00	6,040.00	6,177.28	5,922.11	48.43	27.84	40.40	-3,704.15	2,289.13	3,246.40	3,176.14	70.26	46.206				
7,400.00	6,040.00	6,178.28	5,922.78	48.67	27.84	40.33	-3,704.17	2,289.88	3,146.46	3,076.17	70.29	44.763				
7,500.00	6,040.00	6,179.33	5,923.47	48.97	27.85	40.25	-3,704.19	2,290.66	3,046.53	2,976.21	70.33	43.320				
7,600.00	6,040.00	6,180.43	5,924.19	49.32	27.85	40.17	-3,704.21	2,291.49	2,946.61	2,876.24	70.36	41.877				
7,700.00	6,040.00	6,181.58	5,924.95	49.73	27.86	40.08	-3,704.24	2,292.36	2,846.68	2,776.28	70.40	40.435				
7,800.00	6,040.00	6,182.79	5,925.74	50.19	27.86	39.99	-3,704.26	2,293.27	2,746.76	2,676.32	70.44	38.993				
7,900.00	6,040.00	6,184.06	5,926.57	50.71	27.87	39.88	-3,704.29	2,294.23	2,646.85	2,576.36	70.49	37.552				
8,000.00	6,040.00	6,185.40	5,927.44	51.29	27.88	39.76	-3,704.33	2,295.25	2,546.94	2,476.41	70.53	36.111				
8,100.00	6,040.00	6,215.00	5,945.89	51.93	28.04	35.54	-3,705.38	2,318.36	2,447.52	2,376.73	70.79	34.573				
8,200.00	6,040.00	6,215.00	5,945.89	52.63	28.04	35.54	-3,705.38	2,318.36	2,347.58	2,276.76	70.82	33.149				
8,300.00	6,040.00	6,215.00	5,945.89	53.39	28.04	35.54	-3,705.38	2,318.36	2,247.64	2,176.79	70.85	31.724				
8,400.00	6,040.00	6,215.00	5,945.89	54.20	28.04	35.54	-3,705.38	2,318.36	2,147.71	2,076.83	70.88	30.300				
8,500.00	6,040.00	6,215.00	5,945.89	55.07	28.04	35.54	-3,705.38	2,318.36	2,047.78	1,976.86	70.92	28.876				
8,600.00	6,040.00	6,215.00	5,945.89	55.99	28.04	35.54	-3,705.38	2,318.36	1,947.86	1,876.91	70.95	27.452				
8,700.00	6,040.00	6,215.00	5,945.89	56.97	28.04	35.54	-3,705.38	2,318.36	1,847.95	1,776.96	71.00	26.029				
8,800.00	6,040.00	6,215.00	5,945.89	57.99	28.04	35.54	-3,705.38	2,318.36	1,748.05	1,677.01	71.04	24.606				
8,900.00	6,040.00	6,215.00	5,945.89	59.06	28.04	35.54	-3,705.38	2,318.36	1,648.17	1,577.07	71.09	23.184				
9,000.00	6,040.00	6,215.00	5,945.89	60.17	28.04	35.54	-3,705.38	2,318.36	1,548.29	1,477.15	71.15	21.762				
9,100.00	6,040.00	6,215.00	5,945.89	61.32	28.04	35.54	-3,705.38	2,318.36	1,448.44	1,377.23	71.21	20.340				
9,200.00	6,040.00	6,215.00	5,945.89	62.51	28.04	35.54	-3,705.38	2,318.36	1,348.61	1,277.33	71.28	18.920				
9,300.00	6,040.00	6,215.00	5,945.89	63.73	28.04	35.54	-3,705.38	2,318.36	1,248.80	1,177.44	71.36	17.500				
9,400.00	6,040.00	6,215.97	5,946.47	64.98	28.04	35.32	-3,705.43	2,319.14	1,149.03	1,077.58	71.45	16.082				
9,500.00	6,040.00	6,222.30	5,950.24	66.27	28.07	33.81	-3,705.72	2,324.22	1,049.27	977.74	71.53	14.669				
9,600.00	6,040.00	6,228.67	5,954.02	67.58	28.11	32.00	-3,706.02	2,329.33	949.52	877.92	71.60	13.262				
9,700.00	6,040.00	6,235.07	5,957.81	68.92	28.14	29.81	-3,706.33	2,334.49	849.78	778.13	71.65	11.861				
9,800.00	6,040.00	6,241.52	5,961.61	70.29	28.18	27.14	-3,706.64	2,339.68	750.05	678.38	71.68	10.464				
9,900.00	6,040.00	6,248.01	5,965.42	71.67	28.21	23.83	-3,706.95	2,344.92	650.34	578.67	71.67	9.074				
10,000.00	6,040.00	6,254.53	5,969.25	73.08	28.25	19.64	-3,707.26	2,350.20	550.66	479.05	71.61	7.690				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CS - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 897-MWD OWSG														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	6,040.00	6,261.10	5,973.08	74.51	28.29	14.26	-3,707.57	2,355.52	451.01	379.56	71.45	6.312		
10,200.00	6,040.00	6,267.71	5,976.92	75.95	28.32	7.27	-3,707.89	2,360.89	351.45	280.32	71.13	4.941		
10,300.00	6,040.00	6,274.35	5,980.78	77.41	28.36	-1.85	-3,708.22	2,366.30	252.05	181.61	70.43	3.578		
10,400.00	6,040.00	6,281.04	5,984.64	78.89	28.40	-13.47	-3,708.54	2,371.75	153.13	84.45	68.68	2.230		
10,500.00	6,040.00	6,287.78	5,988.52	80.38	28.44	-27.41	-3,708.87	2,377.24	57.26	-4.86	62.13	0.922	Level 1	
10,551.32	6,040.00	6,291.25	5,990.51	81.15	28.46	-35.10	-3,709.04	2,380.08	25.65	-53.78	79.43	0.323	Level 1, CC, ES, SF	
10,600.00	6,040.00	6,294.55	5,992.41	81.88	28.48	-42.42	-3,709.20	2,382.78	54.93	-31.10	86.03	0.638	Level 1	
10,700.00	6,040.00	6,301.37	5,996.30	83.40	28.52	-56.56	-3,709.54	2,388.36	150.54	71.52	79.02	1.905		
10,800.00	6,040.00	6,308.22	6,000.21	84.93	28.56	-68.48	-3,709.87	2,393.99	249.43	172.16	77.26	3.228		
10,900.00	6,040.00	6,315.13	6,004.12	86.47	28.60	-77.86	-3,710.22	2,399.66	348.81	272.23	76.58	4.555		
11,000.00	6,040.00	6,320.67	6,007.28	88.02	28.64	-83.80	-3,710.47	2,404.22	448.38	372.22	76.16	5.887		
11,100.00	6,040.00	6,326.46	6,010.56	89.58	28.68	-88.77	-3,710.74	2,408.98	548.04	472.07	75.96	7.215		
11,200.00	6,040.00	6,332.00	6,013.71	91.15	28.71	-92.63	-3,710.98	2,413.53	647.74	571.89	75.85	8.540		
11,300.00	6,040.00	6,337.30	6,016.72	92.73	28.75	-95.67	-3,711.21	2,417.88	747.48	671.69	75.79	9.862		
11,400.00	6,040.00	6,342.38	6,019.60	94.31	28.78	-98.13	-3,711.42	2,422.06	847.24	771.47	75.77	11.182		
11,500.00	6,040.00	6,347.25	6,022.36	95.91	28.81	-100.15	-3,711.62	2,426.07	947.02	871.25	75.77	12.499		
11,600.00	6,040.00	6,351.92	6,025.02	97.51	28.84	-101.83	-3,711.80	2,429.91	1,046.82	971.04	75.78	13.814		
11,700.00	6,040.00	6,356.42	6,027.56	99.11	28.87	-103.25	-3,711.97	2,433.61	1,146.62	1,070.82	75.80	15.126		
11,800.00	6,040.00	6,360.74	6,030.01	100.73	28.90	-104.47	-3,712.13	2,437.16	1,246.44	1,170.61	75.84	16.436		
11,900.00	6,040.00	6,364.89	6,032.37	102.35	28.93	-105.52	-3,712.28	2,440.59	1,346.27	1,270.40	75.87	17.744		
12,000.00	6,040.00	6,368.90	6,034.64	103.97	28.96	-106.43	-3,712.42	2,443.88	1,446.11	1,370.19	75.91	19.049		
12,100.00	6,040.00	6,372.75	6,036.83	105.60	28.98	-107.24	-3,712.55	2,447.05	1,545.95	1,469.99	75.96	20.352		
12,200.00	6,040.00	6,376.47	6,038.93	107.24	29.01	-107.95	-3,712.67	2,450.12	1,645.80	1,569.79	76.01	21.653		
12,300.00	6,040.00	6,380.06	6,040.97	108.88	29.03	-108.59	-3,712.79	2,453.07	1,745.66	1,669.60	76.06	22.952		
12,400.00	6,040.00	6,383.52	6,042.93	110.53	29.06	-109.16	-3,712.89	2,455.92	1,845.52	1,769.41	76.11	24.249		
12,500.00	6,040.00	6,386.87	6,044.83	112.18	29.08	-109.67	-3,712.99	2,458.68	1,945.39	1,869.23	76.16	25.544		
12,600.00	6,040.00	6,390.10	6,046.66	113.83	29.10	-110.13	-3,713.09	2,461.34	2,045.26	1,969.05	76.21	26.837		
12,700.00	6,040.00	6,403.00	6,053.96	115.49	29.20	-111.74	-3,713.44	2,471.96	2,145.17	2,068.57	76.60	28.005		
12,800.00	6,040.00	6,403.00	6,053.96	117.16	29.20	-111.74	-3,713.44	2,471.96	2,245.03	2,168.49	76.55	29.329		
12,900.00	6,040.00	6,403.00	6,053.96	118.82	29.20	-111.74	-3,713.44	2,471.96	2,344.91	2,268.41	76.50	30.653		
13,000.00	6,040.00	6,403.00	6,053.96	120.49	29.20	-111.74	-3,713.44	2,471.96	2,444.79	2,368.34	76.46	31.976		
13,100.00	6,040.00	6,403.00	6,053.96	122.16	29.20	-111.74	-3,713.44	2,471.96	2,544.69	2,468.27	76.42	33.297		
13,200.00	6,040.00	6,403.00	6,053.96	123.84	29.20	-111.74	-3,713.44	2,471.96	2,644.59	2,568.20	76.39	34.618		
13,300.00	6,040.00	6,411.28	6,058.58	125.52	29.26	-112.55	-3,713.64	2,478.83	2,744.48	2,667.84	76.64	35.808		
13,400.00	6,040.00	6,414.29	6,060.23	127.20	29.29	-112.81	-3,713.72	2,481.35	2,844.38	2,767.66	76.72	37.074		
13,500.00	6,040.00	6,417.24	6,061.83	128.89	29.31	-113.04	-3,713.79	2,483.83	2,944.29	2,867.49	76.80	38.338		
13,600.00	6,040.00	6,420.14	6,063.39	130.58	29.33	-113.25	-3,713.85	2,486.27	3,044.19	2,967.32	76.87	39.600		
13,700.00	6,040.00	6,422.98	6,064.90	132.27	29.36	-113.43	-3,713.91	2,488.68	3,144.10	3,067.15	76.95	40.859		
13,800.00	6,040.00	6,425.76	6,066.36	133.96	29.38	-113.60	-3,713.98	2,491.04	3,244.01	3,166.98	77.03	42.115		
13,900.00	6,040.00	6,428.50	6,067.78	135.66	29.40	-113.75	-3,714.03	2,493.38	3,343.92	3,266.82	77.10	43.369		
14,000.00	6,040.00	6,431.18	6,069.16	137.35	29.43	-113.89	-3,714.09	2,495.67	3,443.84	3,366.66	77.18	44.621		
14,100.00	6,040.00	6,433.81	6,070.51	139.05	29.45	-114.01	-3,714.14	2,497.94	3,543.75	3,466.49	77.26	45.870		
14,200.00	6,040.00	6,436.39	6,071.81	140.75	29.47	-114.12	-3,714.20	2,500.16	3,643.67	3,566.34	77.33	47.117		
14,300.00	6,040.00	6,438.92	6,073.08	142.46	29.49	-114.22	-3,714.25	2,502.35	3,743.59	3,666.18	77.41	48.361		
14,400.00	6,040.00	6,441.41	6,074.31	144.17	29.51	-114.31	-3,714.29	2,504.51	3,843.51	3,766.02	77.49	49.603		
14,500.00	6,040.00	6,443.85	6,075.50	145.87	29.53	-114.39	-3,714.34	2,506.64	3,943.43	3,865.87	77.56	50.843		
14,600.00	6,040.00	6,446.24	6,076.67	147.58	29.55	-114.46	-3,714.38	2,508.73	4,043.35	3,965.72	77.64	52.080		
14,700.00	6,040.00	6,448.60	6,077.80	149.29	29.57	-114.53	-3,714.42	2,510.80	4,143.28	4,065.57	77.71	53.316		
14,800.00	6,040.00	6,450.91	6,078.90	151.01	29.59	-114.58	-3,714.46	2,512.83	4,243.20	4,165.42	77.79	54.549		
14,900.00	6,040.00	6,453.17	6,079.97	152.72	29.61	-114.63	-3,714.50	2,514.82	4,343.13	4,265.27	77.86	55.779		
15,000.00	6,040.00	6,455.40	6,081.01	154.44	29.63	-114.68	-3,714.54	2,516.79	4,443.06	4,365.12	77.94	57.008		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 897-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4841CS - OWB - FINAL SURVEY														
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,457.59	6,082.02	156.16	29.65	-114.71	-3,714.58	2,518.73	4,542.99	4,464.98	78.01	58.234		
15,200.00	6,040.00	6,459.74	6,083.01	157.88	29.67	-114.75	-3,714.61	2,520.64	4,642.92	4,564.84	78.09	59.458		
15,300.00	6,040.00	6,461.85	6,083.97	159.60	29.69	-114.77	-3,714.64	2,522.52	4,742.86	4,664.69	78.16	60.680		
15,400.00	6,040.00	6,463.92	6,084.90	161.32	29.71	-114.80	-3,714.67	2,524.38	4,842.79	4,764.55	78.24	61.900		
15,500.00	6,040.00	6,465.96	6,085.81	163.04	29.72	-114.82	-3,714.70	2,526.20	4,942.73	4,864.42	78.31	63.118		
15,600.00	6,040.00	6,467.97	6,086.70	164.77	29.74	-114.83	-3,714.73	2,528.00	5,042.66	4,964.28	78.38	64.334		
15,700.00	6,040.00	6,469.94	6,087.56	166.49	29.76	-114.85	-3,714.76	2,529.77	5,142.60	5,064.14	78.46	65.547		
15,800.00	6,040.00	6,471.87	6,088.40	168.22	29.77	-114.86	-3,714.79	2,531.51	5,242.54	5,164.01	78.53	66.758		
15,900.00	6,040.00	6,473.78	6,089.22	169.95	29.79	-114.86	-3,714.81	2,533.23	5,342.48	5,263.87	78.60	67.968		
16,000.00	6,040.00	6,475.65	6,090.02	171.68	29.81	-114.87	-3,714.84	2,534.92	5,442.42	5,363.74	78.68	69.175		
16,100.00	6,040.00	6,477.49	6,090.79	173.41	29.82	-114.87	-3,714.86	2,536.59	5,542.36	5,463.61	78.75	70.380		
16,200.00	6,040.00	6,479.30	6,091.55	175.14	29.84	-114.87	-3,714.88	2,538.23	5,642.30	5,563.48	78.82	71.583		
16,300.00	6,040.00	6,498.00	6,098.99	176.88	30.01	-114.74	-3,715.08	2,555.39	5,742.29	5,662.89	79.40	72.318		
16,400.00	6,040.00	6,498.00	6,098.99	178.61	30.01	-114.74	-3,715.08	2,555.39	5,842.23	5,762.81	79.42	73.559		
16,500.00	6,040.00	6,498.00	6,098.99	180.34	30.01	-114.74	-3,715.08	2,555.39	5,942.16	5,862.72	79.44	74.799		
16,600.00	6,040.00	6,498.00	6,098.99	182.08	30.01	-114.74	-3,715.08	2,555.39	6,042.10	5,962.64	79.46	76.038		
16,700.00	6,040.00	6,498.00	6,098.99	183.82	30.01	-114.74	-3,715.08	2,555.39	6,142.05	6,062.56	79.48	77.275		
16,800.00	6,040.00	6,498.00	6,098.99	185.56	30.01	-114.74	-3,715.08	2,555.39	6,241.99	6,162.48	79.51	78.510		
16,865.66	6,040.00	6,498.00	6,098.99	186.70	30.01	-114.74	-3,715.08	2,555.39	6,307.61	6,228.09	79.52	79.320		

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 775-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4956C - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	159.74	-4,794.63	1,769.46	5,110.80						
100.00	100.00	346.01	345.67	0.13	0.78	159.64	-4,782.60	1,775.21	5,108.80	5,107.90	0.90	5,662.844			
200.00	199.98	823.17	818.56	0.49	1.86	85.04	-4,726.70	1,801.95	5,099.60	5,097.32	2.28	2,240.381			
300.00	299.84	910.23	904.30	0.86	2.37	85.23	-4,713.06	1,808.34	5,086.96	5,083.88	3.07	1,655.252			
400.00	399.45	1,142.78	1,131.90	1.23	3.50	85.35	-4,670.89	1,830.20	5,072.51	5,068.03	4.48	1,132.473			
500.00	498.70	1,426.28	1,406.34	1.63	5.03	85.50	-4,607.68	1,862.50	5,054.30	5,048.06	6.24	810.391			
600.00	597.47	1,513.16	1,489.91	2.05	5.53	85.85	-4,586.48	1,873.23	5,034.41	5,027.33	7.08	711.030			
700.00	695.62	1,594.39	1,567.63	2.51	6.01	86.22	-4,566.22	1,885.39	5,014.64	5,006.69	7.95	630.817			
800.00	793.06	1,673.13	1,642.81	3.00	6.47	86.61	-4,546.56	1,898.06	4,994.98	4,986.12	8.85	564.358			
900.00	889.64	1,748.09	1,714.59	3.54	6.92	87.03	-4,528.34	1,909.63	4,975.53	4,965.75	9.78	508.944			
1,000.00	985.27	1,827.39	1,827.39	4.13	2.44	87.50	-4,499.29	1,929.31	4,956.05	4,949.77	6.27	789.810			
1,100.00	1,079.82	2,050.98	2,003.04	4.77	8.78	88.11	-4,450.84	1,959.88	4,934.47	4,921.85	12.62	391.103			
1,200.00	1,173.17	2,115.71	2,064.78	5.46	9.17	88.65	-4,434.05	1,969.62	4,912.98	4,899.34	13.64	360.216			
1,300.00	1,265.23	2,171.00	2,117.88	6.21	9.50	89.15	-4,420.52	1,977.02	4,892.27	4,877.60	14.66	333.653			
1,400.00	1,356.75	2,211.74	2,157.23	7.00	9.72	89.26	-4,411.16	1,981.90	4,872.55	4,856.92	15.63	311.716			
1,500.00	1,448.28	2,262.00	2,206.04	7.80	9.99	89.41	-4,400.46	1,987.31	4,854.00	4,837.34	16.66	291.425			
1,600.00	1,539.81	2,262.00	2,206.04	8.60	9.99	89.41	-4,400.46	1,987.31	4,836.85	4,819.39	17.46	277.032			
1,700.00	1,631.34	2,321.66	2,264.27	9.41	10.29	89.59	-4,389.00	1,993.36	4,820.66	4,802.13	18.53	260.205			
1,800.00	1,722.86	2,354.00	2,295.95	10.23	10.45	89.69	-4,383.38	1,996.69	4,806.04	4,786.56	19.48	246.712			
1,900.00	1,814.39	2,404.99	2,345.97	11.05	10.69	89.85	-4,375.08	2,002.02	4,792.63	4,772.12	20.51	233.634			
2,000.00	1,905.92	2,459.37	2,399.39	11.87	10.94	90.02	-4,366.75	2,007.87	4,780.28	4,758.72	21.56	221.697			
2,100.00	1,997.45	2,543.82	2,482.52	12.69	11.33	90.30	-4,354.45	2,016.25	4,768.56	4,745.83	22.73	209.776			
2,200.00	2,088.97	2,600.00	2,639.27	13.52	9.75	90.85	-4,330.93	2,030.04	4,756.42	4,734.35	22.07	215.539			
2,300.00	2,180.50	2,813.78	2,748.28	14.35	12.55	91.24	-4,313.28	2,039.65	4,743.39	4,717.93	25.46	186.335			
2,400.00	2,272.03	2,857.62	2,791.47	15.17	12.75	91.39	-4,306.64	2,043.17	4,731.15	4,704.69	26.46	178.807			
2,500.00	2,363.56	2,919.00	2,852.03	16.00	13.02	91.61	-4,298.22	2,048.53	4,720.34	4,692.81	27.53	171.464			
2,600.00	2,455.08	2,919.00	2,852.03	16.83	13.02	91.61	-4,298.22	2,048.53	4,710.65	4,682.29	28.36	166.110			
2,700.00	2,546.61	2,984.67	2,916.97	17.66	13.29	91.84	-4,290.32	2,054.36	4,702.13	4,672.69	29.44	159.730			
2,800.00	2,638.14	3,036.98	2,968.80	18.50	13.50	92.04	-4,284.79	2,058.72	4,694.84	4,664.38	30.46	154.129			
2,900.00	2,729.67	3,108.00	3,039.27	19.33	13.78	92.31	-4,277.95	2,064.27	4,688.48	4,656.93	31.55	148.615			
3,000.00	2,821.19	3,150.79	3,081.79	20.16	13.94	92.47	-4,274.24	2,067.37	4,683.05	4,650.53	32.52	144.009			
3,100.00	2,912.72	3,202.00	3,132.74	20.99	14.13	92.68	-4,270.38	2,070.75	4,678.77	4,645.26	33.52	139.589			
3,200.00	3,004.25	3,246.97	3,177.56	21.83	14.27	92.86	-4,267.59	2,073.16	4,675.66	4,641.18	34.48	135.621			
3,300.00	3,095.78	3,296.00	3,226.50	22.66	14.43	93.08	-4,265.27	2,074.86	4,673.75	4,638.30	35.44	131.865			
3,400.00	3,187.30	3,339.85	3,270.32	23.50	14.56	93.28	-4,263.78	2,075.77	4,673.05	4,636.68	36.37	128.474			
3,407.05	3,193.76	3,343.11	3,273.57	23.55	14.57	93.30	-4,263.69	2,075.83	4,673.05	4,636.61	36.44	128.241			
3,500.00	3,278.83	3,390.00	3,320.45	24.33	14.70	93.52	-4,262.69	2,076.38	4,673.58	4,636.26	37.32	125.232			
3,600.00	3,370.36	3,464.89	3,395.33	25.16	14.90	93.88	-4,261.65	2,076.81	4,675.04	4,636.71	38.34	121.951			
3,700.00	3,461.89	3,553.98	3,484.41	26.00	15.14	94.32	-4,260.61	2,077.06	4,676.98	4,637.59	39.40	118.717			
3,800.00	3,553.41	3,642.06	3,572.49	26.83	15.38	94.75	-4,259.64	2,077.10	4,679.30	4,638.85	40.45	115.677			
3,900.00	3,644.94	3,739.31	3,669.73	27.67	15.64	95.23	-4,258.66	2,076.87	4,681.98	4,640.45	41.54	112.719			
4,000.00	3,736.47	3,825.15	3,755.56	28.51	15.87	95.65	-4,257.70	2,076.73	4,684.93	4,642.35	42.58	110.018			
4,100.00	3,828.00	3,895.57	3,825.99	29.34	16.06	96.00	-4,257.17	2,076.27	4,688.49	4,644.92	43.57	107.601			
4,200.00	3,919.52	3,962.27	3,892.68	30.18	16.24	96.33	-4,257.06	2,075.88	4,692.91	4,648.37	44.54	105.356			
4,300.00	4,011.05	4,070.47	4,000.88	31.01	16.52	96.87	-4,256.96	2,075.04	4,697.74	4,652.09	45.65	102.914			
4,400.00	4,102.58	4,166.02	4,096.43	31.85	16.77	97.34	-4,256.57	2,074.09	4,702.60	4,655.89	46.71	100.671			
4,500.00	4,194.11	4,236.00	4,166.40	32.68	16.96	97.69	-4,256.52	2,073.43	4,708.11	4,660.42	47.69	98.723			
4,600.00	4,285.64	4,290.85	4,221.25	33.52	17.10	97.96	-4,256.81	2,072.98	4,714.53	4,665.92	48.61	96.993			
4,700.00	4,377.16	4,369.98	4,300.37	34.36	17.31	98.35	-4,257.72	2,072.48	4,721.87	4,672.27	49.60	95.195			
4,800.00	4,468.69	4,465.27	4,395.65	35.19	17.56	98.82	-4,258.57	2,071.99	4,729.36	4,678.71	50.65	93.372			
4,900.00	4,560.22	4,600.98	4,531.35	36.03	17.92	99.48	-4,259.74	2,071.62	4,737.34	4,685.49	51.85	91.371			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 775-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4956C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,651.75	4,714.38	4,644.76	36.87	18.25	100.03	-4,259.47	2,071.00	4,744.46	4,691.48	52.98	89.554			
5,100.00	4,743.27	4,814.51	4,744.88	37.70	18.54	100.52	-4,258.95	2,070.77	4,751.71	4,697.64	54.07	87.881			
5,200.00	4,834.80	4,878.02	4,808.40	38.54	18.72	100.82	-4,258.78	2,070.84	4,759.51	4,704.49	55.02	86.503			
5,300.00	4,926.33	5,002.45	4,932.82	39.38	19.09	101.40	-4,258.34	2,071.46	4,767.62	4,711.42	56.20	84.833			
5,400.00	5,017.86	5,102.40	5,032.76	40.21	19.40	101.87	-4,257.46	2,072.33	4,775.57	4,718.27	57.30	83.350			
5,500.00	5,109.38	5,191.08	5,121.43	41.05	19.67	102.28	-4,256.58	2,073.41	4,783.73	4,725.39	58.35	81.989			
5,600.00	5,200.91	5,258.22	5,188.56	41.89	19.88	102.58	-4,256.14	2,074.58	4,792.52	4,733.21	59.31	80.803			
5,700.00	5,292.44	5,397.02	5,327.32	42.73	20.31	103.20	-4,254.76	2,077.44	4,801.26	4,740.70	60.56	79.285			
5,800.00	5,383.97	5,458.00	5,388.29	43.56	20.51	103.48	-4,253.99	2,078.56	4,810.15	4,748.65	61.50	78.218			
5,900.00	5,475.51	5,530.00	5,460.26	44.40	20.73	100.15	-4,253.58	2,080.34	4,819.68	4,757.21	62.47	77.148			
6,000.00	5,567.37	5,885.29	5,806.24	45.19	22.18	77.99	-4,239.34	2,146.81	4,812.59	4,747.66	64.93	74.119			
6,100.00	5,657.57	5,928.00	5,844.92	45.89	22.40	58.89	-4,237.34	2,164.81	4,789.69	4,723.80	65.89	72.688			
6,200.00	5,743.38	6,168.01	6,036.30	46.48	23.96	45.33	-4,224.64	2,306.76	4,750.78	4,682.26	68.53	69.327			
6,300.00	5,822.18	6,210.00	6,062.55	46.95	24.31	36.88	-4,222.18	2,339.42	4,694.59	4,625.08	69.51	67.537			
6,400.00	5,891.60	6,210.00	6,062.55	47.31	24.31	31.72	-4,222.18	2,339.42	4,625.51	4,555.55	69.96	66.116			
6,500.00	5,949.50	6,210.00	6,062.55	47.58	24.31	28.54	-4,222.18	2,339.42	4,545.82	4,475.51	70.31	64.656			
6,600.00	5,994.15	6,210.00	6,062.55	47.76	24.31	26.85	-4,222.18	2,339.42	4,457.42	4,386.86	70.56	63.175			
6,700.00	6,024.17	6,210.00	6,062.55	47.86	24.31	26.85	-4,222.18	2,339.42	4,362.56	4,291.85	70.72	61.692			
6,800.00	6,038.67	6,210.00	6,062.55	47.91	24.31	34.69	-4,222.18	2,339.42	4,263.80	4,193.01	70.79	60.229			
6,900.00	6,040.00	6,210.00	6,062.55	47.93	24.31	143.28	-4,222.18	2,339.42	4,163.84	4,093.02	70.81	58.802			
7,000.00	6,040.00	6,210.00	6,062.55	47.98	24.31	143.28	-4,222.18	2,339.42	4,063.85	3,993.02	70.82	57.379			
7,100.00	6,040.00	6,210.00	6,062.55	48.09	24.31	143.28	-4,222.18	2,339.42	3,963.86	3,893.02	70.84	55.956			
7,200.00	6,040.00	6,210.00	6,062.55	48.23	24.31	143.28	-4,222.18	2,339.42	3,863.87	3,793.02	70.85	54.533			
7,300.00	6,040.00	6,210.00	6,062.55	48.43	24.31	143.28	-4,222.18	2,339.42	3,763.89	3,693.02	70.87	53.109			
7,400.00	6,040.00	6,210.00	6,062.55	48.67	24.31	143.28	-4,222.18	2,339.42	3,663.90	3,593.01	70.89	51.685			
7,500.00	6,040.00	6,210.00	6,062.55	48.97	24.31	143.28	-4,222.18	2,339.42	3,563.92	3,493.01	70.91	50.262			
7,600.00	6,040.00	6,210.00	6,062.55	49.32	24.31	143.28	-4,222.18	2,339.42	3,463.93	3,393.01	70.93	48.838			
7,700.00	6,040.00	6,210.00	6,062.55	49.73	24.31	143.28	-4,222.18	2,339.42	3,363.95	3,293.00	70.95	47.414			
7,800.00	6,040.00	6,210.00	6,062.55	50.19	24.31	143.28	-4,222.18	2,339.42	3,263.97	3,193.00	70.97	45.989			
7,900.00	6,040.00	6,210.00	6,062.55	50.71	24.31	143.28	-4,222.18	2,339.42	3,163.99	3,092.99	71.00	44.565			
8,000.00	6,040.00	6,210.00	6,062.55	51.29	24.31	143.28	-4,222.18	2,339.42	3,064.01	2,992.99	71.02	43.141			
8,100.00	6,040.00	6,210.00	6,062.55	51.93	24.31	143.28	-4,222.18	2,339.42	2,964.03	2,892.98	71.05	41.716			
8,200.00	6,040.00	6,210.00	6,062.55	52.63	24.31	143.28	-4,222.18	2,339.42	2,864.06	2,792.98	71.08	40.292			
8,300.00	6,040.00	6,210.00	6,062.55	53.39	24.31	143.28	-4,222.18	2,339.42	2,764.08	2,692.97	71.11	38.868			
8,400.00	6,040.00	6,210.00	6,062.55	54.20	24.31	143.28	-4,222.18	2,339.42	2,664.11	2,592.96	71.15	37.444			
8,500.00	6,040.00	6,210.00	6,062.55	55.07	24.31	143.28	-4,222.18	2,339.42	2,564.14	2,492.95	71.19	36.020			
8,600.00	6,040.00	6,210.00	6,062.55	55.99	24.31	143.28	-4,222.18	2,339.42	2,464.17	2,392.95	71.23	34.596			
8,700.00	6,040.00	6,210.00	6,062.55	56.97	24.31	143.28	-4,222.18	2,339.42	2,364.21	2,292.94	71.27	33.172			
8,800.00	6,040.00	6,210.00	6,062.55	57.99	24.31	143.28	-4,222.18	2,339.42	2,264.24	2,192.93	71.32	31.749			
8,900.00	6,040.00	6,210.00	6,062.55	59.06	24.31	143.28	-4,222.18	2,339.42	2,164.29	2,092.92	71.37	30.326			
9,000.00	6,040.00	6,210.00	6,062.55	60.17	24.31	143.28	-4,222.18	2,339.42	2,064.33	1,992.91	71.42	28.903			
9,100.00	6,040.00	6,232.80	6,075.51	61.32	24.52	163.20	-4,221.33	2,358.15	1,964.08	1,892.55	71.53	27.460			
9,200.00	6,040.00	6,232.36	6,075.27	62.51	24.52	162.84	-4,221.34	2,357.79	1,864.14	1,792.57	71.57	26.047			
9,300.00	6,040.00	6,231.90	6,075.02	63.73	24.52	162.46	-4,221.35	2,357.41	1,764.20	1,692.59	71.62	24.634			
9,400.00	6,040.00	6,231.41	6,074.75	64.98	24.51	162.05	-4,221.37	2,357.00	1,664.28	1,592.61	71.67	23.222			
9,500.00	6,040.00	6,230.88	6,074.46	66.27	24.51	161.61	-4,221.38	2,356.55	1,564.36	1,492.63	71.73	21.809			
9,600.00	6,040.00	6,230.31	6,074.14	67.58	24.50	161.13	-4,221.40	2,356.08	1,464.46	1,392.66	71.80	20.397			
9,700.00	6,040.00	6,229.70	6,073.80	68.92	24.49	160.62	-4,221.42	2,355.57	1,364.57	1,292.69	71.88	18.984			
9,800.00	6,040.00	6,229.03	6,073.43	70.29	24.49	160.06	-4,221.44	2,355.02	1,264.70	1,192.72	71.97	17.572			
9,900.00	6,040.00	6,228.31	6,073.03	71.67	24.48	159.45	-4,221.46	2,354.42	1,164.84	1,092.76	72.08	16.160			
10,000.00	6,040.00	6,227.52	6,072.59	73.08	24.47	158.78	-4,221.49	2,353.76	1,065.02	992.80	72.22	14.748			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 775-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-4956C - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,100.00	6,040.00	6,226.66	6,072.11	74.51	24.47	158.04	-4,221.52	2,353.05	965.23	892.85	72.38	13.336				
10,200.00	6,040.00	6,225.72	6,071.58	75.95	24.46	157.23	-4,221.55	2,352.27	865.48	792.90	72.58	11.924				
10,300.00	6,040.00	6,224.68	6,071.00	77.41	24.45	156.33	-4,221.59	2,351.41	765.80	692.96	72.84	10.513				
10,400.00	6,040.00	6,223.52	6,070.35	78.89	24.44	155.33	-4,221.63	2,350.45	666.21	593.03	73.18	9.103				
10,500.00	6,040.00	6,222.23	6,069.62	80.38	24.42	154.20	-4,221.68	2,349.39	566.77	493.12	73.65	7.695				
10,600.00	6,040.00	6,220.79	6,068.79	81.88	24.41	152.93	-4,221.73	2,348.21	467.56	393.22	74.34	6.290				
10,700.00	6,040.00	6,219.15	6,067.86	83.40	24.40	151.48	-4,221.79	2,346.87	368.76	293.36	75.40	4.891				
10,800.00	6,040.00	6,217.51	6,066.92	84.93	24.37	150.02	-4,221.86	2,345.53	270.83	193.64	77.19	3.509				
10,900.00	6,040.00	6,215.28	6,065.63	86.47	24.36	148.02	-4,221.95	2,343.70	175.25	94.37	80.88	2.167				
11,000.00	6,040.00	6,212.71	6,064.14	88.02	24.33	145.72	-4,222.06	2,341.62	89.79	1.26	88.53	1.014	Level 2			
11,063.33	6,040.00	6,210.89	6,063.07	89.01	24.32	144.08	-4,222.14	2,340.14	63.68	-19.57	83.25	0.765	Level 1, CC, ES, SF			
11,100.00	6,040.00	6,209.75	6,062.40	89.58	24.31	143.06	-4,222.19	2,339.22	73.48	3.07	70.41	1.044	Level 2			
11,200.00	6,040.00	6,206.28	6,060.35	91.15	24.28	139.94	-4,222.36	2,336.43	150.73	89.73	61.00	2.471				
11,300.00	6,040.00	6,202.17	6,057.89	92.73	24.25	136.28	-4,222.56	2,333.14	244.98	182.07	62.91	3.894				
11,400.00	6,040.00	6,197.21	6,054.89	94.31	24.20	131.93	-4,222.82	2,329.21	342.47	278.16	64.31	5.326				
11,500.00	6,040.00	6,191.14	6,051.14	95.91	24.15	126.75	-4,223.15	2,324.44	441.04	375.94	65.10	6.775				
11,600.00	6,040.00	6,183.51	6,046.35	97.51	24.09	120.56	-4,223.61	2,318.52	540.09	474.58	65.51	8.244				
11,700.00	6,040.00	6,173.66	6,040.01	99.11	24.01	113.19	-4,224.25	2,311.00	639.37	573.72	65.65	9.739				
11,800.00	6,040.00	6,160.45	6,031.25	100.73	23.90	104.50	-4,225.20	2,301.16	738.77	673.22	65.55	11.270				
11,900.00	6,040.00	6,141.88	6,018.46	102.35	23.75	94.43	-4,226.71	2,287.78	838.20	773.00	65.21	12.855				
12,000.00	6,040.00	6,115.00	5,998.99	103.97	23.54	83.41	-4,229.27	2,269.44	937.58	873.00	64.58	14.519				
12,100.00	6,040.00	6,115.00	5,998.99	105.60	23.54	83.41	-4,229.27	2,269.44	1,036.97	971.95	65.02	15.948				
12,200.00	6,040.00	6,115.00	5,998.99	107.24	23.54	83.41	-4,229.27	2,269.44	1,136.46	1,071.07	65.40	17.378				
12,300.00	6,040.00	6,115.00	5,998.99	108.88	23.54	83.41	-4,229.27	2,269.44	1,236.04	1,170.32	65.72	18.807				
12,400.00	6,040.00	6,115.00	5,998.99	110.53	23.54	83.41	-4,229.27	2,269.44	1,335.68	1,269.67	66.01	20.235				
12,500.00	6,040.00	6,115.00	5,998.99	112.18	23.54	83.41	-4,229.27	2,269.44	1,435.37	1,369.11	66.26	21.663				
12,600.00	6,040.00	6,091.84	5,981.50	113.83	23.38	76.32	-4,231.40	2,254.42	1,534.70	1,468.89	65.82	23.318				
12,700.00	6,040.00	6,089.02	5,979.33	115.49	23.36	75.58	-4,231.63	2,252.62	1,634.38	1,568.41	65.96	24.778				
12,800.00	6,040.00	6,086.41	5,977.32	117.16	23.34	74.91	-4,231.83	2,250.97	1,734.08	1,667.98	66.10	26.236				
12,900.00	6,040.00	6,083.98	5,975.45	118.82	23.33	74.30	-4,232.02	2,249.44	1,833.80	1,767.58	66.22	27.693				
13,000.00	6,040.00	6,081.72	5,973.69	120.49	23.31	73.75	-4,232.18	2,248.01	1,933.55	1,867.21	66.34	29.148				
13,100.00	6,040.00	6,079.60	5,972.05	122.16	23.30	73.24	-4,232.33	2,246.69	2,033.31	1,966.87	66.45	30.601				
13,200.00	6,040.00	6,077.62	5,970.51	123.84	23.29	72.78	-4,232.47	2,245.46	2,133.09	2,066.54	66.55	32.053				
13,300.00	6,040.00	6,075.77	5,969.06	125.52	23.27	72.36	-4,232.60	2,244.30	2,232.89	2,166.24	66.65	33.503				
13,400.00	6,040.00	6,074.02	5,967.70	127.20	23.26	71.96	-4,232.71	2,243.22	2,332.70	2,265.96	66.74	34.952				
13,500.00	6,040.00	6,072.38	5,966.41	128.89	23.25	71.60	-4,232.82	2,242.20	2,432.52	2,365.69	66.83	36.399				
13,600.00	6,040.00	6,070.83	5,965.20	130.58	23.24	71.26	-4,232.92	2,241.24	2,532.35	2,465.44	66.92	37.844				
13,700.00	6,040.00	6,069.36	5,964.04	132.27	23.23	70.94	-4,233.01	2,240.34	2,632.20	2,565.20	67.00	39.288				
13,800.00	6,040.00	6,067.98	5,962.95	133.96	23.22	70.65	-4,233.09	2,239.49	2,732.05	2,664.97	67.08	40.730				
13,900.00	6,040.00	6,066.66	5,961.92	135.66	23.21	70.37	-4,233.17	2,238.69	2,831.91	2,764.75	67.15	42.170				
14,000.00	6,040.00	6,065.41	5,960.93	137.35	23.20	70.12	-4,233.24	2,237.92	2,931.78	2,864.55	67.23	43.608				
14,100.00	6,040.00	6,064.23	5,960.00	139.05	23.20	69.87	-4,233.31	2,237.20	3,031.65	2,964.35	67.30	45.045				
14,200.00	6,040.00	6,063.10	5,959.10	140.75	23.19	69.64	-4,233.37	2,236.52	3,131.53	3,064.16	67.37	46.480				
14,300.00	6,040.00	6,062.03	5,958.25	142.46	23.18	69.43	-4,233.43	2,235.86	3,231.42	3,163.98	67.44	47.913				
14,400.00	6,040.00	6,061.00	5,957.44	144.17	23.17	69.22	-4,233.49	2,235.24	3,331.31	3,263.80	67.51	49.345				
14,500.00	6,040.00	6,060.03	5,956.66	145.87	23.17	69.03	-4,233.54	2,234.65	3,431.21	3,363.63	67.58	50.775				
14,600.00	6,040.00	6,059.09	5,955.92	147.58	23.16	68.85	-4,233.59	2,234.08	3,531.11	3,463.47	67.64	52.202				
14,700.00	6,040.00	6,058.20	5,955.21	149.29	23.16	68.68	-4,233.63	2,233.54	3,631.02	3,563.31	67.71	53.628				
14,800.00	6,040.00	6,057.34	5,954.53	151.01	23.15	68.51	-4,233.67	2,233.03	3,730.93	3,663.16	67.77	55.053				
14,900.00	6,040.00	6,056.52	5,953.87	152.72	23.15	68.35	-4,233.71	2,232.53	3,830.85	3,763.01	67.83	56.475				
15,000.00	6,040.00	6,022.00	5,925.86	154.44	22.92	62.62	-4,234.86	2,212.41	3,931.40	3,864.12	67.29	58.427				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 775-MWD OWSG												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,022.00	5,925.86	156.16	22.92	62.62	-4,234.86	2,212.41	4,031.29	3,963.93	67.37	59.841		
15,200.00	6,040.00	6,022.00	5,925.86	157.88	22.92	62.62	-4,234.86	2,212.41	4,131.19	4,063.75	67.44	61.254		
15,300.00	6,040.00	6,022.00	5,925.86	159.60	22.92	62.62	-4,234.86	2,212.41	4,231.09	4,163.57	67.52	62.664		
15,400.00	6,040.00	6,022.00	5,925.86	161.32	22.92	62.62	-4,234.86	2,212.41	4,331.00	4,263.40	67.59	64.073		
15,500.00	6,040.00	6,022.00	5,925.86	163.04	22.92	62.62	-4,234.86	2,212.41	4,430.91	4,363.24	67.67	65.480		
15,600.00	6,040.00	6,022.00	5,925.86	164.77	22.92	62.62	-4,234.86	2,212.41	4,530.82	4,463.08	67.74	66.885		
15,700.00	6,040.00	6,022.00	5,925.86	166.49	22.92	62.62	-4,234.86	2,212.41	4,630.74	4,562.93	67.81	68.288		
15,800.00	6,040.00	6,022.00	5,925.86	168.22	22.92	62.62	-4,234.86	2,212.41	4,730.66	4,662.78	67.88	69.689		
15,900.00	6,040.00	6,022.00	5,925.86	169.95	22.92	62.62	-4,234.86	2,212.41	4,830.58	4,762.63	67.95	71.088		
16,000.00	6,040.00	6,022.00	5,925.86	171.68	22.92	62.62	-4,234.86	2,212.41	4,930.51	4,862.49	68.02	72.485		
16,100.00	6,040.00	6,022.00	5,925.86	173.41	22.92	62.62	-4,234.86	2,212.41	5,030.44	4,962.35	68.09	73.880		
16,200.00	6,040.00	6,022.00	5,925.86	175.14	22.92	62.62	-4,234.86	2,212.41	5,130.37	5,062.22	68.16	75.273		
16,300.00	6,040.00	6,022.00	5,925.86	176.88	22.92	62.62	-4,234.86	2,212.41	5,230.31	5,162.08	68.22	76.664		
16,400.00	6,040.00	6,022.00	5,925.86	178.61	22.92	62.62	-4,234.86	2,212.41	5,330.25	5,261.95	68.29	78.053		
16,500.00	6,040.00	6,022.00	5,925.86	180.34	22.92	62.62	-4,234.86	2,212.41	5,430.19	5,361.83	68.36	79.439		
16,600.00	6,040.00	6,022.00	5,925.86	182.08	22.92	62.62	-4,234.86	2,212.41	5,530.13	5,461.71	68.42	80.824		
16,700.00	6,040.00	6,022.00	5,925.86	183.82	22.92	62.62	-4,234.86	2,212.41	5,630.07	5,561.58	68.49	82.206		
16,800.00	6,040.00	6,022.00	5,925.86	185.56	22.92	62.62	-4,234.86	2,212.41	5,730.02	5,661.47	68.55	83.586		
16,865.66	6,040.00	6,022.00	5,925.86	186.70	22.92	62.62	-4,234.86	2,212.41	5,795.64	5,727.05	68.59	84.491		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 747-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-6457C - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	159.80	-4,809.89	1,769.47	5,125.12						
100.00	100.00	67.05	67.05	0.13	0.12	159.80	-4,809.89	1,769.57	5,125.08	5,124.82	0.25	N/A			
200.00	199.98	160.83	160.82	0.49	0.28	85.44	-4,809.87	1,770.02	5,125.08	5,124.31	0.77	6,640.409			
300.00	299.84	254.52	254.52	0.86	0.45	85.49	-4,809.84	1,770.84	5,124.94	5,123.64	1.30	3,946.227			
400.00	399.45	348.07	348.06	1.23	0.61	85.58	-4,809.79	1,772.02	5,124.65	5,122.81	1.84	2,785.024			
500.00	498.70	441.39	441.36	1.63	0.78	85.70	-4,809.73	1,773.57	5,124.22	5,121.82	2.40	2,133.996			
600.00	597.47	534.39	534.34	2.05	0.94	85.85	-4,809.65	1,775.48	5,123.68	5,120.69	2.99	1,714.658			
700.00	695.62	627.00	626.93	2.51	1.10	86.04	-4,809.56	1,777.74	5,123.05	5,119.44	3.61	1,420.420			
800.00	793.06	719.15	719.04	3.00	1.26	86.25	-4,809.45	1,780.35	5,122.36	5,118.09	4.26	1,201.754			
900.00	889.64	845.30	845.12	3.54	1.67	86.59	-4,808.89	1,784.57	5,121.41	5,116.20	5.21	983.808			
1,000.00	985.27	928.24	927.97	4.13	1.97	86.85	-4,807.85	1,788.15	5,119.94	5,113.84	6.09	840.188			
1,100.00	1,079.82	972.00	971.62	4.77	2.14	86.99	-4,807.21	1,791.24	5,119.13	5,112.24	6.89	742.683			
1,147.52	1,124.33	1,003.27	1,002.77	5.10	2.25	87.08	-4,806.80	1,793.95	5,119.01	5,111.67	7.34	697.322			
1,200.00	1,173.17	1,027.63	1,027.01	5.46	2.35	87.16	-4,806.57	1,796.25	5,119.14	5,111.34	7.80	656.496			
1,300.00	1,265.23	1,063.00	1,062.20	6.21	2.48	87.26	-4,806.36	1,799.89	5,120.10	5,111.41	8.68	589.660			
1,400.00	1,356.75	1,098.74	1,097.72	7.00	2.62	87.38	-4,806.49	1,803.90	5,122.28	5,112.67	9.61	533.239			
1,500.00	1,448.28	1,154.00	1,152.54	7.80	2.84	87.57	-4,807.68	1,810.64	5,126.11	5,115.50	10.61	482.944			
1,600.00	1,539.81	1,167.92	1,166.34	8.60	2.90	87.61	-4,808.13	1,812.43	5,130.90	5,119.44	11.47	447.483			
1,700.00	1,631.34	1,412.37	1,408.40	9.41	3.90	88.38	-4,811.95	1,846.24	5,135.63	5,122.35	13.28	386.795			
1,800.00	1,722.86	1,500.03	1,495.31	10.23	4.26	88.66	-4,811.98	1,857.61	5,138.56	5,124.11	14.45	355.621			
1,900.00	1,814.39	1,557.91	1,552.70	11.05	4.50	88.85	-4,812.29	1,865.16	5,142.16	5,126.66	15.50	331.678			
2,000.00	1,905.92	1,612.25	1,606.47	11.87	4.73	89.01	-4,812.87	1,873.00	5,146.71	5,130.17	16.55	311.072			
2,100.00	1,997.45	1,883.00	1,874.03	12.69	5.90	89.80	-4,809.86	1,914.12	5,148.63	5,130.09	18.54	277.710			
2,200.00	2,088.97	1,944.49	1,934.73	13.52	6.17	89.98	-4,808.46	1,923.85	5,150.79	5,131.15	19.63	262.333			
2,300.00	2,180.50	2,300.00	2,034.37	14.35	7.79	90.24	-4,806.16	1,941.86	5,153.51	5,131.44	22.07	233.516			
2,400.00	2,272.03	2,206.79	2,192.23	15.17	7.38	90.62	-4,799.69	1,972.90	5,154.69	5,132.19	22.51	229.010			
2,500.00	2,363.56	2,249.00	2,233.37	16.00	7.59	90.71	-4,797.83	1,982.14	5,156.73	5,133.19	23.54	219.064			
2,600.00	2,455.08	2,319.94	2,302.42	16.83	7.94	90.86	-4,795.17	1,998.14	5,159.57	5,134.84	24.72	208.696			
2,700.00	2,546.61	2,377.87	2,358.88	17.66	8.23	90.98	-4,793.56	2,011.06	5,163.27	5,137.44	25.84	199.826			
2,800.00	2,638.14	2,435.00	2,414.66	18.50	8.52	91.11	-4,792.54	2,023.35	5,167.81	5,140.86	26.95	191.774			
2,900.00	2,729.67	2,492.73	2,471.13	19.33	8.80	91.24	-4,792.08	2,035.36	5,173.19	5,145.14	28.05	184.419			
3,000.00	2,821.19	2,572.81	2,549.57	20.16	9.19	91.43	-4,792.19	2,051.45	5,179.35	5,150.09	29.26	176.986			
3,100.00	2,912.72	2,695.73	2,670.29	20.99	9.77	91.74	-4,792.40	2,074.57	5,185.37	5,154.70	30.68	169.021			
3,200.00	3,004.25	2,825.47	2,798.57	21.83	10.34	92.12	-4,792.97	2,093.84	5,190.89	5,158.81	32.08	161.809			
3,300.00	3,095.78	3,300.00	2,921.95	22.66	12.12	92.57	-4,794.82	2,105.10	5,196.45	5,161.86	34.59	150.215			
3,400.00	3,187.30	3,112.09	3,084.43	23.50	11.37	93.22	-4,796.36	2,112.59	5,200.60	5,165.82	34.78	149.515			
3,500.00	3,278.83	3,210.00	3,182.32	24.33	11.68	93.64	-4,797.48	2,114.15	5,204.79	5,168.87	35.92	144.900			
3,600.00	3,370.36	3,343.98	3,316.30	25.16	12.09	94.22	-4,798.42	2,115.29	5,208.73	5,171.57	37.16	140.159			
3,700.00	3,461.89	3,452.65	3,424.96	26.00	12.42	94.70	-4,798.74	2,115.36	5,212.48	5,174.16	38.32	136.027			
3,800.00	3,553.41	3,537.62	3,509.93	26.83	12.67	95.08	-4,798.91	2,115.32	5,216.44	5,177.04	39.40	132.400			
3,900.00	3,644.94	3,618.83	3,591.14	27.67	12.91	95.44	-4,799.31	2,114.85	5,220.89	5,180.44	40.46	129.045			
4,000.00	3,736.47	3,720.91	3,693.22	28.51	13.20	95.90	-4,799.97	2,113.78	5,225.74	5,184.17	41.57	125.701			
4,100.00	3,828.00	3,792.80	3,765.09	29.34	13.40	96.23	-4,800.37	2,112.72	5,230.79	5,188.20	42.60	122.798			
4,200.00	3,919.52	3,846.00	3,818.28	30.18	13.56	96.47	-4,801.02	2,111.96	5,236.76	5,193.19	43.56	120.216			
4,300.00	4,011.05	3,912.04	3,884.31	31.01	13.75	96.77	-4,802.20	2,111.13	5,243.58	5,199.02	44.56	117.662			
4,400.00	4,102.58	4,027.08	3,999.32	31.85	14.09	97.29	-4,804.50	2,109.66	5,250.95	5,205.23	45.72	114.847			
4,500.00	4,194.11	4,203.59	4,175.80	32.68	14.62	98.09	-4,805.20	2,106.85	5,256.77	5,209.70	47.07	111.685			
4,600.00	4,285.64	4,276.25	4,248.46	33.52	14.84	98.41	-4,805.24	2,106.36	5,263.04	5,214.94	48.09	109.433			
4,700.00	4,377.16	4,365.58	4,337.78	34.36	15.11	98.81	-4,805.55	2,105.82	5,269.91	5,220.73	49.17	107.173			
4,800.00	4,468.69	4,467.19	4,439.39	35.19	15.42	99.25	-4,805.70	2,105.04	5,276.88	5,226.59	50.29	104.934			
4,900.00	4,560.22	4,568.49	4,540.69	36.03	15.74	99.70	-4,805.71	2,104.37	5,284.04	5,232.64	51.40	102.800			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 747-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-6457C - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,651.75	4,661.83	4,634.03	36.87	16.04	100.11	-4,805.55	2,103.91	5,291.36	5,238.86	52.50	100.796			
5,100.00	4,743.27	4,749.78	4,721.97	37.70	16.33	100.47	-4,805.31	2,104.98	5,299.01	5,245.43	53.58	98.892			
5,200.00	4,834.80	4,868.37	4,840.54	38.54	16.74	100.96	-4,804.82	2,106.99	5,306.85	5,252.07	54.78	96.869			
5,300.00	4,926.33	4,958.66	4,930.81	39.38	17.04	101.33	-4,804.12	2,108.28	5,314.61	5,258.73	55.88	95.108			
5,400.00	5,017.86	5,042.05	5,014.20	40.21	17.33	101.68	-4,803.59	2,109.63	5,322.76	5,265.81	56.95	93.465			
5,500.00	5,109.38	5,146.81	5,118.94	41.05	17.69	102.10	-4,802.95	2,111.34	5,331.21	5,273.12	58.09	91.770			
5,600.00	5,200.91	5,269.98	5,242.10	41.89	18.11	102.61	-4,801.64	2,113.01	5,339.50	5,280.20	59.30	90.046			
5,700.00	5,292.44	5,337.99	5,310.09	42.73	18.34	102.89	-4,800.92	2,113.99	5,348.04	5,287.74	60.30	88.685			
5,800.00	5,383.97	5,462.84	5,434.91	43.56	18.77	103.39	-4,799.43	2,116.28	5,356.77	5,295.26	61.51	87.084			
5,900.00	5,475.51	5,539.00	5,511.04	44.40	19.04	100.05	-4,798.19	2,117.88	5,365.16	5,302.61	62.55	85.781			
6,000.00	5,567.37	5,602.35	5,574.35	45.19	19.26	77.24	-4,797.42	2,120.10	5,362.92	5,299.39	63.53	84.412			
6,100.00	5,657.57	5,681.82	5,653.59	45.89	19.57	58.40	-4,797.10	2,125.90	5,344.27	5,279.71	64.57	82.771			
6,200.00	5,743.38	5,802.24	5,772.12	46.48	20.08	45.87	-4,796.12	2,146.58	5,308.70	5,242.92	65.78	80.702			
6,300.00	5,822.18	6,050.44	5,993.44	46.95	21.58	37.66	-4,789.98	2,253.78	5,256.16	5,188.17	67.99	77.310			
6,400.00	5,891.60	6,103.00	6,031.42	47.31	22.00	32.34	-4,788.08	2,290.02	5,188.58	5,119.65	68.93	75.277			
6,500.00	5,949.50	6,103.00	6,031.42	47.58	22.00	29.31	-4,788.08	2,290.02	5,109.76	5,040.44	69.32	73.716			
6,600.00	5,994.15	6,135.45	6,052.53	47.76	22.32	27.52	-4,787.21	2,314.64	5,021.68	4,951.74	69.94	71.799			
6,700.00	6,024.17	6,145.20	6,058.47	47.86	22.41	27.73	-4,787.03	2,322.37	4,927.01	4,856.78	70.23	70.157			
6,800.00	6,038.67	6,149.99	6,061.33	47.91	22.46	36.97	-4,786.96	2,326.22	4,828.31	4,757.94	70.37	68.612			
6,900.00	6,040.00	6,150.59	6,061.68	47.93	22.47	128.01	-4,786.95	2,326.70	4,728.36	4,657.95	70.40	67.163			
7,000.00	6,040.00	6,150.76	6,061.77	47.98	22.47	128.12	-4,786.94	2,326.83	4,628.37	4,557.95	70.42	65.723			
7,100.00	6,040.00	6,150.93	6,061.88	48.09	22.47	128.24	-4,786.94	2,326.97	4,528.39	4,457.94	70.44	64.284			
7,200.00	6,040.00	6,151.11	6,061.98	48.23	22.47	128.36	-4,786.94	2,327.12	4,428.40	4,357.94	70.47	62.844			
7,300.00	6,040.00	6,151.29	6,062.09	48.43	22.47	128.49	-4,786.94	2,327.27	4,328.42	4,257.93	70.49	61.405			
7,400.00	6,040.00	6,151.48	6,062.20	48.67	22.48	128.61	-4,786.93	2,327.42	4,228.44	4,157.92	70.52	59.965			
7,500.00	6,040.00	6,151.68	6,062.32	48.97	22.48	128.75	-4,786.93	2,327.58	4,128.46	4,057.91	70.54	58.524			
7,600.00	6,040.00	6,151.88	6,062.44	49.32	22.48	128.89	-4,786.93	2,327.75	4,028.48	3,957.91	70.57	57.084			
7,700.00	6,040.00	6,152.09	6,062.56	49.73	22.48	129.03	-4,786.93	2,327.92	3,928.50	3,857.90	70.60	55.644			
7,800.00	6,040.00	6,152.31	6,062.69	50.19	22.48	129.18	-4,786.92	2,328.09	3,828.52	3,757.89	70.63	54.204			
7,900.00	6,040.00	6,152.54	6,062.82	50.71	22.49	129.33	-4,786.92	2,328.28	3,728.54	3,657.88	70.67	52.764			
8,000.00	6,040.00	6,152.77	6,062.96	51.29	22.49	129.49	-4,786.92	2,328.47	3,628.57	3,557.87	70.70	51.323			
8,100.00	6,040.00	6,153.01	6,063.10	51.93	22.49	129.66	-4,786.91	2,328.66	3,528.59	3,457.86	70.74	49.883			
8,200.00	6,040.00	6,153.27	6,063.25	52.63	22.49	129.83	-4,786.91	2,328.87	3,428.62	3,357.84	70.78	48.443			
8,300.00	6,040.00	6,153.53	6,063.40	53.39	22.50	130.01	-4,786.91	2,329.08	3,328.65	3,257.83	70.82	47.004			
8,400.00	6,040.00	6,153.80	6,063.56	54.20	22.50	130.20	-4,786.90	2,329.30	3,228.68	3,157.82	70.86	45.564			
8,500.00	6,040.00	6,154.08	6,063.72	55.07	22.50	130.40	-4,786.90	2,329.53	3,128.71	3,057.80	70.91	44.125			
8,600.00	6,040.00	6,154.38	6,063.89	55.99	22.50	130.60	-4,786.90	2,329.77	3,028.74	2,957.79	70.95	42.686			
8,700.00	6,040.00	6,154.68	6,064.07	56.97	22.51	130.81	-4,786.89	2,330.02	2,928.78	2,857.78	71.01	41.247			
8,800.00	6,040.00	6,155.00	6,064.26	57.99	22.51	131.03	-4,786.89	2,330.28	2,828.82	2,757.76	71.06	39.809			
8,900.00	6,040.00	6,155.34	6,064.45	59.06	22.51	131.26	-4,786.88	2,330.55	2,728.86	2,657.74	71.12	38.371			
9,000.00	6,040.00	6,155.69	6,064.65	60.17	22.52	131.51	-4,786.88	2,330.84	2,628.91	2,557.73	71.18	36.933			
9,100.00	6,040.00	6,156.05	6,064.86	61.32	22.52	131.76	-4,786.87	2,331.13	2,528.96	2,457.71	71.25	35.496			
9,200.00	6,040.00	6,156.43	6,065.08	62.51	22.52	132.03	-4,786.87	2,331.45	2,429.01	2,357.69	71.32	34.060			
9,300.00	6,040.00	6,156.83	6,065.31	63.73	22.53	132.31	-4,786.86	2,331.77	2,329.06	2,257.67	71.39	32.625			
9,400.00	6,040.00	6,157.25	6,065.56	64.98	22.53	132.60	-4,786.86	2,332.11	2,229.13	2,157.66	71.47	31.190			
9,500.00	6,040.00	6,157.69	6,065.81	66.27	22.54	132.91	-4,786.85	2,332.47	2,129.19	2,057.64	71.56	29.755			
9,600.00	6,040.00	6,158.16	6,066.08	67.58	22.54	133.24	-4,786.85	2,332.85	2,029.27	1,957.62	71.65	28.322			
9,700.00	6,040.00	6,158.64	6,066.36	68.92	22.55	133.58	-4,786.84	2,333.25	1,929.35	1,857.60	71.75	26.889			
9,800.00	6,040.00	6,159.16	6,066.65	70.29	22.55	133.94	-4,786.84	2,333.68	1,829.44	1,757.58	71.86	25.458			
9,900.00	6,040.00	6,159.70	6,066.96	71.67	22.56	134.33	-4,786.83	2,334.12	1,729.54	1,657.55	71.98	24.027			
10,000.00	6,040.00	6,160.27	6,067.29	73.08	22.56	134.73	-4,786.83	2,334.59	1,629.65	1,557.53	72.11	22.598			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 747-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-02-6457C - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,100.00	6,040.00	6,160.88	6,067.63	74.51	22.57	135.17	-4,786.82	2,335.09	1,529.77	1,457.51	72.26	21.170				
10,200.00	6,040.00	6,161.53	6,068.00	75.95	22.57	135.63	-4,786.81	2,335.62	1,429.92	1,357.49	72.42	19.744				
10,300.00	6,040.00	6,162.21	6,068.39	77.41	22.58	136.12	-4,786.81	2,336.19	1,330.08	1,257.47	72.61	18.319				
10,400.00	6,040.00	6,162.94	6,068.80	78.89	22.59	136.64	-4,786.80	2,336.79	1,230.27	1,157.45	72.82	16.895				
10,500.00	6,040.00	6,163.72	6,069.24	80.38	22.60	137.20	-4,786.79	2,337.43	1,130.49	1,057.44	73.06	15.474				
10,600.00	6,040.00	6,164.55	6,069.70	81.88	22.60	137.80	-4,786.78	2,338.12	1,030.76	957.42	73.34	14.055				
10,700.00	6,040.00	6,165.45	6,070.20	83.40	22.61	138.44	-4,786.78	2,338.86	931.08	857.41	73.67	12.639				
10,800.00	6,040.00	6,166.40	6,070.74	84.93	22.62	139.14	-4,786.77	2,339.66	831.48	757.41	74.07	11.225				
10,900.00	6,040.00	6,167.44	6,071.31	86.47	22.63	139.89	-4,786.76	2,340.52	731.98	657.42	74.57	9.816				
11,000.00	6,040.00	6,168.55	6,071.93	88.02	22.64	140.70	-4,786.75	2,341.45	632.65	557.44	75.21	8.412				
11,100.00	6,040.00	6,169.76	6,072.60	89.58	22.66	141.59	-4,786.74	2,342.45	533.55	457.49	76.06	7.015				
11,200.00	6,040.00	6,171.08	6,073.32	91.15	22.67	142.55	-4,786.73	2,343.55	434.87	357.60	77.27	5.628				
11,300.00	6,040.00	6,172.51	6,074.10	92.73	22.68	143.60	-4,786.73	2,344.76	336.96	257.85	79.11	4.260				
11,400.00	6,040.00	6,174.08	6,074.95	94.31	22.70	144.76	-4,786.72	2,346.08	240.76	158.54	82.22	2.928				
11,500.00	6,040.00	6,175.81	6,075.88	95.91	22.72	146.04	-4,786.71	2,347.53	149.62	61.59	88.03	1.700				
11,600.00	6,040.00	6,177.72	6,076.91	97.51	22.73	147.45	-4,786.70	2,349.15	82.47	-8.81	91.28	0.904	Level 1, ES, SF			
11,627.95	6,040.00	6,178.29	6,077.21	97.96	22.74	147.87	-4,786.70	2,349.63	77.59	-7.41	85.01	0.913	Level 1, CC			
11,700.00	6,040.00	6,179.85	6,078.03	99.11	22.76	149.02	-4,786.70	2,350.95	105.88	40.66	65.22	1.623				
11,800.00	6,040.00	6,182.22	6,079.28	100.73	22.78	150.77	-4,786.69	2,352.97	188.71	126.89	61.82	3.052				
11,900.00	6,040.00	6,184.90	6,080.67	102.35	22.81	152.73	-4,786.69	2,355.25	282.85	218.77	64.07	4.414				
12,000.00	6,040.00	6,187.93	6,082.23	103.97	22.84	154.95	-4,786.69	2,357.85	379.98	314.08	65.90	5.766				
12,100.00	6,040.00	6,191.39	6,083.99	105.60	22.87	157.47	-4,786.69	2,360.83	478.28	411.06	67.21	7.116				
12,200.00	6,040.00	6,195.38	6,085.99	107.24	22.91	160.34	-4,786.70	2,364.29	577.15	508.93	68.22	8.460				
12,300.00	6,040.00	6,200.04	6,088.27	108.88	22.96	163.63	-4,786.72	2,368.36	676.33	607.29	69.04	9.796				
12,400.00	6,040.00	6,205.55	6,090.90	110.53	23.01	167.42	-4,786.76	2,373.19	775.71	705.94	69.77	11.118				
12,500.00	6,040.00	6,212.14	6,093.97	112.18	23.07	171.80	-4,786.81	2,379.02	875.21	804.76	70.45	12.423				
12,600.00	6,040.00	12,600.00	6,075.22	113.83	86.46	147.34	-4,787.01	2,350.06	974.68	842.69	131.99	7.384				
12,700.00	6,040.00	12,700.00	6,075.50	115.49	87.45	147.69	-4,787.00	2,350.43	1,074.40	941.14	133.27	8.062				
12,800.00	6,040.00	6,218.01	6,096.55	117.16	23.18	175.55	-4,786.81	2,384.30	1,174.22	1,103.00	71.22	16.488				
12,900.00	6,040.00	6,221.97	6,098.26	118.82	23.23	177.99	-4,786.83	2,387.87	1,273.97	1,202.44	71.53	17.811				
13,000.00	6,040.00	6,226.01	6,099.97	120.49	23.28	-179.60	-4,786.85	2,391.53	1,373.75	1,301.93	71.82	19.128				
13,100.00	6,040.00	6,230.14	6,101.67	122.16	23.33	-177.22	-4,786.88	2,395.29	1,473.56	1,401.46	72.09	20.440				
13,200.00	6,040.00	6,234.35	6,103.35	123.84	23.38	-174.88	-4,786.90	2,399.16	1,573.38	1,501.02	72.35	21.746				
13,300.00	6,040.00	6,238.66	6,105.03	125.52	23.43	-172.57	-4,786.93	2,403.13	1,673.21	1,600.60	72.61	23.045				
13,400.00	6,040.00	6,243.06	6,106.69	127.20	23.48	-170.30	-4,786.96	2,407.20	1,773.06	1,700.21	72.85	24.338				
13,500.00	6,040.00	6,247.56	6,108.32	128.89	23.54	-168.07	-4,786.99	2,411.38	1,872.91	1,799.82	73.09	25.625				
13,600.00	6,040.00	6,252.14	6,109.94	130.58	23.59	-165.89	-4,787.02	2,415.68	1,972.78	1,899.45	73.32	26.905				
13,700.00	6,040.00	6,256.83	6,111.53	132.27	23.65	-163.75	-4,787.05	2,420.08	2,072.65	1,999.09	73.56	28.178				
13,800.00	6,040.00	6,261.61	6,113.10	133.96	23.71	-161.66	-4,787.08	2,424.60	2,172.52	2,098.74	73.78	29.444				
13,900.00	6,040.00	6,266.49	6,114.63	135.66	23.77	-159.62	-4,787.12	2,429.24	2,272.40	2,198.39	74.01	30.703				
14,000.00	6,040.00	6,271.48	6,116.12	137.35	23.83	-157.63	-4,787.16	2,433.99	2,372.29	2,298.05	74.24	31.955				
14,100.00	6,040.00	6,276.56	6,117.57	139.05	23.89	-155.69	-4,787.20	2,438.86	2,472.18	2,397.71	74.47	33.199				
14,200.00	6,040.00	6,281.74	6,118.98	140.75	23.95	-153.79	-4,787.24	2,443.85	2,572.07	2,497.38	74.69	34.436				
14,300.00	6,040.00	6,287.03	6,120.34	142.46	24.02	-151.94	-4,787.28	2,448.96	2,671.96	2,597.04	74.92	35.665				
14,400.00	6,040.00	6,292.42	6,121.64	144.17	24.08	-150.13	-4,787.33	2,454.19	2,771.85	2,696.71	75.15	36.886				
14,500.00	6,040.00	6,297.91	6,122.88	145.87	24.15	-148.37	-4,787.37	2,459.54	2,871.75	2,796.37	75.38	38.099				
14,600.00	6,040.00	6,303.51	6,124.06	147.58	24.22	-146.66	-4,787.42	2,465.01	2,971.65	2,896.04	75.61	39.304				
14,700.00	6,040.00	6,309.21	6,125.17	149.29	24.29	-144.98	-4,787.47	2,470.60	3,071.54	2,995.71	75.84	40.501				
14,800.00	6,040.00	6,302.79	6,123.97	151.01	24.23	-146.89	-4,787.41	2,464.30	3,171.47	3,095.88	75.58	41.960				
14,900.00	6,040.00	6,305.31	6,124.50	152.72	24.27	-146.14	-4,787.42	2,466.76	3,271.38	3,195.69	75.69	43.222				
15,000.00	6,040.00	6,307.78	6,125.02	154.44	24.30	-145.43	-4,787.44	2,469.17	3,371.29	3,295.50	75.79	44.481				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 747-MWD OWSG												Offset Well Error:		0.00 usft	
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	6,040.00	6,310.20	6,125.51	156.16	24.34	-144.74	-4,787.45	2,471.54	3,471.21	3,395.32	75.89	45.739			
15,200.00	6,040.00	6,312.57	6,125.98	157.88	24.37	-144.08	-4,787.47	2,473.87	3,571.13	3,495.14	75.99	46.994			
15,300.00	6,040.00	6,314.90	6,126.43	159.60	24.40	-143.45	-4,787.48	2,476.16	3,671.05	3,594.96	76.09	48.246			
15,400.00	6,040.00	6,317.19	6,126.87	161.32	24.43	-142.84	-4,787.49	2,478.40	3,770.98	3,694.79	76.19	49.497			
15,500.00	6,040.00	6,319.43	6,127.28	163.04	24.47	-142.25	-4,787.50	2,480.60	3,870.91	3,794.63	76.28	50.745			
15,600.00	6,040.00	6,321.63	6,127.68	164.77	24.50	-141.68	-4,787.52	2,482.77	3,970.84	3,894.46	76.38	51.991			
15,700.00	6,040.00	6,323.79	6,128.06	166.49	24.53	-141.13	-4,787.53	2,484.90	4,070.77	3,994.30	76.47	53.235			
15,800.00	6,040.00	6,325.92	6,128.43	168.22	24.56	-140.61	-4,787.53	2,486.99	4,170.70	4,094.14	76.56	54.477			
15,900.00	6,040.00	6,328.00	6,128.78	169.95	24.59	-140.10	-4,787.54	2,489.04	4,270.64	4,193.99	76.65	55.716			
16,000.00	6,040.00	6,330.05	6,129.12	171.68	24.62	-139.60	-4,787.55	2,491.06	4,370.57	4,293.83	76.74	56.954			
16,100.00	6,040.00	6,332.05	6,129.45	173.41	24.64	-139.12	-4,787.56	2,493.04	4,470.51	4,393.68	76.83	58.189			
16,200.00	6,040.00	6,334.03	6,129.76	175.14	24.67	-138.66	-4,787.56	2,494.99	4,570.45	4,493.54	76.91	59.422			
16,300.00	6,040.00	6,335.97	6,130.05	176.88	24.70	-138.21	-4,787.57	2,496.91	4,670.39	4,593.39	77.00	60.654			
16,400.00	6,040.00	6,337.87	6,130.34	178.61	24.73	-137.78	-4,787.57	2,498.79	4,770.34	4,693.25	77.09	61.882			
16,500.00	6,040.00	6,339.75	6,130.61	180.34	24.75	-137.36	-4,787.58	2,500.64	4,870.28	4,793.11	77.17	63.109			
16,600.00	6,040.00	6,341.59	6,130.88	182.08	24.78	-136.95	-4,787.58	2,502.46	4,970.22	4,892.97	77.26	64.334			
16,700.00	6,040.00	6,343.39	6,131.13	183.82	24.80	-136.56	-4,787.59	2,504.25	5,070.17	4,992.83	77.34	65.557			
16,800.00	6,040.00	6,345.17	6,131.37	185.56	24.83	-136.18	-4,787.59	2,506.02	5,170.12	5,092.70	77.42	66.777			
16,865.66	6,040.00	6,346.32	6,131.52	186.70	24.85	-135.93	-4,787.59	2,507.16	5,235.74	5,158.27	77.48	67.578			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 780-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-0108C - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	159.86	-4,824.09	1,769.48	5,138.46					
100.00	100.00	0.00	0.00	0.13	0.00	159.86	-4,824.09	1,769.48	5,138.88	5,138.74	0.14	N/A		
200.00	199.98	0.00	0.00	0.49	0.00	85.44	-4,824.09	1,769.48	5,141.10	5,140.61	0.49	N/A		
300.00	299.84	0.00	0.00	0.86	0.00	85.37	-4,824.09	1,769.48	5,144.99	5,144.13	0.86	5,992.108		
400.00	399.45	0.00	0.00	1.23	0.00	85.25	-4,824.09	1,769.48	5,150.54	5,149.31	1.24	4,166.729		
453.62	452.72	186.17	186.10	1.44	0.46	85.43	-4,827.87	1,771.69	5,146.53	5,144.73	1.80	2,857.367		
500.00	498.70	206.35	206.25	1.63	0.51	85.42	-4,828.74	1,772.19	5,148.32	5,146.30	2.02	2,543.379		
600.00	597.47	249.69	249.53	2.05	0.62	85.40	-4,830.89	1,773.45	5,152.79	5,150.26	2.53	2,037.423		
700.00	695.62	292.78	292.51	2.51	0.72	85.38	-4,833.44	1,774.94	5,158.09	5,155.02	3.06	1,683.032		
800.00	793.06	335.56	335.16	3.00	0.83	85.36	-4,836.37	1,776.66	5,164.22	5,160.59	3.64	1,420.041		
900.00	889.64	377.99	377.41	3.54	0.93	85.33	-4,839.67	1,778.59	5,171.20	5,166.95	4.25	1,216.818		
1,000.00	985.27	420.01	419.22	4.13	1.04	85.30	-4,843.32	1,780.73	5,179.03	5,174.12	4.91	1,055.095		
1,100.00	1,079.82	461.57	460.53	4.77	1.14	85.27	-4,847.31	1,783.06	5,187.73	5,182.11	5.62	923.546		
1,200.00	1,173.17	502.64	501.29	5.46	1.24	85.23	-4,851.62	1,785.58	5,197.30	5,190.92	6.38	814.729		
1,300.00	1,265.23	543.17	541.47	6.21	1.34	85.21	-4,856.23	1,788.28	5,207.75	5,200.56	7.20	723.674		
1,400.00	1,356.75	583.47	581.35	7.00	1.44	85.38	-4,861.16	1,791.17	5,219.28	5,211.23	8.04	648.810		
1,500.00	1,448.28	779.50	774.47	7.80	1.93	86.18	-4,890.17	1,808.14	5,237.28	5,228.05	9.23	567.521		
1,600.00	1,539.81	779.50	774.47	8.60	1.93	86.18	-4,890.17	1,808.14	5,248.76	5,238.75	10.01	524.412		
1,700.00	1,631.34	779.50	774.47	9.41	1.93	86.18	-4,890.17	1,808.14	5,262.12	5,251.33	10.79	487.708		
1,800.00	1,722.86	779.50	774.47	10.23	1.93	86.18	-4,890.17	1,808.14	5,277.35	5,265.78	11.57	456.198		
1,900.00	1,814.39	787.59	782.39	11.05	1.97	86.21	-4,891.53	1,808.94	5,294.40	5,282.03	12.38	427.721		
2,000.00	1,905.92	854.45	847.93	11.87	2.30	86.47	-4,903.01	1,815.63	5,312.58	5,299.14	13.44	395.321		
2,100.00	1,997.45	923.83	915.86	12.69	2.64	86.75	-4,915.20	1,822.70	5,331.41	5,316.90	14.51	367.406		
2,200.00	2,088.97	972.00	962.99	13.52	2.88	86.93	-4,923.80	1,827.70	5,350.89	5,335.41	15.49	345.473		
2,300.00	2,180.50	1,023.87	1,013.64	14.35	3.15	87.13	-4,933.35	1,833.57	5,371.31	5,354.82	16.49	325.763		
2,400.00	2,272.03	2,400.00	1,121.48	15.17	10.40	87.54	-4,953.99	1,847.68	5,392.38	5,366.84	25.55	211.090		
2,500.00	2,363.56	1,211.23	1,196.23	16.00	4.14	87.81	-4,967.71	1,857.64	5,413.10	5,394.22	18.87	286.787		
2,600.00	2,455.08	1,260.51	1,244.06	16.83	4.41	87.98	-4,976.91	1,865.09	5,435.00	5,415.14	19.87	273.593		
2,700.00	2,546.61	1,400.23	1,379.74	17.66	5.17	88.44	-5,002.11	1,887.00	5,456.59	5,435.28	21.31	256.113		
2,800.00	2,638.14	1,472.67	1,450.07	18.50	5.56	88.67	-5,015.13	1,898.46	5,478.43	5,456.01	22.42	244.395		
2,900.00	2,729.67	1,611.00	1,584.31	19.33	6.32	89.11	-5,039.90	1,920.84	5,500.52	5,476.66	23.86	230.509		
3,000.00	2,821.19	1,611.00	1,584.31	20.16	6.32	89.11	-5,039.90	1,920.84	5,522.90	5,498.30	24.61	224.450		
3,100.00	2,912.72	1,650.97	1,623.07	20.99	6.55	89.24	-5,047.28	1,927.25	5,546.25	5,520.70	25.55	217.096		
3,200.00	3,004.25	1,702.00	1,672.22	21.83	6.85	89.40	-5,058.53	1,935.02	5,571.74	5,545.20	26.54	209.922		
3,300.00	3,095.78	1,702.00	1,672.22	22.66	6.85	89.40	-5,058.53	1,935.02	5,597.69	5,570.44	27.26	205.365		
3,400.00	3,187.30	1,849.73	1,814.51	23.50	7.72	89.89	-5,091.14	1,957.64	5,624.23	5,595.46	28.77	195.505		
3,500.00	3,278.83	2,226.34	2,180.49	24.33	9.77	91.15	-5,164.05	2,007.73	5,647.93	5,616.50	31.44	179.655		
3,600.00	3,370.36	2,342.00	2,293.63	25.16	10.36	91.54	-5,183.59	2,021.68	5,669.38	5,636.63	32.75	173.109		
3,700.00	3,461.89	2,392.32	2,342.89	26.00	10.62	91.71	-5,192.05	2,027.54	5,691.00	5,657.26	33.74	168.678		
3,800.00	3,553.41	2,436.00	2,385.52	26.83	10.84	91.86	-5,199.92	2,032.84	5,713.78	5,679.09	34.69	164.713		
3,900.00	3,644.94	2,470.98	2,419.59	27.67	11.03	91.97	-5,206.53	2,037.21	5,737.56	5,701.97	35.59	161.203		
4,000.00	3,736.47	3,725.79	3,659.58	28.51	16.04	96.51	-5,337.57	2,118.68	5,758.08	5,716.59	41.49	138.782		
4,100.00	3,828.00	3,864.90	3,798.63	29.34	16.37	97.10	-5,338.80	2,115.10	5,763.87	5,721.15	42.71	134.947		
4,200.00	3,919.52	3,923.09	3,856.82	30.18	16.53	97.34	-5,339.19	2,114.23	5,769.81	5,726.08	43.73	131.948		
4,300.00	4,011.05	4,017.96	3,951.69	31.01	16.78	97.71	-5,339.79	2,114.16	5,776.23	5,731.38	44.85	128.781		
4,400.00	4,102.58	4,111.62	4,045.34	31.85	17.04	98.09	-5,340.28	2,114.07	5,782.82	5,736.84	45.98	125.779		
4,500.00	4,194.11	4,500.00	4,216.24	32.68	18.02	98.77	-5,340.20	2,113.21	5,789.20	5,741.25	47.94	120.752		
4,600.00	4,285.64	4,425.37	4,359.06	33.52	17.83	99.34	-5,338.12	2,111.91	5,794.35	5,745.82	48.53	119.394		
4,700.00	4,377.16	4,507.00	4,440.68	34.36	18.02	99.67	-5,336.75	2,110.88	5,799.68	5,750.08	49.59	116.942		
4,800.00	4,468.69	4,558.17	4,491.84	35.19	18.16	99.88	-5,336.08	2,110.50	5,805.71	5,755.13	50.58	114.779		
4,900.00	4,560.22	4,606.32	4,539.99	36.03	18.29	100.06	-5,335.83	2,110.82	5,812.78	5,761.22	51.56	112.747		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 780-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-0108C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,651.75	4,707.73	4,641.39	36.87	18.58	100.45	-5,335.40	2,112.18	5,820.25	5,767.56	52.70	110.450			
5,100.00	4,743.27	4,762.62	4,696.27	37.70	18.74	100.66	-5,335.38	2,112.56	5,828.29	5,774.60	53.69	108.558			
5,200.00	4,834.80	4,830.45	4,764.10	38.54	18.93	100.92	-5,335.79	2,112.44	5,837.11	5,782.40	54.72	106.680			
5,300.00	4,926.33	4,908.23	4,841.88	39.38	19.16	101.23	-5,336.44	2,112.33	5,846.44	5,790.67	55.77	104.826			
5,400.00	5,017.86	4,985.83	4,919.48	40.21	19.40	101.53	-5,337.29	2,112.39	5,856.28	5,799.45	56.83	103.051			
5,500.00	5,109.38	5,097.99	5,031.63	41.05	19.74	101.96	-5,338.45	2,112.73	5,866.33	5,808.33	58.00	101.147			
5,600.00	5,200.91	5,191.47	5,125.10	41.89	20.03	102.32	-5,339.07	2,112.93	5,876.29	5,817.19	59.10	99.423			
5,700.00	5,292.44	5,257.00	5,190.63	42.73	20.23	102.57	-5,339.81	2,113.21	5,886.92	5,826.81	60.11	97.929			
5,800.00	5,383.97	5,399.06	5,332.69	43.56	20.68	103.11	-5,340.80	2,113.86	5,897.39	5,836.01	61.38	96.083			
5,900.00	5,475.51	5,822.00	5,747.59	44.40	22.12	100.54	-5,331.20	2,170.48	5,906.44	5,842.69	63.75	92.657			
6,000.00	5,567.37	5,822.00	5,747.59	45.19	22.12	77.49	-5,331.20	2,170.48	5,900.95	5,836.38	64.57	91.382			
6,100.00	5,657.57	5,916.00	5,831.43	45.89	22.57	58.33	-5,327.29	2,212.65	5,878.89	5,813.01	65.88	89.237			
6,200.00	5,743.38	5,975.77	5,880.85	46.48	22.91	45.33	-5,324.98	2,246.11	5,840.60	5,773.60	67.00	87.172			
6,300.00	5,822.18	6,020.87	5,915.27	46.95	23.18	37.01	-5,323.62	2,275.20	5,787.56	5,719.60	67.95	85.172			
6,400.00	5,891.60	6,075.33	5,953.30	47.31	23.57	31.57	-5,322.20	2,314.13	5,721.02	5,652.08	68.94	82.987			
6,500.00	5,949.50	6,104.00	5,971.66	47.58	23.79	28.10	-5,321.51	2,336.13	5,642.85	5,573.26	69.59	81.082			
6,600.00	5,994.15	6,135.61	5,990.86	47.76	24.06	25.83	-5,320.85	2,361.23	5,555.30	5,485.08	70.22	79.113			
6,700.00	6,024.17	6,150.45	5,999.59	47.86	24.19	24.74	-5,320.59	2,373.23	5,460.89	5,390.33	70.56	77.391			
6,800.00	6,038.67	6,157.73	6,003.81	47.91	24.26	25.96	-5,320.48	2,379.16	5,362.30	5,291.57	70.73	75.817			
6,900.00	6,040.00	6,158.62	6,004.32	47.93	24.26	73.15	-5,320.46	2,379.88	5,262.34	5,191.59	70.75	74.380			
7,000.00	6,040.00	6,158.86	6,004.46	47.98	24.27	73.32	-5,320.46	2,380.08	5,162.34	5,091.58	70.76	72.957			
7,100.00	6,040.00	6,159.10	6,004.60	48.09	24.27	73.51	-5,320.46	2,380.28	5,062.34	4,991.57	70.77	71.533			
7,200.00	6,040.00	6,159.35	6,004.75	48.23	24.27	73.70	-5,320.45	2,380.48	4,962.34	4,891.56	70.78	70.110			
7,300.00	6,040.00	6,159.61	6,004.89	48.43	24.27	73.89	-5,320.45	2,380.69	4,862.34	4,791.55	70.79	68.687			
7,400.00	6,040.00	6,159.86	6,005.04	48.67	24.27	74.10	-5,320.45	2,380.90	4,762.35	4,691.54	70.80	67.263			
7,500.00	6,040.00	6,160.13	6,005.19	48.97	24.28	74.31	-5,320.44	2,381.12	4,662.35	4,591.53	70.81	65.839			
7,600.00	6,040.00	6,160.40	6,005.35	49.32	24.28	74.53	-5,320.44	2,381.34	4,562.35	4,491.52	70.83	64.415			
7,700.00	6,040.00	6,160.67	6,005.50	49.73	24.28	74.76	-5,320.43	2,381.56	4,462.35	4,391.51	70.84	62.991			
7,800.00	6,040.00	6,160.95	6,005.66	50.19	24.28	75.00	-5,320.43	2,381.79	4,362.35	4,291.50	70.86	61.567			
7,900.00	6,040.00	6,161.23	6,005.83	50.71	24.29	75.25	-5,320.43	2,382.02	4,262.35	4,191.48	70.87	60.143			
8,000.00	6,040.00	6,161.52	6,005.99	51.29	24.29	75.51	-5,320.42	2,382.26	4,162.35	4,091.47	70.89	58.719			
8,100.00	6,040.00	6,161.82	6,006.16	51.93	24.29	75.79	-5,320.42	2,382.50	4,062.36	3,991.45	70.90	57.295			
8,200.00	6,040.00	6,162.12	6,006.34	52.63	24.30	76.07	-5,320.41	2,382.75	3,962.36	3,891.44	70.92	55.871			
8,300.00	6,040.00	6,162.43	6,006.51	53.39	24.30	76.37	-5,320.41	2,383.00	3,862.36	3,791.42	70.94	54.448			
8,400.00	6,040.00	6,162.74	6,006.69	54.20	24.30	76.68	-5,320.40	2,383.26	3,762.36	3,691.40	70.96	53.024			
8,500.00	6,040.00	6,163.06	6,006.88	55.07	24.30	77.01	-5,320.40	2,383.52	3,662.36	3,591.39	70.97	51.601			
8,600.00	6,040.00	6,163.39	6,007.06	55.99	24.31	77.36	-5,320.39	2,383.79	3,562.36	3,491.37	70.99	50.178			
8,700.00	6,040.00	6,163.73	6,007.25	56.97	24.31	77.72	-5,320.39	2,384.07	3,462.36	3,391.35	71.02	48.755			
8,800.00	6,040.00	6,164.07	6,007.45	57.99	24.31	78.11	-5,320.38	2,384.35	3,362.37	3,291.33	71.04	47.332			
8,900.00	6,040.00	6,164.42	6,007.65	59.06	24.32	78.51	-5,320.38	2,384.63	3,262.37	3,191.31	71.06	45.910			
9,000.00	6,040.00	6,164.77	6,007.85	60.17	24.32	78.94	-5,320.37	2,384.93	3,162.37	3,091.29	71.08	44.489			
9,100.00	6,040.00	6,165.14	6,008.06	61.32	24.32	79.39	-5,320.37	2,385.23	3,062.37	2,991.26	71.11	43.067			
9,200.00	6,040.00	6,165.51	6,008.27	62.51	24.33	79.86	-5,320.36	2,385.53	2,962.37	2,891.24	71.13	41.646			
9,300.00	6,040.00	6,165.89	6,008.49	63.73	24.33	80.37	-5,320.36	2,385.85	2,862.38	2,791.22	71.16	40.226			
9,400.00	6,040.00	6,166.29	6,008.71	64.98	24.33	80.91	-5,320.35	2,386.17	2,762.38	2,691.19	71.18	38.806			
9,500.00	6,040.00	6,166.68	6,008.94	66.27	24.34	81.48	-5,320.35	2,386.50	2,662.38	2,591.17	71.21	37.387			
9,600.00	6,040.00	6,167.09	6,009.18	67.58	24.34	82.09	-5,320.34	2,386.83	2,562.38	2,491.14	71.24	35.968			
9,700.00	6,040.00	6,167.51	6,009.41	68.92	24.34	82.75	-5,320.34	2,387.18	2,462.38	2,391.11	71.27	34.550			
9,800.00	6,040.00	6,167.94	6,009.66	70.29	24.35	83.45	-5,320.33	2,387.53	2,362.39	2,291.08	71.30	33.132			
9,900.00	6,040.00	6,168.38	6,009.91	71.67	24.35	84.20	-5,320.33	2,387.89	2,262.39	2,191.05	71.33	31.716			
10,000.00	6,040.00	6,168.83	6,010.16	73.08	24.36	85.01	-5,320.32	2,388.26	2,162.39	2,091.02	71.37	30.300			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 780-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
10,100.00	6,040.00	6,169.29	6,010.42	74.51	24.36	85.88	-5,320.31	2,388.64	2,062.39	1,990.99	71.40	28.884						
10,200.00	6,040.00	6,169.77	6,010.69	75.95	24.36	86.82	-5,320.31	2,389.03	1,962.40	1,890.96	71.44	27.470						
10,300.00	6,040.00	6,170.25	6,010.97	77.41	24.37	87.85	-5,320.30	2,389.43	1,862.40	1,790.92	71.48	26.056						
10,400.00	6,040.00	6,170.75	6,011.25	78.89	24.37	88.96	-5,320.29	2,389.84	1,762.40	1,690.89	71.52	24.644						
10,500.00	6,040.00	6,171.26	6,011.54	80.38	24.38	90.17	-5,320.29	2,390.27	1,662.41	1,590.85	71.56	23.232						
10,600.00	6,040.00	6,171.79	6,011.84	81.88	24.38	91.50	-5,320.28	2,390.70	1,562.41	1,490.81	71.60	21.821						
10,700.00	6,040.00	6,172.33	6,012.14	83.40	24.39	92.95	-5,320.27	2,391.14	1,462.41	1,390.77	71.65	20.412						
10,800.00	6,040.00	6,172.88	6,012.45	84.93	24.39	94.56	-5,320.27	2,391.60	1,362.42	1,290.72	71.69	19.003						
10,900.00	6,040.00	6,173.45	6,012.78	86.47	24.40	96.33	-5,320.26	2,392.07	1,262.42	1,190.67	71.75	17.596						
11,000.00	6,040.00	6,174.04	6,013.11	88.02	24.40	98.29	-5,320.25	2,392.56	1,162.42	1,090.62	71.80	16.189						
11,100.00	6,040.00	6,174.64	6,013.44	89.58	24.41	100.47	-5,320.24	2,393.05	1,062.43	990.57	71.86	14.784						
11,200.00	6,040.00	6,175.26	6,013.79	91.15	24.41	102.91	-5,320.24	2,393.57	962.43	890.51	71.93	13.380						
11,300.00	6,040.00	6,175.90	6,014.15	92.73	24.42	105.63	-5,320.23	2,394.09	862.44	790.44	72.00	11.978						
11,400.00	6,040.00	6,176.56	6,014.52	94.31	24.43	108.68	-5,320.22	2,394.64	762.45	690.36	72.09	10.577						
11,500.00	6,040.00	6,177.23	6,014.90	95.91	24.43	112.10	-5,320.21	2,395.20	662.46	590.27	72.19	9.177						
11,600.00	6,040.00	6,177.93	6,015.29	97.51	24.44	115.94	-5,320.20	2,395.78	562.47	490.16	72.31	7.779						
11,700.00	6,040.00	6,178.65	6,015.70	99.11	24.44	120.23	-5,320.20	2,396.38	462.48	390.02	72.47	6.382						
11,800.00	6,040.00	6,179.40	6,016.11	100.73	24.45	125.01	-5,320.19	2,396.99	362.50	289.81	72.69	4.987						
11,900.00	6,040.00	6,180.16	6,016.54	102.35	24.46	130.28	-5,320.18	2,397.63	262.53	189.49	73.05	3.594						
12,000.00	6,040.00	6,180.96	6,016.98	103.97	24.47	136.03	-5,320.17	2,398.29	162.60	88.80	73.80	2.203						
12,100.00	6,040.00	6,181.78	6,017.44	105.60	24.47	142.19	-5,320.16	2,398.97	62.88	-13.98	76.86	0.818	Level 1					
12,162.44	6,040.00	6,182.30	6,017.73	106.63	24.48	146.20	-5,320.15	2,399.40	7.50	-86.21	93.71	0.080	Level 1, CC, ES, SF					
12,200.00	6,040.00	6,182.62	6,017.91	107.24	24.48	148.65	-5,320.15	2,399.67	38.31	-27.01	65.31	0.586	Level 1					
12,300.00	6,040.00	6,183.50	6,018.40	108.88	24.49	155.27	-5,320.14	2,400.40	137.76	67.74	70.02	1.967						
12,400.00	6,040.00	6,184.41	6,018.90	110.53	24.50	161.88	-5,320.13	2,401.15	237.67	166.74	70.93	3.351						
12,500.00	6,040.00	6,185.35	6,019.42	112.18	24.51	168.31	-5,320.12	2,401.94	337.64	266.29	71.34	4.732						
12,600.00	6,040.00	6,186.32	6,019.96	113.83	24.52	174.41	-5,320.11	2,402.75	437.61	366.02	71.59	6.112						
12,700.00	6,040.00	6,187.33	6,020.52	115.49	24.52	-179.91	-5,320.10	2,403.59	537.60	465.82	71.77	7.490						
12,800.00	6,040.00	6,188.38	6,021.10	117.16	24.53	-174.70	-5,320.09	2,404.47	637.58	565.67	71.91	8.866						
12,900.00	6,040.00	6,189.47	6,021.70	118.82	24.54	-170.00	-5,320.08	2,405.37	737.57	665.54	72.03	10.239						
13,000.00	6,040.00	6,190.60	6,022.32	120.49	24.55	-165.77	-5,320.07	2,406.32	837.56	765.42	72.14	11.610						
13,100.00	6,040.00	6,191.78	6,022.97	122.16	24.57	-161.99	-5,320.05	2,407.30	937.56	865.31	72.24	12.978						
13,200.00	6,040.00	6,193.01	6,023.64	123.84	24.58	-158.61	-5,320.04	2,408.33	1,037.55	965.21	72.33	14.344						
13,300.00	6,040.00	6,194.29	6,024.34	125.52	24.59	-155.60	-5,320.03	2,409.40	1,137.54	1,065.11	72.42	15.706						
13,400.00	6,040.00	6,195.62	6,025.07	127.20	24.60	-152.90	-5,320.02	2,410.52	1,237.53	1,165.02	72.51	17.066						
13,500.00	6,040.00	6,197.01	6,025.82	128.89	24.61	-150.49	-5,320.00	2,411.68	1,337.52	1,264.92	72.60	18.423						
13,600.00	6,040.00	6,198.57	6,026.67	130.58	24.63	-148.17	-5,319.99	2,412.99	1,437.52	1,364.82	72.70	19.775						
13,700.00	6,040.00	6,200.51	6,027.73	132.27	24.65	-145.74	-5,319.97	2,414.63	1,537.51	1,464.70	72.81	21.117						
13,800.00	6,040.00	6,202.65	6,028.88	133.96	24.67	-143.52	-5,319.96	2,416.42	1,637.50	1,564.57	72.93	22.453						
13,900.00	6,040.00	6,205.00	6,030.14	135.66	24.70	-141.50	-5,319.94	2,418.41	1,737.49	1,664.43	73.06	23.782						
14,000.00	6,040.00	6,207.61	6,031.54	137.35	24.72	-139.64	-5,319.92	2,420.61	1,837.48	1,764.29	73.20	25.104						
14,100.00	6,040.00	6,210.51	6,033.09	139.05	24.75	-137.93	-5,319.90	2,423.07	1,937.47	1,864.13	73.34	26.417						
14,200.00	6,040.00	6,213.77	6,034.82	140.75	24.79	-136.34	-5,319.89	2,425.83	2,037.46	1,963.96	73.50	27.719						
14,300.00	6,040.00	6,217.45	6,036.76	142.46	24.83	-134.87	-5,319.87	2,428.95	2,137.45	2,063.77	73.68	29.010						
14,400.00	6,040.00	6,221.64	6,038.96	144.17	24.87	-133.49	-5,319.86	2,432.52	2,237.43	2,163.56	73.87	30.287						
14,500.00	6,040.00	6,226.45	6,041.46	145.87	24.92	-132.19	-5,319.85	2,436.63	2,337.41	2,263.32	74.09	31.547						
14,600.00	6,040.00	6,232.03	6,044.33	147.58	24.98	-130.96	-5,319.84	2,441.41	2,437.39	2,363.05	74.34	32.786						
14,700.00	6,040.00	6,238.58	6,047.68	149.29	25.05	-129.77	-5,319.85	2,447.05	2,537.37	2,462.74	74.63	33.999						
14,800.00	6,040.00	6,246.38	6,051.60	151.01	25.14	-128.62	-5,319.87	2,453.78	2,637.34	2,562.38	74.97	35.181						
14,900.00	6,040.00	6,255.82	6,056.28	152.72	25.24	-127.48	-5,319.91	2,461.98	2,737.31	2,661.94	75.37	36.320						
15,000.00	6,040.00	6,267.47	6,061.94	154.44	25.37	-126.34	-5,320.00	2,472.16	2,837.27	2,761.41	75.86	37.403						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 780-MWD OWSG												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,282.22	6,068.93	156.16	25.53	-125.16	-5,320.16	2,485.15	2,937.22	2,860.75	76.47	38.409		
15,200.00	6,040.00	6,301.47	6,077.75	157.88	25.75	-123.89	-5,320.45	2,502.25	3,037.15	2,959.88	77.27	39.304		
15,300.00	6,040.00	15,300.00	6,056.24	159.60	139.52	-126.46	-5,320.19	2,464.15	3,136.89	2,950.59	186.30	16.838		
15,400.00	6,040.00	6,300.40	6,077.25	161.32	25.75	-123.94	-5,320.42	2,501.31	3,237.02	3,159.84	77.18	41.943		
15,500.00	6,040.00	6,303.41	6,078.57	163.04	25.79	-123.74	-5,320.47	2,504.02	3,336.96	3,259.67	77.28	43.179		
15,600.00	6,040.00	6,306.39	6,079.87	164.77	25.83	-123.55	-5,320.51	2,506.70	3,436.89	3,359.50	77.39	44.412		
15,700.00	6,040.00	6,309.34	6,081.13	166.49	25.86	-123.36	-5,320.55	2,509.37	3,536.83	3,459.33	77.49	45.641		
15,800.00	6,040.00	6,312.25	6,082.36	168.22	25.90	-123.17	-5,320.59	2,512.01	3,636.76	3,559.17	77.60	46.868		
15,900.00	6,040.00	6,315.13	6,083.56	169.95	25.94	-122.99	-5,320.63	2,514.62	3,736.70	3,659.00	77.70	48.092		
16,000.00	6,040.00	6,317.98	6,084.73	171.68	25.97	-122.81	-5,320.67	2,517.22	3,836.64	3,758.83	77.80	49.313		
16,100.00	6,040.00	6,320.79	6,085.87	173.41	26.01	-122.63	-5,320.70	2,519.79	3,936.58	3,858.67	77.91	50.530		
16,200.00	6,040.00	6,323.57	6,086.98	175.14	26.05	-122.45	-5,320.74	2,522.33	4,036.51	3,958.51	78.01	51.745		
16,300.00	6,040.00	6,326.32	6,088.07	176.88	26.08	-122.28	-5,320.77	2,524.86	4,136.45	4,058.34	78.11	52.958		
16,400.00	6,040.00	6,329.03	6,089.13	178.61	26.12	-122.10	-5,320.81	2,527.36	4,236.39	4,158.18	78.21	54.167		
16,500.00	6,040.00	6,331.72	6,090.16	180.34	26.15	-121.93	-5,320.84	2,529.84	4,336.33	4,258.02	78.31	55.373		
16,600.00	6,040.00	6,334.37	6,091.16	182.08	26.19	-121.76	-5,320.87	2,532.29	4,436.28	4,357.86	78.41	56.577		
16,700.00	6,040.00	6,336.99	6,092.14	183.82	26.22	-121.60	-5,320.90	2,534.72	4,536.22	4,457.71	78.51	57.778		
16,800.00	6,040.00	6,339.58	6,093.10	185.56	26.25	-121.43	-5,320.93	2,537.13	4,636.16	4,557.55	78.61	58.976		
16,865.66	6,040.00	6,341.27	6,093.71	186.70	26.28	-121.33	-5,320.95	2,538.70	4,701.78	4,623.11	78.68	59.761		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 777-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CN - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	159.91	-4,839.03	1,769.48	5,152.48						
100.00	100.00	0.00	0.00	0.13	0.00	159.91	-4,839.03	1,769.48	5,152.90	5,152.76	0.14	N/A			
200.00	199.98	0.00	0.00	0.49	0.00	85.50	-4,839.03	1,769.48	5,155.12	5,154.63	0.49	N/A			
300.00	299.84	0.00	0.00	0.86	0.00	85.42	-4,839.03	1,769.48	5,159.01	5,158.15	0.86	6,008.571			
400.00	399.45	0.00	0.00	1.23	0.00	85.31	-4,839.03	1,769.48	5,164.55	5,163.31	1.24	4,178.096			
467.09	466.09	188.21	188.14	1.50	0.47	85.49	-4,843.33	1,770.96	5,161.21	5,159.36	1.86	2,780.552			
500.00	498.70	202.22	202.13	1.63	0.50	85.48	-4,843.99	1,771.19	5,162.53	5,160.52	2.01	2,563.524			
600.00	597.47	244.62	244.46	2.05	0.61	85.46	-4,846.29	1,771.99	5,167.09	5,164.57	2.52	2,053.589			
700.00	695.62	286.72	286.46	2.51	0.71	85.45	-4,849.01	1,772.93	5,172.50	5,169.45	3.05	1,696.451			
800.00	793.06	328.46	328.07	3.00	0.82	85.42	-4,852.12	1,774.00	5,178.77	5,175.15	3.62	1,431.445			
900.00	889.64	369.78	369.22	3.54	0.92	85.40	-4,855.62	1,775.21	5,185.91	5,181.68	4.23	1,226.678			
1,000.00	985.27	410.63	409.87	4.13	1.02	85.37	-4,859.48	1,776.55	5,193.92	5,189.04	4.88	1,063.738			
1,100.00	1,079.82	450.96	449.95	4.77	1.12	85.34	-4,863.69	1,778.01	5,202.83	5,197.24	5.59	931.204			
1,200.00	1,173.17	490.72	489.42	5.46	1.22	85.30	-4,868.22	1,779.58	5,212.64	5,206.29	6.34	821.579			
1,300.00	1,265.23	529.85	528.21	6.21	1.32	85.28	-4,873.06	1,781.25	5,223.36	5,216.21	7.16	729.854			
1,400.00	1,356.75	568.68	566.66	7.00	1.41	85.45	-4,878.22	1,783.03	5,235.19	5,227.19	8.00	654.450			
1,500.00	1,448.28	776.50	771.36	7.80	1.93	86.36	-4,911.98	1,794.72	5,254.61	5,245.41	9.20	571.048			
1,600.00	1,539.81	776.50	771.36	8.60	1.93	86.36	-4,911.98	1,794.72	5,266.26	5,256.28	9.98	527.661			
1,700.00	1,631.34	776.50	771.36	9.41	1.93	86.36	-4,911.98	1,794.72	5,279.77	5,269.01	10.76	490.722			
1,800.00	1,722.86	776.50	771.36	10.23	1.93	86.36	-4,911.98	1,794.72	5,295.14	5,283.60	11.54	459.011			
1,900.00	1,814.39	776.50	771.36	11.05	1.93	86.36	-4,911.98	1,794.72	5,312.35	5,300.04	12.31	431.582			
2,000.00	1,905.92	819.56	813.55	11.87	2.14	86.55	-4,920.10	1,797.48	5,331.15	5,317.89	13.26	401.954			
2,100.00	1,997.45	890.62	883.15	12.69	2.49	86.86	-4,933.72	1,801.96	5,350.66	5,336.32	14.33	373.315			
2,200.00	2,088.97	960.04	951.10	13.52	2.84	87.16	-4,947.26	1,806.43	5,370.78	5,355.38	15.40	348.814			
2,300.00	2,180.50	970.00	960.84	14.35	2.89	87.20	-4,949.22	1,807.09	5,391.94	5,375.75	16.20	332.879			
2,400.00	2,272.03	1,024.58	1,014.10	15.17	3.18	87.43	-4,960.45	1,811.11	5,414.02	5,396.82	17.20	314.824			
2,500.00	2,363.56	1,061.00	1,049.49	16.00	3.37	87.58	-4,968.47	1,814.24	5,437.55	5,419.45	18.11	300.312			
2,600.00	2,455.08	2,600.00	1,141.55	16.83	11.76	87.97	-4,989.42	1,822.98	5,461.62	5,433.26	28.36	192.560			
2,700.00	2,546.61	1,199.23	1,183.68	17.66	4.13	88.14	-4,999.09	1,827.00	5,486.21	5,465.98	20.23	271.199			
2,800.00	2,638.14	1,244.00	1,226.99	18.50	4.37	88.32	-5,009.65	1,831.07	5,512.00	5,490.83	21.17	260.320			
2,900.00	2,729.67	1,437.42	1,414.27	19.33	5.46	89.10	-5,054.82	1,848.35	5,538.38	5,515.54	22.84	242.490			
3,000.00	2,821.19	1,546.40	1,520.31	20.16	6.04	89.54	-5,078.64	1,856.28	5,562.81	5,538.72	24.09	230.923			
3,100.00	2,912.72	1,609.00	1,581.16	20.99	6.38	89.80	-5,092.66	1,860.63	5,587.91	5,562.79	25.12	222.488			
3,200.00	3,004.25	1,729.72	1,698.60	21.83	7.03	90.28	-5,118.93	1,870.17	5,612.81	5,586.39	26.42	212.408			
3,300.00	3,095.78	1,791.00	1,758.14	22.66	7.36	90.53	-5,132.69	1,874.72	5,638.47	5,611.03	27.44	205.458			
3,400.00	3,187.30	1,886.51	1,850.88	23.50	7.89	90.90	-5,154.28	1,882.18	5,664.68	5,636.05	28.63	197.853			
3,500.00	3,278.83	1,912.00	1,875.61	24.33	8.03	91.00	-5,160.06	1,884.37	5,691.23	5,661.76	29.47	193.140			
3,600.00	3,370.36	1,941.08	1,903.76	25.16	8.20	91.11	-5,166.94	1,886.85	5,718.94	5,688.63	30.31	188.663			
3,700.00	3,461.89	1,974.00	1,935.52	26.00	8.38	91.24	-5,175.09	1,889.64	5,747.81	5,716.64	31.17	184.395			
3,800.00	3,553.41	2,032.71	1,992.07	26.83	8.73	91.46	-5,190.03	1,894.82	5,777.60	5,745.44	32.16	179.629			
3,900.00	3,644.94	2,124.37	2,080.23	27.67	9.27	91.80	-5,213.43	1,903.82	5,807.82	5,774.49	33.34	174.217			
4,000.00	3,736.47	2,260.26	2,211.09	28.51	10.07	92.29	-5,247.45	1,917.37	5,837.83	5,803.08	34.75	167.981			
4,100.00	3,828.00	2,337.38	2,285.45	29.34	10.52	92.58	-5,266.64	1,924.38	5,867.76	5,831.92	35.84	163.707			
4,200.00	3,919.52	2,540.77	2,482.36	30.18	11.66	93.34	-5,315.27	1,939.54	5,896.52	5,858.91	37.61	156.797			
4,300.00	4,011.05	2,688.18	2,625.49	31.01	12.47	93.89	-5,348.69	1,950.72	5,924.67	5,885.60	39.06	151.662			
4,400.00	4,102.58	2,832.86	2,766.24	31.85	13.25	94.40	-5,379.91	1,962.75	5,952.03	5,911.52	40.51	146.928			
4,500.00	4,194.11	2,885.12	2,817.10	32.68	13.53	94.59	-5,391.21	1,966.84	5,979.67	5,938.20	41.46	144.212			
4,600.00	4,285.64	4,600.00	2,915.51	33.52	22.74	94.95	-5,413.31	1,974.27	6,007.66	5,958.50	49.17	122.185			
4,700.00	4,377.16	3,050.70	2,978.22	34.36	14.42	95.18	-5,427.34	1,979.10	6,035.85	5,992.17	43.69	138.155			
4,800.00	4,468.69	3,101.50	3,027.57	35.19	14.70	95.36	-5,438.83	1,982.79	6,064.90	6,020.27	44.63	135.907			
4,900.00	4,560.22	3,188.00	3,111.66	36.03	15.17	95.67	-5,458.11	1,989.13	6,093.91	6,048.16	45.75	133.188			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 777-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CN - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,651.75	3,236.13	3,158.41	36.87	15.44	95.84	-5,469.03	1,992.48	6,123.65	6,076.98	46.67	131.219		
5,100.00	4,743.27	3,282.00	3,202.81	37.70	15.69	96.00	-5,480.24	1,995.21	6,154.68	6,107.12	47.56	129.404		
5,200.00	4,834.80	3,312.40	3,232.17	38.54	15.86	96.11	-5,487.91	1,996.89	6,186.56	6,138.20	48.36	127.924		
5,300.00	4,926.33	3,401.66	3,318.41	39.38	16.37	96.44	-5,510.33	2,002.07	6,218.82	6,169.32	49.50	125.645		
5,400.00	5,017.86	3,687.82	3,595.62	40.21	17.97	97.39	-5,577.22	2,025.01	6,249.47	6,197.70	51.78	120.704		
5,500.00	5,109.38	3,752.00	3,657.94	41.05	18.32	97.60	-5,591.57	2,030.46	6,279.64	6,226.86	52.78	118.981		
5,600.00	5,200.91	3,810.69	3,714.90	41.89	18.65	97.79	-5,604.98	2,034.92	6,310.36	6,256.62	53.74	117.415		
5,700.00	5,292.44	3,997.06	3,896.15	42.73	19.65	98.40	-5,646.01	2,048.96	6,340.43	6,285.00	55.44	114.372		
5,800.00	5,383.97	4,100.97	3,997.33	43.56	20.21	98.73	-5,668.20	2,057.17	6,370.21	6,313.55	56.66	112.429		
5,900.00	5,475.51	4,189.17	4,083.22	44.40	20.68	95.40	-5,686.81	2,064.67	6,399.70	6,341.90	57.79	110.731		
6,000.00	5,567.37	5,914.00	5,768.80	45.19	27.29	77.12	-5,838.39	2,225.49	6,409.67	6,343.79	65.87	97.303		
6,100.00	5,657.57	5,955.80	5,803.43	45.89	27.46	57.93	-5,836.57	2,248.82	6,387.72	6,320.78	66.94	95.432		
6,200.00	5,743.38	6,008.00	5,844.91	46.48	27.68	44.89	-5,835.23	2,280.46	6,350.42	6,282.44	67.98	93.413		
6,300.00	5,822.18	6,008.00	5,844.91	46.95	27.68	36.68	-5,835.23	2,280.46	6,298.11	6,229.48	68.63	91.770		
6,400.00	5,891.60	6,037.96	5,867.85	47.31	27.83	31.36	-5,834.84	2,299.73	6,232.63	6,163.25	69.39	89.826		
6,500.00	5,949.50	6,066.74	5,889.34	47.58	27.98	27.92	-5,834.61	2,318.87	6,155.45	6,085.43	70.02	87.906		
6,600.00	5,994.15	6,102.00	5,914.91	47.76	28.17	25.69	-5,834.50	2,343.15	6,068.72	5,998.13	70.59	85.972		
6,700.00	6,024.17	6,206.31	5,986.79	47.86	28.79	23.25	-5,833.46	2,418.69	5,974.65	5,903.01	71.64	83.396		
6,800.00	6,038.67	6,217.86	5,994.24	47.91	28.87	20.80	-5,833.25	2,427.52	5,876.05	5,804.21	71.84	81.793		
6,900.00	6,040.00	6,218.92	5,994.91	47.93	28.87	-37.18	-5,833.23	2,428.34	5,776.09	5,704.23	71.86	80.383		
7,000.00	6,040.00	6,218.93	5,994.92	47.98	28.87	-37.21	-5,833.23	2,428.35	5,676.09	5,604.23	71.86	78.993		
7,100.00	6,040.00	6,218.94	5,994.93	48.09	28.87	-37.24	-5,833.23	2,428.36	5,576.09	5,504.24	71.85	77.603		
7,200.00	6,040.00	6,218.96	5,994.94	48.23	28.87	-37.27	-5,833.23	2,428.37	5,476.09	5,404.24	71.85	76.212		
7,300.00	6,040.00	6,218.97	5,994.94	48.43	28.87	-37.30	-5,833.23	2,428.38	5,376.09	5,304.24	71.85	74.821		
7,400.00	6,040.00	6,218.98	5,994.95	48.67	28.87	-37.33	-5,833.23	2,428.38	5,276.09	5,204.24	71.85	73.430		
7,500.00	6,040.00	6,218.99	5,994.96	48.97	28.87	-37.36	-5,833.23	2,428.39	5,176.09	5,104.24	71.85	72.038		
7,600.00	6,040.00	6,219.00	5,994.96	49.32	28.87	-37.40	-5,833.23	2,428.40	5,076.09	5,004.24	71.85	70.646		
7,700.00	6,040.00	6,219.01	5,994.97	49.73	28.87	-37.43	-5,833.23	2,428.41	4,976.09	4,904.24	71.85	69.254		
7,800.00	6,040.00	6,219.02	5,994.98	50.19	28.87	-37.46	-5,833.23	2,428.42	4,876.10	4,804.24	71.85	67.862		
7,900.00	6,040.00	6,219.04	5,994.99	50.71	28.87	-37.49	-5,833.23	2,428.43	4,776.10	4,704.24	71.85	66.469		
8,000.00	6,040.00	6,219.05	5,994.99	51.29	28.87	-37.52	-5,833.22	2,428.44	4,676.10	4,604.24	71.86	65.076		
8,100.00	6,040.00	6,219.06	5,995.00	51.93	28.87	-37.56	-5,833.22	2,428.45	4,576.10	4,504.24	71.86	63.683		
8,200.00	6,040.00	6,219.07	5,995.01	52.63	28.87	-37.59	-5,833.22	2,428.46	4,476.10	4,404.24	71.86	62.290		
8,300.00	6,040.00	6,219.08	5,995.02	53.39	28.87	-37.62	-5,833.22	2,428.47	4,376.10	4,304.24	71.86	60.897		
8,400.00	6,040.00	6,219.09	5,995.02	54.20	28.87	-37.65	-5,833.22	2,428.47	4,276.10	4,204.24	71.86	59.504		
8,500.00	6,040.00	6,219.11	5,995.03	55.07	28.87	-37.69	-5,833.22	2,428.48	4,176.10	4,104.24	71.87	58.110		
8,600.00	6,040.00	6,219.12	5,995.04	55.99	28.87	-37.72	-5,833.22	2,428.49	4,076.10	4,004.24	71.87	56.717		
8,700.00	6,040.00	6,219.13	5,995.05	56.97	28.87	-37.75	-5,833.22	2,428.50	3,976.11	3,904.24	71.87	55.324		
8,800.00	6,040.00	6,219.14	5,995.05	57.99	28.87	-37.79	-5,833.22	2,428.51	3,876.11	3,804.23	71.87	53.930		
8,900.00	6,040.00	6,219.15	5,995.06	59.06	28.87	-37.82	-5,833.22	2,428.52	3,776.11	3,704.23	71.88	52.537		
9,000.00	6,040.00	6,219.17	5,995.07	60.17	28.87	-37.85	-5,833.22	2,428.53	3,676.11	3,604.23	71.88	51.143		
9,100.00	6,040.00	6,219.18	5,995.08	61.32	28.87	-37.89	-5,833.22	2,428.54	3,576.11	3,504.23	71.88	49.750		
9,200.00	6,040.00	6,219.19	5,995.09	62.51	28.87	-37.92	-5,833.22	2,428.55	3,476.11	3,404.23	71.88	48.357		
9,300.00	6,040.00	6,219.20	5,995.09	63.73	28.87	-37.96	-5,833.22	2,428.56	3,376.12	3,304.23	71.89	46.964		
9,400.00	6,040.00	6,219.22	5,995.10	64.98	28.87	-37.99	-5,833.22	2,428.57	3,276.12	3,204.23	71.89	45.571		
9,500.00	6,040.00	6,219.23	5,995.11	66.27	28.87	-38.02	-5,833.22	2,428.58	3,176.12	3,104.23	71.89	44.179		
9,600.00	6,040.00	6,219.24	5,995.12	67.58	28.87	-38.06	-5,833.22	2,428.59	3,076.12	3,004.23	71.90	42.786		
9,700.00	6,040.00	6,219.25	5,995.13	68.92	28.87	-38.09	-5,833.22	2,428.60	2,976.12	2,904.23	71.90	41.394		
9,800.00	6,040.00	6,219.27	5,995.13	70.29	28.87	-38.13	-5,833.22	2,428.61	2,876.13	2,804.23	71.90	40.002		
9,900.00	6,040.00	6,219.28	5,995.14	71.67	28.87	-38.17	-5,833.22	2,428.62	2,776.13	2,704.23	71.90	38.611		
10,000.00	6,040.00	6,219.29	5,995.15	73.08	28.87	-38.20	-5,833.22	2,428.63	2,676.13	2,604.23	71.90	37.219		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 777-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CN - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,100.00	6,040.00	6,219.31	5,995.16	74.51	28.87	-38.24	-5,833.22	2,428.64	2,576.14	2,504.23	71.90	35.828			
10,200.00	6,040.00	6,219.32	5,995.17	75.95	28.87	-38.27	-5,833.22	2,428.65	2,476.14	2,404.24	71.90	34.438			
10,300.00	6,040.00	6,219.33	5,995.17	77.41	28.87	-38.31	-5,833.22	2,428.66	2,376.14	2,304.24	71.90	33.048			
10,400.00	6,040.00	6,219.35	5,995.18	78.89	28.87	-38.35	-5,833.22	2,428.67	2,276.15	2,204.25	71.90	31.658			
10,500.00	6,040.00	6,219.36	5,995.19	80.38	28.88	-38.38	-5,833.22	2,428.68	2,176.15	2,104.26	71.89	30.269			
10,600.00	6,040.00	6,219.37	5,995.20	81.88	28.88	-38.42	-5,833.22	2,428.69	2,076.16	2,004.27	71.89	28.880			
10,700.00	6,040.00	6,219.39	5,995.21	83.40	28.88	-38.46	-5,833.22	2,428.70	1,976.16	1,904.28	71.88	27.491			
10,800.00	6,040.00	6,219.40	5,995.22	84.93	28.88	-38.49	-5,833.22	2,428.71	1,876.17	1,804.29	71.87	26.104			
10,900.00	6,040.00	6,219.41	5,995.23	86.47	28.88	-38.53	-5,833.22	2,428.72	1,776.17	1,704.31	71.86	24.716			
11,000.00	6,040.00	6,219.43	5,995.23	88.02	28.88	-38.57	-5,833.22	2,428.73	1,676.18	1,604.33	71.85	23.330			
11,100.00	6,040.00	6,219.44	5,995.24	89.58	28.88	-38.61	-5,833.22	2,428.74	1,576.19	1,504.36	71.83	21.944			
11,200.00	6,040.00	6,219.45	5,995.25	91.15	28.88	-38.65	-5,833.22	2,428.75	1,476.20	1,404.39	71.81	20.558			
11,300.00	6,040.00	6,219.47	5,995.26	92.73	28.88	-38.68	-5,833.22	2,428.76	1,376.21	1,304.43	71.78	19.173			
11,400.00	6,040.00	6,219.48	5,995.27	94.31	28.88	-38.72	-5,833.22	2,428.78	1,276.22	1,204.48	71.74	17.789			
11,500.00	6,040.00	6,219.50	5,995.28	95.91	28.88	-38.76	-5,833.22	2,428.79	1,176.24	1,104.54	71.70	16.406			
11,600.00	6,040.00	6,219.51	5,995.29	97.51	28.88	-38.80	-5,833.22	2,428.80	1,076.25	1,004.61	71.64	15.023			
11,700.00	6,040.00	6,219.53	5,995.30	99.11	28.88	-38.84	-5,833.22	2,428.81	976.27	904.70	71.57	13.641			
11,800.00	6,040.00	6,219.54	5,995.31	100.73	28.88	-38.88	-5,833.22	2,428.82	876.30	804.82	71.48	12.260			
11,900.00	6,040.00	6,219.55	5,995.31	102.35	28.88	-38.92	-5,833.22	2,428.83	776.33	704.98	71.35	10.880			
12,000.00	6,040.00	6,219.57	5,995.32	103.97	28.88	-38.96	-5,833.22	2,428.84	676.37	605.18	71.19	9.501			
12,100.00	6,040.00	6,219.58	5,995.33	105.60	28.88	-39.00	-5,833.22	2,428.85	576.43	505.46	70.97	8.122			
12,200.00	6,040.00	6,219.60	5,995.34	107.24	28.88	-39.04	-5,833.21	2,428.86	476.51	405.86	70.64	6.745			
12,300.00	6,040.00	6,219.61	5,995.35	108.88	28.88	-39.08	-5,833.21	2,428.88	376.63	306.48	70.15	5.369			
12,400.00	6,040.00	6,219.63	5,995.36	110.53	28.88	-39.12	-5,833.21	2,428.89	276.83	207.54	69.30	3.995			
12,500.00	6,040.00	6,219.64	5,995.37	112.18	28.88	-39.16	-5,833.21	2,428.90	177.28	109.69	67.59	2.623			
12,600.00	6,040.00	6,219.66	5,995.38	113.83	28.88	-39.20	-5,833.21	2,428.91	78.84	15.55	63.29	1.246	Level 2		
12,676.05	6,040.00	6,219.67	5,995.39	115.09	28.88	-39.23	-5,833.21	2,428.92	20.80	-87.99	108.80	0.191	Level 1, CC, ES, SF		
12,700.00	6,040.00	6,219.67	5,995.39	115.49	28.88	-39.24	-5,833.21	2,428.92	31.72	-75.26	106.99	0.297	Level 1		
12,800.00	6,040.00	6,219.69	5,995.40	117.16	28.88	-39.29	-5,833.21	2,428.93	125.68	44.19	81.49	1.542			
12,900.00	6,040.00	6,219.70	5,995.41	118.82	28.88	-39.33	-5,833.21	2,428.95	224.91	147.32	77.59	2.899			
13,000.00	6,040.00	6,219.72	5,995.42	120.49	28.88	-39.37	-5,833.21	2,428.96	324.62	248.48	76.13	4.264			
13,100.00	6,040.00	6,219.73	5,995.43	122.16	28.88	-39.41	-5,833.21	2,428.97	424.46	349.08	75.38	5.631			
13,200.00	6,040.00	6,219.75	5,995.44	123.84	28.88	-39.46	-5,833.21	2,428.98	524.36	449.43	74.94	6.997			
13,300.00	6,040.00	6,219.77	5,995.45	125.52	28.88	-39.50	-5,833.21	2,428.99	624.30	549.65	74.64	8.364			
13,400.00	6,040.00	6,219.78	5,995.46	127.20	28.88	-39.54	-5,833.21	2,429.01	724.25	649.81	74.44	9.729			
13,500.00	6,040.00	6,219.80	5,995.47	128.89	28.88	-39.59	-5,833.21	2,429.02	824.21	749.92	74.30	11.094			
13,600.00	6,040.00	6,219.81	5,995.48	130.58	28.88	-39.63	-5,833.21	2,429.03	924.18	849.99	74.19	12.457			
13,700.00	6,040.00	6,219.83	5,995.49	132.27	28.88	-39.67	-5,833.21	2,429.04	1,024.16	950.05	74.11	13.819			
13,800.00	6,040.00	6,219.84	5,995.50	133.96	28.88	-39.72	-5,833.21	2,429.06	1,124.14	1,050.09	74.05	15.181			
13,900.00	6,040.00	6,219.86	5,995.51	135.66	28.88	-39.76	-5,833.21	2,429.07	1,224.13	1,150.12	74.01	16.541			
14,000.00	6,040.00	6,219.88	5,995.52	137.35	28.88	-39.81	-5,833.21	2,429.08	1,324.11	1,250.14	73.97	17.899			
14,100.00	6,040.00	6,219.89	5,995.53	139.05	28.88	-39.85	-5,833.21	2,429.09	1,424.10	1,350.15	73.95	19.257			
14,200.00	6,040.00	6,219.91	5,995.54	140.75	28.88	-39.90	-5,833.21	2,429.11	1,524.09	1,450.15	73.94	20.613			
14,300.00	6,040.00	6,219.93	5,995.55	142.46	28.88	-39.95	-5,833.21	2,429.12	1,624.08	1,550.15	73.93	21.968			
14,400.00	6,040.00	6,219.94	5,995.56	144.17	28.88	-39.99	-5,833.21	2,429.13	1,724.07	1,650.15	73.92	23.322			
14,500.00	6,040.00	6,219.96	5,995.57	145.87	28.88	-40.04	-5,833.21	2,429.15	1,824.07	1,750.14	73.93	24.674			
14,600.00	6,040.00	6,219.98	5,995.58	147.58	28.88	-40.08	-5,833.21	2,429.16	1,924.06	1,850.13	73.93	26.026			
14,700.00	6,040.00	6,219.99	5,995.59	149.29	28.88	-40.13	-5,833.21	2,429.17	2,024.06	1,950.12	73.94	27.375			
14,800.00	6,040.00	6,220.01	5,995.60	151.01	28.88	-40.18	-5,833.21	2,429.19	2,124.05	2,050.10	73.95	28.723			
14,900.00	6,040.00	6,220.03	5,995.61	152.72	28.88	-40.23	-5,833.21	2,429.20	2,224.05	2,150.08	73.96	30.070			
15,000.00	6,040.00	6,220.05	5,995.63	154.44	28.88	-40.27	-5,833.21	2,429.21	2,324.04	2,250.06	73.98	31.416			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 777-MWD OWSG												Offset Well Error:		0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CN - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	6,040.00	6,220.06	5,995.64	156.16	28.88	-40.32	-5,833.21	2,429.23	2,424.04	2,350.04	74.00	32.759			
15,200.00	6,040.00	6,220.08	5,995.65	157.88	28.88	-40.37	-5,833.21	2,429.24	2,524.03	2,450.02	74.01	34.102			
15,300.00	6,040.00	6,220.10	5,995.66	159.60	28.88	-40.42	-5,833.21	2,429.25	2,624.03	2,550.00	74.04	35.443			
15,400.00	6,040.00	6,220.12	5,995.67	161.32	28.88	-40.47	-5,833.21	2,429.27	2,724.03	2,649.97	74.06	36.782			
15,500.00	6,040.00	6,220.13	5,995.68	163.04	28.88	-40.52	-5,833.21	2,429.28	2,824.03	2,749.94	74.08	38.120			
15,600.00	6,040.00	6,220.15	5,995.69	164.77	28.88	-40.57	-5,833.20	2,429.29	2,924.02	2,849.91	74.11	39.456			
15,700.00	6,040.00	6,220.17	5,995.70	166.49	28.88	-40.62	-5,833.20	2,429.31	3,024.02	2,949.89	74.13	40.791			
15,800.00	6,040.00	6,220.19	5,995.72	168.22	28.88	-40.67	-5,833.20	2,429.32	3,124.02	3,049.86	74.16	42.124			
15,900.00	6,040.00	6,220.21	5,995.73	169.95	28.88	-40.72	-5,833.20	2,429.34	3,224.02	3,149.82	74.19	43.455			
16,000.00	6,040.00	6,220.23	5,995.74	171.68	28.88	-40.77	-5,833.20	2,429.35	3,324.01	3,249.79	74.22	44.785			
16,100.00	6,040.00	6,220.25	5,995.75	173.41	28.88	-40.82	-5,833.20	2,429.37	3,424.01	3,349.76	74.25	46.113			
16,200.00	6,040.00	6,220.26	5,995.76	175.14	28.88	-40.87	-5,833.20	2,429.38	3,524.01	3,449.73	74.28	47.440			
16,300.00	6,040.00	6,220.28	5,995.78	176.88	28.88	-40.93	-5,833.20	2,429.40	3,624.01	3,549.69	74.32	48.765			
16,400.00	6,040.00	6,220.30	5,995.79	178.61	28.88	-40.98	-5,833.20	2,429.41	3,724.01	3,649.66	74.35	50.088			
16,500.00	6,040.00	6,220.32	5,995.80	180.34	28.88	-41.03	-5,833.20	2,429.42	3,824.01	3,749.62	74.38	51.409			
16,600.00	6,040.00	6,220.34	5,995.81	182.08	28.88	-41.08	-5,833.20	2,429.44	3,924.00	3,849.59	74.42	52.729			
16,700.00	6,040.00	6,220.36	5,995.82	183.82	28.88	-41.14	-5,833.20	2,429.45	4,024.00	3,949.55	74.45	54.047			
16,800.00	6,040.00	6,220.38	5,995.84	185.56	28.88	-41.19	-5,833.20	2,429.47	4,124.00	4,049.51	74.49	55.363			
16,865.66	6,040.00	6,220.39	5,995.84	186.70	28.88	-41.23	-5,833.20	2,429.48	4,189.66	4,115.14	74.52	56.226			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 783-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	159.97	-4,854.33	1,769.48	5,166.86					
100.00	100.00	0.00	0.00	0.13	0.00	159.97	-4,854.33	1,769.48	5,167.27	5,167.13	0.14	N/A		
200.00	199.98	0.00	0.00	0.49	0.00	85.56	-4,854.33	1,769.48	5,169.49	5,168.99	0.49	N/A		
300.00	299.84	0.00	0.00	0.86	0.00	85.48	-4,854.33	1,769.48	5,173.37	5,172.51	0.86	6,025.441		
400.00	399.45	0.00	0.00	1.23	0.00	85.37	-4,854.33	1,769.48	5,178.90	5,177.66	1.24	4,189.745		
483.73	482.59	192.53	192.45	1.56	0.49	85.54	-4,858.87	1,771.25	5,176.36	5,174.42	1.93	2,678.716		
500.00	498.70	199.36	199.26	1.63	0.50	85.53	-4,859.19	1,771.38	5,177.03	5,175.02	2.01	2,575.232		
600.00	597.47	241.17	241.01	2.05	0.61	85.51	-4,861.45	1,772.26	5,181.65	5,179.13	2.51	2,062.830		
700.00	695.62	282.69	282.43	2.51	0.71	85.49	-4,864.10	1,773.30	5,187.13	5,184.08	3.04	1,703.971		
800.00	793.06	323.87	323.48	3.00	0.82	85.46	-4,867.16	1,774.49	5,193.47	5,189.86	3.61	1,437.694		
900.00	889.64	364.66	364.10	3.54	0.92	85.43	-4,870.59	1,775.84	5,200.70	5,196.48	4.22	1,231.951		
1,000.00	985.27	404.99	404.23	4.13	1.02	85.40	-4,874.38	1,777.32	5,208.81	5,203.93	4.88	1,068.239		
1,100.00	1,079.82	444.83	443.82	4.77	1.12	85.36	-4,878.51	1,778.94	5,217.82	5,212.24	5.58	935.083		
1,200.00	1,173.17	484.11	482.81	5.46	1.22	85.31	-4,882.97	1,780.68	5,227.73	5,221.40	6.34	824.948		
1,300.00	1,265.23	522.80	521.16	6.21	1.32	85.29	-4,887.72	1,782.54	5,238.57	5,231.42	7.15	732.802		
1,400.00	1,356.75	561.20	559.17	7.00	1.42	85.46	-4,892.79	1,784.52	5,250.51	5,242.52	7.99	657.058		
1,500.00	1,448.28	782.50	777.00	7.80	1.98	86.41	-4,928.98	1,798.68	5,271.21	5,261.99	9.22	571.459		
1,600.00	1,539.81	782.50	777.00	8.60	1.98	86.41	-4,928.98	1,798.68	5,282.73	5,272.73	10.00	528.098		
1,700.00	1,631.34	782.50	777.00	9.41	1.98	86.41	-4,928.98	1,798.68	5,296.11	5,285.33	10.78	491.169		
1,800.00	1,722.86	782.50	777.00	10.23	1.98	86.41	-4,928.98	1,798.68	5,311.34	5,299.78	11.56	459.457		
1,900.00	1,814.39	782.50	777.00	11.05	1.98	86.41	-4,928.98	1,798.68	5,328.40	5,316.07	12.33	432.019		
2,000.00	1,905.92	782.50	777.00	11.87	1.98	86.41	-4,928.98	1,798.68	5,347.28	5,334.18	13.10	408.117		
2,100.00	1,997.45	821.69	815.31	12.69	2.18	86.57	-4,936.70	1,801.55	5,367.56	5,353.53	14.04	382.365		
2,200.00	2,088.97	879.00	871.16	13.52	2.47	86.82	-4,948.92	1,805.58	5,389.25	5,374.20	15.05	358.151		
2,300.00	2,180.50	879.00	871.16	14.35	2.47	86.82	-4,948.92	1,805.58	5,411.85	5,396.06	15.80	342.534		
2,400.00	2,272.03	914.62	905.74	15.17	2.67	86.98	-4,957.11	1,808.06	5,435.85	5,419.14	16.71	325.333		
2,500.00	2,363.56	970.00	959.26	16.00	2.98	87.22	-4,970.76	1,812.06	5,461.32	5,443.62	17.70	308.492		
2,600.00	2,455.08	970.00	959.26	16.83	2.98	87.22	-4,970.76	1,812.06	5,487.63	5,469.19	18.43	297.725		
2,700.00	2,546.61	999.72	987.84	17.66	3.15	87.34	-4,978.56	1,814.26	5,515.37	5,496.07	19.30	285.791		
2,800.00	2,638.14	1,027.64	1,014.62	18.50	3.32	87.47	-4,986.19	1,816.36	5,544.34	5,524.19	20.15	275.192		
2,900.00	2,729.67	1,061.00	1,046.50	19.33	3.52	87.61	-4,995.68	1,818.91	5,574.52	5,553.51	21.01	265.278		
3,000.00	2,821.19	1,093.26	1,077.23	20.16	3.73	87.75	-5,005.16	1,821.43	5,605.81	5,583.93	21.88	256.157		
3,100.00	2,912.72	1,153.00	1,133.98	20.99	4.11	88.00	-5,023.20	1,826.36	5,638.16	5,615.29	22.87	246.517		
3,200.00	3,004.25	1,203.34	1,181.69	21.83	4.43	88.22	-5,038.65	1,830.63	5,671.22	5,647.41	23.81	238.165		
3,300.00	3,095.78	1,244.00	1,220.25	22.66	4.70	88.39	-5,051.11	1,834.05	5,704.78	5,680.07	24.71	230.905		
3,400.00	3,187.30	1,294.19	1,267.73	23.50	5.03	88.60	-5,066.86	1,838.09	5,739.16	5,713.52	25.64	223.822		
3,500.00	3,278.83	1,336.00	1,307.10	24.33	5.31	88.78	-5,080.57	1,841.20	5,774.71	5,748.18	26.53	217.689		
3,600.00	3,370.36	1,336.00	1,307.10	25.16	5.31	88.78	-5,080.57	1,841.20	5,811.34	5,784.18	27.17	213.927		
3,700.00	3,461.89	1,384.65	1,352.69	26.00	5.65	88.99	-5,097.20	1,844.75	5,848.87	5,820.80	28.08	208.316		
3,800.00	3,553.41	1,427.00	1,392.14	26.83	5.95	89.17	-5,112.25	1,847.94	5,887.58	5,858.64	28.95	203.391		
3,900.00	3,644.94	1,575.14	1,530.47	27.67	7.00	89.78	-5,163.89	1,859.83	5,926.01	5,895.55	30.45	194.586		
4,000.00	3,736.47	1,609.00	1,562.14	28.51	7.24	89.92	-5,175.62	1,862.38	5,964.67	5,933.40	31.27	190.745		
4,100.00	3,828.00	1,661.14	1,610.76	29.34	7.62	90.14	-5,194.00	1,866.44	6,004.08	5,971.89	32.19	186.496		
4,200.00	3,919.52	1,700.00	1,646.83	30.18	7.90	90.29	-5,208.06	1,869.77	6,044.46	6,011.43	33.03	182.997		
4,300.00	4,011.05	1,757.24	1,699.81	31.01	8.32	90.51	-5,229.01	1,875.30	6,085.56	6,051.58	33.98	179.073		
4,400.00	4,102.58	1,827.31	1,764.51	31.85	8.85	90.77	-5,254.74	1,883.19	6,127.12	6,092.09	35.02	174.952		
4,500.00	4,194.11	1,899.64	1,831.17	32.68	9.40	91.03	-5,281.30	1,892.31	6,168.99	6,132.91	36.08	170.989		
4,600.00	4,285.64	1,961.36	1,887.89	33.52	9.88	91.24	-5,304.05	1,900.90	6,211.29	6,174.22	37.07	167.574		
4,700.00	4,377.16	2,055.59	1,974.41	34.36	10.61	91.55	-5,338.92	1,914.21	6,253.88	6,215.60	38.28	163.378		
4,800.00	4,468.69	2,065.00	1,983.07	35.19	10.68	91.58	-5,342.40	1,915.45	6,296.96	6,258.07	38.90	161.884		
4,900.00	4,560.22	2,115.87	2,029.74	36.03	11.08	91.76	-5,361.68	1,921.58	6,340.67	6,300.88	39.80	159.321		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 783-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,651.75	2,157.00	2,067.29	36.87	11.40	91.91	-5,377.94	1,925.76	6,385.52	6,344.89	40.62	157.184				
5,100.00	4,743.27	2,529.00	2,410.07	37.70	14.24	93.21	-5,516.42	1,965.42	6,428.25	6,384.49	43.76	146.895				
5,200.00	4,834.80	2,529.00	2,410.07	38.54	14.24	93.21	-5,516.42	1,965.42	6,470.30	6,425.98	44.32	146.003				
5,300.00	4,926.33	2,582.21	2,459.39	39.38	14.64	93.38	-5,535.35	1,971.80	6,512.65	6,467.42	45.23	143.976				
5,400.00	5,017.86	2,623.00	2,496.91	40.21	14.95	93.52	-5,550.86	1,975.76	6,556.56	6,510.50	46.06	142.349				
5,500.00	5,109.38	2,623.00	2,496.91	41.05	14.95	93.52	-5,550.86	1,975.76	6,601.13	6,554.55	46.58	141.703				
5,600.00	5,200.91	2,705.64	2,572.64	41.89	15.60	93.81	-5,583.04	1,983.40	6,646.48	6,598.78	47.70	139.336				
5,700.00	5,292.44	3,042.07	2,883.21	42.73	18.16	94.88	-5,706.69	2,020.80	6,689.40	6,638.74	50.66	132.045				
5,800.00	5,383.97	3,093.00	2,930.46	43.56	18.53	95.04	-5,724.94	2,026.16	6,732.13	6,680.57	51.56	130.569				
5,900.00	5,475.51	3,132.42	2,966.94	44.40	18.83	91.63	-5,739.28	2,030.33	6,775.25	6,722.88	52.37	129.362				
6,000.00	5,567.37	3,188.00	3,018.32	45.19	19.25	69.18	-5,759.49	2,036.67	6,808.36	6,755.07	53.29	127.751				
6,100.00	5,657.57	3,245.48	3,071.27	45.89	19.70	50.38	-5,780.65	2,043.90	6,825.36	6,771.15	54.20	125.919				
6,200.00	5,743.38	3,282.00	3,104.75	46.48	19.98	37.51	-5,794.35	2,048.90	6,826.00	6,771.10	54.90	124.335				
6,300.00	5,822.18	3,282.00	3,104.75	46.95	19.98	29.05	-5,794.35	2,048.90	6,810.64	6,755.40	55.24	123.283				
6,400.00	5,891.60	3,282.00	3,104.75	47.31	19.98	23.32	-5,794.35	2,048.90	6,779.84	6,724.33	55.51	122.141				
6,500.00	5,949.50	6,402.85	6,041.35	47.58	35.36	27.86	-6,381.97	2,398.90	6,705.28	6,633.28	72.00	93.128				
6,600.00	5,994.15	6,426.73	6,056.51	47.76	35.47	25.66	-6,381.26	2,417.33	6,617.28	6,544.75	72.53	91.234				
6,700.00	6,024.17	6,442.22	6,065.93	47.86	35.55	24.51	-6,380.84	2,429.62	6,522.51	6,449.64	72.87	89.510				
6,800.00	6,038.67	6,449.41	6,070.19	47.91	35.58	25.58	-6,380.65	2,435.41	6,423.74	6,350.72	73.02	87.968				
6,900.00	6,040.00	6,449.75	6,070.39	47.93	35.58	-173.29	-6,380.65	2,435.68	6,323.77	6,250.73	73.03	86.586				
7,000.00	6,040.00	6,449.39	6,070.18	47.98	35.58	-173.55	-6,380.66	2,435.39	6,223.77	6,150.74	73.03	85.221				
7,100.00	6,040.00	6,449.02	6,069.97	48.09	35.58	-173.81	-6,380.66	2,435.10	6,123.78	6,050.75	73.03	83.855				
7,200.00	6,040.00	6,448.65	6,069.75	48.23	35.58	-174.08	-6,380.67	2,434.80	6,023.78	5,950.76	73.03	82.488				
7,300.00	6,040.00	6,448.28	6,069.53	48.43	35.58	-174.35	-6,380.68	2,434.49	5,923.79	5,850.76	73.02	81.120				
7,400.00	6,040.00	6,447.89	6,069.30	48.67	35.57	-174.64	-6,380.69	2,434.18	5,823.79	5,750.77	73.02	79.752				
7,500.00	6,040.00	6,447.51	6,069.07	48.97	35.57	-174.93	-6,380.70	2,433.87	5,723.80	5,650.77	73.02	78.384				
7,600.00	6,040.00	6,447.11	6,068.84	49.32	35.57	-175.22	-6,380.71	2,433.55	5,623.80	5,550.78	73.02	77.015				
7,700.00	6,040.00	6,446.71	6,068.60	49.73	35.57	-175.52	-6,380.72	2,433.23	5,523.81	5,450.78	73.02	75.645				
7,800.00	6,040.00	6,446.30	6,068.36	50.19	35.57	-175.83	-6,380.74	2,432.90	5,423.81	5,350.79	73.02	74.275				
7,900.00	6,040.00	6,445.89	6,068.11	50.71	35.56	-176.15	-6,380.75	2,432.57	5,323.82	5,250.79	73.03	72.904				
8,000.00	6,040.00	6,445.47	6,067.86	51.29	35.56	-176.48	-6,380.76	2,432.23	5,223.82	5,150.80	73.03	71.533				
8,100.00	6,040.00	6,445.04	6,067.61	51.93	35.56	-176.81	-6,380.77	2,431.88	5,123.83	5,050.80	73.03	70.161				
8,200.00	6,040.00	6,444.60	6,067.35	52.63	35.56	-177.16	-6,380.78	2,431.53	5,023.84	4,950.80	73.03	68.789				
8,300.00	6,040.00	6,444.16	6,067.09	53.39	35.55	-177.51	-6,380.79	2,431.18	4,923.84	4,850.81	73.04	67.416				
8,400.00	6,040.00	6,443.71	6,066.82	54.20	35.55	-177.87	-6,380.80	2,430.81	4,823.85	4,750.81	73.04	66.043				
8,500.00	6,040.00	6,443.25	6,066.55	55.07	35.55	-178.25	-6,380.81	2,430.44	4,723.86	4,650.81	73.05	64.670				
8,600.00	6,040.00	6,442.78	6,066.27	55.99	35.55	-178.63	-6,380.83	2,430.07	4,623.86	4,550.81	73.05	63.296				
8,700.00	6,040.00	6,442.31	6,065.99	56.97	35.55	-179.02	-6,380.84	2,429.69	4,523.87	4,450.81	73.06	61.922				
8,800.00	6,040.00	6,441.82	6,065.70	57.99	35.54	-179.43	-6,380.85	2,429.30	4,423.88	4,350.81	73.06	60.548				
8,900.00	6,040.00	6,441.33	6,065.40	59.06	35.54	-179.84	-6,380.87	2,428.91	4,323.88	4,250.81	73.07	59.173				
9,000.00	6,040.00	6,440.83	6,065.10	60.17	35.54	179.73	-6,380.88	2,428.51	4,223.89	4,150.81	73.08	57.798				
9,100.00	6,040.00	6,440.32	6,064.80	61.32	35.54	179.29	-6,380.89	2,428.10	4,123.90	4,050.81	73.09	56.422				
9,200.00	6,040.00	6,439.80	6,064.49	62.51	35.53	178.84	-6,380.91	2,427.69	4,023.91	3,950.81	73.10	55.047				
9,300.00	6,040.00	6,439.27	6,064.17	63.73	35.53	178.37	-6,380.92	2,427.26	3,923.92	3,850.81	73.11	53.671				
9,400.00	6,040.00	6,438.74	6,063.84	64.98	35.53	177.89	-6,380.93	2,426.83	3,823.93	3,750.80	73.12	52.294				
9,500.00	6,040.00	6,438.19	6,063.51	66.27	35.53	177.39	-6,380.95	2,426.39	3,723.94	3,650.80	73.14	50.918				
9,600.00	6,040.00	6,437.63	6,063.17	67.58	35.52	176.88	-6,380.96	2,425.95	3,623.95	3,550.80	73.15	49.541				
9,700.00	6,040.00	6,437.06	6,062.83	68.92	35.52	176.36	-6,380.98	2,425.49	3,523.96	3,450.79	73.16	48.165				
9,800.00	6,040.00	6,436.48	6,062.48	70.29	35.52	175.81	-6,381.00	2,425.03	3,423.97	3,350.79	73.18	46.788				
9,900.00	6,040.00	6,435.88	6,062.12	71.67	35.51	175.25	-6,381.01	2,424.56	3,323.98	3,250.78	73.20	45.410				
10,000.00	6,040.00	6,435.28	6,061.75	73.08	35.51	174.68	-6,381.03	2,424.08	3,223.99	3,150.77	73.22	44.033				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 783-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,040.00	6,434.66	6,061.38	74.51	35.51	174.08	-6,381.04	2,423.59	3,124.00	3,050.77	73.24	42.656		
10,200.00	6,040.00	6,434.03	6,061.00	75.95	35.51	173.46	-6,381.06	2,423.09	3,024.02	2,950.76	73.26	41.278		
10,300.00	6,040.00	6,433.39	6,060.60	77.41	35.50	172.83	-6,381.08	2,422.58	2,924.03	2,850.75	73.28	39.900		
10,400.00	6,040.00	6,432.73	6,060.20	78.89	35.50	172.17	-6,381.10	2,422.06	2,824.05	2,750.74	73.31	38.523		
10,500.00	6,040.00	6,432.07	6,059.80	80.38	35.50	171.49	-6,381.12	2,421.53	2,724.06	2,650.72	73.34	37.145		
10,600.00	6,040.00	6,431.38	6,059.38	81.88	35.49	170.78	-6,381.13	2,420.99	2,624.08	2,550.71	73.37	35.767		
10,700.00	6,040.00	6,430.68	6,058.95	83.40	35.49	170.05	-6,381.15	2,420.44	2,524.10	2,450.70	73.40	34.389		
10,800.00	6,040.00	6,429.97	6,058.51	84.93	35.49	169.30	-6,381.17	2,419.88	2,424.11	2,350.68	73.43	33.010		
10,900.00	6,040.00	6,429.24	6,058.06	86.47	35.48	168.52	-6,381.19	2,419.31	2,324.13	2,250.66	73.47	31.632		
11,000.00	6,040.00	6,428.50	6,057.61	88.02	35.48	167.71	-6,381.21	2,418.72	2,224.16	2,150.64	73.52	30.254		
11,100.00	6,040.00	6,427.74	6,057.14	89.58	35.48	166.87	-6,381.24	2,418.12	2,124.18	2,050.62	73.56	28.876		
11,200.00	6,040.00	6,426.96	6,056.66	91.15	35.47	166.00	-6,381.26	2,417.51	2,024.20	1,950.59	73.61	27.498		
11,300.00	6,040.00	6,426.17	6,056.16	92.73	35.47	165.10	-6,381.28	2,416.89	1,924.23	1,850.56	73.67	26.119		
11,400.00	6,040.00	6,425.35	6,055.66	94.31	35.46	164.17	-6,381.30	2,416.25	1,824.26	1,750.53	73.73	24.741		
11,500.00	6,040.00	6,424.52	6,055.14	95.91	35.46	163.21	-6,381.33	2,415.60	1,724.30	1,650.49	73.81	23.363		
11,600.00	6,040.00	6,423.67	6,054.61	97.51	35.46	162.20	-6,381.35	2,414.93	1,624.33	1,550.45	73.89	21.985		
11,700.00	6,040.00	6,422.79	6,054.07	99.11	35.45	161.16	-6,381.38	2,414.25	1,524.37	1,450.40	73.98	20.606		
11,800.00	6,040.00	6,421.90	6,053.51	100.73	35.45	160.09	-6,381.40	2,413.55	1,424.42	1,350.34	74.08	19.228		
11,900.00	6,040.00	6,420.98	6,052.94	102.35	35.44	158.97	-6,381.43	2,412.84	1,324.47	1,250.27	74.20	17.850		
12,000.00	6,040.00	6,420.05	6,052.35	103.97	35.44	157.81	-6,381.45	2,412.11	1,224.53	1,150.19	74.34	16.472		
12,100.00	6,040.00	6,419.08	6,051.74	105.60	35.43	156.60	-6,381.48	2,411.36	1,124.60	1,050.10	74.51	15.094		
12,200.00	6,040.00	6,418.10	6,051.12	107.24	35.43	155.36	-6,381.51	2,410.59	1,024.69	949.98	74.71	13.716		
12,300.00	6,040.00	6,417.09	6,050.48	108.88	35.42	154.06	-6,381.54	2,409.81	924.79	849.84	74.95	12.339		
12,400.00	6,040.00	6,416.05	6,049.83	110.53	35.42	152.72	-6,381.57	2,409.01	824.91	749.65	75.26	10.961		
12,500.00	6,040.00	6,414.98	6,049.15	112.18	35.41	151.33	-6,381.60	2,408.18	725.06	649.41	75.65	9.584		
12,600.00	6,040.00	6,413.89	6,048.46	113.83	35.41	149.89	-6,381.63	2,407.34	625.27	549.09	76.18	8.208		
12,700.00	6,040.00	6,412.77	6,047.74	115.49	35.40	148.40	-6,381.67	2,406.48	525.54	448.63	76.91	6.833		
12,800.00	6,040.00	6,411.62	6,047.01	117.16	35.40	146.86	-6,381.70	2,405.59	425.95	347.94	78.00	5.461		
12,900.00	6,040.00	6,410.43	6,046.25	118.82	35.39	145.26	-6,381.74	2,404.68	326.59	246.79	79.80	4.092		
13,000.00	6,040.00	6,409.21	6,045.46	120.49	35.39	143.61	-6,381.77	2,403.75	227.80	144.54	83.26	2.736		
13,100.00	6,040.00	6,407.96	6,044.66	122.16	35.38	141.91	-6,381.81	2,402.79	130.84	38.76	92.08	1.421	Level 3	
13,200.00	6,040.00	6,406.67	6,043.83	123.84	35.38	140.16	-6,381.85	2,401.80	48.41	-75.40	123.81	0.391	Level 1	
13,223.89	6,040.00	6,406.36	6,043.62	124.24	35.37	139.73	-6,381.86	2,401.56	42.10	-79.32	121.42	0.347	Level 1, CC, ES, SF	
13,300.00	6,040.00	6,405.34	6,042.97	125.52	35.37	138.35	-6,381.89	2,400.79	86.97	19.39	67.58	1.287	Level 3	
13,400.00	6,040.00	6,403.98	6,042.08	127.20	35.36	136.50	-6,381.93	2,399.75	181.06	117.03	64.03	2.828		
13,500.00	6,040.00	6,402.57	6,041.17	128.89	35.36	134.59	-6,381.97	2,398.68	279.28	213.29	65.99	4.232		
13,600.00	6,040.00	6,401.12	6,040.22	130.58	35.35	132.64	-6,382.02	2,397.58	378.42	311.06	67.37	5.617		
13,700.00	6,040.00	6,399.62	6,039.24	132.27	35.34	130.64	-6,382.07	2,396.45	477.92	409.64	68.29	6.999		
13,800.00	6,040.00	6,398.08	6,038.23	133.96	35.34	128.59	-6,382.11	2,395.29	577.59	508.67	68.93	8.380		
13,900.00	6,040.00	6,396.49	6,037.18	135.66	35.33	126.51	-6,382.16	2,394.09	677.36	607.96	69.40	9.761		
14,000.00	6,040.00	6,394.84	6,036.09	137.35	35.32	124.40	-6,382.22	2,392.86	777.18	707.43	69.75	11.142		
14,100.00	6,040.00	6,393.14	6,034.97	139.05	35.31	122.25	-6,382.27	2,391.59	877.04	807.01	70.02	12.525		
14,200.00	6,040.00	6,391.39	6,033.80	140.75	35.30	120.08	-6,382.32	2,390.28	976.92	906.68	70.24	13.908		
14,300.00	6,040.00	6,389.57	6,032.59	142.46	35.30	117.89	-6,382.38	2,388.93	1,076.83	1,006.41	70.42	15.291		
14,400.00	6,040.00	6,387.69	6,031.33	144.17	35.29	115.68	-6,382.44	2,387.53	1,176.75	1,106.18	70.57	16.675		
14,500.00	6,040.00	6,386.18	6,030.32	145.87	35.28	113.95	-6,382.49	2,386.42	1,276.68	1,205.96	70.72	18.053		
14,600.00	6,040.00	6,384.93	6,029.48	147.58	35.28	112.55	-6,382.53	2,385.49	1,376.61	1,305.75	70.86	19.426		
14,700.00	6,040.00	6,383.71	6,028.65	149.29	35.27	111.21	-6,382.57	2,384.59	1,476.56	1,405.57	70.99	20.798		
14,800.00	6,040.00	6,382.51	6,027.85	151.01	35.26	109.93	-6,382.61	2,383.70	1,576.51	1,505.40	71.11	22.169		
14,900.00	6,040.00	6,381.35	6,027.06	152.72	35.26	108.71	-6,382.65	2,382.84	1,676.47	1,605.25	71.22	23.539		
15,000.00	6,040.00	6,380.20	6,026.29	154.44	35.25	107.55	-6,382.68	2,382.00	1,776.43	1,705.10	71.32	24.907		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 783-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - OWB - FINAL SURVEY														
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,379.09	6,025.54	156.16	35.25	106.43	-6,382.72	2,381.17	1,876.39	1,804.97	71.42	26.274		
15,200.00	6,040.00	6,378.00	6,024.81	157.88	35.24	105.37	-6,382.75	2,380.37	1,976.36	1,904.85	71.50	27.640		
15,300.00	6,040.00	6,376.93	6,024.09	159.60	35.24	104.35	-6,382.78	2,379.58	2,076.33	2,004.74	71.59	29.005		
15,400.00	6,040.00	6,375.88	6,023.38	161.32	35.24	103.37	-6,382.82	2,378.81	2,176.30	2,104.63	71.66	30.368		
15,500.00	6,040.00	6,374.86	6,022.69	163.04	35.23	102.44	-6,382.85	2,378.06	2,276.27	2,204.53	71.74	31.729		
15,600.00	6,040.00	6,373.86	6,022.01	164.77	35.23	101.54	-6,382.88	2,377.32	2,376.24	2,304.43	71.81	33.090		
15,700.00	6,040.00	6,372.88	6,021.35	166.49	35.22	100.69	-6,382.91	2,376.60	2,476.22	2,404.34	71.88	34.449		
15,800.00	6,040.00	6,371.92	6,020.70	168.22	35.22	99.87	-6,382.94	2,375.89	2,576.20	2,504.25	71.95	35.806		
15,900.00	6,040.00	6,370.98	6,020.07	169.95	35.21	99.08	-6,382.97	2,375.20	2,676.18	2,604.16	72.01	37.162		
16,000.00	6,040.00	6,370.06	6,019.44	171.68	35.21	98.33	-6,382.99	2,374.52	2,776.16	2,704.08	72.08	38.517		
16,100.00	6,040.00	6,369.16	6,018.83	173.41	35.21	97.60	-6,383.02	2,373.86	2,876.14	2,804.00	72.14	39.869		
16,200.00	6,040.00	6,368.27	6,018.23	175.14	35.20	96.91	-6,383.05	2,373.21	2,976.12	2,903.92	72.20	41.221		
16,300.00	6,040.00	6,367.41	6,017.64	176.88	35.20	96.24	-6,383.07	2,372.57	3,076.10	3,003.84	72.26	42.570		
16,400.00	6,040.00	6,366.56	6,017.07	178.61	35.19	95.59	-6,383.10	2,371.95	3,176.09	3,103.77	72.32	43.918		
16,500.00	6,040.00	6,365.72	6,016.50	180.34	35.19	94.98	-6,383.12	2,371.34	3,276.07	3,203.69	72.38	45.265		
16,600.00	6,040.00	6,364.90	6,015.95	182.08	35.19	94.38	-6,383.15	2,370.74	3,376.06	3,303.62	72.43	46.610		
16,700.00	6,040.00	6,364.10	6,015.40	183.82	35.18	93.81	-6,383.17	2,370.15	3,476.04	3,403.55	72.49	47.953		
16,800.00	6,040.00	6,363.31	6,014.87	185.56	35.18	93.25	-6,383.19	2,369.57	3,576.03	3,503.48	72.54	49.294		
16,865.66	6,040.00	6,362.80	6,014.52	186.70	35.18	92.90	-6,383.21	2,369.20	3,641.68	3,569.09	72.58	50.174		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 783-MWD OWSG, 8640-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - STK 1 - STK 1														
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	159.97	-4,854.33	1,769.48	5,166.86					
100.00	100.00	0.00	0.00	0.13	0.00	159.97	-4,854.33	1,769.48	5,167.27	5,167.13	0.14	N/A		
200.00	199.98	0.00	0.00	0.49	0.00	85.56	-4,854.33	1,769.48	5,169.49	5,168.99	0.49	N/A		
300.00	299.84	0.00	0.00	0.86	0.00	85.48	-4,854.33	1,769.48	5,173.37	5,172.51	0.86	6,025.441		
400.00	399.45	0.00	0.00	1.23	0.00	85.37	-4,854.33	1,769.48	5,178.90	5,177.66	1.24	4,189.745		
483.73	482.59	192.53	192.45	1.56	0.49	85.54	-4,858.87	1,771.25	5,176.36	5,174.42	1.93	2,678.716		
500.00	498.70	199.36	199.26	1.63	0.50	85.53	-4,859.19	1,771.38	5,177.03	5,175.02	2.01	2,575.232		
600.00	597.47	241.17	241.01	2.05	0.61	85.51	-4,861.45	1,772.26	5,181.65	5,179.13	2.51	2,062.830		
700.00	695.62	282.69	282.43	2.51	0.71	85.49	-4,864.10	1,773.30	5,187.13	5,184.08	3.04	1,703.971		
800.00	793.06	323.87	323.48	3.00	0.82	85.46	-4,867.16	1,774.49	5,193.47	5,189.86	3.61	1,437.694		
900.00	889.64	364.66	364.10	3.54	0.92	85.43	-4,870.59	1,775.84	5,200.70	5,196.48	4.22	1,231.951		
1,000.00	985.27	404.99	404.23	4.13	1.02	85.40	-4,874.38	1,777.32	5,208.81	5,203.93	4.88	1,068.239		
1,100.00	1,079.82	444.83	443.82	4.77	1.12	85.36	-4,878.51	1,778.94	5,217.82	5,212.24	5.58	935.083		
1,200.00	1,173.17	484.11	482.81	5.46	1.22	85.31	-4,882.97	1,780.68	5,227.73	5,221.40	6.34	824.948		
1,300.00	1,265.23	522.80	521.16	6.21	1.32	85.29	-4,887.72	1,782.54	5,238.57	5,231.42	7.15	732.802		
1,400.00	1,356.75	561.20	559.17	7.00	1.42	85.46	-4,892.79	1,784.52	5,250.51	5,242.52	7.99	657.058		
1,500.00	1,448.28	782.50	777.00	7.80	1.98	86.41	-4,928.98	1,798.68	5,271.21	5,261.99	9.22	571.459		
1,600.00	1,539.81	782.50	777.00	8.60	1.98	86.41	-4,928.98	1,798.68	5,282.73	5,272.73	10.00	528.098		
1,700.00	1,631.34	782.50	777.00	9.41	1.98	86.41	-4,928.98	1,798.68	5,296.11	5,285.33	10.78	491.169		
1,800.00	1,722.86	782.50	777.00	10.23	1.98	86.41	-4,928.98	1,798.68	5,311.34	5,299.78	11.56	459.457		
1,900.00	1,814.39	782.50	777.00	11.05	1.98	86.41	-4,928.98	1,798.68	5,328.40	5,316.07	12.33	432.019		
2,000.00	1,905.92	782.50	777.00	11.87	1.98	86.41	-4,928.98	1,798.68	5,347.28	5,334.18	13.10	408.117		
2,100.00	1,997.45	821.69	815.31	12.69	2.18	86.57	-4,936.70	1,801.55	5,367.56	5,353.53	14.04	382.365		
2,200.00	2,088.97	879.00	871.16	13.52	2.47	86.82	-4,948.92	1,805.58	5,389.25	5,374.20	15.05	358.151		
2,300.00	2,180.50	879.00	871.16	14.35	2.47	86.82	-4,948.92	1,805.58	5,411.85	5,396.06	15.80	342.534		
2,400.00	2,272.03	914.62	905.74	15.17	2.67	86.98	-4,957.11	1,808.06	5,435.85	5,419.14	16.71	325.333		
2,500.00	2,363.56	970.00	959.26	16.00	2.98	87.22	-4,970.76	1,812.06	5,461.32	5,443.62	17.70	308.492		
2,600.00	2,455.08	970.00	959.26	16.83	2.98	87.22	-4,970.76	1,812.06	5,487.63	5,469.19	18.43	297.725		
2,700.00	2,546.61	999.72	987.84	17.66	3.15	87.34	-4,978.56	1,814.26	5,515.37	5,496.07	19.30	285.791		
2,800.00	2,638.14	1,027.64	1,014.62	18.50	3.32	87.47	-4,986.19	1,816.36	5,544.34	5,524.19	20.15	275.192		
2,900.00	2,729.67	1,061.00	1,046.50	19.33	3.52	87.61	-4,995.68	1,818.91	5,574.52	5,553.51	21.01	265.278		
3,000.00	2,821.19	1,093.26	1,077.23	20.16	3.73	87.75	-5,005.16	1,821.43	5,605.81	5,583.93	21.88	256.157		
3,100.00	2,912.72	1,153.00	1,133.98	20.99	4.11	88.00	-5,023.20	1,826.36	5,638.16	5,615.29	22.87	246.517		
3,200.00	3,004.25	1,203.34	1,181.69	21.83	4.43	88.22	-5,038.65	1,830.63	5,671.22	5,647.41	23.81	238.165		
3,300.00	3,095.78	1,244.00	1,220.25	22.66	4.70	88.39	-5,051.11	1,834.05	5,704.78	5,680.07	24.71	230.905		
3,400.00	3,187.30	1,294.19	1,267.73	23.50	5.03	88.60	-5,066.86	1,838.09	5,739.16	5,713.52	25.64	223.822		
3,500.00	3,278.83	1,336.00	1,307.10	24.33	5.31	88.78	-5,080.57	1,841.20	5,774.71	5,748.18	26.53	217.689		
3,600.00	3,370.36	1,336.00	1,307.10	25.16	5.31	88.78	-5,080.57	1,841.20	5,811.34	5,784.18	27.17	213.927		
3,700.00	3,461.89	1,384.65	1,352.69	26.00	5.65	88.99	-5,097.20	1,844.75	5,848.87	5,820.80	28.08	208.316		
3,800.00	3,553.41	1,427.00	1,392.14	26.83	5.95	89.17	-5,112.25	1,847.94	5,887.58	5,858.64	28.95	203.391		
3,900.00	3,644.94	1,575.14	1,530.47	27.67	7.00	89.78	-5,163.89	1,859.83	5,926.01	5,895.55	30.45	194.586		
4,000.00	3,736.47	1,609.00	1,562.14	28.51	7.24	89.92	-5,175.62	1,862.38	5,964.67	5,933.40	31.27	190.745		
4,100.00	3,828.00	1,661.14	1,610.76	29.34	7.62	90.14	-5,194.00	1,866.44	6,004.08	5,971.89	32.19	186.496		
4,200.00	3,919.52	1,700.00	1,646.83	30.18	7.90	90.29	-5,208.06	1,869.77	6,044.46	6,011.43	33.03	182.997		
4,300.00	4,011.05	1,757.24	1,699.81	31.01	8.32	90.51	-5,229.01	1,875.30	6,085.56	6,051.58	33.98	179.073		
4,400.00	4,102.58	1,827.31	1,764.51	31.85	8.85	90.77	-5,254.74	1,883.19	6,127.12	6,092.09	35.02	174.952		
4,500.00	4,194.11	1,899.64	1,831.17	32.68	9.40	91.03	-5,281.30	1,892.31	6,168.99	6,132.91	36.08	170.989		
4,600.00	4,285.64	1,961.36	1,887.89	33.52	9.88	91.24	-5,304.05	1,900.90	6,211.29	6,174.22	37.07	167.574		
4,700.00	4,377.16	2,055.59	1,974.41	34.36	10.61	91.55	-5,338.92	1,914.21	6,253.88	6,215.60	38.28	163.378		
4,800.00	4,468.69	2,065.00	1,983.07	35.19	10.68	91.58	-5,342.40	1,915.45	6,296.96	6,258.07	38.90	161.884		
4,900.00	4,560.22	2,115.87	2,029.74	36.03	11.08	91.76	-5,361.68	1,921.58	6,340.67	6,300.88	39.80	159.321		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 783-MWD OWSG, 8640-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1609CS - STK 1 - STK 1															
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.00	4,651.75	2,157.00	2,067.29	36.87	11.40	91.91	-5,377.94	1,925.76	6,385.52	6,344.89	40.62	157.184			
5,100.00	4,743.27	2,529.00	2,410.07	37.70	14.24	93.21	-5,516.42	1,965.42	6,428.25	6,384.49	43.76	146.895			
5,200.00	4,834.80	2,529.00	2,410.07	38.54	14.24	93.21	-5,516.42	1,965.42	6,470.30	6,425.98	44.32	146.003			
5,300.00	4,926.33	2,582.21	2,459.39	39.38	14.64	93.38	-5,535.35	1,971.80	6,512.65	6,467.42	45.23	143.976			
5,400.00	5,017.86	2,623.00	2,496.91	40.21	14.95	93.52	-5,550.86	1,975.76	6,556.56	6,510.50	46.06	142.349			
5,500.00	5,109.38	2,623.00	2,496.91	41.05	14.95	93.52	-5,550.86	1,975.76	6,601.13	6,554.55	46.58	141.703			
5,600.00	5,200.91	2,705.64	2,572.64	41.89	15.60	93.81	-5,583.04	1,983.40	6,646.48	6,598.78	47.70	139.336			
5,700.00	5,292.44	3,042.07	2,883.21	42.73	18.16	94.88	-5,706.69	2,020.80	6,689.40	6,638.74	50.66	132.045			
5,800.00	5,383.97	3,093.00	2,930.46	43.56	18.53	95.04	-5,724.94	2,026.16	6,732.13	6,680.57	51.56	130.569			
5,900.00	5,475.51	3,132.42	2,966.94	44.40	18.83	91.63	-5,739.28	2,030.33	6,775.25	6,722.88	52.37	129.362			
6,000.00	5,567.37	3,188.00	3,018.32	45.19	19.25	69.18	-5,759.49	2,036.67	6,808.36	6,755.07	53.29	127.751			
6,100.00	5,657.57	3,245.48	3,071.27	45.89	19.70	50.38	-5,780.65	2,043.90	6,825.36	6,771.15	54.20	125.919			
6,200.00	5,743.38	3,282.00	3,104.75	46.48	19.98	37.51	-5,794.35	2,048.90	6,826.00	6,771.10	54.90	124.335			
6,300.00	5,822.18	3,282.00	3,104.75	46.95	19.98	29.05	-5,794.35	2,048.90	6,810.64	6,755.40	55.24	123.283			
6,400.00	5,891.60	3,282.00	3,104.75	47.31	19.98	23.32	-5,794.35	2,048.90	6,779.84	6,724.33	55.51	122.141			
6,500.00	5,949.50	6,402.85	6,041.35	47.58	35.36	27.86	-6,381.97	2,398.90	6,705.28	6,633.28	72.00	93.128			
6,600.00	5,994.15	6,426.73	6,056.51	47.76	35.47	25.66	-6,381.26	2,417.33	6,617.28	6,544.75	72.53	91.234			
6,700.00	6,024.17	6,442.22	6,065.93	47.86	35.55	24.51	-6,380.84	2,429.62	6,522.51	6,449.64	72.87	89.510			
6,800.00	6,038.67	6,449.41	6,070.19	47.91	35.58	25.58	-6,380.65	2,435.41	6,423.74	6,350.72	73.02	87.968			
6,900.00	6,040.00	6,449.75	6,070.39	47.93	35.58	-173.29	-6,380.65	2,435.68	6,323.77	6,250.73	73.03	86.586			
7,000.00	6,040.00	6,449.39	6,070.18	47.98	35.58	-173.55	-6,380.66	2,435.39	6,223.77	6,150.74	73.03	85.221			
7,100.00	6,040.00	6,449.02	6,069.97	48.09	35.58	-173.81	-6,380.66	2,435.10	6,123.78	6,050.75	73.03	83.855			
7,200.00	6,040.00	6,448.65	6,069.75	48.23	35.58	-174.08	-6,380.67	2,434.80	6,023.78	5,950.76	73.03	82.488			
7,300.00	6,040.00	6,448.28	6,069.53	48.43	35.58	-174.35	-6,380.68	2,434.49	5,923.79	5,850.76	73.02	81.120			
7,400.00	6,040.00	6,447.89	6,069.30	48.67	35.57	-174.64	-6,380.69	2,434.18	5,823.79	5,750.77	73.02	79.752			
7,500.00	6,040.00	6,447.51	6,069.07	48.97	35.57	-174.93	-6,380.70	2,433.87	5,723.80	5,650.77	73.02	78.384			
7,600.00	6,040.00	6,447.11	6,068.84	49.32	35.57	-175.22	-6,380.71	2,433.55	5,623.80	5,550.78	73.02	77.015			
7,700.00	6,040.00	6,446.71	6,068.60	49.73	35.57	-175.52	-6,380.72	2,433.23	5,523.81	5,450.78	73.02	75.645			
7,800.00	6,040.00	6,446.30	6,068.36	50.19	35.57	-175.83	-6,380.74	2,432.90	5,423.81	5,350.79	73.02	74.275			
7,900.00	6,040.00	6,445.89	6,068.11	50.71	35.56	-176.15	-6,380.75	2,432.57	5,323.82	5,250.79	73.03	72.904			
8,000.00	6,040.00	6,445.47	6,067.86	51.29	35.56	-176.48	-6,380.76	2,432.23	5,223.82	5,150.80	73.03	71.533			
8,100.00	6,040.00	6,445.04	6,067.61	51.93	35.56	-176.81	-6,380.77	2,431.88	5,123.83	5,050.80	73.03	70.161			
8,200.00	6,040.00	6,444.60	6,067.35	52.63	35.56	-177.16	-6,380.78	2,431.53	5,023.84	4,950.80	73.03	68.789			
8,300.00	6,040.00	6,444.16	6,067.09	53.39	35.55	-177.51	-6,380.79	2,431.18	4,923.84	4,850.81	73.04	67.416			
8,400.00	6,040.00	6,443.71	6,066.82	54.20	35.55	-177.87	-6,380.80	2,430.81	4,823.85	4,750.81	73.04	66.043			
8,500.00	6,040.00	6,443.25	6,066.55	55.07	35.55	-178.25	-6,380.81	2,430.44	4,723.86	4,650.81	73.05	64.670			
8,600.00	6,040.00	6,442.78	6,066.27	55.99	35.55	-178.63	-6,380.83	2,430.07	4,623.86	4,550.81	73.05	63.296			
8,700.00	6,040.00	6,442.31	6,065.99	56.97	35.55	-179.02	-6,380.84	2,429.69	4,523.87	4,450.81	73.06	61.922			
8,800.00	6,040.00	6,441.82	6,065.70	57.99	35.54	-179.43	-6,380.85	2,429.30	4,423.88	4,350.81	73.06	60.548			
8,900.00	6,040.00	6,441.33	6,065.40	59.06	35.54	-179.84	-6,380.87	2,428.91	4,323.88	4,250.81	73.07	59.173			
9,000.00	6,040.00	6,440.83	6,065.10	60.17	35.54	179.73	-6,380.88	2,428.51	4,223.89	4,150.81	73.08	57.798			
9,100.00	6,040.00	6,440.32	6,064.80	61.32	35.54	179.29	-6,380.89	2,428.10	4,123.90	4,050.81	73.09	56.422			
9,200.00	6,040.00	6,439.80	6,064.49	62.51	35.53	178.84	-6,380.91	2,427.69	4,023.91	3,950.81	73.10	55.047			
9,300.00	6,040.00	6,439.27	6,064.17	63.73	35.53	178.37	-6,380.92	2,427.26	3,923.92	3,850.81	73.11	53.671			
9,400.00	6,040.00	6,438.74	6,063.84	64.98	35.53	177.89	-6,380.93	2,426.83	3,823.93	3,750.80	73.12	52.294			
9,500.00	6,040.00	6,438.19	6,063.51	66.27	35.53	177.39	-6,380.95	2,426.39	3,723.94	3,650.80	73.14	50.918			
9,600.00	6,040.00	6,437.63	6,063.17	67.58	35.52	176.88	-6,380.96	2,425.95	3,623.95	3,550.80	73.15	49.541			
9,700.00	6,040.00	6,437.06	6,062.83	68.92	35.52	176.36	-6,380.98	2,425.49	3,523.96	3,450.79	73.16	48.165			
9,800.00	6,040.00	6,436.48	6,062.48	70.29	35.52	175.81	-6,381.00	2,425.03	3,423.97	3,350.79	73.18	46.788			
9,900.00	6,040.00	6,435.88	6,062.12	71.67	35.51	175.25	-6,381.01	2,424.56	3,323.98	3,250.78	73.20	45.410			
10,000.00	6,040.00	6,435.28	6,061.75	73.08	35.51	174.68	-6,381.03	2,424.08	3,223.99	3,150.77	73.22	44.033			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 783-MWD OWWSG, 8640-MWD OWWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,040.00	6,434.66	6,061.38	74.51	35.51	174.08	-6,381.04	2,423.59	3,124.00	3,050.77	73.24	42.656		
10,200.00	6,040.00	6,434.03	6,061.00	75.95	35.51	173.46	-6,381.06	2,423.09	3,024.02	2,950.76	73.26	41.278		
10,300.00	6,040.00	6,433.39	6,060.60	77.41	35.50	172.83	-6,381.08	2,422.58	2,924.03	2,850.75	73.28	39.900		
10,400.00	6,040.00	6,432.73	6,060.20	78.89	35.50	172.17	-6,381.10	2,422.06	2,824.05	2,750.74	73.31	38.523		
10,500.00	6,040.00	6,432.07	6,059.80	80.38	35.50	171.49	-6,381.12	2,421.53	2,724.06	2,650.72	73.34	37.145		
10,600.00	6,040.00	6,431.38	6,059.38	81.88	35.49	170.78	-6,381.13	2,420.99	2,624.08	2,550.71	73.37	35.767		
10,700.00	6,040.00	6,430.68	6,058.95	83.40	35.49	170.05	-6,381.15	2,420.44	2,524.10	2,450.70	73.40	34.389		
10,800.00	6,040.00	6,429.97	6,058.51	84.93	35.49	169.30	-6,381.17	2,419.88	2,424.11	2,350.68	73.43	33.010		
10,900.00	6,040.00	6,429.24	6,058.06	86.47	35.48	168.52	-6,381.19	2,419.31	2,324.13	2,250.66	73.47	31.632		
11,000.00	6,040.00	6,428.50	6,057.61	88.02	35.48	167.71	-6,381.21	2,418.72	2,224.16	2,150.64	73.52	30.254		
11,100.00	6,040.00	6,427.74	6,057.14	89.58	35.48	166.87	-6,381.24	2,418.12	2,124.18	2,050.62	73.56	28.876		
11,200.00	6,040.00	6,426.96	6,056.66	91.15	35.47	166.00	-6,381.26	2,417.51	2,024.20	1,950.59	73.61	27.498		
11,300.00	6,040.00	6,426.17	6,056.16	92.73	35.47	165.10	-6,381.28	2,416.89	1,924.23	1,850.56	73.67	26.119		
11,400.00	6,040.00	6,425.35	6,055.66	94.31	35.46	164.17	-6,381.30	2,416.25	1,824.26	1,750.53	73.73	24.741		
11,500.00	6,040.00	6,424.52	6,055.14	95.91	35.46	163.21	-6,381.33	2,415.60	1,724.30	1,650.49	73.81	23.363		
11,600.00	6,040.00	6,423.67	6,054.61	97.51	35.46	162.20	-6,381.35	2,414.93	1,624.33	1,550.45	73.89	21.985		
11,700.00	6,040.00	6,422.79	6,054.07	99.11	35.45	161.16	-6,381.38	2,414.25	1,524.37	1,450.40	73.98	20.606		
11,800.00	6,040.00	6,421.90	6,053.51	100.73	35.45	160.09	-6,381.40	2,413.55	1,424.42	1,350.34	74.08	19.228		
11,900.00	6,040.00	6,420.98	6,052.94	102.35	35.44	158.97	-6,381.43	2,412.84	1,324.47	1,250.27	74.20	17.850		
12,000.00	6,040.00	6,420.05	6,052.35	103.97	35.44	157.81	-6,381.45	2,412.11	1,224.53	1,150.19	74.34	16.472		
12,100.00	6,040.00	6,419.08	6,051.74	105.60	35.43	156.60	-6,381.48	2,411.36	1,124.60	1,050.10	74.51	15.094		
12,200.00	6,040.00	6,418.10	6,051.12	107.24	35.43	155.36	-6,381.51	2,410.59	1,024.69	949.98	74.71	13.716		
12,300.00	6,040.00	6,417.09	6,050.48	108.88	35.42	154.06	-6,381.54	2,409.81	924.79	849.84	74.95	12.339		
12,400.00	6,040.00	6,416.05	6,049.83	110.53	35.42	152.72	-6,381.57	2,409.01	824.91	749.65	75.26	10.961		
12,500.00	6,040.00	6,414.98	6,049.15	112.18	35.41	151.33	-6,381.60	2,408.18	725.06	649.41	75.65	9.584		
12,600.00	6,040.00	6,413.89	6,048.46	113.83	35.41	149.89	-6,381.63	2,407.34	625.27	549.09	76.18	8.208		
12,700.00	6,040.00	6,412.77	6,047.74	115.49	35.40	148.40	-6,381.67	2,406.48	525.54	448.63	76.91	6.833		
12,800.00	6,040.00	6,411.62	6,047.01	117.16	35.40	146.86	-6,381.70	2,405.59	425.95	347.94	78.00	5.461		
12,900.00	6,040.00	6,410.43	6,046.25	118.82	35.39	145.26	-6,381.74	2,404.68	326.59	246.79	79.80	4.092		
13,000.00	6,040.00	6,409.21	6,045.46	120.49	35.39	143.61	-6,381.77	2,403.75	227.80	144.54	83.26	2.736		
13,100.00	6,040.00	6,407.96	6,044.66	122.16	35.38	141.91	-6,381.81	2,402.79	130.84	38.76	92.08	1.421	Level 3	
13,200.00	6,040.00	6,406.67	6,043.83	123.84	35.38	140.16	-6,381.85	2,401.80	48.41	-75.40	123.81	0.391	Level 1	
13,223.89	6,040.00	6,406.36	6,043.62	124.24	35.37	139.73	-6,381.86	2,401.56	42.10	-79.32	121.42	0.347	Level 1, CC, ES, SF	
13,300.00	6,040.00	6,405.34	6,042.97	125.52	35.37	138.35	-6,381.89	2,400.79	86.97	19.39	67.58	1.287	Level 3	
13,400.00	6,040.00	6,403.98	6,042.08	127.20	35.36	136.50	-6,381.93	2,399.75	181.06	117.03	64.03	2.828		
13,500.00	6,040.00	6,402.57	6,041.17	128.89	35.36	134.59	-6,381.97	2,398.68	279.28	213.29	65.99	4.232		
13,600.00	6,040.00	6,401.12	6,040.22	130.58	35.35	132.64	-6,382.02	2,397.58	378.42	311.06	67.37	5.617		
13,700.00	6,040.00	6,399.62	6,039.24	132.27	35.34	130.64	-6,382.07	2,396.45	477.92	409.64	68.29	6.999		
13,800.00	6,040.00	6,398.08	6,038.23	133.96	35.34	128.59	-6,382.11	2,395.29	577.59	508.67	68.93	8.380		
13,900.00	6,040.00	6,396.49	6,037.18	135.66	35.33	126.51	-6,382.16	2,394.09	677.36	607.96	69.40	9.761		
14,000.00	6,040.00	6,394.84	6,036.09	137.35	35.32	124.40	-6,382.22	2,392.86	777.18	707.43	69.75	11.142		
14,100.00	6,040.00	6,393.14	6,034.97	139.05	35.31	122.25	-6,382.27	2,391.59	877.04	807.01	70.02	12.525		
14,200.00	6,040.00	6,391.39	6,033.80	140.75	35.30	120.08	-6,382.32	2,390.28	976.92	906.68	70.24	13.908		
14,300.00	6,040.00	6,389.57	6,032.59	142.46	35.30	117.89	-6,382.38	2,388.93	1,076.83	1,006.41	70.42	15.291		
14,400.00	6,040.00	6,387.69	6,031.33	144.17	35.29	115.68	-6,382.44	2,387.53	1,176.75	1,106.18	70.57	16.675		
14,500.00	6,040.00	6,386.18	6,030.32	145.87	35.28	113.95	-6,382.49	2,386.42	1,276.68	1,205.96	70.72	18.053		
14,600.00	6,040.00	6,384.93	6,029.48	147.58	35.28	112.55	-6,382.53	2,385.49	1,376.61	1,305.75	70.86	19.426		
14,700.00	6,040.00	6,383.71	6,028.65	149.29	35.27	111.21	-6,382.57	2,384.59	1,476.56	1,405.57	70.99	20.798		
14,800.00	6,040.00	6,382.51	6,027.85	151.01	35.26	109.93	-6,382.61	2,383.70	1,576.51	1,505.40	71.11	22.169		
14,900.00	6,040.00	6,381.35	6,027.06	152.72	35.26	108.71	-6,382.65	2,382.84	1,676.47	1,605.25	71.22	23.539		
15,000.00	6,040.00	6,380.20	6,026.29	154.44	35.25	107.55	-6,382.68	2,382.00	1,776.43	1,705.10	71.32	24.907		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 783-MWD OWSG, 8640-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	6,040.00	6,379.09	6,025.54	156.16	35.25	106.43	-6,382.72	2,381.17	1,876.39	1,804.97	71.42	26.274	
15,200.00	6,040.00	6,378.00	6,024.81	157.88	35.24	105.37	-6,382.75	2,380.37	1,976.36	1,904.85	71.50	27.640	
15,300.00	6,040.00	6,376.93	6,024.09	159.60	35.24	104.35	-6,382.78	2,379.58	2,076.33	2,004.74	71.59	29.005	
15,400.00	6,040.00	6,375.88	6,023.38	161.32	35.24	103.37	-6,382.82	2,378.81	2,176.30	2,104.63	71.66	30.368	
15,500.00	6,040.00	6,374.86	6,022.69	163.04	35.23	102.44	-6,382.85	2,378.06	2,276.27	2,204.53	71.74	31.729	
15,600.00	6,040.00	6,373.86	6,022.01	164.77	35.23	101.54	-6,382.88	2,377.32	2,376.24	2,304.43	71.81	33.090	
15,700.00	6,040.00	6,372.88	6,021.35	166.49	35.22	100.69	-6,382.91	2,376.60	2,476.22	2,404.34	71.88	34.449	
15,800.00	6,040.00	6,371.92	6,020.70	168.22	35.22	99.87	-6,382.94	2,375.89	2,576.20	2,504.25	71.95	35.806	
15,900.00	6,040.00	6,370.98	6,020.07	169.95	35.21	99.08	-6,382.97	2,375.20	2,676.18	2,604.16	72.01	37.162	
16,000.00	6,040.00	6,370.06	6,019.44	171.68	35.21	98.33	-6,382.99	2,374.52	2,776.16	2,704.08	72.08	38.517	
16,100.00	6,040.00	6,369.16	6,018.83	173.41	35.21	97.60	-6,383.02	2,373.86	2,876.14	2,804.00	72.14	39.869	
16,200.00	6,040.00	6,368.27	6,018.23	175.14	35.20	96.91	-6,383.05	2,373.21	2,976.12	2,903.92	72.20	41.221	
16,300.00	6,040.00	6,367.41	6,017.64	176.88	35.20	96.24	-6,383.07	2,372.57	3,076.10	3,003.84	72.26	42.570	
16,400.00	6,040.00	6,366.56	6,017.07	178.61	35.19	95.59	-6,383.10	2,371.95	3,176.09	3,103.77	72.32	43.918	
16,500.00	6,040.00	6,365.72	6,016.50	180.34	35.19	94.98	-6,383.12	2,371.34	3,276.07	3,203.69	72.38	45.265	
16,600.00	6,040.00	6,364.90	6,015.95	182.08	35.19	94.38	-6,383.15	2,370.74	3,376.06	3,303.62	72.43	46.610	
16,700.00	6,040.00	6,364.10	6,015.40	183.82	35.18	93.81	-6,383.17	2,370.15	3,476.04	3,403.55	72.49	47.953	
16,800.00	6,040.00	6,363.31	6,014.87	185.56	35.18	93.25	-6,383.19	2,369.57	3,576.03	3,503.48	72.54	49.294	
16,865.66	6,040.00	6,362.80	6,014.52	186.70	35.18	92.90	-6,383.21	2,369.20	3,641.68	3,569.09	72.58	50.174	

# Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 863-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1724C - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	2,724.13	2,653.67	0.00	12.35	165.32	-8,067.67	2,113.05	8,762.98					
100.00	100.00	2,782.50	2,709.08	0.13	12.71	165.29	-8,049.35	2,113.50	8,732.61	8,722.30	10.31	847.125		
200.00	199.98	2,815.65	2,740.62	0.49	12.92	91.53	-8,039.14	2,113.72	8,702.76	8,692.19	10.58	822.835		
300.00	299.84	2,877.50	2,799.51	0.86	13.30	92.13	-8,020.24	2,114.39	8,673.49	8,662.41	11.08	782.857		
400.00	399.45	2,924.47	2,844.30	1.23	13.58	92.73	-8,006.09	2,115.01	8,644.79	8,633.21	11.58	746.555		
500.00	498.70	2,984.43	2,901.56	1.63	13.94	93.33	-7,988.35	2,115.71	8,616.73	8,604.55	12.18	707.356		
600.00	597.47	3,000.00	3,072.43	2.05	0.77	94.01	-7,934.36	2,118.11	8,588.30	8,585.84	2.45	3,500.746		
700.00	695.62	3,681.78	3,561.77	2.51	18.36	95.05	-7,764.69	2,122.88	8,557.62	8,541.60	16.01	534.500		
800.00	793.06	3,736.50	3,613.22	3.00	18.73	95.80	-7,746.06	2,122.75	8,525.44	8,508.74	16.70	510.383		
900.00	889.64	3,736.50	3,613.22	3.54	18.73	96.45	-7,746.06	2,122.75	8,493.99	8,476.79	17.21	493.634		
1,000.00	985.27	3,764.93	3,640.08	4.13	18.91	97.13	-7,736.75	2,122.50	8,463.86	8,445.98	17.88	473.388		
1,100.00	1,079.82	3,800.69	3,673.93	4.77	19.14	97.80	-7,725.25	2,122.14	8,434.84	8,416.20	18.64	452.628		
1,200.00	1,173.17	3,841.54	3,712.71	5.46	19.39	98.47	-7,712.40	2,121.67	8,406.97	8,387.50	19.47	431.836		
1,300.00	1,265.23	3,927.87	3,794.72	6.21	19.93	99.16	-7,685.45	2,120.76	8,379.98	8,359.44	20.54	407.965		
1,400.00	1,356.75	3,928.50	3,795.32	7.00	19.94	99.17	-7,685.25	2,120.76	8,353.82	8,332.52	21.30	392.136		
1,500.00	1,448.28	3,969.75	3,834.62	7.80	20.18	99.27	-7,672.70	2,120.41	8,328.35	8,306.11	22.24	374.466		
1,600.00	1,539.81	4,023.50	3,886.12	8.60	20.51	99.41	-7,657.33	2,120.04	8,304.16	8,280.93	23.24	357.373		
1,700.00	1,631.34	4,023.50	3,886.12	9.41	20.51	99.41	-7,657.33	2,120.04	8,280.36	8,256.33	24.03	344.593		
1,800.00	1,722.86	4,282.59	4,133.75	10.23	22.06	100.06	-7,581.17	2,121.00	8,256.18	8,230.34	25.85	319.429		
1,900.00	1,814.39	4,387.62	4,233.75	11.05	22.71	100.33	-7,549.09	2,121.79	8,231.21	8,204.14	27.06	304.149		
2,000.00	1,905.92	4,501.50	4,341.95	11.87	23.42	100.61	-7,513.58	2,122.80	8,205.70	8,177.38	28.32	289.761		
2,100.00	1,997.45	4,550.52	4,388.50	12.69	23.72	100.73	-7,498.26	2,123.49	8,180.66	8,151.34	29.32	278.986		
2,200.00	2,088.97	4,596.50	4,432.40	13.52	24.01	100.85	-7,484.57	2,124.10	8,156.72	8,126.40	30.32	269.038		
2,300.00	2,180.50	2,300.00	4,618.92	14.35	9.64	101.34	-7,425.06	2,126.92	8,132.78	8,111.66	21.12	385.106		
2,400.00	2,272.03	4,841.32	4,665.43	15.17	25.51	101.46	-7,409.64	2,127.17	8,107.87	8,074.97	32.89	246.478		
2,500.00	2,363.56	4,883.50	4,705.69	16.00	25.77	101.58	-7,397.07	2,127.23	8,084.13	8,050.25	33.88	238.612		
2,600.00	2,455.08	4,883.50	4,705.69	16.83	25.77	101.58	-7,397.07	2,127.23	8,061.15	8,026.44	34.71	232.247		
2,700.00	2,546.61	4,917.03	4,737.82	17.66	25.97	101.66	-7,387.46	2,127.34	8,039.11	8,003.45	35.66	225.419		
2,800.00	2,638.14	4,943.99	4,763.71	18.50	26.12	101.73	-7,379.94	2,127.62	8,017.97	7,981.37	36.59	219.105		
2,900.00	2,729.67	4,979.50	4,797.88	19.33	26.33	101.83	-7,370.32	2,128.24	7,997.72	7,960.16	37.56	212.944		
3,000.00	2,821.19	5,648.50	5,434.64	20.16	30.43	103.62	-7,167.17	2,130.14	7,973.31	7,932.53	40.78	195.538		
3,100.00	2,912.72	5,648.50	5,434.64	20.99	30.43	103.62	-7,167.17	2,130.14	7,947.57	7,905.95	41.62	190.938		
3,200.00	3,004.25	5,676.11	5,460.84	21.83	30.61	103.70	-7,158.50	2,129.13	7,922.94	7,880.37	42.56	186.141		
3,300.00	3,095.78	5,727.58	5,509.72	22.66	30.93	103.85	-7,142.51	2,127.30	7,898.97	7,855.39	43.58	181.233		
3,400.00	3,187.30	5,743.50	5,524.86	23.50	31.03	103.90	-7,137.61	2,126.74	7,875.76	7,831.27	44.49	177.029		
3,500.00	3,278.83	5,785.70	5,565.07	24.33	31.28	104.02	-7,124.83	2,126.07	7,853.33	7,807.84	45.48	172.665		
3,600.00	3,370.36	5,838.50	5,615.52	25.16	31.60	104.16	-7,109.34	2,127.51	7,832.04	7,785.52	46.52	168.375		
3,700.00	3,461.89	5,838.50	5,615.52	26.00	31.60	104.16	-7,109.34	2,127.51	7,811.34	7,763.97	47.37	164.908		
3,800.00	3,553.41	5,869.91	5,645.55	26.83	31.78	104.23	-7,100.37	2,129.56	7,791.68	7,743.35	48.33	161.213		
3,900.00	3,644.94	5,903.07	5,677.22	27.67	31.98	104.30	-7,091.06	2,132.68	7,772.87	7,723.57	49.30	157.658		
4,000.00	3,736.47	5,972.05	5,742.70	28.51	32.37	104.42	-7,071.97	2,142.87	7,754.88	7,704.47	50.41	153.824		
4,100.00	3,828.00	6,030.50	5,796.77	29.34	32.71	104.48	-7,055.25	2,157.36	7,736.81	7,685.31	51.50	150.235		
4,200.00	3,919.52	6,072.86	5,834.73	30.18	32.93	104.49	-7,043.29	2,171.80	7,719.45	7,666.91	52.54	146.938		
4,300.00	4,011.05	6,125.50	5,879.92	31.01	33.22	104.47	-7,029.52	2,194.95	7,703.43	7,649.80	53.63	143.650		
4,400.00	4,102.58	6,459.50	6,079.26	31.85	35.01	103.35	-6,944.67	2,439.81	7,683.85	7,626.85	57.01	134.789		
4,500.00	4,194.11	6,507.50	6,092.87	32.68	35.30	103.07	-6,935.95	2,484.98	7,666.69	7,608.30	58.38	131.316		
4,600.00	4,285.64	6,507.50	6,092.87	33.52	35.30	103.07	-6,935.95	2,484.98	7,649.53	7,590.31	59.22	129.173		
4,700.00	4,377.16	6,507.50	6,092.87	34.36	35.30	103.07	-6,935.95	2,484.98	7,633.65	7,573.60	60.05	127.121		
4,800.00	4,468.69	6,507.50	6,092.87	35.19	35.30	103.07	-6,935.95	2,484.98	7,619.05	7,558.17	60.88	125.158		
4,900.00	4,560.22	6,507.50	6,092.87	36.03	35.30	103.07	-6,935.95	2,484.98	7,605.73	7,544.04	61.70	123.279		
5,000.00	4,651.75	6,507.50	6,092.87	36.87	35.30	103.07	-6,935.95	2,484.98	7,593.71	7,531.20	62.51	121.483		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 863-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1724C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	4,743.27	6,562.50	6,106.40	37.70	35.61	102.74	-6,927.62	2,537.63	7,582.88	7,518.84	64.04	118.415			
5,200.00	4,834.80	6,603.50	6,116.42	38.54	35.87	102.50	-6,921.31	2,576.89	7,572.75	7,507.37	65.38	115.825			
5,300.00	4,926.33	6,603.50	6,116.42	39.38	35.87	102.50	-6,921.31	2,576.89	7,563.86	7,497.69	66.17	114.305			
5,400.00	5,017.86	6,603.50	6,116.42	40.21	35.87	102.50	-6,921.31	2,576.89	7,556.29	7,489.34	66.96	112.854			
5,500.00	5,109.38	6,641.08	6,124.61	41.05	36.10	102.27	-6,916.05	2,613.18	7,549.49	7,481.19	68.30	110.541			
5,600.00	5,200.91	6,650.49	6,126.35	41.89	36.17	102.21	-6,914.91	2,622.36	7,544.22	7,475.02	69.20	109.013			
5,700.00	5,292.44	6,691.50	6,132.53	42.73	36.45	101.94	-6,910.80	2,662.68	7,540.63	7,470.05	70.59	106.829			
5,800.00	5,383.97	6,691.50	6,132.53	43.56	36.45	101.94	-6,910.80	2,662.68	7,537.69	7,466.36	71.33	105.669			
5,900.00	5,475.51	6,691.50	6,132.53	44.40	36.45	98.30	-6,910.80	2,662.68	7,535.85	7,463.78	72.07	104.564			
6,000.00	5,567.37	6,691.50	6,132.53	45.19	36.45	75.21	-6,910.80	2,662.68	7,524.05	7,451.27	72.78	103.379			
6,100.00	5,657.57	6,691.50	6,132.53	45.89	36.45	56.00	-6,910.80	2,662.68	7,496.45	7,423.02	73.43	102.084			
6,200.00	5,743.38	6,691.50	6,132.53	46.48	36.45	42.94	-6,910.80	2,662.68	7,453.73	7,379.72	74.00	100.721			
6,300.00	5,822.18	6,691.50	6,132.53	46.95	36.45	34.49	-6,910.80	2,662.68	7,396.92	7,322.45	74.48	99.316			
6,400.00	5,891.60	6,691.50	6,132.53	47.31	36.45	28.88	-6,910.80	2,662.68	7,327.47	7,252.61	74.86	97.886			
6,500.00	5,949.50	6,691.50	6,132.53	47.58	36.45	24.95	-6,910.80	2,662.68	7,247.14	7,172.00	75.14	96.450			
6,600.00	5,994.15	6,691.50	6,132.53	47.76	36.45	21.78	-6,910.80	2,662.68	7,158.05	7,082.73	75.33	95.025			
6,700.00	6,024.17	6,711.18	6,134.57	47.86	36.58	17.23	-6,909.39	2,682.21	7,062.40	6,986.66	75.74	93.245			
6,800.00	6,038.67	6,711.61	6,134.61	47.91	36.59	-8.32	-6,909.36	2,682.63	6,963.35	6,887.58	75.77	91.899			
6,900.00	6,040.00	6,711.27	6,134.58	47.93	36.58	-118.57	-6,909.39	2,682.29	6,863.42	6,787.68	75.74	90.621			
7,000.00	6,040.00	6,710.85	6,134.55	47.98	36.58	-118.60	-6,909.41	2,681.88	6,763.50	6,687.80	75.70	89.350			
7,100.00	6,040.00	6,710.42	6,134.51	48.09	36.58	-118.64	-6,909.44	2,681.45	6,663.58	6,587.93	75.66	88.078			
7,200.00	6,040.00	6,709.97	6,134.47	48.23	36.57	-118.68	-6,909.46	2,681.00	6,563.67	6,488.05	75.61	86.806			
7,300.00	6,040.00	6,691.50	6,132.53	48.43	36.45	-120.27	-6,910.80	2,662.68	6,463.96	6,388.66	75.31	85.837			
7,400.00	6,040.00	6,691.50	6,132.53	48.67	36.45	-120.27	-6,910.80	2,662.68	6,364.04	6,288.77	75.27	84.548			
7,500.00	6,040.00	6,691.50	6,132.53	48.97	36.45	-120.27	-6,910.80	2,662.68	6,264.13	6,188.89	75.24	83.258			
7,600.00	6,040.00	6,691.50	6,132.53	49.32	36.45	-120.27	-6,910.80	2,662.68	6,164.21	6,089.01	75.20	81.969			
7,700.00	6,040.00	6,691.50	6,132.53	49.73	36.45	-120.27	-6,910.80	2,662.68	6,064.30	5,989.13	75.17	80.679			
7,800.00	6,040.00	6,691.50	6,132.53	50.19	36.45	-120.27	-6,910.80	2,662.68	5,964.39	5,889.26	75.13	79.388			
7,900.00	6,040.00	6,691.50	6,132.53	50.71	36.45	-120.27	-6,910.80	2,662.68	5,864.48	5,789.39	75.09	78.097			
8,000.00	6,040.00	6,691.50	6,132.53	51.29	36.45	-120.27	-6,910.80	2,662.68	5,764.58	5,689.53	75.05	76.806			
8,100.00	6,040.00	6,691.50	6,132.53	51.93	36.45	-120.27	-6,910.80	2,662.68	5,664.68	5,589.67	75.01	75.515			
8,200.00	6,040.00	6,691.50	6,132.53	52.63	36.45	-120.27	-6,910.80	2,662.68	5,564.79	5,489.81	74.97	74.224			
8,300.00	6,040.00	6,691.50	6,132.53	53.39	36.45	-120.27	-6,910.80	2,662.68	5,464.89	5,389.96	74.93	72.932			
8,400.00	6,040.00	6,691.50	6,132.53	54.20	36.45	-120.27	-6,910.80	2,662.68	5,365.01	5,290.12	74.89	71.640			
8,500.00	6,040.00	6,691.50	6,132.53	55.07	36.45	-120.27	-6,910.80	2,662.68	5,265.12	5,190.28	74.84	70.348			
8,600.00	6,040.00	6,691.50	6,132.53	55.99	36.45	-120.27	-6,910.80	2,662.68	5,165.24	5,090.45	74.80	69.056			
8,700.00	6,040.00	6,691.50	6,132.53	56.97	36.45	-120.27	-6,910.80	2,662.68	5,065.37	4,990.62	74.75	67.764			
8,800.00	6,040.00	6,691.50	6,132.53	57.99	36.45	-120.27	-6,910.80	2,662.68	4,965.50	4,890.80	74.70	66.471			
8,900.00	6,040.00	6,691.50	6,132.53	59.06	36.45	-120.27	-6,910.80	2,662.68	4,865.63	4,790.98	74.65	65.179			
9,000.00	6,040.00	6,691.50	6,132.53	60.17	36.45	-120.27	-6,910.80	2,662.68	4,765.78	4,691.18	74.60	63.887			
9,100.00	6,040.00	6,691.50	6,132.53	61.32	36.45	-120.27	-6,910.80	2,662.68	4,665.92	4,591.38	74.54	62.594			
9,200.00	6,040.00	6,691.50	6,132.53	62.51	36.45	-120.27	-6,910.80	2,662.68	4,566.08	4,491.59	74.49	61.302			
9,300.00	6,040.00	6,691.50	6,132.53	63.73	36.45	-120.27	-6,910.80	2,662.68	4,466.24	4,391.81	74.43	60.009			
9,400.00	6,040.00	6,691.50	6,132.53	64.98	36.45	-120.27	-6,910.80	2,662.68	4,366.41	4,292.04	74.36	58.717			
9,500.00	6,040.00	6,691.50	6,132.53	66.27	36.45	-120.27	-6,910.80	2,662.68	4,266.58	4,192.28	74.30	57.424			
9,600.00	6,040.00	6,691.50	6,132.53	67.58	36.45	-120.27	-6,910.80	2,662.68	4,166.77	4,092.54	74.23	56.132			
9,700.00	6,040.00	6,691.50	6,132.53	68.92	36.45	-120.27	-6,910.80	2,662.68	4,066.96	3,992.80	74.16	54.840			
9,800.00	6,040.00	6,691.50	6,132.53	70.29	36.45	-120.27	-6,910.80	2,662.68	3,967.17	3,893.08	74.09	53.548			
9,900.00	6,040.00	6,691.50	6,132.53	71.67	36.45	-120.27	-6,910.80	2,662.68	3,867.38	3,793.37	74.01	52.256			
10,000.00	6,040.00	6,691.50	6,132.53	73.08	36.45	-120.27	-6,910.80	2,662.68	3,767.61	3,693.68	73.93	50.964			
10,100.00	6,040.00	6,691.50	6,132.53	74.51	36.45	-120.27	-6,910.80	2,662.68	3,667.84	3,594.00	73.84	49.672			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 863-MWD OWSG												Offset Well Error:		0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-1724C - OWB - FINAL SURVEY															
Reference				Offset				Semi Major Axis		Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,200.00	6,040.00	6,691.50	6,132.53	75.95	36.45	-120.27	-6,910.80	2,662.68	3,568.09	3,494.34	73.75	48.381			
10,300.00	6,040.00	6,691.50	6,132.53	77.41	36.45	-120.27	-6,910.80	2,662.68	3,468.36	3,394.71	73.65	47.089			
10,400.00	6,040.00	6,691.50	6,132.53	78.89	36.45	-120.27	-6,910.80	2,662.68	3,368.64	3,295.09	73.55	45.798			
10,500.00	6,040.00	6,691.50	6,132.53	80.38	36.45	-120.27	-6,910.80	2,662.68	3,268.94	3,195.49	73.45	44.508			
10,600.00	6,040.00	6,691.50	6,132.53	81.88	36.45	-120.27	-6,910.80	2,662.68	3,169.26	3,095.92	73.33	43.217			
10,700.00	6,040.00	6,691.50	6,132.53	83.40	36.45	-120.27	-6,910.80	2,662.68	3,069.60	2,996.38	73.21	41.927			
10,800.00	6,040.00	6,691.50	6,132.53	84.93	36.45	-120.27	-6,910.80	2,662.68	2,969.96	2,896.87	73.09	40.637			
10,900.00	6,040.00	6,691.50	6,132.53	86.47	36.45	-120.27	-6,910.80	2,662.68	2,870.34	2,797.39	72.95	39.347			
11,000.00	6,040.00	6,691.50	6,132.53	88.02	36.45	-120.27	-6,910.80	2,662.68	2,770.76	2,697.95	72.80	38.057			
11,100.00	6,040.00	6,691.50	6,132.53	89.58	36.45	-120.27	-6,910.80	2,662.68	2,671.20	2,598.55	72.65	36.768			
11,200.00	6,040.00	6,664.15	6,128.67	91.15	36.26	-122.81	-6,913.39	2,635.73	2,571.24	2,498.74	72.50	35.466			
11,300.00	6,040.00	6,661.33	6,128.21	92.73	36.24	-123.09	-6,913.69	2,632.97	2,471.66	2,399.31	72.35	34.164			
11,400.00	6,040.00	6,658.35	6,127.72	94.31	36.22	-123.40	-6,914.01	2,630.05	2,372.10	2,299.91	72.19	32.860			
11,500.00	6,040.00	6,655.20	6,127.18	95.91	36.20	-123.72	-6,914.37	2,626.95	2,272.57	2,200.55	72.02	31.554			
11,600.00	6,040.00	6,651.84	6,126.59	97.51	36.18	-124.07	-6,914.75	2,623.68	2,173.06	2,101.22	71.85	30.246			
11,700.00	6,040.00	6,648.27	6,125.95	99.11	36.15	-124.44	-6,915.17	2,620.19	2,073.59	2,001.93	71.67	28.934			
11,800.00	6,040.00	6,644.47	6,125.25	100.73	36.13	-124.85	-6,915.63	2,616.48	1,974.16	1,902.68	71.48	27.620			
11,900.00	6,040.00	6,640.41	6,124.48	102.35	36.10	-125.30	-6,916.13	2,612.53	1,874.77	1,803.49	71.28	26.302			
12,000.00	6,040.00	6,636.06	6,123.63	103.97	36.07	-125.79	-6,916.68	2,608.30	1,775.41	1,704.34	71.07	24.981			
12,100.00	6,040.00	6,631.40	6,122.68	105.60	36.04	-126.33	-6,917.29	2,603.77	1,676.11	1,605.26	70.85	23.656			
12,200.00	6,040.00	6,626.39	6,121.64	107.24	36.01	-126.92	-6,917.97	2,598.92	1,576.87	1,506.24	70.63	22.326			
12,300.00	6,040.00	6,603.50	6,116.42	108.88	35.87	-129.88	-6,921.31	2,576.89	1,477.90	1,407.25	70.65	20.920			
12,400.00	6,040.00	6,603.50	6,116.42	110.53	35.87	-129.88	-6,921.31	2,576.89	1,378.66	1,308.32	70.34	19.599			
12,500.00	6,040.00	6,614.58	6,119.11	112.18	35.94	-128.42	-6,919.58	2,587.49	1,279.50	1,209.71	69.79	18.333			
12,600.00	6,040.00	6,600.33	6,115.65	113.83	35.85	-130.33	-6,921.80	2,573.86	1,180.58	1,110.88	69.69	16.940			
12,700.00	6,040.00	6,586.25	6,112.21	115.49	35.76	-132.51	-6,923.97	2,560.38	1,081.68	1,012.06	69.62	15.537			
12,800.00	6,040.00	6,572.34	6,108.81	117.16	35.67	-135.03	-6,926.11	2,547.05	982.81	913.23	69.58	14.124			
12,900.00	6,040.00	6,558.57	6,105.44	118.82	35.59	-137.93	-6,928.22	2,533.88	883.99	814.40	69.59	12.702			
13,000.00	6,040.00	6,544.97	6,102.10	120.49	35.51	-141.32	-6,930.30	2,520.85	785.25	715.58	69.67	11.272			
13,100.00	6,040.00	6,531.51	6,098.79	122.16	35.43	-145.28	-6,932.34	2,507.97	686.62	616.78	69.83	9.832			
13,200.00	6,040.00	6,518.20	6,095.51	123.84	35.36	-149.94	-6,934.34	2,495.23	588.15	518.01	70.14	8.385			
13,300.00	6,040.00	6,507.50	6,092.87	125.52	35.30	-154.32	-6,935.95	2,484.98	489.97	419.51	70.47	6.953			
13,400.00	6,040.00	6,496.70	6,090.11	127.20	35.23	-159.35	-6,937.65	2,474.67	392.36	321.26	71.11	5.518			
13,500.00	6,040.00	6,485.49	6,087.06	128.89	35.16	-165.25	-6,939.58	2,464.06	295.87	223.47	72.39	4.087			
13,600.00	6,040.00	6,471.64	6,083.03	130.58	35.08	-173.56	-6,942.18	2,451.08	201.82	126.00	75.83	2.662			
13,700.00	6,040.00	6,454.14	6,077.52	132.27	34.98	-174.37	-6,945.83	2,434.87	115.67	29.48	86.19	1.342	Level 3		
13,792.93	6,040.00	6,433.21	6,070.35	133.84	34.86	-158.44	-6,950.72	2,415.83	71.99	-28.03	100.02	0.720	Level 1, CC, ES, SF		
13,800.00	6,040.00	6,431.83	6,069.76	133.96	34.87	-157.32	-6,950.84	2,414.55	72.26	-26.77	99.03	0.730	Level 1		
13,900.00	6,040.00	6,402.13	6,058.51	135.66	34.69	-135.49	-6,958.93	2,388.29	126.00	45.85	80.14	1.572			
14,000.00	6,040.00	6,371.87	6,045.35	137.35	34.50	-117.58	-6,967.22	2,362.34	212.16	141.70	70.46	3.011			
14,100.00	6,040.00	6,341.26	6,030.36	139.05	34.33	-104.29	-6,975.63	2,337.02	304.31	237.27	67.03	4.540			
14,200.00	6,040.00	6,311.26	6,014.07	140.75	34.16	-94.70	-6,983.86	2,313.21	398.28	332.90	65.38	6.092			
14,300.00	6,040.00	6,285.42	5,998.71	142.46	34.02	-88.20	-6,990.75	2,293.63	493.20	429.01	64.19	7.683			
14,400.00	6,040.00	6,261.62	5,983.42	144.17	33.90	-83.17	-6,996.84	2,276.43	588.78	525.37	63.41	9.285			
14,500.00	6,040.00	6,239.76	5,968.48	145.87	33.79	-79.14	-7,002.20	2,261.40	684.84	621.96	62.88	10.891			
14,600.00	6,040.00	6,218.97	5,953.51	147.58	33.68	-75.70	-7,007.07	2,247.83	781.28	718.74	62.54	12.493			
14,700.00	6,040.00	6,179.57	5,923.61	149.29	33.48	-70.05	-7,016.32	2,223.91	877.78	815.13	62.65	14.012			
14,800.00	6,040.00	6,136.51	5,889.05	151.01	33.27	-64.85	-7,026.79	2,200.47	974.03	911.23	62.80	15.510			
14,900.00	6,040.00	6,015.79	5,783.33	152.72	32.62	-52.96	-7,059.51	2,153.19	1,068.91	1,004.45	64.47	16.581			
15,000.00	6,040.00	5,979.00	5,749.21	154.44	32.41	-49.80	-7,070.01	2,144.30	1,162.95	1,098.65	64.30	18.087			
15,100.00	6,040.00	5,947.77	5,719.81	156.16	32.23	-47.25	-7,078.77	2,138.44	1,257.09	1,192.98	64.11	19.607			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 863-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,200.00	6,040.00	5,895.99	5,670.47	157.88	31.93	43.29	-7,093.03	2,131.94	1,351.31	1,286.95	64.35	20.998			
15,300.00	6,040.00	5,841.22	5,618.12	159.60	31.62	39.56	-7,108.56	2,127.65	1,445.27	1,380.58	64.68	22.343			
15,400.00	6,040.00	5,762.78	5,543.22	161.32	31.14	34.84	-7,131.73	2,126.23	1,538.76	1,473.33	65.43	23.519			
15,500.00	6,040.00	5,715.57	5,498.31	163.04	30.85	32.28	-7,146.22	2,127.72	1,631.77	1,566.03	65.74	24.820			
15,600.00	6,040.00	5,678.70	5,463.29	164.77	30.62	30.49	-7,157.69	2,129.04	1,724.88	1,658.93	65.95	26.155			
15,700.00	6,040.00	5,620.21	5,407.87	166.49	30.25	27.98	-7,176.25	2,131.17	1,818.05	1,751.56	66.49	27.343			
15,800.00	6,040.00	5,537.43	5,330.18	168.22	29.71	25.01	-7,204.67	2,134.15	1,910.24	1,842.87	67.37	28.353			
15,900.00	6,040.00	5,512.08	5,306.45	169.95	29.54	24.22	-7,213.56	2,134.96	2,002.53	1,935.08	67.44	29.692			
16,000.00	6,040.00	5,487.32	5,283.23	171.68	29.37	23.49	-7,222.13	2,135.66	2,095.10	2,027.58	67.52	31.027			
16,100.00	6,040.00	5,457.50	5,255.22	173.41	29.17	22.67	-7,232.33	2,136.38	2,187.95	2,120.27	67.68	32.327			
16,200.00	6,040.00	5,457.50	5,255.22	175.14	29.17	22.67	-7,232.33	2,136.38	2,281.13	2,213.64	67.49	33.800			
16,300.00	6,040.00	5,426.38	5,225.90	176.88	28.97	21.87	-7,242.73	2,137.00	2,374.47	2,306.79	67.68	35.083			
16,400.00	6,040.00	5,409.63	5,210.07	178.61	28.86	21.47	-7,248.19	2,137.29	2,468.18	2,400.47	67.72	36.449			
16,500.00	6,040.00	5,393.48	5,194.77	180.34	28.76	21.09	-7,253.35	2,137.53	2,562.16	2,494.41	67.75	37.816			
16,600.00	6,040.00	5,361.50	5,164.38	182.08	28.56	20.38	-7,263.31	2,137.92	2,656.49	2,588.53	67.96	39.090			
16,700.00	6,040.00	5,361.50	5,164.38	183.82	28.56	20.38	-7,263.31	2,137.92	2,750.85	2,683.01	67.85	40.546			
16,800.00	6,040.00	5,342.80	5,146.57	185.56	28.44	19.99	-7,269.00	2,138.03	2,845.50	2,777.58	67.92	41.893			
16,865.66	6,040.00	5,329.44	5,133.83	186.70	28.36	19.73	-7,273.05	2,138.01	2,907.73	2,839.75	67.98	42.771			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3225C - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 150-MWD OWSG														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	166.37	-8,649.29	2,097.38	8,900.03					
100.00	100.00	76.54	76.54	0.13	0.12	166.37	-8,649.22	2,097.42	8,899.91	8,899.66	0.25	N/A		
200.00	199.98	189.54	189.54	0.49	0.37	92.01	-8,648.88	2,097.66	8,899.73	8,898.87	0.86	N/A		
300.00	299.84	3,640.50	3,538.60	0.86	16.64	92.32	-7,980.77	2,130.22	8,885.94	8,871.41	14.53	611.524		
400.00	399.45	3,683.88	3,578.80	1.23	16.93	93.10	-7,964.47	2,129.89	8,849.56	8,834.57	14.99	590.289		
500.00	498.70	3,736.50	3,627.74	1.63	17.29	93.88	-7,945.13	2,129.23	8,813.96	8,798.41	15.54	567.060		
600.00	597.47	3,736.50	3,627.74	2.05	17.29	94.62	-7,945.13	2,129.23	8,779.19	8,763.27	15.92	551.520		
700.00	695.62	3,795.77	3,683.08	2.51	17.67	95.39	-7,923.96	2,128.24	8,745.17	8,728.59	16.58	527.419		
800.00	793.06	3,832.50	3,717.51	3.00	17.91	96.12	-7,911.17	2,127.54	8,712.18	8,694.99	17.20	506.656		
900.00	889.64	3,832.50	3,717.51	3.54	17.91	96.79	-7,911.17	2,127.54	8,680.37	8,662.66	17.71	490.195		
1,000.00	985.27	3,882.80	3,764.82	4.13	18.23	97.51	-7,894.10	2,126.95	8,649.46	8,630.98	18.47	468.178		
1,100.00	1,079.82	3,928.50	3,807.98	4.77	18.52	98.21	-7,879.08	2,127.13	8,619.97	8,600.70	19.28	447.188		
1,200.00	1,173.17	4,214.50	4,076.53	5.46	20.37	99.38	-7,781.04	2,133.84	8,590.82	8,569.69	21.12	406.742		
1,300.00	1,265.23	4,214.50	4,076.53	6.21	20.37	99.93	-7,781.04	2,133.84	8,560.98	8,539.13	21.85	391.796		
1,400.00	1,356.75	4,255.96	4,115.43	7.00	20.64	100.02	-7,766.71	2,134.46	8,532.03	8,509.25	22.78	374.481		
1,500.00	1,448.28	4,310.50	4,166.93	7.80	20.99	100.15	-7,748.79	2,135.01	8,504.23	8,480.45	23.78	357.601		
1,600.00	1,539.81	4,310.50	4,166.93	8.60	20.99	100.15	-7,748.79	2,135.01	8,476.82	8,452.25	24.57	344.950		
1,700.00	1,631.34	4,541.23	4,384.34	9.41	22.46	100.70	-7,671.60	2,137.65	8,448.60	8,422.32	26.27	321.548		
1,800.00	1,722.86	4,596.50	4,436.46	10.23	22.82	100.84	-7,653.22	2,138.31	8,420.92	8,393.62	27.30	308.506		
1,900.00	1,814.39	4,596.50	4,436.46	11.05	22.82	100.84	-7,653.22	2,138.31	8,393.74	8,365.63	28.11	298.612		
2,000.00	1,905.92	4,627.60	4,465.90	11.87	23.01	100.91	-7,643.21	2,138.67	8,367.50	8,338.45	29.05	288.086		
2,100.00	1,997.45	4,659.41	4,496.09	12.69	23.21	100.99	-7,633.20	2,138.98	8,342.03	8,312.04	29.99	278.181		
2,200.00	2,088.97	2,200.00	4,608.28	13.52	8.04	101.29	-7,596.41	2,139.38	8,316.89	8,296.57	20.32	409.221		
2,300.00	2,180.50	4,826.14	4,654.48	14.35	24.24	101.42	-7,581.11	2,139.21	8,291.73	8,259.47	32.26	257.028		
2,400.00	2,272.03	4,847.08	4,674.43	15.17	24.36	101.47	-7,574.78	2,139.07	8,267.55	8,234.38	33.17	249.255		
2,500.00	2,363.56	4,883.50	4,709.27	16.00	24.58	101.57	-7,564.17	2,138.73	8,244.34	8,210.20	34.14	241.513		
2,600.00	2,455.08	4,883.50	4,709.27	16.83	24.58	101.57	-7,564.17	2,138.73	8,221.93	8,186.96	34.97	235.085		
2,700.00	2,546.61	4,883.50	4,709.27	17.66	24.58	101.57	-7,564.17	2,138.73	8,200.68	8,164.87	35.81	228.983		
2,800.00	2,638.14	4,883.50	4,709.27	18.50	24.58	101.57	-7,564.17	2,138.73	8,180.60	8,143.95	36.65	223.187		
2,900.00	2,729.67	4,936.03	4,759.86	19.33	24.87	101.71	-7,550.02	2,138.23	8,160.75	8,123.07	37.68	216.593		
3,000.00	2,821.19	4,978.50	4,801.05	20.16	25.11	101.82	-7,539.68	2,137.87	8,142.59	8,103.92	38.67	210.578		
3,100.00	2,912.72	4,978.50	4,801.05	20.99	25.11	101.82	-7,539.68	2,137.87	8,124.99	8,085.48	39.51	205.646		
3,200.00	3,004.25	4,978.50	4,801.05	21.83	25.11	101.82	-7,539.68	2,137.87	8,108.59	8,068.24	40.35	200.953		
3,300.00	3,095.78	4,978.50	4,801.05	22.66	25.11	101.82	-7,539.68	2,137.87	8,093.40	8,052.21	41.19	196.487		
3,400.00	3,187.30	5,020.14	4,841.66	23.50	25.31	101.94	-7,530.48	2,137.55	8,078.85	8,036.68	42.17	191.572		
3,500.00	3,278.83	5,074.50	4,894.96	24.33	25.58	102.09	-7,519.82	2,137.14	8,065.95	8,022.75	43.20	186.730		
3,600.00	3,370.36	5,074.50	4,894.96	25.16	25.58	102.09	-7,519.82	2,137.14	8,053.31	8,009.27	44.03	182.895		
3,700.00	3,461.89	5,074.50	4,894.96	26.00	25.58	102.09	-7,519.82	2,137.14	8,041.89	7,997.02	44.87	179.241		
3,800.00	3,553.41	5,141.57	4,960.91	26.83	25.89	102.27	-7,507.65	2,136.86	8,031.35	7,985.42	45.93	174.865		
3,900.00	3,644.94	5,169.50	4,988.38	27.67	26.02	102.35	-7,502.60	2,136.89	8,021.37	7,974.51	46.86	171.193		
4,000.00	3,736.47	5,215.36	5,033.54	28.51	26.22	102.47	-7,494.62	2,136.94	8,012.13	7,964.29	47.84	167.472		
4,100.00	3,828.00	5,265.50	5,083.03	29.34	26.44	102.61	-7,486.59	2,136.83	8,003.97	7,955.13	48.84	163.878		
4,200.00	3,919.52	5,265.50	5,083.03	30.18	26.44	102.61	-7,486.59	2,136.83	7,996.54	7,946.88	49.66	161.012		
4,300.00	4,011.05	5,265.50	5,083.03	31.01	26.44	102.61	-7,486.59	2,136.83	7,990.36	7,939.87	50.48	158.280		
4,400.00	4,102.58	5,317.78	5,134.77	31.85	26.65	102.76	-7,479.09	2,136.67	7,984.75	7,933.27	51.48	155.110		
4,500.00	4,194.11	5,361.50	5,178.14	32.68	26.83	102.88	-7,473.57	2,136.58	7,980.42	7,927.98	52.44	152.176		
4,600.00	4,285.64	5,361.50	5,178.14	33.52	26.83	102.88	-7,473.57	2,136.58	7,976.87	7,923.63	53.25	149.803		
4,700.00	4,377.16	5,393.25	5,209.68	34.36	26.94	102.97	-7,469.95	2,136.55	7,974.37	7,920.21	54.16	147.234		
4,800.00	4,468.69	5,420.96	5,237.24	35.19	27.05	103.05	-7,467.04	2,136.53	7,972.81	7,917.75	55.06	144.812		
4,900.00	4,560.22	5,457.50	5,273.61	36.03	27.18	103.15	-7,463.53	2,136.54	7,972.19	7,916.21	55.98	142.415		
4,921.32	4,579.73	5,457.50	5,273.61	36.21	27.18	103.15	-7,463.53	2,136.54	7,972.16	7,916.01	56.15	141.988		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 150-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3225C - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis		Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,651.75	5,488.54	5,304.53	36.87	27.29	103.23	-7,460.78	2,136.56	7,972.43	7,915.55	56.88	140.172		
5,100.00	4,743.27	5,552.50	5,368.27	37.70	27.51	103.41	-7,455.50	2,136.60	7,973.46	7,915.57	57.89	137.738		
5,200.00	4,834.80	5,552.50	5,368.27	38.54	27.51	103.41	-7,455.50	2,136.60	7,975.23	7,916.57	58.67	135.943		
5,300.00	4,926.33	5,590.80	5,406.47	39.38	27.63	103.52	-7,452.76	2,136.53	7,977.90	7,918.33	59.58	133.913		
5,400.00	5,017.86	5,614.70	5,430.33	40.21	27.70	103.59	-7,451.32	2,136.40	7,981.60	7,921.17	60.43	132.086		
5,500.00	5,109.38	5,648.50	5,464.09	41.05	27.81	103.69	-7,449.63	2,136.07	7,986.30	7,924.98	61.31	130.259		
5,600.00	5,200.91	5,648.50	5,464.09	41.89	27.81	103.69	-7,449.63	2,136.07	7,991.97	7,929.90	62.06	128.775		
5,700.00	5,292.44	5,684.02	5,499.58	42.73	27.90	103.79	-7,448.32	2,135.67	7,998.56	7,935.63	62.94	127.092		
5,800.00	5,383.97	5,706.47	5,522.02	43.56	27.96	103.85	-7,447.74	2,135.43	8,006.19	7,942.43	63.76	125.577		
5,900.00	5,475.51	5,743.50	5,559.04	44.40	28.06	100.32	-7,447.20	2,135.05	8,014.62	7,950.00	64.62	124.018		
6,000.00	5,567.37	5,743.50	5,559.04	45.19	28.06	77.26	-7,447.20	2,135.05	8,012.64	7,947.30	65.34	122.624		
6,100.00	5,657.57	5,970.52	5,781.17	45.89	28.63	58.51	-7,444.91	2,175.91	7,993.93	7,926.97	66.96	119.389		
6,200.00	5,743.38	5,992.41	5,801.56	46.48	28.69	45.65	-7,444.53	2,183.85	7,957.49	7,889.81	67.68	117.577		
6,300.00	5,822.18	6,030.50	5,836.27	46.95	28.79	37.52	-7,444.32	2,199.52	7,906.28	7,837.89	68.39	115.600		
6,400.00	5,891.60	6,030.50	5,836.27	47.31	28.79	32.45	-7,444.32	2,199.52	7,841.40	7,772.56	68.85	113.897		
6,500.00	5,949.50	6,030.50	5,836.27	47.58	28.79	29.40	-7,444.32	2,199.52	7,764.90	7,695.69	69.21	112.197		
6,600.00	5,994.15	6,074.21	5,874.62	47.76	28.89	27.91	-7,444.62	2,220.47	7,678.46	7,608.77	69.69	110.180		
6,700.00	6,024.17	6,087.44	5,885.85	47.86	28.92	28.33	-7,444.78	2,227.45	7,584.84	7,514.91	69.93	108.456		
6,800.00	6,038.67	6,094.46	5,891.73	47.91	28.93	35.76	-7,444.89	2,231.27	7,486.66	7,416.59	70.07	106.848		
6,900.00	6,040.00	6,096.13	5,893.13	47.93	28.94	63.56	-7,444.92	2,232.20	7,386.78	7,316.67	70.12	105.350		
7,000.00	6,040.00	6,097.27	5,894.08	47.98	28.94	63.69	-7,444.93	2,232.83	7,286.84	7,216.68	70.16	103.866		
7,100.00	6,040.00	6,098.43	5,895.04	48.09	28.94	63.83	-7,444.95	2,233.47	7,186.90	7,116.70	70.20	102.381		
7,200.00	6,040.00	6,099.62	5,896.03	48.23	28.94	63.97	-7,444.97	2,234.14	7,086.96	7,016.72	70.24	100.895		
7,300.00	6,040.00	6,100.83	5,897.03	48.43	28.95	64.11	-7,444.99	2,234.81	6,987.02	6,916.73	70.28	99.410		
7,400.00	6,040.00	6,125.50	5,917.11	48.67	29.00	67.16	-7,445.47	2,249.13	6,887.18	6,816.75	70.43	97.788		
7,500.00	6,040.00	6,125.50	5,917.11	48.97	29.00	67.16	-7,445.47	2,249.13	6,787.23	6,716.76	70.47	96.314		
7,600.00	6,040.00	6,125.50	5,917.11	49.32	29.00	67.16	-7,445.47	2,249.13	6,687.28	6,616.77	70.51	94.841		
7,700.00	6,040.00	6,125.50	5,917.11	49.73	29.00	67.16	-7,445.47	2,249.13	6,587.34	6,516.79	70.55	93.367		
7,800.00	6,040.00	6,125.50	5,917.11	50.19	29.00	67.16	-7,445.47	2,249.13	6,487.40	6,416.80	70.60	91.892		
7,900.00	6,040.00	6,125.50	5,917.11	50.71	29.00	67.16	-7,445.47	2,249.13	6,387.46	6,316.81	70.64	90.417		
8,000.00	6,040.00	6,125.50	5,917.11	51.29	29.00	67.16	-7,445.47	2,249.13	6,287.52	6,216.83	70.69	88.942		
8,100.00	6,040.00	6,125.50	5,917.11	51.93	29.00	67.16	-7,445.47	2,249.13	6,187.58	6,116.84	70.74	87.467		
8,200.00	6,040.00	6,125.50	5,917.11	52.63	29.00	67.16	-7,445.47	2,249.13	6,087.65	6,016.85	70.79	85.991		
8,300.00	6,040.00	6,125.50	5,917.11	53.39	29.00	67.16	-7,445.47	2,249.13	5,987.71	5,916.87	70.85	84.516		
8,400.00	6,040.00	6,125.50	5,917.11	54.20	29.00	67.16	-7,445.47	2,249.13	5,887.78	5,816.88	70.90	83.040		
8,500.00	6,040.00	6,125.50	5,917.11	55.07	29.00	67.16	-7,445.47	2,249.13	5,787.86	5,716.90	70.96	81.564		
8,600.00	6,040.00	6,125.50	5,917.11	55.99	29.00	67.16	-7,445.47	2,249.13	5,687.93	5,616.91	71.02	80.088		
8,700.00	6,040.00	6,125.50	5,917.11	56.97	29.00	67.16	-7,445.47	2,249.13	5,588.01	5,516.93	71.08	78.612		
8,800.00	6,040.00	6,125.50	5,917.11	57.99	29.00	67.16	-7,445.47	2,249.13	5,488.09	5,416.94	71.15	77.135		
8,900.00	6,040.00	6,125.50	5,917.11	59.06	29.00	67.16	-7,445.47	2,249.13	5,388.17	5,316.96	71.22	75.659		
9,000.00	6,040.00	6,126.60	5,917.99	60.17	29.01	67.30	-7,445.50	2,249.79	5,288.26	5,216.97	71.29	74.180		
9,100.00	6,040.00	6,133.37	5,923.38	61.32	29.02	68.20	-7,445.64	2,253.89	5,188.35	5,116.97	71.38	72.684		
9,200.00	6,040.00	6,140.00	5,928.61	62.51	29.03	69.12	-7,445.78	2,257.96	5,088.43	5,016.96	71.47	71.192		
9,300.00	6,040.00	6,146.49	5,933.69	63.73	29.05	70.04	-7,445.91	2,262.00	4,988.52	4,916.95	71.57	69.705		
9,400.00	6,040.00	6,152.84	5,938.62	64.98	29.06	70.99	-7,446.04	2,266.00	4,888.60	4,816.94	71.66	68.221		
9,500.00	6,040.00	6,159.06	5,943.41	66.27	29.07	71.95	-7,446.16	2,269.96	4,788.68	4,716.93	71.75	66.741		
9,600.00	6,040.00	6,165.14	5,948.07	67.58	29.09	72.92	-7,446.27	2,273.88	4,688.76	4,616.92	71.84	65.264		
9,700.00	6,040.00	6,171.10	5,952.59	68.92	29.10	73.92	-7,446.38	2,277.76	4,588.85	4,516.91	71.93	63.792		
9,800.00	6,040.00	6,176.94	5,956.98	70.29	29.11	74.93	-7,446.49	2,281.60	4,488.92	4,416.90	72.03	62.322		
9,900.00	6,040.00	6,182.65	5,961.24	71.67	29.12	75.96	-7,446.58	2,285.40	4,389.00	4,316.88	72.12	60.857		
10,000.00	6,040.00	6,188.24	5,965.38	73.08	29.14	77.02	-7,446.68	2,289.15	4,289.08	4,216.87	72.21	59.395		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 150-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3225C - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	6,040.00	6,193.71	5,969.41	74.51	29.15	78.09	-7,446.77	2,292.86	4,189.16	4,116.85	72.31	57.936		
10,200.00	6,040.00	6,199.08	5,973.32	75.95	29.16	79.19	-7,446.85	2,296.53	4,089.24	4,016.83	72.40	56.480		
10,300.00	6,040.00	6,204.33	5,977.12	77.41	29.17	80.31	-7,446.93	2,300.16	3,989.31	3,916.82	72.50	55.028		
10,400.00	6,040.00	6,209.47	5,980.82	78.89	29.19	81.45	-7,447.01	2,303.73	3,889.39	3,816.80	72.59	53.579		
10,500.00	6,040.00	6,214.51	5,984.41	80.38	29.20	82.63	-7,447.08	2,307.27	3,789.47	3,716.78	72.69	52.133		
10,600.00	6,040.00	6,219.45	5,987.90	81.88	29.21	83.82	-7,447.15	2,310.76	3,689.54	3,616.76	72.79	50.690		
10,700.00	6,040.00	6,224.28	5,991.29	83.40	29.22	85.05	-7,447.21	2,314.20	3,589.62	3,516.73	72.89	49.250		
10,800.00	6,040.00	6,229.02	5,994.59	84.93	29.23	86.31	-7,447.28	2,317.60	3,489.70	3,416.71	72.99	47.813		
10,900.00	6,040.00	6,233.66	5,997.80	86.47	29.24	87.59	-7,447.33	2,320.95	3,389.77	3,316.68	73.09	46.379		
11,000.00	6,040.00	6,238.21	6,000.92	88.02	29.25	88.91	-7,447.39	2,324.26	3,289.85	3,216.66	73.19	44.947		
11,100.00	6,040.00	11,100.00	5,987.31	89.58	74.57	83.61	-7,447.13	2,310.34	3,189.98	3,095.32	94.65	33.701		
11,200.00	6,040.00	11,200.00	5,989.83	91.15	75.69	84.52	-7,447.19	2,312.54	3,090.08	2,994.95	95.13	32.481		
11,300.00	6,040.00	6,233.69	5,997.83	92.73	29.24	87.60	-7,447.36	2,320.96	2,990.15	2,916.50	73.65	40.599		
11,400.00	6,040.00	6,235.86	5,999.33	94.31	29.24	88.23	-7,447.40	2,322.53	2,890.25	2,816.45	73.80	39.165		
11,500.00	6,040.00	6,238.10	6,000.86	95.91	29.25	88.88	-7,447.43	2,324.16	2,790.36	2,716.41	73.95	37.734		
11,600.00	6,040.00	6,240.40	6,002.44	97.51	29.25	89.57	-7,447.47	2,325.84	2,690.47	2,616.36	74.11	36.304		
11,700.00	6,040.00	6,242.78	6,004.06	99.11	29.26	90.30	-7,447.52	2,327.57	2,590.58	2,516.31	74.28	34.878		
11,800.00	6,040.00	6,245.23	6,005.73	100.73	29.26	91.07	-7,447.56	2,329.37	2,490.71	2,416.25	74.45	33.453		
11,900.00	6,040.00	6,247.76	6,007.44	102.35	29.27	91.88	-7,447.61	2,331.23	2,390.83	2,316.19	74.64	32.032		
12,000.00	6,040.00	6,250.37	6,009.20	103.97	29.27	92.75	-7,447.66	2,333.16	2,290.97	2,216.13	74.84	30.613		
12,100.00	6,040.00	6,253.07	6,011.02	105.60	29.28	93.67	-7,447.71	2,335.15	2,191.11	2,116.07	75.05	29.197		
12,200.00	6,040.00	6,255.85	6,012.88	107.24	29.28	94.64	-7,447.77	2,337.22	2,091.27	2,016.00	75.27	27.784		
12,300.00	6,040.00	6,258.74	6,014.80	108.88	29.29	95.68	-7,447.83	2,339.37	1,991.43	1,915.92	75.51	26.375		
12,400.00	6,040.00	6,261.72	6,016.78	110.53	29.30	96.79	-7,447.90	2,341.60	1,891.60	1,815.84	75.76	24.969		
12,500.00	6,040.00	6,264.81	6,018.82	112.18	29.30	97.97	-7,447.97	2,343.92	1,791.79	1,715.75	76.03	23.566		
12,600.00	6,040.00	6,268.01	6,020.92	113.83	29.31	99.24	-7,448.04	2,346.33	1,691.99	1,615.66	76.33	22.167		
12,700.00	6,040.00	6,271.33	6,023.09	115.49	29.32	100.60	-7,448.12	2,348.84	1,592.21	1,515.56	76.65	20.772		
12,800.00	6,040.00	6,274.76	6,025.33	117.16	29.33	102.06	-7,448.20	2,351.46	1,492.44	1,415.44	77.00	19.382		
12,900.00	6,040.00	6,278.33	6,027.63	118.82	29.33	103.64	-7,448.29	2,354.18	1,392.70	1,315.31	77.39	17.996		
13,000.00	6,040.00	6,282.04	6,030.01	120.49	29.34	105.33	-7,448.39	2,357.02	1,292.99	1,215.17	77.82	16.614		
13,100.00	6,040.00	6,285.89	6,032.47	122.16	29.35	107.17	-7,448.49	2,359.98	1,193.31	1,115.00	78.31	15.238		
13,200.00	6,040.00	6,289.89	6,035.01	123.84	29.36	109.15	-7,448.60	2,363.07	1,093.67	1,014.81	78.86	13.868		
13,300.00	6,040.00	6,294.06	6,037.64	125.52	29.37	111.31	-7,448.72	2,366.30	994.09	914.59	79.51	12.503		
13,400.00	6,040.00	6,298.40	6,040.35	127.20	29.38	113.64	-7,448.85	2,369.69	894.58	814.32	80.27	11.145		
13,500.00	6,040.00	6,302.92	6,043.16	128.89	29.39	116.18	-7,448.98	2,373.23	795.17	713.99	81.18	9.795		
13,600.00	6,040.00	6,307.64	6,046.06	130.58	29.40	118.94	-7,449.13	2,376.95	695.89	613.57	82.32	8.453		
13,700.00	6,040.00	6,312.56	6,049.06	132.27	29.41	121.93	-7,449.29	2,380.84	596.81	513.02	83.79	7.123		
13,800.00	6,040.00	6,317.70	6,052.17	133.96	29.43	125.19	-7,449.46	2,384.93	498.04	412.25	85.79	5.805		
13,900.00	6,040.00	6,323.09	6,055.38	135.66	29.44	128.71	-7,449.65	2,389.26	399.82	311.12	88.70	4.508		
14,000.00	6,040.00	6,329.03	6,058.85	137.35	29.45	132.72	-7,449.87	2,394.08	302.67	209.41	93.26	3.245		
14,100.00	6,040.00	6,335.58	6,062.58	139.05	29.46	137.26	-7,450.13	2,399.45	208.05	106.64	101.41	2.052		
14,200.00	6,040.00	6,342.82	6,066.61	140.75	29.48	142.40	-7,450.44	2,405.46	121.98	4.42	117.55	1.038	Level 2	
14,292.75	6,040.00	6,350.26	6,070.63	142.34	29.49	147.74	-7,450.78	2,411.71	79.51	-39.57	119.08	0.668	Level 1, CC, ES, SF	
14,300.00	6,040.00	6,350.87	6,070.96	142.46	29.49	148.18	-7,450.81	2,412.23	79.84	-35.89	115.72	0.690	Level 1	
14,400.00	6,040.00	6,359.87	6,075.65	144.17	29.51	154.62	-7,451.25	2,419.89	133.24	61.53	71.71	1.858		
14,500.00	6,040.00	6,369.97	6,080.71	145.87	29.54	161.70	-7,451.79	2,428.62	221.35	155.16	66.20	3.344		
14,600.00	6,040.00	6,381.39	6,086.15	147.58	29.56	169.35	-7,452.45	2,438.63	316.35	247.70	68.65	4.608		
14,700.00	6,040.00	6,394.36	6,091.98	149.29	29.60	177.40	-7,453.26	2,450.19	413.47	342.01	71.47	5.786		
14,800.00	6,040.00	6,409.20	6,098.17	151.01	29.63	-174.34	-7,454.27	2,463.64	511.47	437.47	74.00	6.912		
14,900.00	6,040.00	6,426.29	6,104.66	152.72	29.68	-166.07	-7,455.53	2,479.39	609.88	533.54	76.34	7.989		
15,000.00	6,040.00	6,432.62	6,106.77	154.44	29.69	-163.27	-7,455.92	2,485.36	708.63	631.75	76.89	9.217		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 150-MWD OWSG												Offset Well Error:	0.00 usft		
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3225C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	6,040.00	6,443.22	6,110.12	156.16	29.72	-158.95	-7,456.63	2,495.39	807.55	729.70	77.85	10.373			
15,200.00	6,040.00	6,453.39	6,113.01	157.88	29.75	-155.14	-7,457.29	2,505.12	906.60	827.96	78.65	11.528			
15,300.00	6,040.00	6,463.14	6,115.48	159.60	29.78	-151.77	-7,457.91	2,514.52	1,005.76	926.45	79.31	12.682			
15,400.00	6,040.00	6,472.46	6,117.56	161.32	29.80	-148.77	-7,458.48	2,523.60	1,104.99	1,025.12	79.87	13.835			
15,500.00	6,040.00	6,481.38	6,119.30	163.04	29.83	-146.08	-7,459.01	2,532.33	1,204.29	1,123.94	80.35	14.989			
15,600.00	6,040.00	6,489.91	6,120.72	164.77	29.86	-143.65	-7,459.49	2,540.72	1,303.64	1,222.88	80.76	16.142			
15,700.00	6,040.00	6,498.05	6,121.87	166.49	29.89	-141.46	-7,459.94	2,548.77	1,403.03	1,321.92	81.12	17.296			
15,800.00	6,040.00	6,505.83	6,122.77	168.22	29.91	-139.47	-7,460.36	2,556.48	1,502.47	1,421.04	81.43	18.451			
15,900.00	6,040.00	6,513.25	6,123.44	169.95	29.94	-137.65	-7,460.74	2,563.86	1,601.94	1,520.23	81.71	19.606			
16,000.00	6,040.00	6,507.50	6,122.93	171.68	29.92	-139.05	-7,460.44	2,558.14	1,701.49	1,620.52	80.97	21.014			
16,100.00	6,040.00	6,507.50	6,122.93	173.41	29.92	-139.05	-7,460.44	2,558.14	1,801.08	1,720.35	80.72	22.311			
16,200.00	6,040.00	6,507.50	6,122.93	175.14	29.92	-139.05	-7,460.44	2,558.14	1,900.71	1,820.20	80.51	23.608			
16,300.00	6,040.00	6,507.50	6,122.93	176.88	29.92	-139.05	-7,460.44	2,558.14	2,000.38	1,920.05	80.33	24.903			
16,400.00	6,040.00	6,507.50	6,122.93	178.61	29.92	-139.05	-7,460.44	2,558.14	2,100.08	2,019.92	80.16	26.198			
16,500.00	6,040.00	6,507.50	6,122.93	180.34	29.92	-139.05	-7,460.44	2,558.14	2,199.81	2,119.79	80.02	27.491			
16,600.00	6,040.00	6,507.50	6,122.93	182.08	29.92	-139.05	-7,460.44	2,558.14	2,299.56	2,219.67	79.89	28.784			
16,700.00	6,040.00	6,507.50	6,122.93	183.82	29.92	-139.05	-7,460.44	2,558.14	2,399.33	2,319.56	79.78	30.076			
16,800.00	6,040.00	6,507.50	6,122.93	185.56	29.92	-139.05	-7,460.44	2,558.14	2,499.13	2,419.45	79.68	31.366			
16,865.66	6,040.00	6,507.50	6,122.93	186.70	29.92	-139.05	-7,460.44	2,558.14	2,564.65	2,485.04	79.62	32.212			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3340C - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 150-MWD OWSG														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	166.37	-8,663.50	2,101.28	8,914.76					
100.00	100.00	55.93	55.93	0.13	0.08	166.37	-8,663.52	2,101.29	8,914.71	8,914.49	0.22	N/A		
200.00	199.98	144.13	144.13	0.49	0.22	92.00	-8,663.65	2,101.34	8,914.92	8,914.22	0.71	N/A		
300.00	299.84	244.48	244.48	0.86	0.57	92.03	-8,663.87	2,101.56	8,915.38	8,913.96	1.42	6,288.334		
400.00	399.45	336.96	336.96	1.23	0.89	92.07	-8,663.95	2,101.80	8,915.84	8,913.72	2.12	4,197.356		
500.00	498.70	407.20	407.19	1.63	1.15	92.10	-8,664.18	2,102.30	8,916.76	8,913.99	2.77	3,214.776		
600.00	597.47	531.67	531.67	2.05	1.59	92.20	-8,664.36	2,102.85	8,917.56	8,913.92	3.64	2,450.654		
700.00	695.62	651.22	651.22	2.51	2.00	92.33	-8,664.82	2,102.72	8,918.70	8,914.19	4.51	1,977.743		
800.00	793.06	723.32	723.31	3.00	2.25	92.41	-8,665.01	2,102.31	8,919.82	8,914.57	5.25	1,698.870		
900.00	889.64	3,590.74	3,529.22	3.54	14.25	96.83	-8,217.19	2,113.27	8,899.55	8,883.68	15.87	560.794		
1,000.00	985.27	3,640.50	3,576.64	4.13	14.53	97.47	-8,202.13	2,114.09	8,872.37	8,855.74	16.63	533.407		
1,100.00	1,079.82	3,640.50	3,576.64	4.77	14.53	98.01	-8,202.13	2,114.09	8,846.04	8,828.78	17.26	512.414		
1,200.00	1,173.17	3,640.50	3,576.64	5.46	14.53	98.52	-8,202.13	2,114.09	8,821.24	8,803.29	17.95	491.390		
1,300.00	1,265.23	3,695.82	3,629.60	6.21	14.83	99.06	-8,186.18	2,115.07	8,797.54	8,778.63	18.90	465.375		
1,400.00	1,356.75	3,736.50	3,668.66	7.00	15.05	99.15	-8,174.83	2,115.76	8,774.83	8,755.00	19.84	442.316		
1,500.00	1,448.28	3,772.91	3,703.68	7.80	15.25	99.24	-8,164.91	2,116.30	8,752.81	8,732.04	20.77	421.448		
1,600.00	1,539.81	3,832.50	3,761.12	8.60	15.57	99.38	-8,149.04	2,116.90	8,731.43	8,709.63	21.79	400.670		
1,700.00	1,631.34	3,860.48	3,788.14	9.41	15.71	99.45	-8,141.77	2,117.05	8,710.63	8,687.92	22.71	383.608		
1,800.00	1,722.86	3,901.46	3,827.77	10.23	15.93	99.55	-8,131.34	2,117.14	8,690.53	8,666.85	23.67	367.084		
1,900.00	1,814.39	3,928.50	3,853.96	11.05	16.07	99.61	-8,124.61	2,117.12	8,671.12	8,646.52	24.60	352.530		
2,000.00	1,905.92	3,966.77	3,891.09	11.87	16.26	99.71	-8,115.33	2,117.11	8,652.46	8,626.90	25.56	338.492		
2,100.00	1,997.45	4,023.50	3,946.27	12.69	16.55	99.85	-8,102.19	2,117.35	8,634.78	8,608.19	26.59	324.680		
2,200.00	2,088.97	4,023.50	3,946.27	13.52	16.55	99.85	-8,102.19	2,117.35	8,617.63	8,590.20	27.43	314.158		
2,300.00	2,180.50	4,093.28	4,014.26	14.35	16.90	100.01	-8,086.51	2,118.41	8,601.22	8,572.71	28.52	301.637		
2,400.00	2,272.03	4,149.62	4,069.15	15.17	17.18	100.14	-8,073.89	2,120.02	8,585.25	8,555.70	29.55	290.493		
2,500.00	2,363.56	4,214.50	4,132.42	16.00	17.50	100.29	-8,059.70	2,122.12	8,569.90	8,539.28	30.62	279.835		
2,600.00	2,455.08	4,214.50	4,132.42	16.83	17.50	100.29	-8,059.70	2,122.12	8,555.23	8,523.76	31.47	271.873		
2,700.00	2,546.61	4,255.69	4,172.69	17.66	17.70	100.39	-8,051.12	2,123.34	8,541.33	8,508.87	32.45	263.179		
2,800.00	2,638.14	4,310.50	4,226.47	18.50	17.96	100.52	-8,040.64	2,124.44	8,528.57	8,495.08	33.49	254.668		
2,900.00	2,729.67	4,310.50	4,226.47	19.33	17.96	100.52	-8,040.64	2,124.44	8,516.30	8,481.97	34.33	248.052		
3,000.00	2,821.19	4,310.50	4,226.47	20.16	17.96	100.52	-8,040.64	2,124.44	8,505.19	8,470.01	35.18	241.795		
3,100.00	2,912.72	4,354.42	4,269.71	20.99	18.16	100.63	-8,032.96	2,125.11	8,494.82	8,458.65	36.17	234.869		
3,200.00	3,004.25	4,405.50	4,320.12	21.83	18.38	100.76	-8,024.79	2,125.99	8,485.57	8,448.39	37.19	228.195		
3,300.00	3,095.78	4,405.50	4,320.12	22.66	18.38	100.76	-8,024.79	2,125.99	8,476.92	8,438.90	38.03	222.928		
3,400.00	3,187.30	4,405.50	4,320.12	23.50	18.38	100.76	-8,024.79	2,125.99	8,469.44	8,430.58	38.86	217.934		
3,500.00	3,278.83	4,450.52	4,364.66	24.33	18.57	100.87	-8,018.30	2,126.90	8,462.66	8,422.81	39.85	212.345		
3,600.00	3,370.36	4,501.50	4,415.21	25.16	18.78	100.99	-8,011.80	2,128.18	8,457.10	8,416.23	40.86	206.957		
3,700.00	3,461.89	4,501.50	4,415.21	26.00	18.78	100.99	-8,011.80	2,128.18	8,452.10	8,410.40	41.69	202.714		
3,800.00	3,553.41	4,501.50	4,415.21	26.83	18.78	100.99	-8,011.80	2,128.18	8,448.27	8,405.75	42.52	198.682		
3,900.00	3,644.94	4,543.80	4,457.24	27.67	18.95	101.10	-8,007.10	2,129.23	8,445.22	8,401.72	43.49	194.175		
4,000.00	3,736.47	4,596.50	4,509.69	28.51	19.15	101.23	-8,002.16	2,130.19	8,443.37	8,398.87	44.50	189.744		
4,100.00	3,828.00	4,596.50	4,509.69	29.34	19.15	101.23	-8,002.16	2,130.19	8,442.05	8,396.73	45.32	186.293		
4,189.32	3,909.75	4,626.86	4,539.95	30.09	19.26	101.31	-7,999.67	2,130.61	8,441.77	8,395.62	46.15	182.924		
4,200.00	3,919.52	4,631.88	4,544.95	30.18	19.27	101.32	-7,999.26	2,130.67	8,441.77	8,395.52	46.25	182.511		
4,300.00	4,011.05	4,691.50	4,604.39	31.01	19.49	101.47	-7,994.71	2,131.31	8,442.20	8,394.92	47.27	178.579		
4,400.00	4,102.58	4,727.16	4,639.96	31.85	19.61	101.57	-7,992.19	2,131.62	8,443.25	8,395.04	48.21	175.146		
4,500.00	4,194.11	4,787.50	4,700.17	32.68	19.83	101.72	-7,988.23	2,132.07	8,444.98	8,395.76	49.22	171.559		
4,600.00	4,285.64	4,817.33	4,729.94	33.52	19.93	101.80	-7,986.44	2,132.27	8,447.37	8,397.24	50.13	168.508		
4,700.00	4,377.16	4,856.27	4,768.83	34.36	20.06	101.90	-7,984.32	2,132.51	8,450.53	8,399.46	51.07	165.484		
4,800.00	4,468.69	4,899.19	4,811.70	35.19	20.20	102.02	-7,982.27	2,132.76	8,454.44	8,402.43	52.01	162.550		
4,900.00	4,560.22	4,951.43	4,863.89	36.03	20.38	102.15	-7,980.02	2,133.03	8,458.99	8,406.00	52.99	159.641		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 150-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3340C - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,651.75	4,978.50	4,890.94	36.87	20.46	102.22	-7,978.96	2,133.16	8,464.22	8,410.35	53.87	157.127		
5,100.00	4,743.27	5,040.18	4,952.58	37.70	20.66	102.39	-7,976.88	2,133.40	8,470.06	8,415.19	54.87	154.359		
5,200.00	4,834.80	5,085.58	4,997.97	38.54	20.80	102.51	-7,975.70	2,133.53	8,476.67	8,420.85	55.81	151.874		
5,300.00	4,926.33	5,149.12	5,061.49	39.38	21.00	102.68	-7,974.30	2,133.57	8,483.84	8,427.03	56.82	149.315		
5,400.00	5,017.86	5,220.42	5,132.78	40.21	21.22	102.87	-7,972.96	2,133.41	8,491.48	8,433.63	57.85	146.786		
5,500.00	5,109.38	5,334.50	5,214.56	41.05	23.67	104.41	-7,932.65	2,183.64	8,495.33	8,434.08	61.25	138.708		
5,600.00	5,200.91	5,434.50	5,304.56	41.89	23.67	104.41	-7,932.65	2,183.64	8,497.07	8,435.02	62.05	136.947		
5,700.00	5,292.44	5,534.50	5,394.56	42.73	23.67	104.41	-7,932.65	2,183.64	8,499.99	8,437.15	62.84	135.266		
5,800.00	5,383.97	5,634.50	5,484.56	43.56	23.67	104.41	-7,932.65	2,183.64	8,504.08	8,440.46	63.62	133.662		
5,900.00	5,475.51	5,734.50	5,574.56	44.40	23.67	100.76	-7,932.65	2,183.64	8,509.12	8,444.72	64.40	132.129		
6,000.00	5,567.37	5,834.50	5,664.56	45.19	23.81	77.66	-7,929.24	2,207.81	8,502.43	8,437.05	65.38	130.043		
6,100.00	5,657.57	6,030.50	5,914.02	45.89	23.97	58.49	-7,928.89	2,237.16	8,482.11	8,415.76	66.35	127.837		
6,200.00	5,743.38	6,030.50	5,914.02	46.48	23.97	45.63	-7,928.89	2,237.16	8,444.29	8,377.28	67.00	126.028		
6,300.00	5,822.18	6,030.50	5,914.02	46.95	23.97	37.50	-7,928.89	2,237.16	8,391.88	8,324.31	67.57	124.196		
6,400.00	5,891.60	6,030.50	5,914.02	47.31	23.97	32.43	-7,928.89	2,237.16	8,326.23	8,258.18	68.04	122.366		
6,500.00	5,949.50	6,030.50	5,914.02	47.58	23.97	29.39	-7,928.89	2,237.16	8,249.03	8,180.61	68.42	120.562		
6,600.00	5,994.15	6,030.50	5,914.02	47.76	23.97	27.95	-7,928.89	2,237.16	8,162.35	8,093.65	68.70	118.806		
6,700.00	6,024.17	6,030.50	5,914.02	47.86	23.97	28.47	-7,928.89	2,237.16	8,068.56	7,999.66	68.89	117.117		
6,800.00	6,038.67	6,030.50	5,914.02	47.91	23.97	36.52	-7,928.89	2,237.16	7,970.30	7,901.30	69.00	115.516		
6,900.00	6,040.00	6,030.50	5,914.02	47.93	23.97	68.62	-7,928.89	2,237.16	7,870.41	7,801.37	69.04	114.002		
7,000.00	6,040.00	6,030.50	5,914.02	47.98	23.97	68.62	-7,928.89	2,237.16	7,770.46	7,701.39	69.07	112.498		
7,100.00	6,040.00	6,030.50	5,914.02	48.09	23.97	68.62	-7,928.89	2,237.16	7,670.51	7,601.40	69.11	110.993		
7,200.00	6,040.00	6,030.50	5,914.02	48.23	23.97	68.62	-7,928.89	2,237.16	7,570.56	7,501.42	69.15	109.487		
7,300.00	6,040.00	6,030.50	5,914.02	48.43	23.97	68.62	-7,928.89	2,237.16	7,470.61	7,401.43	69.18	107.981		
7,400.00	6,040.00	6,030.50	5,914.02	48.67	23.97	68.62	-7,928.89	2,237.16	7,370.67	7,301.44	69.22	106.475		
7,500.00	6,040.00	6,030.50	5,914.02	48.97	23.97	68.62	-7,928.89	2,237.16	7,270.73	7,201.46	69.27	104.968		
7,600.00	6,040.00	6,030.50	5,914.02	49.32	23.97	68.62	-7,928.89	2,237.16	7,170.78	7,101.47	69.31	103.461		
7,700.00	6,040.00	6,030.50	5,914.02	49.73	23.97	68.62	-7,928.89	2,237.16	7,070.84	7,001.49	69.35	101.953		
7,800.00	6,040.00	6,030.50	5,914.02	50.19	23.97	68.62	-7,928.89	2,237.16	6,970.90	6,901.50	69.40	100.444		
7,900.00	6,040.00	6,030.50	5,914.02	50.71	23.97	68.62	-7,928.89	2,237.16	6,870.97	6,801.52	69.45	98.936		
8,000.00	6,040.00	6,030.50	5,914.02	51.29	23.97	68.62	-7,928.89	2,237.16	6,771.03	6,701.53	69.50	97.427		
8,100.00	6,040.00	6,030.50	5,914.02	51.93	23.97	68.62	-7,928.89	2,237.16	6,671.10	6,601.55	69.55	95.918		
8,200.00	6,040.00	6,030.50	5,914.02	52.63	23.97	68.62	-7,928.89	2,237.16	6,571.17	6,501.56	69.60	94.408		
8,300.00	6,040.00	6,030.50	5,914.02	53.39	23.97	68.62	-7,928.89	2,237.16	6,471.24	6,401.58	69.66	92.898		
8,400.00	6,040.00	6,030.50	5,914.02	54.20	23.97	68.62	-7,928.89	2,237.16	6,371.31	6,301.59	69.72	91.388		
8,500.00	6,040.00	6,030.50	5,914.02	55.07	23.97	68.62	-7,928.89	2,237.16	6,271.38	6,201.61	69.78	89.878		
8,600.00	6,040.00	6,030.50	5,914.02	55.99	23.97	68.62	-7,928.89	2,237.16	6,171.46	6,101.62	69.84	88.368		
8,700.00	6,040.00	6,030.50	5,914.02	56.97	23.97	68.62	-7,928.89	2,237.16	6,071.54	6,001.64	69.90	86.858		
8,800.00	6,040.00	6,030.50	5,914.02	57.99	23.97	68.62	-7,928.89	2,237.16	5,971.63	5,901.66	69.97	85.347		
8,900.00	6,040.00	6,030.50	5,914.02	59.06	23.97	68.62	-7,928.89	2,237.16	5,871.71	5,801.67	70.04	83.837		
9,000.00	6,040.00	6,030.50	5,914.02	60.17	23.97	68.62	-7,928.89	2,237.16	5,771.80	5,701.69	70.11	82.327		
9,100.00	6,040.00	6,030.50	5,914.02	61.32	23.97	68.62	-7,928.89	2,237.16	5,671.89	5,601.71	70.18	80.816		
9,200.00	6,040.00	6,030.50	5,914.02	62.51	23.97	68.62	-7,928.89	2,237.16	5,571.99	5,501.73	70.26	79.306		
9,300.00	6,040.00	6,030.50	5,914.02	63.73	23.97	68.62	-7,928.89	2,237.16	5,472.09	5,401.75	70.34	77.796		
9,400.00	6,040.00	6,030.50	5,914.02	64.98	23.97	68.62	-7,928.89	2,237.16	5,372.19	5,301.77	70.42	76.286		
9,500.00	6,040.00	6,030.50	5,914.02	66.27	23.97	68.62	-7,928.89	2,237.16	5,272.29	5,201.79	70.51	74.776		
9,600.00	6,040.00	6,030.50	5,914.02	67.58	23.97	68.62	-7,928.89	2,237.16	5,172.40	5,101.81	70.60	73.267		
9,700.00	6,040.00	6,030.50	5,914.02	68.92	23.97	68.62	-7,928.89	2,237.16	5,072.52	5,001.83	70.69	71.757		
9,800.00	6,040.00	6,030.50	5,914.02	70.29	23.97	68.62	-7,928.89	2,237.16	4,972.64	4,901.85	70.79	70.248		
9,900.00	6,040.00	6,030.50	5,914.02	71.67	23.97	68.62	-7,928.89	2,237.16	4,872.76	4,801.87	70.89	68.740		
10,000.00	6,040.00	6,030.50	5,914.02	73.08	23.97	68.62	-7,928.89	2,237.16	4,772.89	4,701.90	70.99	67.231		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3340C - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 150-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	6,040.00	6,030.50	5,914.02	74.51	23.97	68.62	-7,928.89	2,237.16	4,673.03	4,601.92	71.10	65.724		
10,200.00	6,040.00	6,030.50	5,914.02	75.95	23.97	68.62	-7,928.89	2,237.16	4,573.17	4,501.95	71.22	64.216		
10,300.00	6,040.00	6,030.50	5,914.02	77.41	23.97	68.62	-7,928.89	2,237.16	4,473.31	4,401.98	71.33	62.709		
10,400.00	6,040.00	6,030.50	5,914.02	78.89	23.97	68.62	-7,928.89	2,237.16	4,373.47	4,302.01	71.46	61.203		
10,500.00	6,040.00	6,030.50	5,914.02	80.38	23.97	68.62	-7,928.89	2,237.16	4,273.63	4,202.04	71.59	59.697		
10,600.00	6,040.00	6,045.74	5,926.08	81.88	24.00	70.55	-7,929.37	2,246.47	4,173.75	4,102.03	71.72	58.199		
10,700.00	6,040.00	6,048.48	5,928.22	83.40	24.01	70.92	-7,929.45	2,248.16	4,073.91	4,002.06	71.85	56.700		
10,800.00	6,040.00	6,051.28	5,930.42	84.93	24.02	71.30	-7,929.55	2,249.91	3,974.07	3,902.08	71.99	55.203		
10,900.00	6,040.00	6,054.16	5,932.66	86.47	24.03	71.69	-7,929.64	2,251.71	3,874.23	3,802.10	72.13	53.709		
11,000.00	6,040.00	6,057.11	5,934.96	88.02	24.03	72.10	-7,929.75	2,253.56	3,774.41	3,702.12	72.28	52.217		
11,100.00	6,040.00	6,060.14	5,937.30	89.58	24.04	72.53	-7,929.85	2,255.48	3,674.58	3,602.14	72.44	50.727		
11,200.00	6,040.00	6,063.25	5,939.70	91.15	24.05	72.98	-7,929.96	2,257.45	3,574.77	3,502.17	72.60	49.240		
11,300.00	6,040.00	6,066.45	5,942.16	92.73	24.06	73.44	-7,930.08	2,259.49	3,474.95	3,402.19	72.77	47.755		
11,400.00	6,040.00	6,069.73	5,944.68	94.31	24.06	73.93	-7,930.20	2,261.59	3,375.15	3,302.21	72.94	46.273		
11,500.00	6,040.00	6,073.11	5,947.26	95.91	24.07	74.45	-7,930.32	2,263.77	3,275.35	3,202.23	73.12	44.794		
11,600.00	6,040.00	6,076.57	5,949.90	97.51	24.08	74.99	-7,930.45	2,266.01	3,175.56	3,102.25	73.31	43.318		
11,700.00	6,040.00	6,080.14	5,952.60	99.11	24.09	75.55	-7,930.59	2,268.34	3,075.77	3,002.27	73.50	41.846		
11,800.00	6,040.00	6,083.81	5,955.37	100.73	24.10	76.15	-7,930.74	2,270.74	2,976.00	2,902.29	73.71	40.376		
11,900.00	6,040.00	6,087.59	5,958.21	102.35	24.11	76.77	-7,930.89	2,273.23	2,876.23	2,802.31	73.92	38.910		
12,000.00	6,040.00	6,091.47	5,961.11	103.97	24.12	77.43	-7,931.04	2,275.80	2,776.47	2,702.33	74.14	37.448		
12,100.00	6,040.00	6,095.48	5,964.10	105.60	24.13	78.13	-7,931.21	2,278.47	2,676.72	2,602.34	74.38	35.989		
12,200.00	6,040.00	6,099.60	5,967.15	107.24	24.14	78.87	-7,931.38	2,281.23	2,576.98	2,502.36	74.62	34.535		
12,300.00	6,040.00	6,103.86	5,970.29	108.88	24.15	79.66	-7,931.57	2,284.10	2,477.25	2,402.37	74.88	33.084		
12,400.00	6,040.00	6,108.24	5,973.50	110.53	24.17	80.49	-7,931.76	2,287.07	2,377.53	2,302.39	75.15	31.638		
12,500.00	6,040.00	6,112.76	5,976.80	112.18	24.18	81.38	-7,931.96	2,290.16	2,277.83	2,202.40	75.43	30.196		
12,600.00	6,040.00	6,117.43	5,980.19	113.83	24.19	82.32	-7,932.17	2,293.37	2,178.14	2,102.41	75.74	28.759		
12,700.00	6,040.00	6,125.50	5,985.99	115.49	24.21	84.03	-7,932.55	2,298.96	2,078.47	2,002.47	76.00	27.348		
12,800.00	6,040.00	6,131.41	5,990.21	117.16	24.23	85.36	-7,932.83	2,303.10	1,978.81	1,902.48	76.33	25.926		
12,900.00	6,040.00	6,147.26	6,001.33	118.82	24.27	89.21	-7,933.52	2,314.37	1,879.14	1,802.67	76.47	24.574		
13,000.00	6,040.00	6,161.27	6,010.94	120.49	24.31	93.06	-7,934.08	2,324.54	1,779.46	1,702.83	76.63	23.222		
13,100.00	6,040.00	6,173.74	6,019.33	122.16	24.35	96.89	-7,934.53	2,334.76	1,679.78	1,602.96	76.81	21.868		
13,200.00	6,040.00	6,184.91	6,026.70	123.84	24.38	100.68	-7,934.90	2,342.14	1,580.09	1,503.07	77.02	20.515		
13,300.00	6,040.00	6,194.95	6,033.21	125.52	24.41	104.43	-7,935.20	2,349.79	1,480.41	1,403.15	77.26	19.160		
13,400.00	6,040.00	6,204.04	6,039.01	127.20	24.44	108.11	-7,935.45	2,356.78	1,380.75	1,303.20	77.54	17.806		
13,500.00	6,040.00	6,212.29	6,044.19	128.89	24.47	111.71	-7,935.66	2,363.20	1,281.10	1,203.23	77.87	16.451		
13,600.00	6,040.00	6,219.82	6,048.85	130.58	24.49	115.21	-7,935.84	2,369.11	1,181.49	1,103.23	78.26	15.096		
13,700.00	6,040.00	6,226.72	6,053.06	132.27	24.52	118.60	-7,935.98	2,374.56	1,081.93	1,003.20	78.73	13.742		
13,800.00	6,040.00	6,233.05	6,056.89	133.96	24.54	121.86	-7,936.11	2,379.61	982.42	903.13	79.29	12.389		
13,900.00	6,040.00	6,238.89	6,060.37	135.66	24.56	125.00	-7,936.21	2,384.29	883.00	803.01	79.99	11.038		
14,000.00	6,040.00	6,243.58	6,062.97	137.35	24.58	127.56	-7,936.32	2,388.21	783.71	702.75	80.97	9.680		
14,100.00	6,040.00	6,248.95	6,066.02	139.05	24.60	130.61	-7,936.41	2,392.63	684.59	602.50	82.09	8.340		
14,200.00	6,040.00	6,254.12	6,068.91	140.75	24.62	133.61	-7,936.50	2,396.92	585.74	502.16	83.58	7.008		
14,300.00	6,040.00	6,259.11	6,071.64	142.46	24.64	136.57	-7,936.58	2,401.08	487.31	401.65	85.66	5.689		
14,400.00	6,040.00	6,263.91	6,074.23	144.17	24.65	139.47	-7,936.65	2,405.12	389.64	300.88	88.77	4.390		
14,500.00	6,040.00	6,268.54	6,076.69	145.87	24.67	142.30	-7,936.72	2,409.04	293.49	199.65	93.84	3.128		
14,600.00	6,040.00	6,273.00	6,079.02	147.58	24.69	145.06	-7,936.78	2,412.85	201.06	97.96	103.09	1.950		
14,700.00	6,040.00	6,277.31	6,081.23	149.29	24.71	147.73	-7,936.84	2,416.55	121.16	1.51	119.65	1.013 Level 2		
14,778.90	6,040.00	6,280.60	6,082.90	150.65	24.72	149.78	-7,936.88	2,419.39	92.00	-26.68	118.68	0.775 Level 1, CC, ES, SF		
14,800.00	6,040.00	6,281.47	6,083.33	151.01	24.73	150.32	-7,936.89	2,420.14	94.38	-16.26	110.64	0.853 Level 1		
14,900.00	6,040.00	6,285.48	6,085.33	152.72	24.74	152.82	-7,936.94	2,423.62	152.02	77.82	74.20	2.049		
15,000.00	6,040.00	6,289.37	6,087.23	154.44	24.76	155.23	-7,936.98	2,427.00	239.34	173.97	65.38	3.661		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 150-MWD OWSG												Offset Well Error:	0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-3340C - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis		Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	6,040.00	6,293.12	6,089.04	156.16	24.78	157.54	-7,937.02	2,430.29	333.82	268.70	65.12	5.126		
15,200.00	6,040.00	6,296.75	6,090.76	157.88	24.79	159.76	-7,937.06	2,433.48	430.78	364.56	66.22	6.506		
15,300.00	6,040.00	6,300.26	6,092.41	159.60	24.81	161.89	-7,937.09	2,436.59	528.84	461.49	67.35	7.852		
15,400.00	6,040.00	6,303.66	6,093.97	161.32	24.82	163.93	-7,937.12	2,439.60	627.50	559.19	68.32	9.185		
15,500.00	6,040.00	6,306.95	6,095.47	163.04	24.84	165.87	-7,937.14	2,442.53	726.52	657.40	69.12	10.512		
15,600.00	6,040.00	6,310.13	6,096.90	164.77	24.85	167.74	-7,937.17	2,445.38	825.76	755.98	69.78	11.834		
15,700.00	6,040.00	6,313.22	6,098.26	166.49	24.87	169.52	-7,937.19	2,448.15	925.15	854.81	70.34	13.153		
15,800.00	6,040.00	6,316.22	6,099.57	168.22	24.88	171.22	-7,937.21	2,450.85	1,024.66	953.84	70.81	14.470		
15,900.00	6,040.00	6,319.71	6,101.07	169.95	24.90	173.17	-7,937.23	2,454.01	1,124.24	1,052.96	71.28	15.772		
16,000.00	6,040.00	6,323.28	6,102.57	171.68	24.92	175.12	-7,937.25	2,457.24	1,223.88	1,152.18	71.71	17.068		
16,100.00	6,040.00	6,326.86	6,104.06	173.41	24.94	177.03	-7,937.27	2,460.50	1,323.57	1,251.48	72.09	18.360		
16,200.00	6,040.00	6,330.45	6,105.52	175.14	24.96	178.91	-7,937.30	2,463.77	1,423.30	1,350.86	72.44	19.647		
16,300.00	6,040.00	6,334.04	6,106.95	176.88	24.98	-179.25	-7,937.32	2,467.07	1,523.06	1,450.29	72.77	20.930		
16,400.00	6,040.00	6,337.65	6,108.37	178.61	25.00	-177.45	-7,937.34	2,470.38	1,622.84	1,549.76	73.07	22.209		
16,500.00	6,040.00	6,341.26	6,109.76	180.34	25.02	-175.70	-7,937.36	2,473.72	1,722.64	1,649.28	73.36	23.483		
16,600.00	6,040.00	6,344.88	6,111.13	182.08	25.04	-173.98	-7,937.38	2,477.07	1,822.45	1,748.83	73.63	24.753		
16,700.00	6,040.00	6,348.51	6,112.47	183.82	25.06	-172.31	-7,937.40	2,480.45	1,922.28	1,848.40	73.88	26.018		
16,800.00	6,040.00	6,352.15	6,113.78	185.56	25.08	-170.68	-7,937.43	2,483.83	2,022.12	1,948.00	74.13	27.280		
16,865.66	6,040.00	6,354.54	6,114.64	186.70	25.09	-169.63	-7,937.44	2,486.07	2,087.68	2,013.40	74.28	28.105		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft				
Survey Program: 150-MWD OWSG												Offset Well Error:	0.00 usft				
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-4841CN - OWB - FINAL SURVEY																	
Reference				Offset				Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.00	0.00	0.00	0.00	0.00	0.00	166.36	-8,677.34	2,106.02	8,929.33								
100.00	100.00	66.06	66.06	0.13	0.10	166.36	-8,677.34	2,106.02	8,929.25	8,929.01	0.23	N/A					
140.02	140.02	107.75	107.75	0.28	0.16	91.99	-8,677.32	2,106.01	8,929.24	8,928.80	0.44	N/A					
200.00	199.98	150.00	150.00	0.49	0.23	92.00	-8,677.30	2,106.00	8,929.28	8,928.56	0.72	N/A					
300.00	299.84	217.32	217.32	0.86	0.46	92.01	-8,677.47	2,106.24	8,929.79	8,928.48	1.31	6,807.387					
400.00	399.45	327.00	327.00	1.23	0.84	92.05	-8,677.78	2,106.81	8,930.49	8,928.42	2.07	4,307.470					
500.00	498.70	435.18	435.17	1.63	1.23	92.11	-8,678.17	2,107.48	8,931.45	8,928.59	2.86	3,127.664					
600.00	597.47	1,802.06	1,794.43	2.05	6.27	93.31	-8,575.32	2,131.31	8,923.27	8,915.13	8.14	1,096.309					
700.00	695.62	1,859.41	1,851.22	2.51	6.49	93.63	-8,567.37	2,131.02	8,910.58	8,901.78	8.80	1,012.862					
800.00	793.06	1,924.79	1,916.00	3.00	6.76	93.95	-8,558.58	2,130.74	8,898.56	8,889.03	9.53	934.208					
900.00	889.64	1,998.30	1,988.81	3.54	7.05	94.29	-8,548.54	2,132.08	8,887.13	8,876.80	10.33	860.462					
1,000.00	985.27	2,077.47	2,067.21	4.13	7.37	94.63	-8,537.73	2,134.18	8,876.21	8,865.00	11.20	792.311					
1,100.00	1,079.82	2,140.98	2,130.13	4.77	7.63	94.95	-8,529.25	2,135.85	8,865.92	8,853.85	12.07	734.330					
1,200.00	1,173.17	2,187.94	2,176.68	5.46	7.82	95.23	-8,523.19	2,136.98	8,856.43	8,843.49	12.94	684.428					
1,300.00	1,265.23	2,226.69	2,215.14	6.21	7.97	95.47	-8,518.47	2,137.82	8,847.94	8,834.11	13.83	639.544					
1,400.00	1,356.75	2,256.50	2,244.74	7.00	8.09	95.54	-8,515.01	2,138.40	8,840.31	8,825.58	14.73	600.101					
1,500.00	1,448.28	2,301.77	2,289.72	7.80	8.27	95.65	-8,510.05	2,139.27	8,833.39	8,817.70	15.69	562.861					
1,600.00	1,539.81	2,351.50	2,339.19	8.60	8.46	95.76	-8,505.01	2,140.27	8,827.25	8,810.57	16.68	529.216					
1,700.00	1,631.34	2,385.79	2,373.32	9.41	8.60	95.85	-8,501.73	2,140.97	8,821.76	8,804.14	17.62	500.783					
1,800.00	1,722.86	2,447.50	2,434.76	10.23	8.83	95.99	-8,496.09	2,142.19	8,816.89	8,798.24	18.65	472.651					
1,900.00	1,814.39	2,488.09	2,475.20	11.05	8.99	96.09	-8,492.61	2,142.88	8,812.59	8,792.98	19.62	449.191					
2,000.00	1,905.92	2,542.50	2,529.42	11.87	9.19	96.22	-8,488.26	2,143.45	8,808.93	8,788.29	20.63	426.897					
2,100.00	1,997.45	2,542.50	2,529.42	12.69	9.19	96.22	-8,488.26	2,143.45	8,806.07	8,784.62	21.46	410.377					
2,200.00	2,088.97	2,597.21	2,584.00	13.52	9.39	96.36	-8,484.52	2,143.51	8,803.82	8,781.34	22.47	391.729					
2,300.00	2,180.50	2,637.50	2,624.23	14.35	9.54	96.47	-8,482.32	2,143.14	8,802.54	8,779.10	23.44	375.535					
2,388.39	2,261.40	2,637.50	2,624.23	15.08	9.54	96.47	-8,482.32	2,143.14	8,802.09	8,777.93	24.17	364.202					
2,400.00	2,272.03	2,637.50	2,624.23	15.17	9.54	96.47	-8,482.32	2,143.14	8,802.10	8,777.84	24.26	362.769					
2,500.00	2,363.56	2,637.50	2,624.23	16.00	9.54	96.47	-8,482.32	2,143.14	8,802.80	8,777.72	25.09	350.909					
2,600.00	2,455.08	2,683.32	2,670.01	16.83	9.70	96.59	-8,480.57	2,142.60	8,804.02	8,777.96	26.06	337.774					
2,700.00	2,546.61	2,733.50	2,720.19	17.66	9.87	96.72	-8,479.79	2,142.21	8,806.74	8,779.68	27.06	325.470					
2,800.00	2,638.14	2,733.50	2,720.19	18.50	9.87	96.72	-8,479.79	2,142.21	8,809.84	8,781.97	27.88	316.042					
2,900.00	2,729.67	2,745.24	2,731.92	19.33	9.90	96.75	-8,479.74	2,142.14	8,814.08	8,785.35	28.73	306.786					
3,000.00	2,821.19	2,819.64	2,806.32	20.16	10.15	96.95	-8,479.53	2,141.82	8,818.95	8,789.14	29.80	295.915					
3,100.00	2,912.72	3,100.00	2,915.30	20.99	11.08	97.23	-8,479.08	2,141.70	8,823.90	8,792.31	31.59	279.287					
3,200.00	3,004.25	2,968.67	2,955.35	21.83	10.64	97.33	-8,478.97	2,141.77	8,829.27	8,797.32	31.95	276.335					
3,300.00	3,095.78	3,019.50	3,006.18	22.66	10.81	97.47	-8,479.27	2,141.85	8,835.45	8,802.51	32.94	268.243					
3,400.00	3,187.30	3,082.26	3,068.94	23.50	11.01	97.63	-8,479.88	2,141.92	8,842.19	8,808.23	33.96	260.374					
3,500.00	3,278.83	3,148.03	3,134.71	24.33	11.22	97.80	-8,480.53	2,141.87	8,849.19	8,814.20	34.99	252.907					
3,600.00	3,370.36	3,210.50	3,197.17	25.16	11.42	97.96	-8,481.53	2,141.57	8,856.82	8,820.81	36.01	245.972					
3,700.00	3,461.89	3,302.13	3,288.78	26.00	11.71	98.21	-8,483.18	2,140.93	8,864.82	8,827.70	37.13	238.779					
3,800.00	3,553.41	3,380.05	3,366.69	26.83	11.96	98.41	-8,484.50	2,140.32	8,872.92	8,834.72	38.20	232.299					
3,900.00	3,644.94	3,466.49	3,453.10	27.67	12.24	98.64	-8,486.11	2,139.42	8,881.32	8,842.02	39.30	226.011					
4,000.00	3,736.47	3,554.15	3,540.74	28.51	12.53	98.88	-8,487.77	2,138.29	8,889.92	8,849.52	40.40	220.047					
4,100.00	3,828.00	3,628.92	3,615.49	29.34	12.77	99.08	-8,489.26	2,137.20	8,898.79	8,857.33	41.46	214.647					
4,200.00	3,919.52	3,837.08	3,823.57	30.18	13.45	99.64	-8,492.73	2,132.67	8,907.67	8,864.67	42.99	207.191					
4,300.00	4,011.05	3,879.50	3,865.97	31.01	13.59	99.75	-8,493.10	2,131.43	8,915.95	8,872.01	43.94	202.929					
4,400.00	4,102.58	3,931.83	3,918.28	31.85	13.77	99.90	-8,493.79	2,130.20	8,924.84	8,879.92	44.91	198.714					
4,500.00	4,194.11	3,974.50	3,960.94	32.68	13.91	100.01	-8,494.72	2,129.72	8,934.58	8,888.73	45.85	194.855					
4,600.00	4,285.64	4,039.05	4,025.46	33.52	14.12	100.18	-8,496.37	2,129.24	8,944.92	8,898.05	46.87	190.850					
4,700.00	4,377.16	4,288.43	4,274.76	34.36	14.96	100.84	-8,500.13	2,124.31	8,954.07	8,905.51	48.56	184.388					
4,800.00	4,468.69	4,338.13	4,324.44	35.19	15.13	100.97	-8,500.65	2,123.67	8,963.42	8,913.89	49.53	180.986					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 150-MWD OWSG												Offset Well Error:		0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-4841CN - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,900.00	4,560.22	4,414.41	4,400.72	36.03	15.38	101.17	-8,501.68	2,123.78	8,973.28	8,922.69	50.59	177.390			
5,000.00	4,651.75	4,514.79	4,501.09	36.87	15.73	101.42	-8,503.03	2,123.71	8,983.32	8,931.58	51.73	173.650			
5,100.00	4,743.27	4,595.31	4,581.60	37.70	16.00	101.62	-8,504.05	2,123.80	8,993.47	8,940.67	52.81	170.314			
5,200.00	4,834.80	4,685.10	4,671.38	38.54	16.30	101.85	-8,505.39	2,123.79	9,003.98	8,950.07	53.91	167.015			
5,300.00	4,926.33	4,795.74	4,782.01	39.38	16.68	102.13	-8,506.77	2,123.99	9,014.45	8,959.35	55.09	163.620			
5,400.00	5,017.86	4,888.93	4,875.20	40.21	17.00	102.36	-8,507.86	2,124.31	9,025.02	8,968.81	56.21	160.556			
5,500.00	5,109.38	4,979.53	4,965.79	41.05	17.31	102.59	-8,508.91	2,124.71	9,035.76	8,978.44	57.32	157.644			
5,600.00	5,200.91	5,191.25	5,177.50	41.89	18.04	103.11	-8,509.39	2,126.05	9,045.47	8,986.60	58.87	153.643			
5,700.00	5,292.44	5,247.11	5,233.36	42.73	18.23	103.25	-8,509.41	2,126.43	9,055.52	8,995.66	59.85	151.301			
5,800.00	5,383.97	5,312.50	5,298.75	43.56	18.46	103.41	-8,509.71	2,126.82	9,066.08	9,005.22	60.86	148.964			
5,900.00	5,475.51	5,885.50	5,858.79	44.40	20.46	100.69	-8,498.90	2,206.53	9,076.22	9,012.43	63.79	142.274			
6,000.00	5,567.37	5,885.50	5,858.79	45.19	20.46	77.64	-8,498.90	2,206.53	9,071.05	9,006.47	64.58	140.457			
6,100.00	5,657.57	5,885.50	5,858.79	45.89	20.46	58.53	-8,498.90	2,206.53	9,049.70	8,984.37	65.33	138.526			
6,200.00	5,743.38	5,926.60	5,893.84	46.48	20.61	45.63	-8,497.25	2,227.91	9,011.91	8,945.71	66.20	136.137			
6,300.00	5,822.18	5,936.38	5,901.95	46.95	20.65	37.49	-8,497.07	2,233.36	8,959.79	8,892.95	66.83	134.063			
6,400.00	5,891.60	5,980.50	5,937.37	47.31	20.82	32.33	-8,497.26	2,259.65	8,894.87	8,827.33	67.54	131.704			
6,500.00	5,949.50	5,980.50	5,937.37	47.58	20.82	29.27	-8,497.26	2,259.65	8,817.47	8,749.54	67.93	129.801			
6,600.00	5,994.15	5,980.50	5,937.37	47.76	20.82	27.80	-8,497.26	2,259.65	8,730.61	8,662.39	68.22	127.969			
6,700.00	6,024.17	5,980.50	5,937.37	47.86	20.82	28.25	-8,497.26	2,259.65	8,636.67	8,568.25	68.42	126.228			
6,800.00	6,038.67	5,980.50	5,937.37	47.91	20.82	36.31	-8,497.26	2,259.65	8,538.34	8,469.81	68.53	124.598			
6,900.00	6,040.00	5,980.50	5,937.37	47.93	20.82	73.24	-8,497.26	2,259.65	8,438.43	8,369.87	68.57	123.071			
7,000.00	6,040.00	5,980.50	5,937.37	47.98	20.82	73.24	-8,497.26	2,259.65	8,338.47	8,269.87	68.60	121.557			
7,100.00	6,040.00	5,980.50	5,937.37	48.09	20.82	73.24	-8,497.26	2,259.65	8,238.51	8,169.88	68.63	120.042			
7,200.00	6,040.00	5,980.50	5,937.37	48.23	20.82	73.24	-8,497.26	2,259.65	8,138.55	8,069.88	68.66	118.526			
7,300.00	6,040.00	5,980.50	5,937.37	48.43	20.82	73.24	-8,497.26	2,259.65	8,038.59	7,969.89	68.70	117.010			
7,400.00	6,040.00	5,980.50	5,937.37	48.67	20.82	73.24	-8,497.26	2,259.65	7,938.63	7,869.89	68.74	115.493			
7,500.00	6,040.00	5,980.50	5,937.37	48.97	20.82	73.24	-8,497.26	2,259.65	7,838.67	7,769.90	68.78	113.975			
7,600.00	6,040.00	5,980.50	5,937.37	49.32	20.82	73.24	-8,497.26	2,259.65	7,738.71	7,669.90	68.81	112.457			
7,700.00	6,040.00	5,980.50	5,937.37	49.73	20.82	73.24	-8,497.26	2,259.65	7,638.76	7,569.90	68.86	110.938			
7,800.00	6,040.00	5,980.50	5,937.37	50.19	20.82	73.24	-8,497.26	2,259.65	7,538.80	7,469.91	68.90	109.419			
7,900.00	6,040.00	5,980.50	5,937.37	50.71	20.82	73.24	-8,497.26	2,259.65	7,438.85	7,369.91	68.94	107.900			
8,000.00	6,040.00	5,980.50	5,937.37	51.29	20.82	73.24	-8,497.26	2,259.65	7,338.90	7,269.91	68.99	106.380			
8,100.00	6,040.00	5,980.50	5,937.37	51.93	20.82	73.24	-8,497.26	2,259.65	7,238.95	7,169.91	69.03	104.860			
8,200.00	6,040.00	5,980.50	5,937.37	52.63	20.82	73.24	-8,497.26	2,259.65	7,139.00	7,069.92	69.08	103.339			
8,300.00	6,040.00	5,980.50	5,937.37	53.39	20.82	73.24	-8,497.26	2,259.65	7,039.05	6,969.92	69.13	101.818			
8,400.00	6,040.00	5,980.50	5,937.37	54.20	20.82	73.24	-8,497.26	2,259.65	6,939.11	6,869.92	69.19	100.297			
8,500.00	6,040.00	5,980.50	5,937.37	55.07	20.82	73.24	-8,497.26	2,259.65	6,839.16	6,769.92	69.24	98.776			
8,600.00	6,040.00	5,980.50	5,937.37	55.99	20.82	73.24	-8,497.26	2,259.65	6,739.22	6,669.92	69.29	97.254			
8,700.00	6,040.00	5,980.50	5,937.37	56.97	20.82	73.24	-8,497.26	2,259.65	6,639.28	6,569.92	69.35	95.733			
8,800.00	6,040.00	5,980.50	5,937.37	57.99	20.82	73.24	-8,497.26	2,259.65	6,539.34	6,469.92	69.41	94.211			
8,900.00	6,040.00	5,980.50	5,937.37	59.06	20.82	73.24	-8,497.26	2,259.65	6,439.40	6,369.93	69.47	92.689			
9,000.00	6,040.00	5,980.50	5,937.37	60.17	20.82	73.24	-8,497.26	2,259.65	6,339.46	6,269.93	69.54	91.167			
9,100.00	6,040.00	5,980.50	5,937.37	61.32	20.82	73.24	-8,497.26	2,259.65	6,239.53	6,169.93	69.60	89.645			
9,200.00	6,040.00	5,980.50	5,937.37	62.51	20.82	73.24	-8,497.26	2,259.65	6,139.60	6,069.93	69.67	88.123			
9,300.00	6,040.00	5,980.50	5,937.37	63.73	20.82	73.24	-8,497.26	2,259.65	6,039.67	5,969.93	69.74	86.601			
9,400.00	6,040.00	5,980.50	5,937.37	64.98	20.82	73.24	-8,497.26	2,259.65	5,939.74	5,869.93	69.81	85.080			
9,500.00	6,040.00	5,980.50	5,937.37	66.27	20.82	73.24	-8,497.26	2,259.65	5,839.82	5,769.93	69.89	83.558			
9,600.00	6,040.00	5,980.50	5,937.37	67.58	20.82	73.24	-8,497.26	2,259.65	5,739.90	5,669.93	69.97	82.036			
9,700.00	6,040.00	5,980.50	5,937.37	68.92	20.82	73.24	-8,497.26	2,259.65	5,639.98	5,569.93	70.05	80.515			
9,800.00	6,040.00	5,980.50	5,937.37	70.29	20.82	73.24	-8,497.26	2,259.65	5,540.06	5,469.93	70.13	78.994			
9,900.00	6,040.00	5,980.50	5,937.37	71.67	20.82	73.24	-8,497.26	2,259.65	5,440.15	5,369.93	70.22	77.473			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 150-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-4841CN - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,000.00	6,040.00	5,980.50	5,937.37	73.08	20.82	73.24	-8,497.26	2,259.65	5,340.24	5,269.93	70.31	75.953				
10,100.00	6,040.00	5,980.50	5,937.37	74.51	20.82	73.24	-8,497.26	2,259.65	5,240.33	5,169.93	70.40	74.432				
10,200.00	6,040.00	5,980.50	5,937.37	75.95	20.82	73.24	-8,497.26	2,259.65	5,140.43	5,069.93	70.50	72.913				
10,300.00	6,040.00	5,980.50	5,937.37	77.41	20.82	73.24	-8,497.26	2,259.65	5,040.53	4,969.93	70.60	71.393				
10,400.00	6,040.00	5,985.94	5,941.60	78.89	20.84	74.02	-8,497.38	2,263.07	4,940.63	4,869.92	70.71	69.872				
10,500.00	6,040.00	5,994.77	5,948.42	80.38	20.88	75.35	-8,497.57	2,268.67	4,840.74	4,769.92	70.82	68.354				
10,600.00	6,040.00	6,003.23	5,954.91	81.88	20.91	76.68	-8,497.75	2,274.09	4,740.84	4,669.91	70.93	66.841				
10,700.00	6,040.00	6,011.33	5,961.08	83.40	20.95	78.03	-8,497.91	2,279.34	4,640.93	4,569.90	71.03	65.334				
10,800.00	6,040.00	6,019.10	5,966.96	84.93	20.99	79.39	-8,498.06	2,284.42	4,541.03	4,469.89	71.14	63.831				
10,900.00	6,040.00	6,026.55	5,972.55	86.47	21.02	80.76	-8,498.19	2,289.33	4,441.12	4,369.88	71.25	62.333				
11,000.00	6,040.00	6,033.70	5,977.89	88.02	21.05	82.14	-8,498.32	2,294.10	4,341.22	4,269.86	71.35	60.840				
11,100.00	6,040.00	6,040.58	5,982.99	89.58	21.09	83.54	-8,498.43	2,298.71	4,241.31	4,169.85	71.46	59.351				
11,200.00	6,040.00	6,047.19	5,987.85	91.15	21.12	84.95	-8,498.54	2,303.18	4,141.40	4,069.83	71.57	57.866				
11,300.00	6,040.00	6,053.55	5,992.51	92.73	21.15	86.37	-8,498.63	2,307.51	4,041.49	3,969.81	71.68	56.384				
11,400.00	6,040.00	6,059.67	5,996.96	94.31	21.18	87.80	-8,498.72	2,311.71	3,941.58	3,869.79	71.79	54.907				
11,500.00	6,040.00	6,065.57	6,001.23	95.91	21.21	89.24	-8,498.80	2,315.78	3,841.67	3,769.77	71.90	53.433				
11,600.00	6,040.00	6,071.25	6,005.32	97.51	21.23	90.69	-8,498.88	2,319.73	3,741.76	3,669.75	72.01	51.962				
11,700.00	6,040.00	6,076.73	6,009.24	99.11	21.26	92.15	-8,498.94	2,323.56	3,641.85	3,569.73	72.12	50.494				
11,800.00	6,040.00	6,082.03	6,013.00	100.73	21.29	93.62	-8,499.01	2,327.28	3,541.94	3,469.70	72.24	49.030				
11,900.00	6,040.00	6,087.14	6,016.62	102.35	21.31	95.10	-8,499.06	2,330.90	3,442.04	3,369.68	72.36	47.568				
12,000.00	6,040.00	6,092.07	6,020.09	103.97	21.34	96.58	-8,499.12	2,334.40	3,342.13	3,269.65	72.48	46.110				
12,100.00	6,040.00	6,089.28	6,018.07	105.60	21.34	95.72	-8,499.10	2,332.47	3,242.24	3,169.56	72.69	44.607				
12,200.00	6,040.00	6,092.51	6,020.31	107.24	21.36	96.69	-8,499.14	2,334.80	3,142.35	3,069.51	72.84	43.143				
12,300.00	6,040.00	6,095.78	6,022.56	108.88	21.38	97.69	-8,499.18	2,337.17	3,042.45	2,969.46	72.99	41.682				
12,400.00	6,040.00	6,099.07	6,024.81	110.53	21.40	98.73	-8,499.22	2,339.57	2,942.57	2,869.41	73.15	40.224				
12,500.00	6,040.00	6,102.39	6,027.07	112.18	21.42	99.80	-8,499.26	2,342.01	2,842.68	2,769.36	73.32	38.769				
12,600.00	6,040.00	6,105.75	6,029.32	113.83	21.44	100.91	-8,499.30	2,344.49	2,742.81	2,669.31	73.50	37.318				
12,700.00	6,040.00	6,109.13	6,031.59	115.49	21.46	102.05	-8,499.34	2,347.00	2,642.93	2,569.25	73.68	35.871				
12,800.00	6,040.00	6,112.54	6,033.85	117.16	21.48	103.24	-8,499.39	2,349.55	2,543.07	2,469.20	73.87	34.427				
12,900.00	6,040.00	6,115.98	6,036.12	118.82	21.50	104.46	-8,499.43	2,352.14	2,443.21	2,369.14	74.07	32.986				
13,000.00	6,040.00	6,119.46	6,038.39	120.49	21.52	105.73	-8,499.47	2,354.77	2,343.36	2,269.08	74.28	31.549				
13,100.00	6,040.00	6,122.96	6,040.66	122.16	21.54	107.04	-8,499.52	2,357.44	2,243.51	2,169.02	74.50	30.116				
13,200.00	6,040.00	6,126.49	6,042.93	123.84	21.57	108.39	-8,499.56	2,360.14	2,143.68	2,068.95	74.73	28.686				
13,300.00	6,040.00	6,130.06	6,045.21	125.52	21.59	109.80	-8,499.60	2,362.89	2,043.85	1,968.88	74.97	27.261				
13,400.00	6,040.00	6,133.65	6,047.48	127.20	21.61	111.25	-8,499.65	2,365.67	1,944.04	1,868.81	75.24	25.839				
13,500.00	6,040.00	6,137.27	6,049.75	128.89	21.63	112.75	-8,499.70	2,368.50	1,844.25	1,768.73	75.52	24.421				
13,600.00	6,040.00	6,140.93	6,052.02	130.58	21.66	114.30	-8,499.74	2,371.36	1,744.47	1,668.65	75.82	23.008				
13,700.00	6,040.00	6,144.61	6,054.29	132.27	21.68	115.91	-8,499.79	2,374.27	1,644.71	1,568.56	76.15	21.599				
13,800.00	6,040.00	6,148.33	6,056.55	133.96	21.71	117.56	-8,499.84	2,377.21	1,544.97	1,468.46	76.51	20.194				
13,900.00	6,040.00	6,152.08	6,058.81	135.66	21.73	119.27	-8,499.88	2,380.20	1,445.26	1,368.36	76.90	18.793				
14,000.00	6,040.00	6,155.85	6,061.07	137.35	21.75	121.04	-8,499.93	2,383.23	1,345.59	1,268.25	77.34	17.398				
14,100.00	6,040.00	6,159.66	6,063.32	139.05	21.78	122.86	-8,499.98	2,386.30	1,245.96	1,168.12	77.84	16.007				
14,200.00	6,040.00	6,163.49	6,065.56	140.75	21.80	124.74	-8,500.03	2,389.41	1,146.38	1,067.98	78.40	14.621				
14,300.00	6,040.00	6,167.36	6,067.80	142.46	21.83	126.67	-8,500.08	2,392.56	1,046.87	967.81	79.06	13.241				
14,400.00	6,040.00	6,171.26	6,070.04	144.17	21.85	128.66	-8,500.13	2,395.75	947.45	867.62	79.84	11.867				
14,500.00	6,040.00	6,175.42	6,072.39	145.87	21.89	130.82	-8,500.18	2,399.18	848.16	767.39	80.76	10.502				
14,600.00	6,040.00	6,179.62	6,074.73	147.58	21.92	133.04	-8,500.24	2,402.67	749.03	667.12	81.90	9.145				
14,700.00	6,040.00	6,183.83	6,077.04	149.29	21.96	135.30	-8,500.29	2,406.19	650.14	566.77	83.37	7.798				
14,800.00	6,040.00	6,188.07	6,079.33	151.01	21.99	137.61	-8,500.34	2,409.75	551.64	466.31	85.33	6.465				
14,900.00	6,040.00	6,192.32	6,081.60	152.72	22.03	139.96	-8,500.40	2,413.35	453.76	365.66	88.10	5.151				
15,000.00	6,040.00	6,196.59	6,083.83	154.44	22.06	142.34	-8,500.45	2,416.98	357.02	264.71	92.30	3.868				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 150-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-11-4841CN - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis		Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,100.00	6,040.00	6,200.87	6,086.04	156.16	22.10	144.75	-8,500.50	2,420.66	262.67	163.38	99.29	2.645			
15,200.00	6,040.00	6,205.17	6,088.22	157.88	22.13	147.18	-8,500.56	2,424.36	174.65	62.78	111.87	1.561			
15,300.00	6,040.00	6,209.48	6,090.37	159.60	22.17	149.63	-8,500.61	2,428.10	109.46	-17.52	126.98	0.862	Level 1		
15,342.74	6,040.00	6,211.33	6,091.28	160.33	22.19	150.68	-8,500.63	2,429.71	100.79	-21.08	121.87	0.827	Level 1, CC, ES, SF		
15,400.00	6,040.00	6,213.81	6,092.48	161.32	22.21	152.09	-8,500.66	2,431.88	115.90	16.08	99.82	1.161	Level 2		
15,500.00	6,040.00	6,218.15	6,094.57	163.04	22.24	154.55	-8,500.72	2,435.69	186.69	114.35	72.35	2.581			
15,600.00	6,040.00	6,222.50	6,096.61	164.77	22.28	157.01	-8,500.77	2,439.53	276.13	210.15	65.98	4.185			
15,700.00	6,040.00	6,226.87	6,098.63	166.49	22.32	159.46	-8,500.82	2,443.40	370.96	305.26	65.70	5.646			
15,800.00	6,040.00	6,231.24	6,100.61	168.22	22.35	161.89	-8,500.87	2,447.30	467.92	401.28	66.63	7.022			
15,900.00	6,040.00	6,235.62	6,102.55	169.95	22.39	164.30	-8,500.93	2,451.22	565.91	498.21	67.70	8.359			
16,000.00	6,040.00	6,240.01	6,104.46	171.68	22.43	166.69	-8,500.98	2,455.18	664.48	595.81	68.66	9.677			
16,100.00	6,040.00	6,244.41	6,106.32	173.41	22.47	169.04	-8,501.03	2,459.16	763.40	693.89	69.51	10.983			
16,200.00	6,040.00	6,248.82	6,108.15	175.14	22.50	171.35	-8,501.08	2,463.17	862.55	792.32	70.24	12.281			
16,300.00	6,040.00	6,253.23	6,109.94	176.88	22.54	173.63	-8,501.13	2,467.20	961.87	890.99	70.87	13.572			
16,400.00	6,040.00	6,257.64	6,111.69	178.61	22.58	175.85	-8,501.18	2,471.25	1,061.29	989.86	71.44	14.857			
16,500.00	6,040.00	6,262.06	6,113.40	180.34	22.62	178.03	-8,501.23	2,475.33	1,160.81	1,088.87	71.94	16.136			
16,600.00	6,040.00	6,266.48	6,115.06	182.08	22.65	-179.84	-8,501.28	2,479.42	1,260.39	1,188.00	72.39	17.411			
16,700.00	6,040.00	6,271.41	6,116.87	183.82	22.71	-177.53	-8,501.34	2,484.01	1,360.02	1,287.16	72.85	18.668			
16,800.00	6,040.00	6,276.59	6,118.71	185.56	22.76	-175.17	-8,501.40	2,488.85	1,459.69	1,386.38	73.31	19.912			
16,865.66	6,040.00	6,280.05	6,119.90	186.70	22.80	-173.64	-8,501.44	2,492.09	1,525.14	1,451.56	73.59	20.725			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 135-MWD OWSG												Offset Well Error:		0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	117.04	-1,493.49	2,925.78	3,284.93						
100.00	100.00	81.11	81.11	0.13	0.12	117.04	-1,493.65	2,925.83	3,285.06	3,284.80	0.26	N/A			
200.00	199.98	677.67	674.23	0.49	2.27	42.43	-1,449.70	2,899.45	3,276.20	3,273.42	2.78	1,179.225			
300.00	299.84	832.41	826.51	0.86	2.96	42.54	-1,426.36	2,885.05	3,257.53	3,253.80	3.73	872.784			
400.00	399.45	1,018.57	1,008.77	1.23	3.85	42.75	-1,395.46	2,863.08	3,232.99	3,228.15	4.84	667.972			
500.00	498.70	1,160.33	1,146.73	1.63	4.56	43.08	-1,368.51	2,844.81	3,204.05	3,198.26	5.79	553.447			
600.00	597.47	1,253.51	1,237.27	2.05	5.05	43.51	-1,349.89	2,832.98	3,172.51	3,165.96	6.55	484.252			
700.00	695.62	1,364.13	1,344.52	2.51	5.63	44.02	-1,326.70	2,818.96	3,138.18	3,130.77	7.41	423.509			
800.00	793.06	1,462.82	1,440.13	3.00	6.16	44.64	-1,305.89	2,806.18	3,101.20	3,092.97	8.24	376.499			
900.00	889.64	1,590.04	1,563.22	3.54	6.85	45.39	-1,278.64	2,789.13	3,061.47	3,052.26	9.21	332.585			
1,000.00	985.27	1,000.00	2,361.72	4.13	3.01	46.22	-974.10	2,599.93	3,003.14	2,997.67	5.46	549.550			
1,100.00	1,079.82	1,100.00	2,496.12	4.77	3.15	47.09	-890.65	2,555.64	2,935.66	2,929.92	5.74	511.812			
1,200.00	1,173.17	2,810.28	2,635.66	5.46	17.20	48.15	-797.47	2,504.44	2,863.58	2,846.74	16.84	169.996			
1,300.00	1,265.23	2,880.79	2,690.82	6.21	18.00	49.46	-758.91	2,483.44	2,789.13	2,771.35	17.78	156.876			
1,400.00	1,356.75	2,944.49	2,740.55	7.00	18.74	49.33	-723.85	2,464.59	2,714.08	2,695.40	18.68	145.299			
1,500.00	1,448.28	2,989.21	2,775.57	7.80	19.25	49.25	-699.38	2,451.37	2,639.23	2,619.75	19.48	135.469			
1,600.00	1,539.81	3,022.70	2,802.15	8.60	19.63	49.19	-681.50	2,441.60	2,565.18	2,544.93	20.24	126.732			
1,700.00	1,631.34	3,063.00	2,834.61	9.41	20.09	49.14	-660.60	2,430.03	2,492.03	2,470.97	21.06	118.350			
1,800.00	1,722.86	3,116.39	2,878.15	10.23	20.67	49.11	-633.84	2,414.60	2,419.50	2,397.56	21.94	110.299			
1,900.00	1,814.39	3,178.50	2,929.29	11.05	21.34	49.11	-603.87	2,396.06	2,347.14	2,324.29	22.86	102.687			
2,000.00	1,905.92	3,237.39	2,978.11	11.87	21.97	49.15	-576.13	2,378.32	2,275.07	2,251.30	23.76	95.735			
2,100.00	1,997.45	3,288.94	3,021.14	12.69	22.52	49.19	-552.36	2,362.79	2,203.40	2,178.75	24.65	89.393			
2,200.00	2,088.97	3,345.00	3,068.39	13.52	23.10	49.28	-527.29	2,346.01	2,132.39	2,106.84	25.55	83.445			
2,300.00	2,180.50	3,388.99	3,105.80	14.35	23.55	49.37	-508.19	2,332.94	2,062.05	2,035.62	26.43	78.022			
2,400.00	2,272.03	3,441.80	3,151.09	15.17	24.08	49.50	-485.91	2,317.41	1,992.44	1,965.10	27.34	72.882			
2,500.00	2,363.56	3,537.20	3,233.15	16.00	25.03	49.82	-446.71	2,288.59	1,922.75	1,894.44	28.31	67.920			
2,600.00	2,455.08	3,703.42	3,372.73	16.83	26.79	50.29	-373.78	2,235.52	1,850.66	1,821.32	29.34	63.080			
2,700.00	2,546.61	3,785.72	3,440.15	17.66	27.70	50.48	-335.39	2,208.05	1,776.55	1,746.28	30.27	58.689			
2,800.00	2,638.14	3,842.12	3,486.30	18.50	28.33	50.62	-309.08	2,189.12	1,702.37	1,671.17	31.19	54.572			
2,900.00	2,729.67	3,888.07	3,524.34	19.33	28.84	50.78	-288.31	2,173.84	1,628.98	1,596.84	32.14	50.691			
3,000.00	2,821.19	3,929.08	3,558.71	20.16	29.27	50.95	-270.46	2,160.38	1,556.59	1,523.49	33.09	47.035			
3,100.00	2,912.72	3,966.51	3,590.64	20.99	29.65	51.16	-255.05	2,148.37	1,485.64	1,451.56	34.08	43.596			
3,200.00	3,004.25	4,003.00	3,622.28	21.83	30.02	51.42	-240.92	2,136.93	1,416.29	1,381.19	35.09	40.359			
3,300.00	3,095.78	4,053.24	3,666.41	22.66	30.49	51.82	-222.35	2,121.73	1,348.45	1,312.37	36.08	37.375			
3,400.00	3,187.30	4,097.00	3,705.23	23.50	30.89	52.21	-206.64	2,109.04	1,282.09	1,244.97	37.12	34.543			
3,500.00	3,278.83	4,140.42	3,744.25	24.33	31.26	52.64	-191.73	2,097.17	1,217.66	1,179.49	38.17	31.902			
3,600.00	3,370.36	4,191.00	3,790.46	25.16	31.68	53.20	-175.55	2,084.51	1,155.72	1,116.50	39.22	29.467			
3,700.00	3,461.89	4,227.86	3,824.61	26.00	31.94	53.67	-164.68	2,075.91	1,096.16	1,055.83	40.34	27.176			
3,800.00	3,553.41	4,285.00	3,878.26	26.83	32.36	54.52	-149.61	2,063.28	1,039.30	997.92	41.38	25.115			
3,900.00	3,644.94	4,325.65	3,916.88	27.67	32.60	55.21	-140.00	2,055.00	985.18	942.68	42.50	23.181			
4,000.00	3,736.47	4,379.00	3,968.06	28.51	32.93	56.18	-128.45	2,045.35	934.31	890.73	43.57	21.442			
4,100.00	3,828.00	4,450.63	4,037.22	29.34	33.32	57.60	-114.02	2,033.52	885.93	841.33	44.59	19.866			
4,200.00	3,919.52	4,531.64	4,115.60	30.18	33.76	59.38	-98.31	2,020.42	838.90	793.29	45.61	18.393			
4,300.00	4,011.05	4,607.85	4,189.44	31.01	34.16	61.26	-84.03	2,008.12	793.10	746.42	46.68	16.990			
4,400.00	4,102.58	4,682.39	4,261.93	31.85	34.54	63.28	-70.83	1,996.87	749.59	701.78	47.81	15.680			
4,500.00	4,194.11	4,763.00	4,340.49	32.68	34.93	65.67	-57.01	1,985.19	708.05	659.08	48.97	14.459			
4,600.00	4,285.64	4,840.25	4,415.94	33.52	35.30	68.20	-44.41	1,974.42	668.82	618.59	50.23	13.316			
4,700.00	4,377.16	4,919.03	4,493.08	34.36	35.66	71.05	-32.50	1,963.76	632.38	580.79	51.59	12.258			
4,800.00	4,468.69	5,007.00	4,579.33	35.19	36.06	74.56	-19.70	1,952.10	598.62	545.54	53.08	11.278			
4,900.00	4,560.22	5,090.84	4,661.48	36.03	36.44	78.11	-6.61	1,941.70	567.02	512.28	54.74	10.358			
5,000.00	4,651.75	5,167.92	4,737.20	36.87	36.77	81.57	5.12	1,933.31	539.22	482.63	56.59	9.529			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 135-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	4,743.27	5,244.18	4,812.45	37.70	37.07	85.08	15.85	1,927.14	516.48	457.90	58.57	8.818			
5,200.00	4,834.80	5,323.99	4,891.44	38.54	37.37	88.96	25.72	1,921.44	498.76	438.05	60.70	8.217			
5,300.00	4,926.33	5,404.00	4,970.82	39.38	37.64	93.06	34.09	1,915.88	486.32	423.39	62.93	7.728			
5,400.00	5,017.86	5,480.66	5,047.07	40.21	37.87	97.04	40.56	1,911.54	479.84	414.73	65.11	7.370			
5,458.23	5,071.15	5,527.49	5,093.77	40.70	38.01	99.40	43.70	1,909.94	478.94	412.62	66.32	7.222			
5,500.00	5,109.38	5,562.85	5,129.05	41.05	38.10	101.17	45.82	1,908.95	479.36	412.20	67.16	7.138			
5,600.00	5,200.91	5,647.53	5,213.59	41.89	38.30	105.31	50.16	1,907.04	483.73	414.71	69.02	7.009			
5,700.00	5,292.44	5,733.25	5,299.24	42.73	38.50	109.38	53.44	1,905.52	492.69	422.04	70.65	6.974			
5,800.00	5,383.97	5,819.72	5,385.66	43.56	38.68	113.33	55.95	1,904.07	505.67	433.64	72.02	7.021			
5,900.00	5,475.51	5,906.10	5,472.02	44.40	38.86	113.32	57.47	1,903.02	522.27	449.13	73.14	7.141			
6,000.00	5,567.37	5,998.70	5,564.61	45.19	39.03	94.02	58.52	1,902.01	531.31	457.17	74.13	7.167			
6,100.00	5,657.57	6,127.42	5,693.00	45.89	39.24	80.61	61.16	1,909.20	524.30	449.10	75.20	6.972			
6,200.00	5,743.38	6,299.97	5,856.41	46.48	39.36	74.59	68.79	1,960.78	493.10	417.82	75.28	6.550			
6,300.00	5,822.18	6,403.57	5,942.41	46.95	39.35	71.93	74.32	2,018.04	436.93	361.45	75.48	5.789			
6,400.00	5,891.60	6,482.24	6,001.94	47.31	39.32	74.69	73.07	2,069.37	370.75	294.93	75.83	4.890			
6,500.00	5,949.50	6,565.43	6,055.70	47.58	39.27	86.13	69.73	2,132.66	292.63	217.36	75.27	3.888			
6,600.00	5,994.15	6,620.63	6,087.75	47.76	39.24	110.59	67.97	2,177.55	208.36	135.15	73.21	2.846			
6,700.00	6,024.17	6,660.87	6,109.35	47.86	39.23	140.30	67.11	2,211.49	131.00	68.49	62.52	2.095 SF			
6,779.85	6,037.02	6,680.07	6,118.51	47.90	39.22	153.28	66.72	2,228.35	101.67	60.80	40.88	2.487 CC, ES			
6,800.00	6,038.67	6,683.00	6,119.83	47.91	39.22	154.69	66.66	2,230.96	103.84	64.46	39.38	2.637			
6,900.00	6,040.00	6,689.95	6,122.91	47.93	39.22	157.26	66.52	2,237.20	161.03	103.43	57.60	2.796			
7,000.00	6,040.00	6,695.46	6,125.26	47.98	39.22	160.41	66.41	2,242.17	247.43	180.15	67.28	3.678			
7,100.00	6,040.00	6,700.96	6,127.55	48.09	39.22	163.54	66.30	2,247.18	341.27	270.17	71.11	4.799			
7,200.00	6,040.00	6,706.48	6,129.78	48.23	39.22	166.63	66.19	2,252.23	437.80	364.78	73.02	5.996			
7,300.00	6,040.00	6,712.00	6,131.93	48.43	39.21	169.67	66.09	2,257.31	535.56	461.40	74.16	7.222			
7,400.00	6,040.00	6,717.52	6,134.02	48.67	39.21	172.65	65.98	2,262.42	633.98	559.07	74.91	8.463			
7,500.00	6,040.00	6,723.04	6,136.04	48.97	39.21	175.56	65.87	2,267.56	732.80	657.34	75.46	9.711			
7,600.00	6,040.00	6,728.56	6,137.99	49.32	39.21	178.40	65.76	2,272.72	831.87	755.99	75.88	10.963			
7,700.00	6,040.00	6,736.01	6,140.51	49.73	39.21	-177.90	65.61	2,279.72	931.12	854.84	76.28	12.207			
7,800.00	6,040.00	6,744.46	6,143.28	50.19	39.21	-173.90	65.42	2,287.71	1,030.47	953.82	76.65	13.445			
7,900.00	6,040.00	6,753.95	6,146.24	50.71	39.21	-169.67	65.19	2,296.72	1,129.90	1,052.91	77.00	14.675			
8,000.00	6,040.00	6,764.67	6,149.40	51.29	39.21	-165.22	64.89	2,306.96	1,229.39	1,152.04	77.35	15.895			
8,100.00	6,040.00	6,776.86	6,152.76	51.93	39.20	-160.56	64.51	2,318.67	1,328.90	1,251.20	77.70	17.102			
8,200.00	6,040.00	6,790.85	6,156.31	52.63	39.20	-155.74	64.02	2,332.19	1,428.44	1,350.35	78.09	18.293			
8,300.00	6,040.00	6,807.03	6,159.99	53.39	39.20	-150.76	63.39	2,347.94	1,527.97	1,449.47	78.50	19.464			
8,400.00	6,040.00	6,825.94	6,163.73	54.20	39.20	-145.65	62.56	2,366.45	1,627.50	1,548.53	78.97	20.610			
8,500.00	6,040.00	8,500.00	6,156.67	55.07	41.49	-152.90	63.49	2,340.05	1,726.88	1,639.12	87.76	19.678			
8,600.00	6,040.00	6,862.28	6,168.09	55.99	39.20	-137.26	60.81	2,402.46	1,826.49	1,746.60	79.89	22.862			
8,700.00	6,040.00	6,882.50	6,168.71	56.97	39.20	-133.16	59.77	2,422.65	1,925.96	1,845.56	80.40	23.956			
8,800.00	6,040.00	8,800.00	6,167.57	57.99	44.68	-135.14	60.31	2,411.68	2,025.39	1,932.47	92.93	21.796			
8,900.00	6,040.00	6,899.47	6,168.56	59.06	39.21	-130.02	58.87	2,439.59	2,124.90	2,044.05	80.85	26.283			
9,000.00	6,040.00	6,907.49	6,168.45	60.17	39.21	-128.66	58.45	2,447.60	2,224.40	2,143.35	81.06	27.443			
9,100.00	6,040.00	6,915.51	6,168.33	61.32	39.21	-127.37	58.03	2,455.61	2,323.92	2,242.66	81.26	28.598			
9,200.00	6,040.00	6,923.53	6,168.18	62.51	39.22	-126.15	57.60	2,463.62	2,423.45	2,341.99	81.47	29.748			
9,300.00	6,040.00	6,931.55	6,168.00	63.73	39.22	-124.98	57.18	2,471.62	2,523.00	2,441.33	81.67	30.893			
9,400.00	6,040.00	6,939.57	6,167.81	64.98	39.22	-123.87	56.76	2,479.63	2,622.55	2,540.69	81.87	32.034			
9,500.00	6,040.00	6,947.58	6,167.59	66.27	39.23	-122.82	56.34	2,487.63	2,722.12	2,640.05	82.07	33.169			
9,600.00	6,040.00	6,955.60	6,167.36	67.58	39.23	-121.81	55.91	2,495.63	2,821.70	2,739.43	82.27	34.300			
9,700.00	6,040.00	6,963.61	6,167.09	68.92	39.23	-120.86	55.49	2,503.63	2,921.28	2,838.82	82.46	35.426			
9,800.00	6,040.00	6,971.63	6,166.81	70.29	39.24	-119.94	55.07	2,511.63	3,020.87	2,938.21	82.66	36.547			
9,900.00	6,040.00	6,979.64	6,166.51	71.67	39.24	-119.07	54.65	2,519.62	3,120.47	3,037.61	82.85	37.662			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 135-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	6,040.00	6,987.65	6,166.18	73.08	39.25	-118.23	54.22	2,527.61	3,220.07	3,137.02	83.05	38.773			
10,100.00	6,040.00	6,996.53	6,165.80	74.51	39.26	-117.35	53.76	2,536.47	3,319.68	3,236.40	83.28	39.864			
10,200.00	6,040.00	7,005.68	6,165.42	75.95	39.27	-116.49	53.27	2,545.61	3,419.29	3,335.78	83.51	40.944			
10,300.00	6,040.00	7,014.94	6,165.02	77.41	39.28	-115.66	52.77	2,554.84	3,518.90	3,435.15	83.75	42.016			
10,400.00	6,040.00	7,024.30	6,164.63	78.89	39.29	-114.87	52.26	2,564.18	3,618.52	3,534.52	83.99	43.082			
10,500.00	6,040.00	7,033.78	6,164.23	80.38	39.30	-114.11	51.75	2,573.63	3,718.13	3,633.90	84.23	44.140			
10,600.00	6,040.00	7,043.36	6,163.83	81.88	39.31	-113.38	51.22	2,583.20	3,817.75	3,733.27	84.48	45.191			
10,700.00	6,040.00	7,053.06	6,163.42	83.40	39.32	-112.67	50.68	2,592.87	3,917.36	3,832.63	84.73	46.235			
10,800.00	6,040.00	7,062.87	6,163.01	84.93	39.34	-112.00	50.13	2,602.65	4,016.98	3,932.00	84.98	47.270			
10,900.00	6,040.00	7,051.00	6,163.51	86.47	39.32	-112.82	50.79	2,590.82	4,116.64	4,031.94	84.69	48.607			
11,000.00	6,040.00	7,051.00	6,163.51	88.02	39.32	-112.82	50.79	2,590.82	4,216.30	4,131.60	84.70	49.778			
11,100.00	6,040.00	7,051.00	6,163.51	89.58	39.32	-112.82	50.79	2,590.82	4,315.98	4,231.27	84.71	50.949			
11,200.00	6,040.00	7,051.00	6,163.51	91.15	39.32	-112.82	50.79	2,590.82	4,415.67	4,330.95	84.72	52.120			
11,300.00	6,040.00	7,073.51	6,162.62	92.73	39.36	-111.31	49.61	2,613.28	4,515.26	4,429.94	85.32	52.921			
11,400.00	6,040.00	7,076.84	6,162.50	94.31	39.37	-111.11	49.44	2,616.60	4,614.94	4,529.52	85.42	54.027			
11,500.00	6,040.00	7,080.08	6,162.38	95.91	39.38	-110.91	49.28	2,619.84	4,714.63	4,629.12	85.51	55.132			
11,600.00	6,040.00	7,083.26	6,162.27	97.51	39.38	-110.72	49.13	2,623.01	4,814.33	4,728.72	85.61	56.236			
11,700.00	6,040.00	7,086.36	6,162.16	99.11	39.39	-110.53	48.99	2,626.10	4,914.04	4,828.34	85.70	57.338			
11,800.00	6,040.00	7,089.39	6,162.05	100.73	39.39	-110.36	48.85	2,629.13	5,013.75	4,927.96	85.79	58.439			
11,900.00	6,040.00	7,092.36	6,161.96	102.35	39.40	-110.19	48.71	2,632.10	5,113.47	5,027.59	85.89	59.539			
12,000.00	6,040.00	7,095.26	6,161.86	103.97	39.41	-110.02	48.58	2,634.99	5,213.20	5,127.23	85.97	60.637			
12,100.00	6,040.00	7,098.10	6,161.77	105.60	39.41	-109.87	48.46	2,637.83	5,312.94	5,226.87	86.06	61.733			
12,200.00	6,040.00	7,100.89	6,161.68	107.24	39.42	-109.72	48.34	2,640.61	5,412.68	5,326.53	86.15	62.829			
12,300.00	6,040.00	7,103.61	6,161.60	108.88	39.42	-109.57	48.22	2,643.33	5,512.42	5,426.19	86.24	63.923			
12,400.00	6,040.00	7,106.28	6,161.51	110.53	39.43	-109.43	48.11	2,645.99	5,612.18	5,525.86	86.32	65.015			
12,500.00	6,040.00	7,108.89	6,161.44	112.18	39.43	-109.29	48.00	2,648.60	5,711.93	5,625.53	86.41	66.106			
12,600.00	6,040.00	7,111.45	6,161.36	113.83	39.44	-109.16	47.90	2,651.15	5,811.70	5,725.21	86.49	67.196			
12,700.00	6,040.00	7,113.95	6,161.29	115.49	39.44	-109.03	47.80	2,653.66	5,911.47	5,824.90	86.57	68.285			
12,800.00	6,040.00	7,116.41	6,161.22	117.16	39.45	-108.91	47.70	2,656.11	6,011.24	5,924.59	86.65	69.372			
12,900.00	6,040.00	7,118.82	6,161.15	118.82	39.46	-108.79	47.61	2,658.52	6,111.02	6,024.29	86.73	70.458			
13,000.00	6,040.00	7,146.00	6,160.48	120.49	39.52	-107.54	46.66	2,685.67	6,210.94	6,123.48	87.45	71.021			
13,100.00	6,040.00	7,146.00	6,160.48	122.16	39.52	-107.54	46.66	2,685.67	6,310.70	6,223.23	87.47	72.146			
13,200.00	6,040.00	7,146.00	6,160.48	123.84	39.52	-107.54	46.66	2,685.67	6,410.47	6,322.98	87.49	73.270			
13,300.00	6,040.00	7,146.00	6,160.48	125.52	39.52	-107.54	46.66	2,685.67	6,510.25	6,422.74	87.51	74.393			
13,400.00	6,040.00	7,146.00	6,160.48	127.20	39.52	-107.54	46.66	2,685.67	6,610.04	6,522.50	87.53	75.516			
13,500.00	6,040.00	7,146.00	6,160.48	128.89	39.52	-107.54	46.66	2,685.67	6,709.83	6,622.27	87.55	76.637			
13,600.00	6,040.00	7,146.00	6,160.48	130.58	39.52	-107.54	46.66	2,685.67	6,809.63	6,722.05	87.57	77.758			
13,700.00	6,040.00	7,146.00	6,160.48	132.27	39.52	-107.54	46.66	2,685.67	6,909.43	6,821.83	87.60	78.878			
13,800.00	6,040.00	7,146.00	6,160.48	133.96	39.52	-107.54	46.66	2,685.67	7,009.24	6,921.62	87.62	79.996			
13,900.00	6,040.00	2,498.00	2,384.55	135.66	13.82	-4.58	-960.72	2,592.59	7,105.30	7,035.61	69.70	101.945			
14,000.00	6,040.00	2,498.00	2,384.55	137.35	13.82	-4.58	-960.72	2,592.59	7,191.22	7,121.34	69.87	102.920			
14,100.00	6,040.00	2,461.10	2,354.16	139.05	13.46	-4.69	-979.19	2,602.44	7,277.02	7,207.03	69.99	103.965			
14,200.00	6,040.00	2,451.14	2,345.90	140.75	13.36	-4.72	-984.06	2,605.10	7,363.36	7,293.21	70.15	104.969			
14,300.00	6,040.00	2,441.37	2,337.77	142.46	13.26	-4.75	-988.80	2,607.71	7,449.97	7,379.68	70.30	105.978			
14,400.00	6,040.00	2,404.00	2,306.41	144.17	12.89	-4.86	-1,006.50	2,617.71	7,537.12	7,466.70	70.41	107.042			
14,500.00	6,040.00	2,404.00	2,306.41	145.87	12.89	-4.86	-1,006.50	2,617.71	7,624.11	7,553.55	70.57	108.043			
14,600.00	6,040.00	2,404.00	2,306.41	147.58	12.89	-4.86	-1,006.50	2,617.71	7,711.42	7,640.71	70.71	109.053			
14,700.00	6,040.00	2,404.00	2,306.41	149.29	12.89	-4.86	-1,006.50	2,617.71	7,799.04	7,728.18	70.86	110.069			
14,800.00	6,040.00	2,404.00	2,306.41	151.01	12.89	-4.86	-1,006.50	2,617.71	7,886.95	7,815.96	70.99	111.094			
14,900.00	6,040.00	2,404.00	2,306.41	152.72	12.89	-4.86	-1,006.50	2,617.71	7,975.14	7,904.02	71.13	112.125			
15,000.00	6,040.00	2,368.11	2,276.00	154.44	12.55	-4.96	-1,022.98	2,627.30	8,063.30	7,992.07	71.24	113.192			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 135-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,100.00	6,040.00	2,356.50	2,266.12	156.16	12.44	-4.99	-1,028.23	2,630.40	8,151.80	8,080.45	71.36	114.240			
15,200.00	6,040.00	2,345.08	2,256.37	157.88	12.33	-5.02	-1,033.34	2,633.44	8,240.51	8,169.03	71.48	115.292			
15,300.00	6,040.00	2,311.00	2,227.15	159.60	12.01	-5.11	-1,048.36	2,642.49	8,329.53	8,257.95	71.58	116.366			
15,400.00	6,040.00	2,311.00	2,227.15	161.32	12.01	-5.11	-1,048.36	2,642.49	8,418.52	8,346.82	71.70	117.414			
15,500.00	6,040.00	2,316.34	2,231.75	163.04	12.06	-5.10	-1,046.04	2,641.07	8,507.76	8,435.94	71.82	118.464			
15,600.00	6,040.00	2,251.78	2,176.20	164.77	11.47	-5.26	-1,074.21	2,658.07	8,597.10	8,525.19	71.91	119.547			
15,700.00	6,040.00	2,220.00	2,148.85	166.49	11.18	-5.34	-1,088.13	2,666.34	8,686.38	8,614.36	72.02	120.614			
15,800.00	6,040.00	2,220.00	2,148.85	168.22	11.18	-5.34	-1,088.13	2,666.34	8,775.85	8,703.73	72.13	121.670			
15,900.00	6,040.00	2,220.00	2,148.85	169.95	11.18	-5.34	-1,088.13	2,666.34	8,865.55	8,793.32	72.24	122.730			
16,000.00	6,040.00	2,220.00	2,148.85	171.68	11.18	-5.34	-1,088.13	2,666.34	8,955.47	8,883.13	72.34	123.796			
16,100.00	6,040.00	2,220.00	2,148.85	173.41	11.18	-5.34	-1,088.13	2,666.34	9,045.60	8,973.16	72.44	124.866			
16,200.00	6,040.00	2,220.00	2,148.85	175.14	11.18	-5.34	-1,088.13	2,666.34	9,135.93	9,063.39	72.54	125.940			
16,300.00	6,040.00	2,220.00	2,148.85	176.88	11.18	-5.34	-1,088.13	2,666.34	9,226.47	9,153.83	72.64	127.018			
16,400.00	6,040.00	2,220.00	2,148.85	178.61	11.18	-5.34	-1,088.13	2,666.34	9,317.19	9,244.46	72.73	128.099			
16,500.00	6,040.00	2,220.00	2,148.85	180.34	11.18	-5.34	-1,088.13	2,666.34	9,408.11	9,335.28	72.83	129.185			
16,600.00	6,040.00	2,220.00	2,148.85	182.08	11.18	-5.34	-1,088.13	2,666.34	9,499.21	9,426.29	72.92	130.274			
16,700.00	6,040.00	2,177.15	2,111.53	183.82	10.82	-5.45	-1,106.10	2,677.28	9,589.44	9,516.42	73.02	131.329			
16,800.00	6,040.00	2,173.47	2,108.28	185.56	10.79	-5.45	-1,107.57	2,678.20	9,680.70	9,607.59	73.11	132.418			
16,865.66	6,040.00	2,171.09	2,106.17	186.70	10.77	-5.46	-1,108.51	2,678.80	9,740.70	9,667.54	73.16	133.134			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft			
Survey Program: 780-MWD OWSG													Offset Well Error:		0.00 usft		
Reference													Semi Major Axis		Distance		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
0.00	0.00	0.00	0.00	0.00	0.00	117.28	-1,508.06	2,924.66	3,290.59								
100.00	100.00	219.55	219.49	0.13	0.47	117.25	-1,504.67	2,921.59	3,288.80	3,288.23	0.57	5,754.593					
200.00	199.98	459.44	458.86	0.49	0.99	42.93	-1,493.24	2,911.20	3,281.49	3,280.10	1.39	2,366.797					
300.00	299.84	696.49	694.46	0.86	1.50	43.12	-1,474.02	2,893.75	3,267.42	3,265.21	2.21	1,479.462					
400.00	399.45	870.33	866.45	1.23	2.07	43.43	-1,455.53	2,876.51	3,247.30	3,244.22	3.08	1,054.629					
500.00	498.70	969.76	964.68	1.63	2.50	43.83	-1,444.74	2,865.51	3,223.75	3,219.92	3.82	843.636					
600.00	597.47	2,358.00	2,242.37	2.05	12.56	44.30	-1,089.02	2,519.11	3,175.41	3,164.93	10.47	303.244					
700.00	695.62	2,387.76	2,267.42	2.51	12.87	45.42	-1,077.43	2,508.00	3,112.46	3,101.51	10.95	284.282					
800.00	793.06	2,436.28	2,308.45	3.00	13.38	46.59	-1,058.61	2,490.20	3,048.42	3,036.88	11.55	263.984					
900.00	889.64	2,491.07	2,354.96	3.54	13.95	47.87	-1,037.30	2,470.61	2,983.20	2,970.99	12.20	244.430					
1,000.00	985.27	2,549.48	2,404.59	4.13	14.55	49.26	-1,014.05	2,450.38	2,916.68	2,903.77	12.90	226.025					
1,100.00	1,079.82	2,623.19	2,467.24	4.77	15.31	50.82	-984.52	2,425.14	2,848.65	2,834.95	13.71	207.833					
1,200.00	1,173.17	2,755.72	2,579.12	5.46	16.71	52.78	-930.89	2,378.58	2,778.22	2,763.41	14.81	187.569					
1,300.00	1,265.23	2,831.17	2,642.42	6.21	17.53	54.63	-900.32	2,351.18	2,705.53	2,689.87	15.66	172.795					
1,400.00	1,356.75	2,880.46	2,683.88	7.00	18.06	54.90	-880.59	2,333.24	2,632.49	2,616.10	16.39	160.656					
1,500.00	1,448.28	2,937.35	2,731.94	7.80	18.67	55.24	-858.13	2,312.70	2,559.92	2,542.76	17.16	149.137					
1,600.00	1,539.81	3,019.86	2,801.70	8.60	19.55	55.79	-826.19	2,282.36	2,487.30	2,469.25	18.05	137.799					
1,700.00	1,631.34	3,058.55	2,834.50	9.41	19.96	56.07	-811.31	2,268.22	2,414.97	2,396.19	18.79	128.541					
1,800.00	1,722.86	3,110.00	2,878.33	10.23	20.50	56.43	-791.32	2,250.16	2,343.52	2,323.93	19.59	119.640					
1,900.00	1,814.39	3,141.64	2,905.46	11.05	20.82	56.65	-779.10	2,239.38	2,272.89	2,252.55	20.34	111.724					
2,000.00	1,905.92	3,183.41	2,941.54	11.87	21.24	56.97	-763.39	2,225.37	2,203.26	2,182.11	21.15	104.167					
2,100.00	1,997.45	3,223.53	2,976.47	12.69	21.63	57.30	-748.76	2,212.17	2,134.67	2,112.70	21.97	97.161					
2,200.00	2,088.97	3,262.15	3,010.44	13.52	22.00	57.64	-735.24	2,199.71	2,067.31	2,044.50	22.80	90.658					
2,300.00	2,180.50	3,298.00	3,042.26	14.35	22.34	57.97	-723.22	2,188.39	2,001.27	1,977.61	23.65	84.606					
2,400.00	2,272.03	3,343.66	3,083.19	15.17	22.74	58.44	-708.75	2,174.22	1,936.58	1,912.05	24.53	78.938					
2,500.00	2,363.56	3,391.00	3,126.05	16.00	23.16	58.98	-694.87	2,159.71	1,873.36	1,847.92	25.44	73.645					
2,600.00	2,455.08	3,444.29	3,174.63	16.83	23.60	59.62	-679.95	2,143.66	1,811.40	1,785.03	26.36	68.708					
2,700.00	2,546.61	3,511.53	3,236.11	17.66	24.16	60.47	-661.22	2,123.88	1,750.34	1,723.01	27.33	64.052					
2,800.00	2,638.14	3,596.68	3,313.77	18.50	24.86	61.54	-635.91	2,099.86	1,689.55	1,661.23	28.32	59.659					
2,900.00	2,729.67	3,704.69	3,411.48	19.33	25.78	62.89	-600.82	2,070.07	1,628.17	1,598.84	29.33	55.518					
3,000.00	2,821.19	3,785.91	3,484.24	20.16	26.49	63.98	-573.19	2,046.88	1,565.61	1,535.28	30.34	51.604					
3,100.00	2,912.72	3,825.29	3,519.79	20.99	26.83	64.53	-560.07	2,036.13	1,504.64	1,473.24	31.40	47.912					
3,200.00	3,004.25	3,861.00	3,552.34	21.83	27.13	65.05	-548.56	2,027.03	1,445.91	1,413.40	32.51	44.476					
3,300.00	3,095.78	3,910.33	3,597.79	22.66	27.50	65.81	-533.51	2,015.18	1,389.48	1,355.84	33.63	41.313					
3,400.00	3,187.30	3,956.00	3,640.36	23.50	27.84	66.56	-520.64	2,004.76	1,335.53	1,300.73	34.80	38.374					
3,500.00	3,278.83	3,990.93	3,673.29	24.33	28.06	67.17	-511.69	1,997.32	1,284.60	1,248.58	36.01	35.672					
3,600.00	3,370.36	4,049.00	3,728.87	25.16	28.43	68.25	-498.95	1,986.41	1,237.69	1,200.44	37.25	33.230					
3,700.00	3,461.89	4,049.00	3,728.87	26.00	28.43	68.25	-498.95	1,986.41	1,194.12	1,155.61	38.52	31.004					
3,800.00	3,553.41	4,109.92	3,788.06	26.83	28.73	69.48	-488.33	1,976.72	1,154.41	1,114.59	39.82	28.993					
3,900.00	3,644.94	4,157.28	3,834.54	27.67	28.95	70.49	-481.88	1,970.28	1,119.19	1,078.04	41.14	27.201					
4,000.00	3,736.47	4,218.16	3,894.58	28.51	29.19	71.81	-474.62	1,963.27	1,087.61	1,045.09	42.53	25.575					
4,100.00	3,828.00	4,283.96	3,959.70	29.34	29.43	73.27	-467.65	1,956.97	1,059.35	1,015.39	43.96	24.099					
4,200.00	3,919.52	4,354.60	4,029.79	30.18	29.66	74.89	-461.33	1,950.89	1,034.19	988.73	45.45	22.753					
4,300.00	4,011.05	4,431.66	4,106.37	31.01	29.91	76.74	-455.55	1,944.43	1,011.76	964.73	47.03	21.514					
4,400.00	4,102.58	4,514.33	4,188.61	31.85	30.16	78.74	-449.44	1,938.72	991.76	943.11	48.66	20.382					
4,500.00	4,194.11	4,590.11	4,264.08	32.68	30.37	80.57	-443.98	1,934.70	974.30	924.03	50.28	19.378					
4,600.00	4,285.64	4,664.23	4,337.99	33.52	30.57	82.43	-439.85	1,930.92	959.93	908.01	51.92	18.488					
4,700.00	4,377.16	4,740.78	4,414.38	34.36	30.76	84.42	-437.05	1,926.87	948.86	895.26	53.60	17.703					
4,800.00	4,468.69	4,822.65	4,496.12	35.19	30.96	86.59	-434.86	1,922.77	940.68	885.37	55.31	17.008					
4,900.00	4,560.22	4,906.85	4,580.21	36.03	31.15	88.83	-433.04	1,919.11	935.14	878.13	57.01	16.403					
5,000.00	4,651.75	4,992.41	4,665.67	36.87	31.34	91.14	-431.76	1,915.13	932.12	873.42	58.70	15.879					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 780-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CN - OWB - FINAL SURVEY															
				Semi Major Axis			Distance								
Reference		Offset		Reference	Offset	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)										
5,100.00	4,743.27	5,098.09	4,771.25	37.70	31.58	93.91	-428.97	1,911.61	930.39	869.94	60.45	15.391			
5,152.81	4,791.61	5,142.42	4,815.54	38.15	31.68	95.03	-427.43	1,910.89	930.04	868.77	61.27	15.180			
5,200.00	4,834.80	5,182.25	4,855.36	38.54	31.77	96.02	-426.15	1,910.45	930.32	868.33	61.98	15.009			
5,300.00	4,926.33	5,267.54	4,940.61	39.38	31.95	98.15	-423.85	1,909.56	932.66	869.20	63.46	14.697			
5,400.00	5,017.86	5,352.58	5,025.63	40.21	32.13	100.25	-422.09	1,909.01	937.37	872.51	64.86	14.453			
5,500.00	5,109.38	5,437.36	5,110.40	41.05	32.29	102.28	-420.88	1,909.20	944.39	878.23	66.17	14.273			
5,600.00	5,200.91	5,522.34	5,195.38	41.89	32.45	104.27	-420.27	1,909.68	953.69	886.30	67.39	14.152			
5,700.00	5,292.44	5,604.54	5,277.57	42.73	32.59	106.18	-420.34	1,909.97	965.27	896.76	68.51	14.089			
5,800.00	5,383.97	5,688.22	5,361.25	43.56	32.74	108.09	-421.27	1,909.97	979.30	909.74	69.56	14.078			
5,900.00	5,475.51	5,776.58	5,449.60	44.40	32.89	106.38	-422.69	1,910.10	995.01	924.44	70.57	14.100			
6,000.00	5,567.37	5,867.62	5,540.62	45.19	33.04	85.29	-424.30	1,909.90	1,001.18	929.64	71.54	13.995			
6,100.00	5,657.57	6,135.67	5,806.23	45.89	33.47	72.00	-414.55	1,933.15	988.80	916.02	72.78	13.586			
6,200.00	5,743.38	6,238.90	5,900.24	46.48	33.54	61.08	-403.03	1,973.56	944.71	871.20	73.51	12.852			
6,300.00	5,822.18	6,272.38	5,928.76	46.95	33.54	54.84	-401.96	1,991.03	890.28	815.84	74.44	11.959			
6,400.00	5,891.60	6,306.00	5,956.27	47.31	33.54	52.41	-403.30	2,010.29	826.87	751.70	75.17	11.000			
6,500.00	5,949.50	6,427.54	6,049.73	47.58	33.54	54.14	-409.36	2,087.66	751.42	675.63	75.79	9.914			
6,600.00	5,994.15	6,513.98	6,113.46	47.76	33.57	64.51	-408.73	2,146.03	663.27	587.17	76.11	8.715			
6,700.00	6,024.17	6,559.71	6,143.93	47.86	33.59	92.36	-407.65	2,180.07	568.57	492.27	76.29	7.452			
6,800.00	6,038.67	6,579.95	6,156.25	47.91	33.61	133.45	-407.18	2,196.12	472.27	396.05	76.22	6.196			
6,900.00	6,040.00	6,581.20	6,156.99	47.93	33.61	144.51	-407.15	2,197.13	378.99	303.31	75.68	5.008			
7,000.00	6,040.00	6,580.57	6,156.62	47.98	33.61	144.27	-407.16	2,196.62	290.57	216.59	73.98	3.928			
7,100.00	6,040.00	6,579.92	6,156.24	48.09	33.61	144.03	-407.18	2,196.10	212.67	143.98	68.69	3.096			
7,200.00	6,040.00	6,579.28	6,155.86	48.23	33.61	143.79	-407.19	2,195.58	161.32	107.00	54.31	2.970 ES, SF			
7,246.02	6,040.00	6,578.97	6,155.68	48.31	33.61	143.68	-407.20	2,195.34	154.61	108.23	46.39	3.333 CC			
7,300.00	6,040.00	6,578.62	6,155.47	48.43	33.61	143.55	-407.21	2,195.05	163.76	120.31	43.46	3.768			
7,400.00	6,040.00	6,577.96	6,155.07	48.67	33.61	143.30	-407.22	2,194.52	218.20	165.11	53.09	4.110			
7,500.00	6,040.00	6,577.29	6,154.67	48.97	33.60	143.06	-407.24	2,193.98	297.33	236.18	61.15	4.862			
7,600.00	6,040.00	6,576.61	6,154.27	49.32	33.60	142.80	-407.26	2,193.43	386.27	320.84	65.42	5.904			
7,700.00	6,040.00	6,575.92	6,153.86	49.73	33.60	142.55	-407.27	2,192.88	479.58	411.75	67.82	7.071			
7,800.00	6,040.00	6,575.22	6,153.44	50.19	33.60	142.29	-407.29	2,192.32	575.14	505.84	69.30	8.299			
7,900.00	6,040.00	6,574.52	6,153.02	50.71	33.60	142.03	-407.30	2,191.76	672.00	601.72	70.28	9.562			
8,000.00	6,040.00	6,573.81	6,152.59	51.29	33.60	141.77	-407.32	2,191.19	769.66	698.68	70.97	10.845			
8,100.00	6,040.00	6,573.08	6,152.16	51.93	33.60	141.50	-407.34	2,190.62	867.85	796.37	71.48	12.141			
8,200.00	6,040.00	6,572.35	6,151.72	52.63	33.60	141.23	-407.36	2,190.03	966.41	894.54	71.87	13.447			
8,300.00	6,040.00	6,571.61	6,151.27	53.39	33.60	140.96	-407.37	2,189.45	1,065.24	993.07	72.17	14.760			
8,400.00	6,040.00	6,570.87	6,150.82	54.20	33.60	140.68	-407.39	2,188.85	1,164.27	1,091.85	72.42	16.077			
8,500.00	6,040.00	6,570.11	6,150.35	55.07	33.60	140.40	-407.41	2,188.25	1,263.45	1,190.83	72.62	17.398			
8,600.00	6,040.00	6,569.34	6,149.89	55.99	33.60	140.11	-407.43	2,187.64	1,362.76	1,289.97	72.79	18.722			
8,700.00	6,040.00	6,568.56	6,149.41	56.97	33.60	139.83	-407.44	2,187.03	1,462.15	1,389.22	72.93	20.048			
8,800.00	6,040.00	8,800.00	6,169.67	57.99	38.28	153.17	-406.81	2,216.81	1,561.60	1,478.85	82.75	18.872			
8,900.00	6,040.00	8,900.00	6,170.13	59.06	38.61	153.49	-406.80	2,217.55	1,661.13	1,577.85	83.28	19.947			
9,000.00	6,040.00	9,000.00	6,170.59	60.17	38.94	153.81	-406.79	2,218.29	1,760.72	1,676.92	83.80	21.012			
9,100.00	6,040.00	9,100.00	6,171.05	61.32	39.28	154.13	-406.78	2,219.03	1,860.35	1,776.04	84.30	22.067			
9,200.00	6,040.00	9,200.00	6,171.51	62.51	39.62	154.45	-406.77	2,219.78	1,960.01	1,875.21	84.80	23.112			
9,300.00	6,040.00	9,300.00	6,171.97	63.73	39.97	154.77	-406.76	2,220.52	2,059.71	1,974.42	85.30	24.148			
9,400.00	6,040.00	9,400.00	6,172.43	64.98	40.32	155.09	-406.75	2,221.26	2,159.44	2,073.66	85.78	25.174			
9,500.00	6,040.00	9,500.00	6,172.89	66.27	40.68	155.41	-406.74	2,222.00	2,259.19	2,172.93	86.26	26.190			
9,600.00	6,040.00	9,600.00	6,173.36	67.58	41.04	155.72	-406.73	2,222.74	2,358.96	2,272.23	86.74	27.196			
9,700.00	6,040.00	9,700.00	6,173.82	68.92	41.41	156.04	-406.72	2,223.49	2,458.75	2,371.54	87.21	28.193			
9,800.00	6,040.00	6,652.29	6,193.32	70.29	33.68	169.93	-406.45	2,258.11	2,558.55	2,483.21	75.34	33.959			
9,900.00	6,040.00	6,653.74	6,193.93	71.67	33.69	170.42	-406.44	2,259.42	2,658.35	2,582.94	75.41	35.251			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 780-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CN - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,000.00	6,040.00	6,655.12	6,194.51	73.08	33.69	170.88	-406.43	2,260.68	2,758.16	2,682.68	75.48	36.542			
10,100.00	6,040.00	6,656.45	6,195.07	74.51	33.69	171.32	-406.43	2,261.88	2,857.99	2,782.45	75.54	37.832			
10,200.00	6,040.00	6,657.73	6,195.59	75.95	33.69	171.75	-406.42	2,263.05	2,957.83	2,882.22	75.60	39.122			
10,300.00	6,040.00	6,658.96	6,196.10	77.41	33.69	172.15	-406.41	2,264.17	3,057.67	2,982.01	75.66	40.412			
10,400.00	6,040.00	6,660.14	6,196.58	78.89	33.69	172.54	-406.40	2,265.25	3,157.53	3,081.81	75.72	41.700			
10,500.00	6,040.00	6,661.28	6,197.03	80.38	33.70	172.92	-406.39	2,266.30	3,257.39	3,181.62	75.78	42.988			
10,600.00	6,040.00	6,662.38	6,197.47	81.88	33.70	173.28	-406.39	2,267.30	3,357.27	3,281.44	75.83	44.274			
10,700.00	6,040.00	6,663.44	6,197.89	83.40	33.70	173.63	-406.38	2,268.28	3,457.14	3,381.26	75.88	45.560			
10,800.00	6,040.00	6,664.46	6,198.30	84.93	33.70	173.96	-406.37	2,269.22	3,557.03	3,481.10	75.93	46.846			
10,900.00	6,040.00	6,665.45	6,198.68	86.47	33.70	174.28	-406.36	2,270.12	3,656.92	3,580.94	75.98	48.130			
11,000.00	6,040.00	6,666.40	6,199.05	88.02	33.70	174.59	-406.35	2,271.00	3,756.82	3,680.79	76.03	49.413			
11,100.00	6,040.00	6,667.33	6,199.41	89.58	33.70	174.89	-406.35	2,271.86	3,856.72	3,780.64	76.08	50.696			
11,200.00	6,040.00	6,668.22	6,199.75	91.15	33.70	175.18	-406.34	2,272.68	3,956.63	3,880.50	76.12	51.978			
11,300.00	6,040.00	6,669.08	6,200.08	92.73	33.71	175.46	-406.33	2,273.48	4,056.54	3,980.37	76.17	53.258			
11,400.00	6,040.00	6,669.92	6,200.39	94.31	33.71	175.72	-406.32	2,274.25	4,156.45	4,080.24	76.21	54.538			
11,500.00	6,040.00	6,670.73	6,200.70	95.91	33.71	175.98	-406.32	2,275.00	4,256.37	4,180.11	76.26	55.817			
11,600.00	6,040.00	6,671.52	6,200.99	97.51	33.71	176.24	-406.31	2,275.73	4,356.29	4,279.99	76.30	57.094			
11,700.00	6,040.00	6,672.28	6,201.28	99.11	33.71	176.48	-406.30	2,276.44	4,456.22	4,379.87	76.34	58.371			
11,800.00	6,040.00	6,673.02	6,201.55	100.73	33.71	176.71	-406.29	2,277.13	4,556.14	4,479.76	76.39	59.646			
11,900.00	6,040.00	6,673.73	6,201.81	102.35	33.71	176.94	-406.28	2,277.79	4,656.08	4,579.65	76.43	60.921			
12,000.00	6,040.00	6,681.00	6,204.41	103.97	33.72	179.23	-406.20	2,284.58	4,756.02	4,679.42	76.59	62.095			
12,100.00	6,040.00	6,681.00	6,204.41	105.60	33.72	179.23	-406.20	2,284.58	4,855.95	4,779.33	76.62	63.376			
12,200.00	6,040.00	6,681.00	6,204.41	107.24	33.72	179.23	-406.20	2,284.58	4,955.89	4,879.24	76.65	64.656			
12,300.00	6,040.00	6,681.00	6,204.41	108.88	33.72	179.23	-406.20	2,284.58	5,055.83	4,979.15	76.68	65.935			
12,400.00	6,040.00	6,681.00	6,204.41	110.53	33.72	179.23	-406.20	2,284.58	5,155.77	5,079.06	76.71	67.212			
12,500.00	6,040.00	6,681.00	6,204.41	112.18	33.72	179.23	-406.20	2,284.58	5,255.72	5,178.98	76.74	68.489			
12,600.00	6,040.00	6,681.00	6,204.41	113.83	33.72	179.23	-406.20	2,284.58	5,355.66	5,278.89	76.77	69.764			
12,700.00	6,040.00	6,681.00	6,204.41	115.49	33.72	179.23	-406.20	2,284.58	5,455.61	5,378.81	76.80	71.038			
12,800.00	6,040.00	6,681.00	6,204.41	117.16	33.72	179.23	-406.20	2,284.58	5,555.56	5,478.73	76.83	72.311			
12,900.00	6,040.00	6,681.00	6,204.41	118.82	33.72	179.23	-406.20	2,284.58	5,655.51	5,578.65	76.86	73.583			
13,000.00	6,040.00	6,681.00	6,204.41	120.49	33.72	179.23	-406.20	2,284.58	5,755.47	5,678.58	76.89	74.853			
13,100.00	6,040.00	6,681.00	6,204.41	122.16	33.72	179.23	-406.20	2,284.58	5,855.42	5,778.50	76.92	76.122			
13,200.00	6,040.00	6,681.00	6,204.41	123.84	33.72	179.23	-406.20	2,284.58	5,955.38	5,878.43	76.95	77.390			
13,300.00	6,040.00	6,681.00	6,204.41	125.52	33.72	179.23	-406.20	2,284.58	6,055.34	5,978.35	76.98	78.657			
13,400.00	6,040.00	6,681.00	6,204.41	127.20	33.72	179.23	-406.20	2,284.58	6,155.30	6,078.28	77.02	79.922			
13,500.00	6,040.00	6,681.00	6,204.41	128.89	33.72	179.23	-406.20	2,284.58	6,255.26	6,178.21	77.05	81.186			
13,600.00	6,040.00	6,681.00	6,204.41	130.58	33.72	179.23	-406.20	2,284.58	6,355.22	6,278.14	77.08	82.448			
13,700.00	6,040.00	6,681.00	6,204.41	132.27	33.72	179.23	-406.20	2,284.58	6,455.18	6,378.07	77.11	83.709			
13,800.00	6,040.00	6,681.00	6,204.41	133.96	33.72	179.23	-406.20	2,284.58	6,555.15	6,478.00	77.15	84.969			
13,900.00	6,040.00	6,681.00	6,204.41	135.66	33.72	179.23	-406.20	2,284.58	6,655.11	6,577.93	77.18	86.228			
14,000.00	6,040.00	6,681.00	6,204.41	137.35	33.72	179.23	-406.20	2,284.58	6,755.08	6,677.87	77.21	87.484			
14,100.00	6,040.00	6,681.00	6,204.41	139.05	33.72	179.23	-406.20	2,284.58	6,855.05	6,777.80	77.25	88.740			
14,200.00	6,040.00	6,681.00	6,204.41	140.75	33.72	179.23	-406.20	2,284.58	6,955.02	6,877.73	77.28	89.994			
14,300.00	6,040.00	6,681.00	6,204.41	142.46	33.72	179.23	-406.20	2,284.58	7,054.99	6,977.67	77.32	91.246			
14,400.00	6,040.00	6,681.00	6,204.41	144.17	33.72	179.23	-406.20	2,284.58	7,154.96	7,077.60	77.35	92.497			
14,500.00	6,040.00	6,681.00	6,204.41	145.87	33.72	179.23	-406.20	2,284.58	7,254.93	7,177.54	77.39	93.747			
14,600.00	6,040.00	6,681.00	6,204.41	147.58	33.72	179.23	-406.20	2,284.58	7,354.90	7,277.48	77.42	94.994			
14,700.00	6,040.00	6,681.00	6,204.41	149.29	33.72	179.23	-406.20	2,284.58	7,454.87	7,377.41	77.46	96.241			
14,800.00	6,040.00	6,681.00	6,204.41	151.01	33.72	179.23	-406.20	2,284.58	7,554.85	7,477.35	77.50	97.485			
14,900.00	6,040.00	6,681.00	6,204.41	152.72	33.72	179.23	-406.20	2,284.58	7,654.82	7,577.29	77.53	98.729			
15,000.00	6,040.00	6,681.00	6,204.41	154.44	33.72	179.23	-406.20	2,284.58	7,754.79	7,677.22	77.57	99.970			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft				
Survey Program: 780-MWD OWSG												Offset Well Error:		0.00 usft			
Reference				Offset				Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
15,100.00	6,040.00	6,681.00	6,204.41	156.16	33.72	179.23	-406.20	2,284.58	7,854.77	7,777.16	77.61	101.210					
15,200.00	6,040.00	6,681.00	6,204.41	157.88	33.72	179.23	-406.20	2,284.58	7,954.75	7,877.10	77.65	102.448					
15,300.00	6,040.00	6,681.00	6,204.41	159.60	33.72	179.23	-406.20	2,284.58	8,054.72	7,977.04	77.68	103.685					
15,400.00	6,040.00	6,681.00	6,204.41	161.32	33.72	179.23	-406.20	2,284.58	8,154.70	8,076.98	77.72	104.919					
15,500.00	6,040.00	6,681.00	6,204.41	163.04	33.72	179.23	-406.20	2,284.58	8,254.68	8,176.92	77.76	106.153					
15,600.00	6,040.00	6,681.00	6,204.41	164.77	33.72	179.23	-406.20	2,284.58	8,354.66	8,276.85	77.80	107.384					
15,700.00	6,040.00	6,681.00	6,204.41	166.49	33.72	179.23	-406.20	2,284.58	8,454.63	8,376.79	77.84	108.614					
15,800.00	6,040.00	6,681.00	6,204.41	168.22	33.72	179.23	-406.20	2,284.58	8,554.61	8,476.73	77.88	109.842					
15,900.00	6,040.00	6,681.00	6,204.41	169.95	33.72	179.23	-406.20	2,284.58	8,654.59	8,576.67	77.92	111.068					
16,000.00	6,040.00	6,681.00	6,204.41	171.68	33.72	179.23	-406.20	2,284.58	8,754.57	8,676.61	77.96	112.292					
16,100.00	6,040.00	6,681.00	6,204.41	173.41	33.72	179.23	-406.20	2,284.58	8,854.55	8,776.55	78.00	113.515					
16,200.00	6,040.00	6,681.00	6,204.41	175.14	33.72	179.23	-406.20	2,284.58	8,954.54	8,876.49	78.04	114.736					
16,300.00	6,040.00	6,681.00	6,204.41	176.88	33.72	179.23	-406.20	2,284.58	9,054.52	8,976.43	78.09	115.955					
16,400.00	6,040.00	6,681.00	6,204.41	178.61	33.72	179.23	-406.20	2,284.58	9,154.50	9,076.37	78.13	117.172					
16,500.00	6,040.00	6,681.00	6,204.41	180.34	33.72	179.23	-406.20	2,284.58	9,254.48	9,176.31	78.17	118.387					
16,600.00	6,040.00	6,681.00	6,204.41	182.08	33.72	179.23	-406.20	2,284.58	9,354.46	9,276.25	78.21	119.601					
16,700.00	6,040.00	6,681.00	6,204.41	183.82	33.72	179.23	-406.20	2,284.58	9,454.45	9,376.19	78.26	120.813					
16,800.00	6,040.00	6,681.00	6,204.41	185.56	33.72	179.23	-406.20	2,284.58	9,554.43	9,476.13	78.30	122.022					
16,865.66	6,040.00	6,681.00	6,204.41	186.70	33.72	179.23	-406.20	2,284.58	9,620.08	9,541.75	78.33	122.816					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 759-MWD OWSG												Offset Well Error:	0.00 usft	
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CS - OWB - FINAL SURVEY														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	117.52	-1,523.36	2,923.27	3,296.40					
100.00	100.00	264.97	264.85	0.13	0.58	117.52	-1,519.93	2,917.18	3,293.98	3,293.31	0.67	4,943.312		
200.00	199.98	553.63	552.51	0.49	1.21	43.33	-1,508.38	2,896.70	3,284.57	3,283.00	1.57	2,094.484		
300.00	299.84	836.74	832.87	0.86	1.82	43.73	-1,489.17	2,862.65	3,267.00	3,264.52	2.48	1,319.522		
400.00	399.45	1,312.71	1,297.01	1.23	4.44	44.75	-1,444.28	2,770.48	3,242.20	3,237.30	4.90	661.375		
500.00	498.70	1,461.11	1,438.92	1.63	5.34	45.57	-1,424.05	2,732.12	3,204.48	3,198.63	5.84	548.315		
600.00	597.47	1,508.57	1,484.34	2.05	5.64	46.31	-1,418.00	2,719.77	3,165.03	3,158.65	6.38	495.823		
700.00	695.62	2,171.00	2,097.60	2.51	10.62	49.03	-1,291.95	2,507.97	3,113.63	3,104.13	9.50	327.612		
800.00	793.06	2,343.58	2,250.18	3.00	12.23	50.87	-1,250.99	2,438.56	3,053.80	3,043.20	10.60	288.142		
900.00	889.64	2,394.65	2,295.00	3.54	12.71	52.36	-1,237.30	2,418.26	2,991.39	2,980.19	11.21	266.942		
1,000.00	985.27	2,447.00	2,341.24	4.13	13.21	53.96	-1,223.51	2,397.95	2,928.23	2,916.38	11.85	247.088		
1,100.00	1,079.82	1,100.00	2,419.80	4.77	1.81	55.95	-1,199.64	2,363.26	2,863.35	2,857.74	5.61	510.714		
1,200.00	1,173.17	2,592.53	2,469.45	5.46	14.59	57.88	-1,184.56	2,341.16	2,797.10	2,783.69	13.41	208.660		
1,300.00	1,265.23	2,635.00	2,507.12	6.21	14.99	59.64	-1,173.80	2,324.78	2,730.56	2,716.43	14.14	193.171		
1,400.00	1,356.75	2,754.80	2,612.93	7.00	16.14	60.95	-1,143.26	2,277.63	2,663.12	2,647.97	15.15	175.726		
1,500.00	1,448.28	2,808.19	2,659.98	7.80	16.65	61.57	-1,129.72	2,256.33	2,595.83	2,579.86	15.98	162.492		
1,600.00	1,539.81	2,850.91	2,697.76	8.60	17.06	62.09	-1,119.17	2,239.42	2,529.37	2,512.57	16.79	150.626		
1,700.00	1,631.34	2,890.22	2,732.74	9.41	17.42	62.58	-1,109.71	2,224.19	2,464.07	2,446.43	17.63	139.750		
1,800.00	1,722.86	2,917.00	2,756.70	10.23	17.68	62.92	-1,103.40	2,214.01	2,400.07	2,381.60	18.47	129.944		
1,900.00	1,814.39	2,948.98	2,785.54	11.05	17.95	63.33	-1,096.15	2,202.26	2,337.70	2,318.35	19.35	120.792		
2,000.00	1,905.92	2,973.99	2,808.34	11.87	18.16	63.66	-1,090.78	2,193.51	2,277.28	2,257.03	20.25	112.440		
2,100.00	1,997.45	3,011.00	2,842.46	12.69	18.47	64.16	-1,083.32	2,181.26	2,218.97	2,197.75	21.22	104.574		
2,200.00	2,088.97	3,032.46	2,862.41	13.52	18.63	64.45	-1,079.22	2,174.49	2,162.58	2,140.41	22.18	97.519		
2,300.00	2,180.50	3,070.23	2,897.71	14.35	18.91	64.97	-1,072.26	2,163.00	2,108.22	2,085.01	23.21	90.848		
2,400.00	2,272.03	3,105.00	2,930.41	15.17	19.16	65.46	-1,066.15	2,152.90	2,055.87	2,031.61	24.26	84.733		
2,500.00	2,363.56	3,145.15	2,968.43	16.00	19.43	66.03	-1,059.55	2,141.81	2,005.69	1,980.33	25.36	79.087		
2,600.00	2,455.08	3,199.00	3,019.85	16.83	19.78	66.82	-1,051.62	2,127.91	1,958.01	1,931.48	26.53	73.817		
2,700.00	2,546.61	3,222.15	3,042.09	17.66	19.91	67.16	-1,048.51	2,122.30	1,912.49	1,884.84	27.65	69.180		
2,800.00	2,638.14	3,263.82	3,082.31	18.50	20.15	67.79	-1,043.26	2,112.75	1,869.61	1,840.77	28.84	64.834		
2,900.00	2,729.67	3,318.11	3,134.99	19.33	20.45	68.61	-1,037.06	2,101.22	1,829.23	1,799.14	30.09	60.791		
3,000.00	2,821.19	3,405.59	3,219.89	20.16	20.93	70.02	-1,028.12	2,082.12	1,790.27	1,758.80	31.47	56.885		
3,100.00	2,912.72	3,539.66	3,349.34	20.99	21.69	72.29	-1,012.97	2,050.70	1,750.74	1,717.72	33.01	53.029		
3,200.00	3,004.25	3,639.47	3,445.19	21.83	22.30	74.06	-999.98	2,026.09	1,710.64	1,676.13	34.51	49.570		
3,300.00	3,095.78	3,705.88	3,508.86	22.66	22.70	75.30	-991.52	2,009.21	1,671.59	1,635.61	35.98	46.458		
3,400.00	3,187.30	3,763.32	3,564.23	23.50	23.04	76.37	-984.19	1,995.82	1,634.90	1,597.44	37.46	43.642		
3,500.00	3,278.83	3,835.58	3,634.17	24.33	23.44	77.72	-974.85	1,980.24	1,600.32	1,561.34	38.98	41.052		
3,600.00	3,370.36	3,856.00	3,653.97	25.16	23.56	78.10	-972.17	1,976.01	1,568.54	1,528.12	40.42	38.803		
3,700.00	3,461.89	3,913.58	3,710.15	26.00	23.83	79.19	-965.83	1,965.12	1,539.81	1,497.87	41.94	36.715		
3,800.00	3,553.41	3,951.00	3,746.96	26.83	24.01	79.90	-963.04	1,959.04	1,515.72	1,472.31	43.41	34.920		
3,900.00	3,644.94	4,016.60	3,811.84	27.67	24.26	81.10	-958.59	1,950.51	1,495.06	1,450.15	44.91	33.291		
4,000.00	3,736.47	4,071.56	3,866.41	28.51	24.45	82.06	-954.42	1,945.48	1,476.95	1,430.61	46.35	31.869		
4,100.00	3,828.00	4,115.85	3,910.53	29.34	24.58	82.82	-952.07	1,942.39	1,462.67	1,414.96	47.71	30.656		
4,200.00	3,919.52	4,167.00	3,961.59	30.18	24.72	83.69	-950.59	1,939.85	1,452.29	1,403.24	49.05	29.608		
4,300.00	4,011.05	4,232.00	4,026.57	31.01	24.87	84.75	-949.56	1,938.54	1,445.27	1,394.88	50.39	28.683		
4,400.00	4,102.58	4,309.90	4,104.47	31.85	25.02	86.00	-948.92	1,938.30	1,440.66	1,388.94	51.72	27.853		
4,500.00	4,194.11	4,399.14	4,193.70	32.68	25.20	87.42	-948.33	1,938.21	1,437.42	1,384.34	53.08	27.080		
4,600.00	4,285.64	4,483.00	4,277.56	33.52	25.35	88.76	-947.92	1,938.48	1,435.55	1,381.17	54.39	26.395		
4,700.00	4,377.16	4,596.18	4,390.73	34.36	25.57	90.54	-947.14	1,939.20	1,434.77	1,379.00	55.77	25.725		
4,776.47	4,447.15	4,659.21	4,453.76	35.00	25.70	91.54	-946.09	1,939.45	1,434.16	1,377.42	56.74	25.275		
4,800.00	4,468.69	4,676.84	4,471.39	35.19	25.73	91.82	-945.92	1,939.46	1,434.22	1,377.19	57.03	25.148		
4,900.00	4,560.22	4,750.78	4,545.33	36.03	25.88	93.01	-945.79	1,939.30	1,435.85	1,377.61	58.24	24.655		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 759-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
5,000.00	4,651.75	4,827.09	4,621.63	36.87	26.03	94.24	-946.59	1,939.28	1,439.72	1,380.31	59.41	24.233						
5,100.00	4,743.27	4,907.18	4,701.70	37.70	26.17	95.54	-948.11	1,939.12	1,445.49	1,384.93	60.56	23.868						
5,200.00	4,834.80	4,984.23	4,778.72	38.54	26.31	96.78	-950.28	1,938.99	1,453.20	1,391.55	61.66	23.568						
5,300.00	4,926.33	5,079.65	4,874.10	39.38	26.49	98.30	-953.27	1,938.95	1,462.36	1,399.54	62.81	23.280						
5,400.00	5,017.86	5,189.89	4,984.30	40.21	26.70	100.04	-955.87	1,938.61	1,471.87	1,407.85	64.01	22.993						
5,500.00	5,109.38	5,283.25	5,077.65	41.05	26.88	101.48	-957.47	1,938.50	1,481.89	1,416.80	65.09	22.766						
5,600.00	5,200.91	5,382.85	5,177.24	41.89	27.08	102.98	-958.76	1,939.19	1,492.60	1,426.44	66.16	22.560						
5,700.00	5,292.44	5,485.71	5,280.09	42.73	27.28	104.48	-959.27	1,940.48	1,503.55	1,436.34	67.21	22.372						
5,800.00	5,383.97	5,584.55	5,378.92	43.56	27.49	105.91	-959.41	1,941.81	1,515.13	1,446.93	68.21	22.214						
5,900.00	5,475.51	5,685.59	5,479.95	44.40	27.71	103.69	-958.70	1,943.02	1,526.60	1,457.42	69.19	22.064						
6,000.00	5,567.37	6,000.00	5,602.74	45.19	28.37	82.32	-956.48	1,946.59	1,526.57	1,455.95	70.62	21.617						
6,100.00	5,657.57	5,993.48	5,783.42	45.89	28.22	65.12	-946.04	1,981.19	1,503.95	1,432.75	71.21	21.121						
6,200.00	5,743.38	6,069.34	5,853.94	46.48	28.28	53.05	-942.19	2,008.84	1,465.11	1,393.11	72.00	20.350						
6,300.00	5,822.18	6,256.91	6,013.52	46.95	28.40	45.39	-931.98	2,104.71	1,409.73	1,336.99	72.73	19.382						
6,400.00	5,891.60	6,301.00	6,043.30	47.31	28.44	41.05	-929.08	2,137.05	1,337.54	1,264.06	73.48	18.204						
6,500.00	5,949.50	6,343.38	6,068.27	47.58	28.51	39.11	-927.43	2,171.22	1,255.51	1,181.37	74.14	16.934						
6,600.00	5,994.15	6,363.90	6,079.14	47.76	28.54	40.83	-927.33	2,188.62	1,166.18	1,091.55	74.63	15.626						
6,700.00	6,024.17	6,396.00	6,094.45	47.86	28.59	48.59	-928.07	2,216.82	1,071.46	996.47	74.99	14.288						
6,800.00	6,038.67	6,396.00	6,094.45	47.91	28.59	90.77	-928.07	2,216.82	972.84	897.63	75.21	12.935						
6,900.00	6,040.00	6,396.00	6,094.45	47.93	28.59	127.53	-928.07	2,216.82	873.47	798.12	75.35	11.592						
7,000.00	6,040.00	6,396.00	6,094.45	47.98	28.59	127.53	-928.07	2,216.82	774.27	698.76	75.51	10.254						
7,100.00	6,040.00	6,399.78	6,096.12	48.09	28.61	129.43	-928.23	2,220.21	675.30	599.61	75.69	8.922						
7,200.00	6,040.00	6,405.42	6,098.55	48.23	28.62	132.35	-928.48	2,225.29	576.62	500.76	75.87	7.601						
7,300.00	6,040.00	6,411.63	6,101.17	48.43	28.64	135.70	-928.77	2,230.92	478.41	402.39	76.02	6.293						
7,400.00	6,040.00	6,418.51	6,103.99	48.67	28.66	139.56	-929.11	2,237.18	381.02	304.93	76.09	5.008						
7,500.00	6,040.00	6,426.15	6,107.02	48.97	28.69	144.01	-929.53	2,244.18	285.24	209.47	75.77	3.764						
7,600.00	6,040.00	6,434.70	6,110.29	49.32	28.71	149.17	-930.03	2,252.07	193.45	119.61	73.83	2.620						
7,700.00	6,040.00	6,444.32	6,113.80	49.73	28.74	155.12	-930.64	2,261.00	115.46	52.87	62.59	1.845 SF						
7,771.56	6,040.00	6,451.97	6,116.47	50.05	28.77	159.92	-931.15	2,268.15	90.89	51.85	39.04	2.328 CC, ES						
7,800.00	6,040.00	6,455.21	6,117.56	50.19	28.78	161.95	-931.38	2,271.19	95.20	57.14	38.06	2.501						
7,900.00	6,040.00	6,467.63	6,121.59	50.71	28.82	169.67	-932.31	2,282.90	156.76	96.29	60.47	2.592						
8,000.00	6,040.00	6,481.91	6,125.86	51.29	28.86	178.22	-933.47	2,296.47	244.58	175.66	68.92	3.549						
8,100.00	6,040.00	6,498.46	6,130.33	51.93	28.92	-172.61	-934.94	2,312.34	338.72	266.41	72.32	4.684						
8,200.00	6,040.00	6,508.98	6,133.04	52.63	28.98	-167.30	-935.87	2,322.47	435.18	361.24	73.93	5.886						
8,300.00	6,040.00	6,521.83	6,136.14	53.39	29.05	-161.39	-937.02	2,334.89	532.66	457.65	75.00	7.102						
8,400.00	6,040.00	6,534.77	6,139.08	54.20	29.11	-156.09	-938.18	2,347.43	630.69	554.92	75.77	8.323						
8,500.00	6,040.00	6,547.80	6,141.85	55.07	29.18	-151.34	-939.36	2,360.11	729.06	652.68	76.39	9.544						
8,600.00	6,040.00	6,560.91	6,144.44	55.99	29.24	-147.11	-940.55	2,372.91	827.65	750.74	76.91	10.762						
8,700.00	6,040.00	6,574.10	6,146.85	56.97	29.31	-143.33	-941.75	2,385.82	926.37	849.00	77.37	11.974						
8,800.00	6,040.00	6,587.36	6,149.07	57.99	29.38	-139.95	-942.95	2,398.84	1,025.19	947.41	77.79	13.179						
8,900.00	6,040.00	6,600.69	6,151.10	59.06	29.44	-136.91	-944.17	2,411.95	1,124.09	1,045.91	78.18	14.378						
9,000.00	6,040.00	6,601.32	6,151.20	60.17	29.47	-136.78	-944.15	2,412.58	1,223.17	1,144.95	78.23	15.637						
9,100.00	6,040.00	6,608.21	6,152.18	61.32	29.52	-135.34	-944.71	2,419.38	1,322.30	1,243.88	78.42	16.862						
9,200.00	6,040.00	6,614.68	6,153.05	62.51	29.56	-134.06	-945.21	2,425.77	1,421.51	1,342.91	78.60	18.086						
9,300.00	6,040.00	6,620.76	6,153.83	63.73	29.60	-132.91	-945.67	2,431.78	1,520.77	1,442.01	78.76	19.309						
9,400.00	6,040.00	6,626.48	6,154.53	64.98	29.64	-131.88	-946.08	2,437.45	1,620.09	1,541.19	78.90	20.532						
9,500.00	6,040.00	6,631.88	6,155.16	66.27	29.68	-130.94	-946.45	2,442.80	1,719.46	1,640.42	79.04	21.754						
9,600.00	6,040.00	6,636.99	6,155.72	67.58	29.71	-130.08	-946.79	2,447.86	1,818.88	1,739.71	79.16	22.976						
9,700.00	6,040.00	6,641.81	6,156.22	68.92	29.75	-129.30	-947.09	2,452.65	1,918.33	1,839.05	79.28	24.196						
9,800.00	6,040.00	6,646.38	6,156.68	70.29	29.78	-128.59	-947.37	2,457.19	2,017.81	1,938.42	79.39	25.416						
9,900.00	6,040.00	6,650.72	6,157.09	71.67	29.81	-127.93	-947.63	2,461.50	2,117.33	2,037.83	79.49	26.635						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 759-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CS - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
10,000.00	6,040.00	6,654.84	6,157.47	73.08	29.84	-127.32	-947.87	2,465.60	2,216.87	2,137.28	79.59	27.853				
10,100.00	6,040.00	6,677.00	6,159.16	74.51	29.99	-124.29	-948.99	2,487.66	2,316.59	2,236.41	80.18	28.894				
10,200.00	6,040.00	6,677.00	6,159.16	75.95	29.99	-124.29	-948.99	2,487.66	2,416.12	2,335.96	80.16	30.141				
10,300.00	6,040.00	6,677.00	6,159.16	77.41	29.99	-124.29	-948.99	2,487.66	2,515.70	2,435.55	80.15	31.389				
10,400.00	6,040.00	6,677.00	6,159.16	78.89	29.99	-124.29	-948.99	2,487.66	2,615.30	2,535.17	80.13	32.636				
10,500.00	6,040.00	6,677.00	6,159.16	80.38	29.99	-124.29	-948.99	2,487.66	2,714.94	2,634.82	80.12	33.884				
10,600.00	6,040.00	6,677.00	6,159.16	81.88	29.99	-124.29	-948.99	2,487.66	2,814.60	2,734.49	80.12	35.132				
10,700.00	6,040.00	6,682.32	6,159.50	83.40	30.03	-123.62	-949.23	2,492.96	2,914.28	2,834.02	80.26	36.311				
10,800.00	6,040.00	6,691.30	6,160.06	84.93	30.11	-122.55	-949.64	2,501.91	3,013.97	2,933.46	80.50	37.440				
10,900.00	6,040.00	6,700.43	6,160.61	86.47	30.19	-121.52	-950.06	2,511.02	3,113.65	3,032.90	80.75	38.560				
11,000.00	6,040.00	6,709.73	6,161.14	88.02	30.27	-120.54	-950.49	2,520.29	3,213.33	3,132.33	81.00	39.671				
11,100.00	6,040.00	6,719.18	6,161.66	89.58	30.35	-119.60	-950.94	2,529.72	3,313.01	3,231.76	81.25	40.773				
11,200.00	6,040.00	6,728.81	6,162.16	91.15	30.43	-118.70	-951.40	2,539.33	3,412.69	3,331.18	81.51	41.867				
11,300.00	6,040.00	6,738.62	6,162.65	92.73	30.52	-117.83	-951.88	2,549.11	3,512.37	3,430.60	81.78	42.951				
11,400.00	6,040.00	6,748.60	6,163.12	94.31	30.60	-117.00	-952.38	2,559.06	3,612.05	3,530.00	82.05	44.025				
11,500.00	6,040.00	6,758.76	6,163.58	95.91	30.69	-116.20	-952.88	2,569.21	3,711.72	3,629.41	82.32	45.090				
11,600.00	6,040.00	6,769.11	6,164.01	97.51	30.79	-115.43	-953.41	2,579.54	3,811.39	3,728.80	82.60	46.146				
11,700.00	6,040.00	6,779.66	6,164.42	99.11	30.88	-114.69	-953.95	2,590.06	3,911.06	3,828.18	82.88	47.191				
11,800.00	6,040.00	11,800.00	6,164.07	100.73	82.73	-115.33	-953.48	2,580.89	4,010.76	3,875.68	135.08	29.691				
11,900.00	6,040.00	11,900.00	6,164.45	102.35	83.78	-114.84	-953.82	2,588.05	4,110.46	3,974.21	136.25	30.169				
12,000.00	6,040.00	6,787.27	6,164.68	103.97	30.97	-114.17	-954.31	2,597.66	4,210.13	4,127.02	83.11	50.656				
12,100.00	6,040.00	6,791.46	6,164.82	105.60	31.02	-113.90	-954.51	2,601.84	4,309.83	4,226.60	83.23	51.780				
12,200.00	6,040.00	6,795.56	6,164.95	107.24	31.06	-113.63	-954.70	2,605.93	4,409.54	4,326.19	83.35	52.903				
12,300.00	6,040.00	6,799.58	6,165.06	108.88	31.10	-113.38	-954.89	2,609.95	4,509.26	4,425.79	83.47	54.023				
12,400.00	6,040.00	6,803.52	6,165.17	110.53	31.14	-113.13	-955.07	2,613.88	4,608.98	4,525.40	83.59	55.141				
12,500.00	6,040.00	6,807.38	6,165.27	112.18	31.18	-112.90	-955.24	2,617.73	4,708.71	4,625.01	83.70	56.257				
12,600.00	6,040.00	6,811.16	6,165.36	113.83	31.22	-112.67	-955.41	2,621.51	4,808.45	4,724.63	83.81	57.372				
12,700.00	6,040.00	6,814.87	6,165.45	115.49	31.26	-112.45	-955.57	2,625.22	4,908.19	4,824.26	83.92	58.484				
12,800.00	6,040.00	6,818.51	6,165.53	117.16	31.30	-112.24	-955.73	2,628.85	5,007.93	4,923.90	84.03	59.595				
12,900.00	6,040.00	6,822.08	6,165.60	118.82	31.34	-112.03	-955.88	2,632.42	5,107.68	5,023.54	84.14	60.703				
13,000.00	6,040.00	6,825.58	6,165.66	120.49	31.38	-111.83	-956.02	2,635.92	5,207.44	5,123.19	84.25	61.810				
13,100.00	6,040.00	6,829.02	6,165.72	122.16	31.41	-111.64	-956.16	2,639.35	5,307.20	5,222.84	84.35	62.915				
13,200.00	6,040.00	6,832.39	6,165.78	123.84	31.45	-111.46	-956.30	2,642.72	5,406.96	5,322.50	84.46	64.019				
13,300.00	6,040.00	6,835.70	6,165.82	125.52	31.49	-111.28	-956.43	2,646.03	5,506.73	5,422.17	84.56	65.120				
13,400.00	6,040.00	6,838.95	6,165.87	127.20	31.52	-111.10	-956.56	2,649.27	5,606.51	5,521.84	84.66	66.220				
13,500.00	6,040.00	6,842.14	6,165.90	128.89	31.55	-110.93	-956.68	2,652.46	5,706.29	5,621.52	84.77	67.318				
13,600.00	6,040.00	6,845.27	6,165.94	130.58	31.59	-110.77	-956.80	2,655.59	5,806.07	5,721.20	84.87	68.414				
13,700.00	6,040.00	6,865.00	6,166.05	132.27	31.80	-109.78	-957.51	2,675.31	5,905.91	5,820.48	85.43	69.134				
13,800.00	6,040.00	6,865.00	6,166.05	133.96	31.80	-109.78	-957.51	2,675.31	6,005.68	5,920.24	85.44	70.290				
13,900.00	6,040.00	6,865.00	6,166.05	135.66	31.80	-109.78	-957.51	2,675.31	6,105.46	6,020.01	85.46	71.446				
14,000.00	6,040.00	6,865.00	6,166.05	137.35	31.80	-109.78	-957.51	2,675.31	6,205.25	6,119.78	85.47	72.601				
14,100.00	6,040.00	6,865.00	6,166.05	139.05	31.80	-109.78	-957.51	2,675.31	6,305.05	6,219.56	85.49	73.755				
14,200.00	6,040.00	6,865.00	6,166.05	140.75	31.80	-109.78	-957.51	2,675.31	6,404.85	6,319.35	85.50	74.907				
14,300.00	6,040.00	6,865.00	6,166.05	142.46	31.80	-109.78	-957.51	2,675.31	6,504.66	6,419.14	85.52	76.059				
14,400.00	6,040.00	6,865.00	6,166.05	144.17	31.80	-109.78	-957.51	2,675.31	6,604.48	6,518.94	85.54	77.210				
14,500.00	6,040.00	6,865.00	6,166.05	145.87	31.80	-109.78	-957.51	2,675.31	6,704.30	6,618.74	85.56	78.359				
14,600.00	6,040.00	6,865.00	6,166.05	147.58	31.80	-109.78	-957.51	2,675.31	6,804.12	6,718.55	85.58	79.508				
14,700.00	6,040.00	6,865.00	6,166.05	149.29	31.80	-109.78	-957.51	2,675.31	6,903.95	6,818.36	85.60	80.656				
14,800.00	6,040.00	6,865.00	6,166.05	151.01	31.80	-109.78	-957.51	2,675.31	7,003.79	6,918.17	85.62	81.802				
14,900.00	6,040.00	6,865.00	6,166.05	152.72	31.80	-109.78	-957.51	2,675.31	7,103.63	7,017.99	85.64	82.947				
15,000.00	6,040.00	6,865.00	6,166.05	154.44	31.80	-109.78	-957.51	2,675.31	7,203.47	7,117.81	85.66	84.092				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 759-MWD OWSG												Offset Well Error:		0.00 usft	
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,100.00	6,040.00	6,865.00	6,166.05	156.16	31.80	-109.78	-957.51	2,675.31	7,303.32	7,217.64	85.68	85.235			
15,200.00	6,040.00	6,865.00	6,166.05	157.88	31.80	-109.78	-957.51	2,675.31	7,403.18	7,317.47	85.71	86.377			
15,300.00	6,040.00	6,865.00	6,166.05	159.60	31.80	-109.78	-957.51	2,675.31	7,503.03	7,417.30	85.73	87.517			
15,400.00	6,040.00	6,865.00	6,166.05	161.32	31.80	-109.78	-957.51	2,675.31	7,602.89	7,517.14	85.76	88.657			
15,500.00	6,040.00	6,865.00	6,166.05	163.04	31.80	-109.78	-957.51	2,675.31	7,702.76	7,616.98	85.78	89.795			
15,600.00	6,040.00	6,865.00	6,166.05	164.77	31.80	-109.78	-957.51	2,675.31	7,802.62	7,716.82	85.81	90.932			
15,700.00	6,040.00	6,865.00	6,166.05	166.49	31.80	-109.78	-957.51	2,675.31	7,902.50	7,816.66	85.83	92.068			
15,800.00	6,040.00	6,865.00	6,166.05	168.22	31.80	-109.78	-957.51	2,675.31	8,002.37	7,916.51	85.86	93.203			
15,900.00	6,040.00	6,865.00	6,166.05	169.95	31.80	-109.78	-957.51	2,675.31	8,102.25	8,016.36	85.89	94.336			
16,000.00	6,040.00	6,865.00	6,166.05	171.68	31.80	-109.78	-957.51	2,675.31	8,202.13	8,116.21	85.91	95.468			
16,100.00	6,040.00	6,865.00	6,166.05	173.41	31.80	-109.78	-957.51	2,675.31	8,302.01	8,216.07	85.94	96.599			
16,200.00	6,040.00	6,865.00	6,166.05	175.14	31.80	-109.78	-957.51	2,675.31	8,401.90	8,315.92	85.97	97.728			
16,300.00	6,040.00	6,865.00	6,166.05	176.88	31.80	-109.78	-957.51	2,675.31	8,501.79	8,415.78	86.00	98.856			
16,400.00	6,040.00	6,865.00	6,166.05	178.61	31.80	-109.78	-957.51	2,675.31	8,601.68	8,515.65	86.03	99.983			
16,500.00	6,040.00	6,865.00	6,166.05	180.34	31.80	-109.78	-957.51	2,675.31	8,701.57	8,615.51	86.06	101.108			
16,600.00	6,040.00	6,865.00	6,166.05	182.08	31.80	-109.78	-957.51	2,675.31	8,801.47	8,715.37	86.09	102.232			
16,700.00	6,040.00	6,865.00	6,166.05	183.82	31.80	-109.78	-957.51	2,675.31	8,901.36	8,815.24	86.12	103.355			
16,800.00	6,040.00	6,899.59	6,166.16	185.56	32.22	-108.24	-958.48	2,709.89	9,000.98	8,913.85	87.14	103.294			
16,865.66	6,040.00	6,900.30	6,166.16	186.70	32.23	-108.21	-958.50	2,710.59	9,066.57	8,979.39	87.18	103.999			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 127-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	117.72	-1,533.20	2,917.70	3,296.02						
100.00	100.00	149.24	149.22	0.13	0.23	117.75	-1,534.02	2,915.78	3,295.20	3,294.84	0.36	9,132.053			
200.00	199.98	221.50	221.43	0.49	0.53	43.48	-1,535.89	2,913.68	3,292.58	3,291.55	1.02	3,214.399			
300.00	299.84	305.60	305.46	0.86	0.84	43.65	-1,538.48	2,911.75	3,288.18	3,286.48	1.69	1,941.678			
400.00	399.45	380.50	380.33	1.23	1.11	43.85	-1,540.43	2,910.51	3,281.68	3,279.34	2.33	1,405.799			
500.00	498.70	545.90	545.65	1.63	1.71	44.32	-1,544.46	2,908.03	3,273.06	3,269.74	3.32	986.159			
600.00	597.47	631.32	631.03	2.05	2.02	44.70	-1,545.91	2,905.89	3,260.43	3,256.40	4.02	810.579			
700.00	695.62	747.76	747.41	2.51	2.44	45.25	-1,547.57	2,902.51	3,244.90	3,240.04	4.86	668.100			
800.00	793.06	826.45	826.07	3.00	2.72	45.77	-1,548.72	2,900.63	3,227.51	3,221.93	5.58	578.865			
900.00	889.64	939.79	939.35	3.54	3.14	46.50	-1,550.79	2,897.48	3,207.73	3,201.28	6.45	497.292			
1,000.00	985.27	1,087.28	1,086.01	4.13	3.70	47.69	-1,561.58	2,886.90	3,184.77	3,177.26	7.51	424.183			
1,100.00	1,079.82	1,172.72	1,170.33	4.77	4.05	48.72	-1,571.78	2,877.66	3,159.10	3,150.71	8.39	376.638			
1,200.00	1,173.17	1,238.37	1,234.97	5.46	4.33	49.68	-1,580.54	2,870.33	3,132.07	3,122.83	9.24	338.938			
1,300.00	1,265.23	1,310.08	1,305.61	6.21	4.64	50.70	-1,590.24	2,862.72	3,103.96	3,093.79	10.17	305.132			
1,400.00	1,356.75	1,384.76	1,379.25	7.00	4.96	51.38	-1,600.18	2,855.22	3,075.97	3,064.82	11.15	275.970			
1,500.00	1,448.28	1,456.45	1,449.96	7.80	5.28	52.03	-1,609.74	2,848.27	3,048.92	3,036.79	12.13	251.290			
1,600.00	1,539.81	1,516.01	1,508.40	8.60	5.54	52.60	-1,619.30	2,841.90	3,023.13	3,010.03	13.10	230.822			
1,700.00	1,631.34	1,569.35	1,560.36	9.41	5.80	53.15	-1,629.53	2,835.59	2,998.88	2,984.81	14.06	213.239			
1,800.00	1,722.86	1,623.00	1,612.41	10.23	6.06	53.73	-1,640.87	2,829.18	2,976.37	2,961.31	15.05	197.734			
1,900.00	1,814.39	1,680.61	1,668.14	11.05	6.35	54.36	-1,653.79	2,822.39	2,955.54	2,939.45	16.09	183.743			
2,000.00	1,905.92	1,751.77	1,736.90	11.87	6.71	55.14	-1,670.19	2,814.21	2,936.21	2,919.01	17.21	170.639			
2,100.00	1,997.45	1,862.76	1,844.06	12.69	7.29	56.39	-1,695.88	2,801.04	2,917.81	2,899.24	18.57	157.110			
2,200.00	2,088.97	2,045.64	2,019.07	13.52	8.32	58.58	-1,739.62	2,771.27	2,897.81	2,877.38	20.43	141.855			
2,300.00	2,180.50	2,144.76	2,112.01	14.35	8.94	59.88	-1,766.58	2,749.89	2,878.09	2,856.21	21.87	131.591			
2,400.00	2,272.03	2,214.05	2,176.18	15.17	9.41	60.83	-1,786.69	2,733.18	2,859.37	2,836.21	23.16	123.449			
2,500.00	2,363.56	2,269.48	2,226.93	16.00	9.79	61.62	-1,803.94	2,719.06	2,842.60	2,818.22	24.38	116.612			
2,600.00	2,455.08	2,324.86	2,277.05	16.83	10.20	62.44	-1,822.25	2,704.23	2,827.89	2,802.27	25.62	110.377			
2,700.00	2,546.61	2,376.05	2,322.84	17.66	10.59	63.21	-1,840.07	2,689.92	2,815.36	2,788.52	26.84	104.885			
2,800.00	2,638.14	2,423.90	2,366.33	18.50	10.97	63.94	-1,857.34	2,676.30	2,805.18	2,777.14	28.05	100.020			
2,900.00	2,729.67	2,448.00	2,386.63	19.33	11.16	64.31	-1,866.25	2,669.37	2,797.55	2,768.52	29.03	96.370			
3,000.00	2,821.19	2,495.35	2,428.23	20.16	11.55	65.04	-1,884.35	2,655.80	2,792.51	2,762.29	30.23	92.386			
3,100.00	2,912.72	2,541.00	2,467.98	20.99	11.93	65.76	-1,902.67	2,642.85	2,790.49	2,759.09	31.40	88.880			
3,127.98	2,938.33	2,541.00	2,467.98	21.23	11.93	65.76	-1,902.67	2,642.85	2,790.35	2,758.75	31.60	88.315			
3,200.00	3,004.25	2,579.68	2,501.61	21.83	12.26	66.37	-1,918.45	2,632.06	2,791.04	2,758.56	32.48	85.920			
3,300.00	3,095.78	2,635.00	2,550.01	22.66	12.73	67.23	-1,940.63	2,617.03	2,793.71	2,759.99	33.72	82.849			
3,400.00	3,187.30	2,674.14	2,584.43	23.50	13.05	67.83	-1,956.29	2,606.94	2,798.89	2,764.12	34.77	80.508			
3,500.00	3,278.83	2,705.89	2,612.41	24.33	13.32	68.32	-1,969.21	2,599.29	2,806.90	2,771.19	35.71	78.601			
3,600.00	3,370.36	2,964.16	2,838.61	25.16	15.55	72.30	-2,071.52	2,528.65	2,815.93	2,776.95	38.98	72.245			
3,700.00	3,461.89	3,025.90	2,892.92	26.00	16.09	73.26	-2,094.35	2,510.17	2,823.99	2,783.76	40.23	70.203			
3,800.00	3,553.41	3,124.11	2,980.63	26.83	16.92	74.73	-2,129.04	2,482.84	2,833.53	2,791.73	41.80	67.788			
3,900.00	3,644.94	3,188.99	3,038.76	27.67	17.46	75.70	-2,151.61	2,464.92	2,844.71	2,801.69	43.02	66.129			
4,000.00	3,736.47	3,236.20	3,080.73	28.51	17.87	76.41	-2,168.40	2,451.32	2,858.00	2,813.95	44.05	64.882			
4,100.00	3,828.00	3,278.27	3,117.75	29.34	18.24	77.05	-2,183.88	2,438.67	2,873.72	2,828.72	45.00	63.859			
4,200.00	3,919.52	3,324.33	3,157.87	30.18	18.66	77.77	-2,201.35	2,424.29	2,891.86	2,845.89	45.97	62.902			
4,300.00	4,011.05	3,372.31	3,199.34	31.01	19.10	78.51	-2,219.90	2,408.85	2,912.28	2,865.34	46.94	62.042			
4,400.00	4,102.58	3,417.06	3,237.74	31.85	19.53	79.21	-2,237.52	2,394.12	2,934.99	2,887.15	47.84	61.346			
4,500.00	4,194.11	3,460.35	3,274.76	32.68	19.94	79.88	-2,254.82	2,379.83	2,960.00	2,911.30	48.70	60.780			
4,600.00	4,285.64	3,506.36	3,313.98	33.52	20.38	80.60	-2,273.47	2,364.63	2,987.25	2,937.69	49.56	60.280			
4,700.00	4,377.16	3,555.02	3,355.33	34.36	20.86	81.35	-2,293.39	2,348.47	3,016.60	2,966.19	50.41	59.840			
4,800.00	4,468.69	3,598.34	3,392.02	35.19	21.29	82.02	-2,311.31	2,334.00	3,048.02	2,996.84	51.18	59.560			
4,900.00	4,560.22	3,637.73	3,425.25	36.03	21.68	82.62	-2,327.85	2,320.80	3,081.58	3,029.72	51.86	59.417			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 127-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.00	4,651.75	3,683.52	3,463.71	36.87	22.13	83.32	-2,347.36	2,305.42	3,117.23	3,064.64	52.60	59.267		
5,100.00	4,743.27	5,100.00	3,842.46	37.70	34.14	89.48	-2,506.93	2,171.39	3,150.02	3,086.00	64.02	49.203		
5,200.00	4,834.80	4,318.39	4,029.39	38.54	27.63	92.00	-2,565.01	2,121.63	3,178.76	3,119.26	59.50	53.421		
5,300.00	4,926.33	4,782.43	4,476.26	39.38	30.31	96.91	-2,658.91	2,044.55	3,200.53	3,137.53	63.00	50.803		
5,400.00	5,017.86	5,308.98	4,998.91	40.21	32.15	101.36	-2,702.57	2,007.46	3,219.24	3,153.82	65.42	49.208		
5,500.00	5,109.38	5,362.00	5,051.91	41.05	32.28	101.75	-2,703.16	2,006.11	3,229.05	3,162.87	66.18	48.789		
5,600.00	5,200.91	5,435.88	5,125.77	41.89	32.45	102.28	-2,704.55	2,005.36	3,240.15	3,173.18	66.97	48.380		
5,700.00	5,292.44	5,527.72	5,217.59	42.73	32.67	102.94	-2,706.49	2,004.60	3,251.97	3,184.17	67.80	47.968		
5,800.00	5,383.97	5,610.67	5,300.52	43.56	32.86	103.52	-2,708.25	2,004.11	3,264.28	3,195.68	68.59	47.588		
5,900.00	5,475.51	5,692.53	5,382.35	44.40	33.06	100.45	-2,710.25	2,003.58	3,277.14	3,207.75	69.39	47.230		
6,000.00	5,567.37	6,161.03	5,839.66	45.19	33.57	79.44	-2,697.58	2,073.64	3,274.76	3,204.17	70.59	46.393		
6,100.00	5,657.57	6,248.36	5,916.78	45.89	33.54	60.33	-2,691.10	2,114.03	3,249.26	3,177.86	71.40	45.508		
6,200.00	5,743.38	6,399.33	6,035.36	46.48	33.46	46.91	-2,679.62	2,206.23	3,206.75	3,134.41	72.34	44.327		
6,300.00	5,822.18	6,438.64	6,062.87	46.95	33.44	38.64	-2,676.69	2,234.14	3,148.94	3,075.86	73.08	43.086		
6,400.00	5,891.60	6,490.00	6,097.02	47.31	33.42	33.24	-2,673.58	2,272.37	3,078.86	3,005.10	73.76	41.740		
6,500.00	5,949.50	6,501.80	6,104.55	47.58	33.42	30.31	-2,672.99	2,281.44	2,998.04	2,923.83	74.21	40.400		
6,600.00	5,994.15	6,521.30	6,116.64	47.76	33.41	28.95	-2,672.14	2,296.71	2,908.78	2,834.20	74.58	39.002		
6,700.00	6,024.17	6,536.69	6,123.87	47.86	33.41	30.23	-2,671.69	2,306.29	2,813.33	2,738.51	74.82	37.600		
6,800.00	6,038.67	6,545.40	6,131.04	47.91	33.41	52.67	-2,671.28	2,316.02	2,714.29	2,639.33	74.96	36.211		
6,900.00	6,040.00	6,545.15	6,130.89	47.93	33.41	166.01	-2,671.29	2,315.82	2,614.36	2,539.39	74.97	34.874		
7,000.00	6,040.00	6,543.65	6,130.00	47.98	33.41	165.23	-2,671.34	2,314.61	2,514.44	2,439.47	74.96	33.542		
7,100.00	6,040.00	6,542.15	6,129.11	48.09	33.41	164.45	-2,671.39	2,313.41	2,414.52	2,339.56	74.96	32.210		
7,200.00	6,040.00	6,540.65	6,128.22	48.23	33.41	163.65	-2,671.44	2,312.20	2,314.61	2,239.65	74.96	30.877		
7,300.00	6,040.00	6,539.15	6,127.34	48.43	33.41	162.85	-2,671.49	2,310.99	2,214.71	2,139.75	74.97	29.543		
7,400.00	6,040.00	6,537.65	6,126.45	48.67	33.41	162.04	-2,671.54	2,309.79	2,114.82	2,039.85	74.97	28.209		
7,500.00	6,040.00	6,536.16	6,125.56	48.97	33.41	161.23	-2,671.60	2,308.58	2,014.94	1,939.96	74.98	26.874		
7,600.00	6,040.00	6,535.34	6,124.67	49.32	33.41	160.40	-2,671.65	2,307.38	1,915.07	1,840.08	74.99	25.539		
7,700.00	6,040.00	6,536.84	6,123.78	49.73	33.41	159.57	-2,671.70	2,306.17	1,815.21	1,740.20	75.01	24.201		
7,800.00	6,040.00	6,538.34	6,122.89	50.19	33.41	158.73	-2,671.75	2,304.96	1,715.37	1,640.33	75.03	22.862		
7,900.00	6,040.00	6,539.84	6,122.00	50.71	33.41	157.89	-2,671.80	2,303.76	1,615.54	1,540.48	75.06	21.524		
8,000.00	6,040.00	6,535.00	6,124.87	51.29	33.41	160.59	-2,671.63	2,307.65	1,515.75	1,440.70	75.05	20.198		
8,100.00	6,040.00	6,529.66	6,121.69	51.93	33.41	157.61	-2,671.82	2,303.37	1,415.96	1,340.89	75.08	18.860		
8,200.00	6,040.00	6,528.45	6,120.96	52.63	33.41	156.92	-2,671.87	2,302.40	1,316.22	1,241.11	75.11	17.524		
8,300.00	6,040.00	6,527.16	6,120.19	53.39	33.41	156.18	-2,671.91	2,301.37	1,216.52	1,141.37	75.15	16.189		
8,400.00	6,040.00	6,525.79	6,119.36	54.20	33.41	155.40	-2,671.97	2,300.28	1,116.87	1,041.68	75.19	14.854		
8,500.00	6,040.00	6,524.33	6,118.48	55.07	33.41	154.55	-2,672.02	2,299.12	1,017.28	942.04	75.24	13.520		
8,600.00	6,040.00	6,522.76	6,117.53	55.99	33.41	153.64	-2,672.08	2,297.88	917.78	842.47	75.31	12.187		
8,700.00	6,040.00	6,521.09	6,116.51	56.97	33.41	152.67	-2,672.15	2,296.55	818.40	743.01	75.39	10.855		
8,800.00	6,040.00	6,519.30	6,115.42	57.99	33.41	151.61	-2,672.22	2,295.13	719.19	643.69	75.50	9.526		
8,900.00	6,040.00	6,517.37	6,114.23	59.06	33.41	150.47	-2,672.30	2,293.60	620.22	544.59	75.63	8.200		
9,000.00	6,040.00	6,515.28	6,112.95	60.17	33.41	149.23	-2,672.39	2,291.96	521.64	445.83	75.81	6.881		
9,100.00	6,040.00	6,513.03	6,111.56	61.32	33.41	147.88	-2,672.48	2,290.19	423.71	347.67	76.03	5.573		
9,200.00	6,040.00	6,510.57	6,110.04	62.51	33.41	146.41	-2,672.59	2,288.27	327.01	250.71	76.30	4.286		
9,300.00	6,040.00	6,507.90	6,108.38	63.73	33.42	144.80	-2,672.71	2,286.18	233.10	156.62	76.48	3.048		
9,400.00	6,040.00	6,504.98	6,106.55	64.98	33.42	143.03	-2,672.84	2,283.91	147.37	71.93	75.44	1.953		
9,500.00	6,040.00	6,501.77	6,104.53	66.27	33.42	141.08	-2,672.99	2,281.42	95.30	24.51	70.79	1.346	Level 3	
9,513.23	6,040.00	6,501.33	6,104.25	66.44	33.42	140.81	-2,673.01	2,281.07	94.38	24.17	70.21	1.344	Level 3, CC, ES, SF	
9,600.00	6,040.00	6,498.23	6,102.29	67.58	33.42	138.93	-2,673.16	2,278.68	128.17	61.60	66.57	1.925		
9,700.00	6,040.00	6,494.31	6,099.79	68.92	33.42	136.56	-2,673.36	2,275.66	209.17	140.83	68.33	3.061		
9,800.00	6,040.00	6,489.93	6,096.98	70.29	33.42	133.92	-2,673.58	2,272.32	301.74	231.77	69.97	4.312		
9,900.00	6,040.00	6,485.48	6,094.10	71.67	33.42	131.26	-2,673.82	2,268.93	397.88	326.97	70.91	5.611		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 127-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,000.00	6,040.00	6,480.62	6,090.94	73.08	33.42	128.41	-2,674.09	2,265.24	495.52	424.06	71.46	6.934			
10,100.00	6,040.00	6,475.30	6,087.47	74.51	33.43	125.34	-2,674.39	2,261.23	593.92	522.11	71.81	8.271			
10,200.00	6,040.00	6,469.46	6,083.62	75.95	33.43	122.05	-2,674.72	2,256.85	692.74	620.72	72.02	9.618			
10,300.00	6,040.00	6,463.01	6,079.34	77.41	33.43	118.53	-2,675.11	2,252.04	791.83	719.67	72.16	10.974			
10,400.00	6,040.00	6,455.85	6,074.55	78.89	33.43	114.80	-2,675.55	2,246.73	891.08	818.85	72.23	12.336			
10,500.00	6,040.00	6,447.85	6,069.16	80.38	33.44	110.85	-2,676.07	2,240.85	990.46	918.19	72.27	13.706			
10,600.00	6,040.00	6,438.87	6,063.04	81.88	33.44	106.70	-2,676.67	2,234.31	1,089.91	1,017.64	72.26	15.083			
10,700.00	6,040.00	6,428.72	6,056.04	83.40	33.45	102.36	-2,677.38	2,226.98	1,189.41	1,117.18	72.22	16.468			
10,800.00	6,040.00	6,417.15	6,047.98	84.93	33.45	97.87	-2,678.23	2,218.73	1,288.94	1,216.78	72.16	17.863			
10,900.00	6,040.00	6,403.84	6,038.57	86.47	33.46	93.25	-2,679.26	2,209.36	1,388.48	1,316.42	72.06	19.268			
11,000.00	6,040.00	6,392.72	6,030.62	88.02	33.46	89.80	-2,680.16	2,201.65	1,488.04	1,416.03	72.01	20.665			
11,100.00	6,040.00	6,385.86	6,025.65	89.58	33.47	87.83	-2,680.72	2,196.95	1,587.61	1,515.58	72.03	22.041			
11,200.00	6,040.00	6,379.09	6,020.71	91.15	33.47	86.00	-2,681.26	2,192.36	1,687.21	1,615.16	72.05	23.418			
11,300.00	6,040.00	6,372.40	6,015.78	92.73	33.47	84.28	-2,681.80	2,187.88	1,786.83	1,714.77	72.06	24.795			
11,400.00	6,040.00	6,365.81	6,010.87	94.31	33.48	82.68	-2,682.32	2,183.50	1,886.47	1,814.39	72.08	26.173			
11,500.00	6,040.00	6,359.29	6,005.98	95.91	33.48	81.17	-2,682.83	2,179.22	1,986.12	1,914.03	72.09	27.550			
11,600.00	6,040.00	6,352.86	6,001.12	97.51	33.48	79.76	-2,683.34	2,175.05	2,085.79	2,013.68	72.10	28.927			
11,700.00	6,040.00	6,346.52	5,996.28	99.11	33.49	78.42	-2,683.83	2,170.97	2,185.46	2,113.35	72.12	30.304			
11,800.00	6,040.00	6,340.26	5,991.47	100.73	33.49	77.17	-2,684.31	2,167.00	2,285.15	2,213.03	72.13	31.681			
11,900.00	6,040.00	6,334.09	5,986.69	102.35	33.49	75.98	-2,684.79	2,163.11	2,384.85	2,312.71	72.14	33.058			
12,000.00	6,040.00	6,327.99	5,981.94	103.97	33.50	74.86	-2,685.25	2,159.33	2,484.56	2,412.41	72.15	34.434			
12,100.00	6,040.00	6,321.98	5,977.22	105.60	33.50	73.79	-2,685.70	2,155.63	2,584.28	2,512.11	72.17	35.810			
12,200.00	6,040.00	6,316.05	5,972.54	107.24	33.50	72.78	-2,686.14	2,152.03	2,684.00	2,611.83	72.18	37.186			
12,300.00	6,040.00	6,313.60	5,970.59	108.88	33.51	72.37	-2,686.33	2,150.56	2,783.73	2,711.51	72.22	38.543			
12,400.00	6,040.00	6,305.48	5,964.10	110.53	33.51	71.07	-2,686.93	2,145.70	2,883.47	2,811.26	72.22	39.929			
12,500.00	6,040.00	6,297.29	5,957.50	112.18	33.51	69.81	-2,687.53	2,140.89	2,983.22	2,911.01	72.21	41.315			
12,600.00	6,040.00	6,289.04	5,950.79	113.83	33.52	68.60	-2,688.13	2,136.14	3,082.96	3,010.76	72.20	42.700			
12,700.00	6,040.00	6,280.73	5,943.96	115.49	33.52	67.43	-2,688.74	2,131.43	3,182.71	3,110.51	72.19	44.085			
12,800.00	6,040.00	6,272.35	5,937.01	117.16	33.53	66.29	-2,689.35	2,126.79	3,282.45	3,210.26	72.19	45.470			
12,900.00	6,040.00	6,263.91	5,929.95	118.82	33.53	65.20	-2,689.96	2,122.21	3,382.20	3,310.01	72.19	46.854			
13,000.00	6,040.00	6,255.42	5,922.79	120.49	33.53	64.13	-2,690.58	2,117.70	3,481.94	3,409.76	72.18	48.237			
13,100.00	6,040.00	6,246.88	5,915.52	122.16	33.54	63.10	-2,691.20	2,113.26	3,581.69	3,509.50	72.18	49.619			
13,200.00	6,040.00	6,238.29	5,908.14	123.84	33.54	62.10	-2,691.83	2,108.90	3,681.43	3,609.25	72.18	51.001			
13,300.00	6,040.00	13,300.00	5,862.70	125.52	35.36	56.64	-2,695.69	2,085.46	3,781.16	3,710.03	71.13	53.157			
13,400.00	6,040.00	13,400.00	5,856.46	127.20	35.43	55.98	-2,696.23	2,082.53	3,880.84	3,809.68	71.16	54.540			
13,500.00	6,040.00	6,223.21	5,859.10	128.89	33.55	60.43	-2,692.94	2,101.42	3,980.66	3,908.40	72.26	55.085			
13,600.00	6,040.00	6,190.32	5,865.94	130.58	33.56	57.05	-2,695.32	2,086.37	4,080.40	4,008.28	72.12	56.575			
13,700.00	6,040.00	6,150.47	5,830.11	132.27	33.57	53.54	-2,698.42	2,069.21	4,180.10	4,108.14	71.96	58.066			
13,800.00	6,040.00	6,114.00	5,796.86	133.96	33.58	50.76	-2,701.47	2,054.55	4,279.75	4,207.90	71.85	59.569			
13,900.00	6,040.00	6,114.00	5,796.86	135.66	33.58	50.76	-2,701.47	2,054.55	4,379.38	4,307.47	71.91	60.902			
14,000.00	6,040.00	6,114.00	5,796.86	137.35	33.58	50.76	-2,701.47	2,054.55	4,479.03	4,407.06	71.97	62.235			
14,100.00	6,040.00	6,114.00	5,796.86	139.05	33.58	50.76	-2,701.47	2,054.55	4,578.69	4,506.66	72.03	63.566			
14,200.00	6,040.00	6,114.00	5,796.86	140.75	33.58	50.76	-2,701.47	2,054.55	4,678.37	4,606.28	72.09	64.896			
14,300.00	6,040.00	6,114.00	5,796.86	142.46	33.58	50.76	-2,701.47	2,054.55	4,778.07	4,705.92	72.15	66.224			
14,400.00	6,040.00	6,114.00	5,796.86	144.17	33.58	50.76	-2,701.47	2,054.55	4,877.77	4,805.56	72.21	67.551			
14,500.00	6,040.00	6,114.00	5,796.86	145.87	33.58	50.76	-2,701.47	2,054.55	4,977.49	4,905.22	72.27	68.876			
14,600.00	6,040.00	6,114.00	5,796.86	147.58	33.58	50.76	-2,701.47	2,054.55	5,077.22	5,004.89	72.33	70.200			
14,700.00	6,040.00	6,114.00	5,796.86	149.29	33.58	50.76	-2,701.47	2,054.55	5,176.96	5,104.57	72.38	71.522			
14,800.00	6,040.00	6,114.00	5,796.86	151.01	33.58	50.76	-2,701.47	2,054.55	5,276.70	5,204.27	72.44	72.843			
14,900.00	6,040.00	6,114.00	5,796.86	152.72	33.58	50.76	-2,701.47	2,054.55	5,376.46	5,303.97	72.50	74.162			
15,000.00	6,040.00	6,114.00	5,796.86	154.44	33.58	50.76	-2,701.47	2,054.55	5,476.23	5,403.68	72.55	75.480			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 127-MWD OWSG												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	6,114.00	5,796.86	156.16	33.58	50.76	-2,701.47	2,054.55	5,576.00	5,503.40	72.61	76.796		
15,200.00	6,040.00	6,114.00	5,796.86	157.88	33.58	50.76	-2,701.47	2,054.55	5,675.79	5,603.12	72.66	78.110		
15,300.00	6,040.00	6,114.00	5,796.86	159.60	33.58	50.76	-2,701.47	2,054.55	5,775.58	5,702.86	72.72	79.422		
15,400.00	6,040.00	6,080.95	5,766.20	161.32	33.58	48.45	-2,704.02	2,042.50	5,875.02	5,802.39	72.64	80.880		
15,500.00	6,040.00	6,079.39	5,764.73	163.04	33.58	48.34	-2,704.12	2,041.97	5,974.80	5,902.11	72.69	82.196		
15,600.00	6,040.00	6,077.87	5,763.31	164.77	33.58	48.24	-2,704.23	2,041.46	6,074.57	6,001.83	72.74	83.511		
15,700.00	6,040.00	6,076.40	5,761.92	166.49	33.58	48.14	-2,704.32	2,040.96	6,174.36	6,101.57	72.79	84.824		
15,800.00	6,040.00	6,074.96	5,760.57	168.22	33.58	48.04	-2,704.42	2,040.49	6,274.15	6,201.31	72.84	86.135		
15,900.00	6,040.00	6,073.56	5,759.26	169.95	33.58	47.95	-2,704.51	2,040.02	6,373.94	6,301.05	72.89	87.444		
16,000.00	6,040.00	6,072.20	5,757.97	171.68	33.58	47.86	-2,704.59	2,039.57	6,473.74	6,400.80	72.94	88.751		
16,100.00	6,040.00	6,070.87	5,756.72	173.41	33.58	47.77	-2,704.68	2,039.14	6,573.55	6,500.55	72.99	90.056		
16,200.00	6,040.00	6,069.57	5,755.50	175.14	33.58	47.68	-2,704.76	2,038.72	6,673.35	6,600.31	73.05	91.359		
16,300.00	6,040.00	6,068.31	5,754.30	176.88	33.58	47.60	-2,704.83	2,038.31	6,773.17	6,700.07	73.10	92.660		
16,400.00	6,040.00	6,067.08	5,753.14	178.61	33.58	47.51	-2,704.91	2,037.91	6,872.99	6,799.84	73.15	93.959		
16,500.00	6,040.00	6,065.87	5,752.00	180.34	33.58	47.43	-2,704.98	2,037.53	6,972.81	6,899.61	73.20	95.256		
16,600.00	6,040.00	6,064.70	5,750.89	182.08	33.58	47.36	-2,705.05	2,037.15	7,072.64	6,999.38	73.25	96.550		
16,700.00	6,040.00	6,063.55	5,749.80	183.82	33.58	47.28	-2,705.12	2,036.79	7,172.47	7,099.16	73.31	97.843		
16,800.00	6,040.00	6,062.43	5,748.74	185.56	33.58	47.20	-2,705.18	2,036.44	7,272.30	7,198.94	73.36	99.134		
16,865.66	6,040.00	6,061.71	5,748.06	186.70	33.58	47.16	-2,705.22	2,036.21	7,337.85	7,264.46	73.39	99.980		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 127-MWD OWSG, 5738-MWD OWSG												Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - STK 1 - STK 1													
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	117.72	-1,533.20	2,917.70	3,296.02				
100.00	100.00	149.24	149.22	0.13	0.23	117.75	-1,534.02	2,915.78	3,295.20	3,294.84	0.36	9,132.053	
200.00	199.98	221.50	221.43	0.49	0.53	43.48	-1,535.89	2,913.68	3,292.58	3,291.55	1.02	3,214.399	
300.00	299.84	305.60	305.46	0.86	0.84	43.65	-1,538.48	2,911.75	3,288.18	3,286.48	1.69	1,941.678	
400.00	399.45	380.50	380.33	1.23	1.11	43.85	-1,540.43	2,910.51	3,281.68	3,279.34	2.33	1,405.799	
500.00	498.70	545.90	545.65	1.63	1.71	44.32	-1,544.46	2,908.03	3,273.06	3,269.74	3.32	986.159	
600.00	597.47	631.32	631.03	2.05	2.02	44.70	-1,545.91	2,905.89	3,260.43	3,256.40	4.02	810.579	
700.00	695.62	747.76	747.41	2.51	2.44	45.25	-1,547.57	2,902.51	3,244.90	3,240.04	4.86	668.100	
800.00	793.06	826.45	826.07	3.00	2.72	45.77	-1,548.72	2,900.63	3,227.51	3,221.93	5.58	578.865	
900.00	889.64	939.79	939.35	3.54	3.14	46.50	-1,550.79	2,897.48	3,207.73	3,201.28	6.45	497.292	
1,000.00	985.27	1,087.28	1,086.01	4.13	3.70	47.69	-1,561.58	2,886.90	3,184.77	3,177.26	7.51	424.183	
1,100.00	1,079.82	1,172.72	1,170.33	4.77	4.05	48.72	-1,571.78	2,877.66	3,159.10	3,150.71	8.39	376.638	
1,200.00	1,173.17	1,238.37	1,234.97	5.46	4.33	49.68	-1,580.54	2,870.33	3,132.07	3,122.83	9.24	338.938	
1,300.00	1,265.23	1,310.08	1,305.61	6.21	4.64	50.70	-1,590.24	2,862.72	3,103.96	3,093.79	10.17	305.132	
1,400.00	1,356.75	1,384.76	1,379.25	7.00	4.96	51.38	-1,600.18	2,855.22	3,075.97	3,064.82	11.15	275.970	
1,500.00	1,448.28	1,456.45	1,449.96	7.80	5.28	52.03	-1,609.74	2,848.27	3,048.92	3,036.79	12.13	251.290	
1,600.00	1,539.81	1,516.01	1,508.40	8.60	5.54	52.60	-1,619.30	2,841.90	3,023.13	3,010.03	13.10	230.822	
1,700.00	1,631.34	1,569.35	1,560.36	9.41	5.80	53.15	-1,629.53	2,835.59	2,998.88	2,984.81	14.06	213.239	
1,800.00	1,722.86	1,623.00	1,612.41	10.23	6.06	53.73	-1,640.87	2,829.18	2,976.37	2,961.31	15.05	197.734	
1,900.00	1,814.39	1,680.61	1,668.14	11.05	6.35	54.36	-1,653.79	2,822.39	2,955.54	2,939.45	16.09	183.743	
2,000.00	1,905.92	1,751.77	1,736.90	11.87	6.71	55.14	-1,670.19	2,814.21	2,936.21	2,919.01	17.21	170.639	
2,100.00	1,997.45	1,862.76	1,844.06	12.69	7.29	56.39	-1,695.88	2,801.04	2,917.81	2,899.24	18.57	157.110	
2,200.00	2,088.97	2,045.64	2,019.07	13.52	8.32	58.58	-1,739.62	2,771.27	2,897.81	2,877.38	20.43	141.855	
2,300.00	2,180.50	2,144.76	2,112.01	14.35	8.94	59.88	-1,766.58	2,749.89	2,878.09	2,856.21	21.87	131.591	
2,400.00	2,272.03	2,214.05	2,176.18	15.17	9.41	60.83	-1,786.69	2,733.18	2,859.37	2,836.21	23.16	123.449	
2,500.00	2,363.56	2,269.48	2,226.93	16.00	9.79	61.62	-1,803.94	2,719.06	2,842.60	2,818.22	24.38	116.612	
2,600.00	2,455.08	2,324.86	2,277.05	16.83	10.20	62.44	-1,822.25	2,704.23	2,827.89	2,802.27	25.62	110.377	
2,700.00	2,546.61	2,376.05	2,322.84	17.66	10.59	63.21	-1,840.07	2,689.92	2,815.36	2,788.52	26.84	104.885	
2,800.00	2,638.14	2,423.90	2,365.33	18.50	10.97	63.94	-1,857.34	2,676.30	2,805.18	2,777.14	28.05	100.020	
2,900.00	2,729.67	2,448.00	2,386.63	19.33	11.16	64.31	-1,866.25	2,669.37	2,797.55	2,768.52	29.03	96.370	
3,000.00	2,821.19	2,495.35	2,428.23	20.16	11.55	65.04	-1,884.35	2,655.80	2,792.51	2,762.29	30.23	92.386	
3,100.00	2,912.72	2,541.00	2,467.98	20.99	11.93	65.76	-1,902.67	2,642.85	2,790.49	2,759.09	31.40	88.880	
3,127.98	2,938.33	2,541.00	2,467.98	21.23	11.93	65.76	-1,902.67	2,642.85	2,790.35	2,758.75	31.60	88.315	
3,200.00	3,004.25	2,579.68	2,501.61	21.83	12.26	66.37	-1,918.45	2,632.06	2,791.04	2,758.56	32.48	85.920	
3,300.00	3,095.78	2,635.00	2,550.01	22.66	12.73	67.23	-1,940.63	2,617.03	2,793.71	2,759.99	33.72	82.849	
3,400.00	3,187.30	2,674.14	2,584.43	23.50	13.05	67.83	-1,956.29	2,606.94	2,798.89	2,764.12	34.77	80.508	
3,500.00	3,278.83	2,705.89	2,612.41	24.33	13.32	68.32	-1,969.21	2,599.29	2,806.90	2,771.19	35.71	78.601	
3,600.00	3,370.36	2,964.16	2,838.61	25.16	15.55	72.30	-2,071.52	2,528.65	2,815.93	2,776.95	38.98	72.245	
3,700.00	3,461.89	3,025.90	2,892.92	26.00	16.09	73.26	-2,094.35	2,510.17	2,823.99	2,783.76	40.23	70.203	
3,800.00	3,553.41	3,124.11	2,980.63	26.83	16.92	74.73	-2,129.04	2,482.84	2,833.53	2,791.73	41.80	67.788	
3,900.00	3,644.94	3,188.99	3,038.76	27.67	17.46	75.70	-2,151.61	2,464.92	2,844.71	2,801.69	43.02	66.129	
4,000.00	3,736.47	3,236.20	3,080.73	28.51	17.87	76.41	-2,168.40	2,451.32	2,858.00	2,813.95	44.05	64.882	
4,100.00	3,828.00	3,278.27	3,117.75	29.34	18.24	77.05	-2,183.88	2,438.67	2,873.72	2,828.72	45.00	63.859	
4,200.00	3,919.52	3,324.33	3,157.87	30.18	18.66	77.77	-2,201.35	2,424.29	2,891.86	2,845.89	45.97	62.902	
4,300.00	4,011.05	3,372.31	3,199.34	31.01	19.10	78.51	-2,219.90	2,408.85	2,912.28	2,865.34	46.94	62.042	
4,400.00	4,102.58	3,417.06	3,237.74	31.85	19.53	79.21	-2,237.52	2,394.12	2,934.99	2,887.15	47.84	61.346	
4,500.00	4,194.11	3,460.35	3,274.76	32.68	19.94	79.88	-2,254.82	2,379.83	2,960.00	2,911.30	48.70	60.780	
4,600.00	4,285.64	3,506.36	3,313.98	33.52	20.38	80.60	-2,273.47	2,364.63	2,987.25	2,937.69	49.56	60.280	
4,700.00	4,377.16	3,555.02	3,355.33	34.36	20.86	81.35	-2,293.39	2,348.47	3,016.60	2,966.19	50.41	59.840	
4,800.00	4,468.69	3,598.34	3,392.02	35.19	21.29	82.02	-2,311.31	2,334.00	3,048.02	2,996.84	51.18	59.560	
4,900.00	4,560.22	3,637.73	3,425.25	36.03	21.68	82.62	-2,327.85	2,320.80	3,081.58	3,029.72	51.86	59.417	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 127-MWD OWSG, 5738-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - STK 1 - STK 1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,651.75	3,683.52	3,463.71	36.87	22.13	83.32	-2,347.36	2,305.42	3,117.23	3,064.64	52.60	59.267			
5,100.00	4,743.27	5,100.00	3,842.46	37.70	34.14	89.48	-2,506.93	2,171.39	3,150.02	3,086.00	64.02	49.203			
5,200.00	4,834.80	4,318.39	4,029.39	38.54	27.63	92.00	-2,565.01	2,121.63	3,178.76	3,119.26	59.50	53.421			
5,300.00	4,926.33	4,782.43	4,476.26	39.38	30.31	96.91	-2,658.91	2,044.55	3,200.53	3,137.53	63.00	50.803			
5,400.00	5,017.86	5,308.98	4,998.91	40.21	32.15	101.36	-2,702.57	2,007.46	3,219.24	3,153.82	65.42	49.208			
5,500.00	5,109.38	5,362.00	5,051.91	41.05	32.28	101.75	-2,703.16	2,006.11	3,229.05	3,162.87	66.18	48.789			
5,600.00	5,200.91	5,435.88	5,125.77	41.89	32.45	102.28	-2,704.55	2,005.36	3,240.15	3,173.18	66.97	48.380			
5,700.00	5,292.44	5,527.72	5,217.59	42.73	32.67	102.94	-2,706.49	2,004.60	3,251.97	3,184.17	67.80	47.968			
5,800.00	5,383.97	5,610.67	5,300.52	43.56	32.86	103.52	-2,708.25	2,004.11	3,264.28	3,195.68	68.59	47.588			
5,900.00	5,475.51	5,643.00	5,332.84	44.40	32.94	100.11	-2,709.01	2,003.90	3,277.54	3,208.28	69.26	47.322			
6,000.00	5,567.37	5,696.24	5,386.02	45.19	33.03	77.42	-2,711.04	2,002.61	3,281.18	3,211.28	69.90	46.940			
6,100.00	5,657.57	6,441.25	6,041.92	45.89	31.68	58.75	-2,689.26	2,259.91	3,263.99	3,194.25	69.74	46.805			
6,200.00	5,743.38	6,491.00	6,065.26	46.48	31.48	45.30	-2,684.48	2,303.54	3,218.05	3,147.56	70.50	45.649			
6,300.00	5,822.18	6,491.00	6,065.26	46.95	31.48	37.16	-2,684.48	2,303.54	3,159.00	3,087.87	71.13	44.415			
6,400.00	5,891.60	6,491.00	6,065.26	47.31	31.48	32.06	-2,684.48	2,303.54	3,088.53	3,016.90	71.63	43.117			
6,500.00	5,949.50	6,491.00	6,065.26	47.58	31.48	28.97	-2,684.48	2,303.54	3,008.08	2,936.06	72.02	41.768			
6,600.00	5,994.15	6,491.00	6,065.26	47.76	31.48	27.47	-2,684.48	2,303.54	2,919.36	2,847.06	72.30	40.381			
6,700.00	6,024.17	6,528.24	6,080.14	47.86	31.36	25.77	-2,682.26	2,337.60	2,823.16	2,750.59	72.57	38.904			
6,800.00	6,038.67	6,530.28	6,080.91	47.91	31.36	31.24	-2,682.20	2,339.49	2,724.25	2,651.60	72.65	37.499			
6,900.00	6,040.00	6,530.35	6,080.94	47.93	31.36	178.40	-2,682.20	2,339.55	2,624.28	2,551.62	72.66	36.119			
7,000.00	6,040.00	6,530.21	6,080.89	47.98	31.36	178.25	-2,682.20	2,339.42	2,524.30	2,451.64	72.66	34.743			
7,100.00	6,040.00	6,530.06	6,080.83	48.09	31.36	178.09	-2,682.21	2,339.28	2,424.32	2,351.66	72.66	33.367			
7,200.00	6,040.00	6,529.90	6,080.77	48.23	31.36	177.91	-2,682.21	2,339.14	2,324.34	2,251.68	72.66	31.991			
7,300.00	6,040.00	6,529.73	6,080.70	48.43	31.36	177.73	-2,682.22	2,338.98	2,224.36	2,151.71	72.66	30.615			
7,400.00	6,040.00	6,529.54	6,080.63	48.67	31.36	177.53	-2,682.22	2,338.81	2,124.39	2,051.73	72.66	29.238			
7,500.00	6,040.00	6,529.34	6,080.56	48.97	31.36	177.31	-2,682.23	2,338.62	2,024.42	1,951.76	72.66	27.862			
7,600.00	6,040.00	6,529.13	6,080.48	49.32	31.36	177.08	-2,682.24	2,338.42	1,924.45	1,851.79	72.66	26.485			
7,700.00	6,040.00	6,528.90	6,080.39	49.73	31.36	176.82	-2,682.24	2,338.21	1,824.48	1,751.82	72.66	25.109			
7,800.00	6,040.00	6,528.65	6,080.29	50.19	31.36	176.55	-2,682.25	2,337.98	1,724.52	1,651.86	72.67	23.732			
7,900.00	6,040.00	6,528.37	6,080.19	50.71	31.36	176.25	-2,682.26	2,337.73	1,624.57	1,551.90	72.67	22.356			
8,000.00	6,040.00	6,528.07	6,080.08	51.29	31.37	175.92	-2,682.27	2,337.45	1,524.61	1,451.94	72.67	20.979			
8,100.00	6,040.00	6,527.75	6,079.95	51.93	31.37	175.55	-2,682.28	2,337.15	1,424.67	1,351.99	72.68	19.603			
8,200.00	6,040.00	6,527.39	6,079.81	52.63	31.37	175.15	-2,682.29	2,336.81	1,324.73	1,252.05	72.68	18.226			
8,300.00	6,040.00	6,526.98	6,079.66	53.39	31.37	174.70	-2,682.31	2,336.44	1,224.81	1,152.12	72.69	16.850			
8,400.00	6,040.00	6,526.54	6,079.49	54.20	31.37	174.20	-2,682.32	2,336.03	1,124.89	1,052.20	72.70	15.474			
8,500.00	6,040.00	6,526.04	6,079.30	55.07	31.37	173.63	-2,682.34	2,335.57	1,025.00	952.29	72.70	14.098			
8,600.00	6,040.00	6,525.48	6,079.08	55.99	31.37	172.99	-2,682.36	2,335.05	925.12	852.41	72.71	12.723			
8,700.00	6,040.00	6,524.83	6,078.84	56.97	31.38	172.26	-2,682.38	2,334.46	825.27	752.55	72.73	11.348			
8,800.00	6,040.00	6,524.10	6,078.56	57.99	31.38	171.41	-2,682.41	2,333.78	725.47	652.73	72.74	9.973			
8,900.00	6,040.00	6,523.24	6,078.23	59.06	31.38	170.42	-2,682.44	2,332.99	625.72	552.96	72.76	8.600			
9,000.00	6,040.00	6,522.24	6,077.84	60.17	31.38	169.24	-2,682.48	2,332.07	526.06	453.28	72.78	7.228			
9,100.00	6,040.00	6,521.05	6,077.38	61.32	31.39	167.83	-2,682.53	2,330.97	426.57	353.75	72.82	5.858			
9,200.00	6,040.00	6,519.61	6,076.82	62.51	31.39	166.11	-2,682.59	2,329.65	327.37	254.52	72.85	4.494			
9,300.00	6,040.00	6,517.84	6,076.13	63.73	31.40	163.96	-2,682.68	2,328.01	228.85	156.01	72.84	3.142			
9,400.00	6,040.00	6,515.59	6,075.24	64.98	31.40	161.22	-2,682.79	2,325.95	132.54	60.22	72.32	1.833			
9,500.00	6,040.00	6,512.65	6,074.09	66.27	31.41	157.62	-2,682.94	2,323.26	52.39	-8.99	61.39	0.853	Level 1		
9,524.19	6,040.00	6,511.81	6,073.75	66.59	31.42	156.57	-2,682.99	2,322.48	46.48	-10.99	57.47	0.809	Level 1, CC, ES, SF		
9,600.00	6,040.00	6,508.67	6,072.50	67.58	31.43	152.71	-2,683.17	2,319.61	88.88	23.76	65.12	1.365	Level 3		
9,700.00	6,040.00	6,502.93	6,070.18	68.92	31.44	145.76	-2,683.55	2,314.37	181.71	112.62	69.09	2.630			
9,800.00	6,040.00	6,493.97	6,066.50	70.29	31.47	135.53	-2,684.23	2,306.23	279.40	209.56	69.84	4.001			
9,900.00	6,040.00	6,484.32	6,062.42	71.67	31.51	125.77	-2,685.07	2,297.53	378.14	308.08	70.06	5.397			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 127-MWD OWSG, 5738-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ RSU ANSCHUTZ FED 4-62-2-3340C - STK 1 - STK 1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,000.00	6,040.00	6,474.67	6,058.15	73.08	31.55	117.44	-2,685.95	2,288.91	477.27	407.13	70.14	6.804			
10,100.00	6,040.00	6,463.91	6,053.17	74.51	31.59	109.71	-2,686.97	2,279.43	576.58	506.44	70.14	8.221			
10,200.00	6,040.00	6,451.86	6,047.32	75.95	31.63	102.68	-2,688.17	2,268.98	675.96	605.88	70.07	9.646			
10,300.00	6,040.00	6,438.31	6,040.38	77.41	31.69	96.33	-2,689.57	2,257.41	775.36	705.39	69.97	11.081			
10,400.00	6,040.00	6,422.97	6,032.10	78.89	31.75	90.59	-2,691.23	2,244.61	874.77	804.92	69.84	12.525			
10,500.00	6,040.00	6,405.52	6,022.14	80.38	31.82	85.37	-2,693.21	2,230.42	974.14	904.45	69.69	13.978			
10,600.00	6,040.00	6,390.26	6,012.97	81.88	31.88	81.60	-2,695.02	2,218.37	1,073.47	1,003.85	69.61	15.421			
10,700.00	6,040.00	6,378.07	6,005.35	83.40	31.93	78.98	-2,696.47	2,208.96	1,172.80	1,103.19	69.61	16.849			
10,800.00	6,040.00	6,365.78	5,997.42	84.93	31.98	76.62	-2,697.93	2,199.68	1,272.14	1,202.54	69.60	18.277			
10,900.00	6,040.00	6,353.43	5,989.21	86.47	32.03	74.47	-2,699.41	2,190.57	1,371.48	1,301.88	69.60	19.705			
11,000.00	6,040.00	6,341.01	5,980.71	88.02	32.08	72.49	-2,700.88	2,181.65	1,470.83	1,401.23	69.60	21.132			
11,100.00	6,040.00	6,328.56	5,971.95	89.58	32.13	70.65	-2,702.36	2,172.93	1,570.18	1,500.58	69.60	22.559			
11,200.00	6,040.00	6,316.09	5,962.94	91.15	32.18	68.94	-2,703.83	2,164.44	1,669.54	1,599.92	69.61	23.983			
11,300.00	6,040.00	6,303.62	5,953.70	92.73	32.23	67.32	-2,705.30	2,156.19	1,768.89	1,699.27	69.62	25.407			
11,400.00	6,040.00	6,302.00	5,952.48	94.31	32.24	67.12	-2,705.49	2,155.14	1,868.27	1,798.53	69.74	26.789			
11,500.00	6,040.00	6,289.26	5,942.80	95.91	32.28	65.58	-2,706.95	2,146.97	1,967.65	1,897.90	69.75	28.211			
11,600.00	6,040.00	6,282.86	5,937.88	97.51	32.31	64.85	-2,707.67	2,142.95	2,067.07	1,997.26	69.81	29.610			
11,700.00	6,040.00	6,276.74	5,933.13	99.11	32.33	64.17	-2,708.34	2,139.15	2,166.52	2,096.65	69.87	31.007			
11,800.00	6,040.00	6,270.87	5,928.54	100.73	32.35	63.53	-2,709.57	2,135.55	2,265.99	2,196.06	69.93	32.403			
11,900.00	6,040.00	6,265.25	5,924.10	102.35	32.37	62.93	-2,709.56	2,132.14	2,365.49	2,295.49	69.99	33.796			
12,000.00	6,040.00	6,259.85	5,919.81	103.97	32.39	62.37	-2,710.11	2,128.91	2,465.00	2,394.95	70.05	35.189			
12,100.00	6,040.00	6,254.66	5,915.67	105.60	32.41	61.85	-2,710.64	2,125.84	2,564.54	2,494.43	70.11	36.579			
12,200.00	6,040.00	6,249.68	5,911.66	107.24	32.43	61.35	-2,711.13	2,122.93	2,664.09	2,593.92	70.17	37.968			
12,300.00	6,040.00	6,244.89	5,907.78	108.88	32.45	60.89	-2,711.60	2,120.16	2,763.66	2,693.44	70.22	39.356			
12,400.00	6,040.00	6,240.29	5,904.03	110.53	32.46	60.44	-2,712.04	2,117.52	2,863.24	2,792.97	70.28	40.741			
12,500.00	6,040.00	6,235.85	5,900.40	112.18	32.48	60.02	-2,712.46	2,115.01	2,962.85	2,892.51	70.33	42.125			
12,600.00	6,040.00	6,231.58	5,896.88	113.83	32.50	59.62	-2,712.85	2,112.61	3,062.46	2,992.07	70.39	43.508			
12,700.00	6,040.00	6,227.46	5,893.48	115.49	32.51	59.25	-2,713.23	2,110.33	3,162.09	3,091.65	70.44	44.889			
12,800.00	6,040.00	6,208.00	5,877.17	117.16	32.58	57.52	-2,714.91	2,099.84	3,261.81	3,191.38	70.43	46.312			
12,900.00	6,040.00	6,208.00	5,877.17	118.82	32.58	57.52	-2,714.91	2,099.84	3,361.43	3,290.93	70.50	47.678			
13,000.00	6,040.00	6,208.00	5,877.17	120.49	32.58	57.52	-2,714.91	2,099.84	3,461.08	3,390.51	70.57	49.043			
13,100.00	6,040.00	6,208.00	5,877.17	122.16	32.58	57.52	-2,714.91	2,099.84	3,560.75	3,490.11	70.64	50.407			
13,200.00	6,040.00	6,208.00	5,877.17	123.84	32.58	57.52	-2,714.91	2,099.84	3,660.43	3,589.72	70.71	51.770			
13,300.00	6,040.00	6,208.00	5,877.17	125.52	32.58	57.52	-2,714.91	2,099.84	3,760.13	3,689.36	70.77	53.132			
13,400.00	6,040.00	6,208.00	5,877.17	127.20	32.58	57.52	-2,714.91	2,099.84	3,859.85	3,789.02	70.83	54.493			
13,500.00	6,040.00	6,208.00	5,877.17	128.89	32.58	57.52	-2,714.91	2,099.84	3,959.58	3,888.68	70.89	55.852			
13,600.00	6,040.00	6,208.00	5,877.17	130.58	32.58	57.52	-2,714.91	2,099.84	4,059.32	3,988.37	70.96	57.210			
13,700.00	6,040.00	6,208.00	5,877.17	132.27	32.58	57.52	-2,714.91	2,099.84	4,159.08	4,088.06	71.01	58.566			
13,800.00	6,040.00	6,208.00	5,877.17	133.96	32.58	57.52	-2,714.91	2,099.84	4,258.85	4,187.77	71.07	59.922			
13,900.00	6,040.00	6,208.00	5,877.17	135.66	32.58	57.52	-2,714.91	2,099.84	4,358.63	4,287.49	71.13	61.276			
14,000.00	6,040.00	6,208.00	5,877.17	137.35	32.58	57.52	-2,714.91	2,099.84	4,458.41	4,387.22	71.19	62.628			
14,100.00	6,040.00	6,208.00	5,877.17	139.05	32.58	57.52	-2,714.91	2,099.84	4,558.21	4,486.97	71.25	63.979			
14,200.00	6,040.00	6,208.00	5,877.17	140.75	32.58	57.52	-2,714.91	2,099.84	4,658.02	4,586.72	71.30	65.329			
14,300.00	6,040.00	6,208.00	5,877.17	142.46	32.58	57.52	-2,714.91	2,099.84	4,757.83	4,686.47	71.36	66.676			
14,400.00	6,040.00	6,208.00	5,877.17	144.17	32.58	57.52	-2,714.91	2,099.84	4,857.65	4,786.24	71.41	68.023			
14,500.00	6,040.00	6,179.11	5,852.40	145.87	32.67	55.14	-2,717.09	2,085.14	4,957.22	4,885.84	71.38	69.450			
14,600.00	6,040.00	6,177.30	5,850.83	147.58	32.67	55.00	-2,717.21	2,084.25	5,057.03	4,985.60	71.43	70.798			
14,700.00	6,040.00	6,175.53	5,849.29	149.29	32.68	54.86	-2,717.33	2,083.39	5,156.84	5,085.36	71.48	72.144			
14,800.00	6,040.00	6,173.82	5,847.80	151.01	32.68	54.73	-2,717.45	2,082.55	5,256.65	5,185.12	71.53	73.489			
14,900.00	6,040.00	6,172.15	5,846.35	152.72	32.69	54.60	-2,717.56	2,081.74	5,356.47	5,284.89	71.58	74.831			
15,000.00	6,040.00	6,170.53	5,844.93	154.44	32.69	54.48	-2,717.66	2,080.96	5,456.30	5,384.67	71.63	76.172			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 127-MWD OWSG, 5738-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,100.00	6,040.00	6,168.96	5,843.56	156.16	32.70	54.35	-2,717.76	2,080.20	5,556.13	5,484.44	71.68	77.511	
15,200.00	6,040.00	6,167.42	5,842.21	157.88	32.70	54.24	-2,717.86	2,079.46	5,655.96	5,584.23	71.73	78.848	
15,300.00	6,040.00	6,165.93	5,840.91	159.60	32.71	54.12	-2,717.95	2,078.75	5,755.80	5,684.02	71.78	80.183	
15,400.00	6,040.00	6,164.48	5,839.63	161.32	32.71	54.01	-2,718.04	2,078.06	5,855.64	5,783.81	71.83	81.516	
15,500.00	6,040.00	6,163.06	5,838.39	163.04	32.72	53.91	-2,718.13	2,077.39	5,955.49	5,883.60	71.89	82.847	
15,600.00	6,040.00	6,161.68	5,837.18	164.77	32.72	53.80	-2,718.21	2,076.74	6,055.34	5,983.40	71.94	84.176	
15,700.00	6,040.00	6,160.34	5,835.99	166.49	32.72	53.70	-2,718.29	2,076.10	6,155.20	6,083.21	71.99	85.503	
15,800.00	6,040.00	6,159.03	5,834.84	168.22	32.73	53.60	-2,718.37	2,075.49	6,255.05	6,183.01	72.04	86.828	
15,900.00	6,040.00	6,157.75	5,833.71	169.95	32.73	53.51	-2,718.45	2,074.89	6,354.92	6,282.82	72.09	88.151	
16,000.00	6,040.00	6,156.50	5,832.61	171.68	32.74	53.42	-2,718.52	2,074.30	6,454.78	6,382.64	72.14	89.472	
16,100.00	6,040.00	6,155.28	5,831.53	173.41	32.74	53.33	-2,718.59	2,073.74	6,554.65	6,482.45	72.19	90.791	
16,200.00	6,040.00	6,154.09	5,830.48	175.14	32.74	53.24	-2,718.66	2,073.19	6,654.52	6,582.27	72.25	92.108	
16,300.00	6,040.00	6,152.93	5,829.45	176.88	32.75	53.15	-2,718.72	2,072.65	6,754.39	6,682.10	72.30	93.423	
16,400.00	6,040.00	6,151.80	5,828.45	178.61	32.75	53.07	-2,718.78	2,072.13	6,854.27	6,781.92	72.35	94.736	
16,500.00	6,040.00	6,150.69	5,827.47	180.34	32.75	52.99	-2,718.85	2,071.62	6,954.15	6,881.75	72.40	96.046	
16,600.00	6,040.00	6,149.61	5,826.51	182.08	32.76	52.91	-2,718.90	2,071.12	7,054.04	6,981.58	72.46	97.355	
16,700.00	6,040.00	6,148.55	5,825.57	183.82	32.76	52.83	-2,718.96	2,070.64	7,153.92	7,081.41	72.51	98.661	
16,800.00	6,040.00	6,147.52	5,824.65	185.56	32.76	52.76	-2,719.02	2,070.17	7,253.81	7,181.25	72.56	99.965	
16,865.66	6,040.00	6,114.00	5,794.52	186.70	32.86	50.42	-2,720.53	2,055.58	7,319.70	7,247.14	72.56	100.880	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES 11-14-3HNB - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-92.82	-120.10	-2,436.15	2,439.22						
100.00	100.00	75.36	75.36	0.13	0.21	-92.82	-120.08	-2,436.17	2,439.13	2,438.79	0.34	7,098.140	CC, ES		
200.00	199.98	172.61	172.61	0.49	0.56	-167.19	-119.96	-2,436.30	2,440.96	2,439.91	1.05	2,325.375			
300.00	299.84	269.80	269.80	0.86	0.90	-167.19	-119.75	-2,436.54	2,446.30	2,444.53	1.76	1,388.226			
400.00	399.45	366.95	366.95	1.23	1.25	-167.19	-119.80	-2,436.86	2,455.13	2,452.66	2.47	993.451			
500.00	498.70	461.90	461.90	1.63	1.58	-167.21	-120.21	-2,437.27	2,467.47	2,464.29	3.18	777.005			
600.00	597.47	555.34	555.34	2.05	1.91	-167.22	-120.67	-2,437.89	2,483.41	2,479.53	3.88	640.157			
700.00	695.62	650.87	650.86	2.51	2.25	-167.24	-121.10	-2,438.65	2,502.84	2,498.24	4.60	544.355			
800.00	793.06	746.90	746.88	3.00	2.59	-167.25	-121.48	-2,439.50	2,525.69	2,520.37	5.32	474.474			
900.00	889.64	845.16	845.14	3.54	2.94	-167.27	-121.85	-2,440.35	2,551.83	2,545.77	6.06	420.900			
1,000.00	985.27	952.13	952.11	4.13	3.32	-167.30	-122.06	-2,441.11	2,581.11	2,574.28	6.84	377.564			
1,100.00	1,079.82	1,058.93	1,058.90	4.77	3.69	-167.29	-120.46	-2,441.26	2,612.98	2,605.37	7.61	343.434			
1,200.00	1,173.17	1,178.12	1,177.97	5.46	4.10	-167.23	-115.45	-2,441.09	2,647.69	2,639.26	8.43	314.032			
1,300.00	1,265.23	1,289.79	1,289.31	6.21	4.49	-167.11	-107.01	-2,440.03	2,684.56	2,675.31	9.25	290.332			
1,400.00	1,356.75	1,356.49	1,355.67	7.00	4.73	-167.10	-100.28	-2,439.63	2,722.82	2,712.92	9.89	275.281			
1,500.00	1,448.28	1,426.61	1,425.34	7.80	4.98	-167.06	-92.38	-2,439.88	2,761.89	2,751.33	10.55	261.686			
1,600.00	1,539.81	1,515.55	1,513.53	8.60	5.31	-166.98	-80.88	-2,440.88	2,801.55	2,790.25	11.30	247.885			
1,700.00	1,631.34	1,633.85	1,630.33	9.41	5.77	-166.80	-62.16	-2,441.58	2,840.56	2,828.37	12.19	232.957			
1,800.00	1,722.86	1,743.23	1,738.20	10.23	6.19	-166.63	-44.09	-2,441.51	2,878.96	2,865.90	13.06	220.416			
1,900.00	1,814.39	1,828.32	1,822.06	11.05	6.54	-166.49	-29.66	-2,441.25	2,917.14	2,903.30	13.84	210.817			
2,000.00	1,905.92	1,907.63	1,900.10	11.87	6.86	-166.35	-15.49	-2,441.39	2,955.72	2,941.13	14.59	202.563			
2,100.00	1,997.45	2,009.32	2,000.04	12.69	7.29	-166.16	3.27	-2,441.84	2,994.56	2,979.10	15.46	193.703			
2,200.00	2,088.97	2,141.46	2,130.31	13.52	7.84	-165.97	25.41	-2,440.97	3,032.47	3,015.98	16.48	183.982			
2,300.00	2,180.50	2,230.85	2,218.56	14.35	8.21	-165.86	39.57	-2,439.78	3,069.82	3,052.52	17.30	177.453			
2,400.00	2,272.03	2,319.94	2,306.46	15.17	8.58	-165.75	54.03	-2,438.72	3,107.28	3,089.16	18.12	171.517			
2,500.00	2,363.56	2,403.65	2,388.99	16.00	8.94	-165.64	68.04	-2,437.90	3,144.93	3,126.01	18.92	166.253			
2,600.00	2,455.08	2,486.26	2,470.33	16.83	9.30	-165.52	82.45	-2,437.36	3,182.87	3,163.15	19.71	161.457			
2,700.00	2,546.61	2,597.57	2,579.82	17.66	9.78	-165.35	102.50	-2,436.68	3,220.87	3,200.20	20.67	155.825			
2,800.00	2,638.14	2,732.18	2,712.23	18.50	10.37	-165.15	126.58	-2,434.37	3,257.83	3,236.08	21.76	149.741			
2,900.00	2,729.67	2,863.51	2,841.67	19.33	10.93	-165.00	148.44	-2,430.44	3,293.68	3,270.86	22.82	144.357			
3,000.00	2,821.19	2,952.85	2,929.88	20.16	11.32	-164.92	162.14	-2,427.08	3,328.86	3,305.21	23.65	140.738			
3,100.00	2,912.72	3,024.12	3,000.31	20.99	11.62	-164.86	172.88	-2,424.82	3,364.59	3,340.20	24.39	137.938			
3,200.00	3,004.25	3,095.99	3,071.35	21.83	11.92	-164.80	183.60	-2,423.00	3,400.93	3,375.80	25.13	135.322			
3,300.00	3,095.78	3,183.29	3,157.74	22.66	12.29	-164.75	196.02	-2,421.11	3,437.64	3,411.69	25.95	132.492			
3,400.00	3,187.30	3,270.53	3,244.21	23.50	12.65	-164.71	207.42	-2,419.34	3,474.50	3,447.74	26.76	129.847			
3,500.00	3,278.83	3,347.63	3,320.71	24.33	12.96	-164.69	216.89	-2,417.97	3,511.63	3,484.12	27.51	127.653			
3,600.00	3,370.36	3,422.44	3,394.97	25.16	13.27	-164.67	225.94	-2,417.01	3,549.22	3,520.97	28.24	125.659			
3,700.00	3,461.89	3,498.32	3,470.32	26.00	13.57	-164.65	234.91	-2,416.42	3,587.27	3,558.29	28.98	123.779			
3,800.00	3,553.41	3,576.62	3,548.24	26.83	13.87	-164.66	242.54	-2,416.08	3,625.70	3,595.99	29.72	122.006			
3,900.00	3,644.94	3,652.97	3,624.47	27.67	14.15	-164.73	246.87	-2,415.98	3,664.52	3,634.10	30.41	120.487			
4,000.00	3,736.47	3,770.14	3,741.61	28.51	14.52	-164.94	246.84	-2,415.53	3,703.26	3,672.01	31.25	118.499			
4,100.00	3,828.00	3,864.54	3,835.99	29.34	14.80	-165.13	245.15	-2,414.71	3,741.65	3,709.69	31.96	117.076			
4,200.00	3,919.52	3,945.73	3,917.17	30.18	15.04	-165.29	243.73	-2,414.10	3,780.16	3,747.55	32.62	115.893			
4,300.00	4,011.05	4,026.75	3,998.17	31.01	15.29	-165.45	242.36	-2,413.72	3,818.97	3,785.69	33.27	114.772			
4,400.00	4,102.58	4,128.44	4,099.84	31.85	15.59	-165.65	240.47	-2,413.25	3,857.82	3,823.79	34.02	113.388			
4,500.00	4,194.11	4,232.09	4,203.47	32.68	15.91	-165.85	238.06	-2,412.45	3,896.44	3,861.66	34.78	112.032			
4,600.00	4,285.64	4,342.42	4,313.75	33.52	16.25	-166.06	235.42	-2,411.16	3,934.72	3,899.15	35.57	110.624			
4,700.00	4,377.16	4,460.35	4,431.64	34.36	16.61	-166.28	232.78	-2,409.15	3,972.55	3,936.16	36.39	109.156			
4,800.00	4,468.69	4,586.50	4,557.72	35.19	17.00	-166.51	230.01	-2,406.01	4,009.68	3,972.42	37.26	107.623			
4,900.00	4,560.22	4,681.76	4,652.92	36.03	17.30	-166.68	228.22	-2,403.22	4,046.42	4,008.43	37.99	106.516			
5,000.00	4,651.75	4,733.72	4,704.86	36.87	17.47	-166.76	227.47	-2,401.96	4,083.62	4,045.09	38.53	105.992			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES 11-14-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
5,100.00	4,743.27	4,794.85	4,765.98	37.70	17.67	-166.86	226.79	-2,401.08	4,121.69	4,082.59	39.10	105.401				
5,200.00	4,834.80	4,875.80	4,846.92	38.54	17.93	-166.98	225.85	-2,400.22	4,160.19	4,120.42	39.77	104.594				
5,300.00	4,926.33	4,956.55	4,927.66	39.38	18.19	-167.11	224.80	-2,399.58	4,198.95	4,158.51	40.44	103.827				
5,400.00	5,017.86	5,022.60	4,993.70	40.21	18.40	-167.21	223.86	-2,399.33	4,238.12	4,197.09	41.04	103.276				
5,500.00	5,109.38	5,089.00	5,060.10	41.05	18.61	-167.31	222.94	-2,399.48	4,277.88	4,236.24	41.63	102.753				
5,600.00	5,200.91	5,159.07	5,130.16	41.89	18.84	-167.41	222.50	-2,400.08	4,318.15	4,275.90	42.25	102.212				
5,700.00	5,292.44	5,258.62	5,229.70	42.73	19.17	-167.54	222.09	-2,401.06	4,358.55	4,315.54	43.01	101.330				
5,800.00	5,383.97	5,358.29	5,329.37	43.56	19.50	-167.67	221.42	-2,401.82	4,398.80	4,355.02	43.78	100.475				
5,900.00	5,475.51	5,419.74	5,390.81	44.40	19.70	-172.11	221.27	-2,402.52	4,439.33	4,394.98	44.35	100.094				
6,000.00	5,567.37	5,497.12	5,468.19	45.19	19.96	160.47	221.45	-2,403.76	4,479.81	4,434.84	44.97	99.622				
6,100.00	5,657.57	6,100.00	5,650.04	45.89	21.86	137.76	218.22	-2,405.77	4,518.88	4,471.52	47.36	95.412				
6,200.00	5,743.38	5,723.00	5,693.20	46.48	20.67	121.27	210.39	-2,405.16	4,553.81	4,507.47	46.33	98.282				
6,300.00	5,822.18	5,723.00	5,693.20	46.95	20.67	109.63	210.39	-2,405.16	4,586.65	4,540.28	46.38	98.901				
6,400.00	5,891.60	5,751.34	5,720.74	47.31	20.74	101.51	203.70	-2,405.53	4,616.47	4,569.97	46.50	99.277				
6,500.00	5,949.50	5,772.00	5,740.60	47.58	20.80	95.70	198.05	-2,406.05	4,642.44	4,595.86	46.58	99.657				
6,600.00	5,994.15	5,818.00	5,784.05	47.76	20.90	91.89	183.05	-2,407.48	4,663.67	4,616.89	46.78	99.686				
6,700.00	6,024.17	6,292.00	6,104.30	47.86	21.93	92.03	-141.53	-2,399.72	4,676.50	4,628.09	48.42	96.592				
6,800.00	6,038.67	6,800.00	6,124.93	47.91	24.10	91.32	-215.69	-2,395.41	4,679.45	4,628.71	50.74	92.217				
6,900.00	6,040.00	6,596.01	6,178.04	47.93	23.47	91.98	-435.21	-2,379.67	4,676.27	4,625.55	50.72	92.191				
7,000.00	6,040.00	6,657.91	6,182.42	47.98	23.90	92.03	-496.76	-2,374.80	4,671.01	4,619.43	51.58	90.562				
7,100.00	6,040.00	6,722.24	6,183.20	48.09	24.37	92.04	-560.91	-2,370.38	4,666.54	4,613.99	52.55	88.800				
7,200.00	6,040.00	6,794.00	6,181.31	48.23	24.94	92.02	-632.52	-2,366.07	4,662.79	4,609.07	53.71	86.811				
7,300.00	6,040.00	7,049.08	6,176.76	48.43	27.42	91.97	-886.87	-2,347.93	4,658.54	4,601.24	57.30	81.302				
7,400.00	6,040.00	7,112.06	6,174.86	48.67	28.12	91.95	-949.57	-2,342.32	4,651.97	4,593.22	58.75	79.181				
7,500.00	6,040.00	7,173.00	6,173.94	48.97	28.81	91.94	-1,010.33	-2,337.72	4,646.60	4,586.34	60.25	77.119				
7,600.00	6,040.00	7,202.54	6,173.74	49.32	29.16	91.94	-1,039.81	-2,335.83	4,642.27	4,580.91	61.36	75.656				
7,700.00	6,040.00	7,269.00	6,173.14	49.73	29.95	91.93	-1,106.17	-2,332.38	4,639.26	4,576.19	63.07	73.558				
7,800.00	6,040.00	7,319.21	6,172.29	50.19	30.57	91.92	-1,156.34	-2,330.24	4,637.08	4,572.48	64.60	71.786				
7,900.00	6,040.00	7,900.00	6,168.82	50.71	38.06	91.88	-1,278.10	-2,324.81	4,634.90	4,561.60	73.30	63.235				
8,000.00	6,040.00	7,576.21	6,165.52	51.29	33.93	91.84	-1,412.92	-2,317.45	4,631.59	4,561.08	70.51	65.684				
8,100.00	6,040.00	7,629.20	6,165.56	51.93	34.66	91.84	-1,465.84	-2,314.81	4,628.98	4,556.70	72.28	64.040				
8,200.00	6,040.00	7,694.22	6,166.92	52.63	35.57	91.86	-1,530.79	-2,312.15	4,627.31	4,552.99	74.31	62.266				
8,300.00	6,040.00	7,764.73	6,167.86	53.39	36.57	91.87	-1,601.25	-2,309.71	4,626.27	4,549.78	76.49	60.485				
8,400.00	6,040.00	7,838.00	6,168.04	54.20	37.62	91.87	-1,674.49	-2,307.72	4,625.91	4,547.16	78.75	58.744				
8,500.00	6,040.00	8,500.00	6,166.81	55.07	47.43	91.86	-1,829.06	-2,303.12	4,625.34	4,535.13	90.21	51.276				
8,600.00	6,040.00	8,133.21	6,166.84	55.99	42.00	91.86	-1,969.49	-2,296.98	4,623.24	4,536.84	86.40	53.508				
8,700.00	6,040.00	8,230.48	6,166.32	56.97	43.50	91.85	-2,066.66	-2,292.66	4,621.15	4,531.84	89.32	51.738				
8,800.00	6,040.00	8,374.95	6,166.13	57.99	45.75	91.85	-2,210.93	-2,285.20	4,618.28	4,525.01	93.27	49.516				
8,900.00	6,040.00	8,539.04	6,164.44	59.06	48.36	91.83	-2,374.69	-2,274.99	4,614.33	4,516.64	97.70	47.232				
9,000.00	6,040.00	8,640.30	6,165.77	60.17	49.99	91.85	-2,475.70	-2,268.10	4,609.95	4,509.10	100.85	45.711				
9,100.00	6,040.00	8,756.19	6,167.58	61.32	51.88	91.88	-2,591.29	-2,259.79	4,605.19	4,500.84	104.35	44.132				
9,200.00	6,040.00	8,823.40	6,168.48	62.51	52.98	91.89	-2,658.32	-2,255.03	4,600.57	4,493.75	106.82	43.068				
9,300.00	6,040.00	8,881.00	6,168.55	63.73	53.92	91.89	-2,715.82	-2,251.60	4,596.95	4,487.86	109.09	42.139				
9,400.00	6,040.00	8,950.61	6,168.36	64.98	55.06	91.89	-2,785.34	-2,248.01	4,594.12	4,482.50	111.63	41.156				
9,500.00	6,040.00	9,009.14	6,168.40	66.27	56.02	91.89	-2,843.80	-2,245.31	4,591.94	4,478.01	113.93	40.306				
9,600.00	6,040.00	9,071.00	6,168.29	67.58	57.04	91.89	-2,905.63	-2,243.25	4,590.86	4,474.56	116.30	39.474				
9,700.00	6,040.00	9,207.83	6,168.56	68.92	59.30	91.89	-3,042.36	-2,238.16	4,589.49	4,469.10	120.39	38.123				
9,800.00	6,040.00	9,302.23	6,168.33	70.29	60.88	91.89	-3,136.69	-2,234.61	4,588.08	4,464.55	123.53	37.141				
9,900.00	6,040.00	9,474.49	6,168.52	71.67	63.76	91.89	-3,308.75	-2,226.27	4,585.50	4,457.03	128.47	35.694				
10,000.00	6,040.00	9,779.04	6,168.58	73.08	68.94	91.90	-3,612.50	-2,205.22	4,582.56	4,446.20	136.36	33.607				
10,100.00	6,040.00	9,861.14	6,168.76	74.51	70.35	91.91	-3,694.22	-2,197.31	4,575.28	4,435.95	139.33	32.839				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES 11-14-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,200.00	6,040.00	9,952.82	6,168.76	75.95	71.93	91.91	-3,785.48	-2,188.54	4,568.09	4,425.58	142.51	32.054				
10,300.00	6,040.00	10,021.00	6,168.55	77.41	73.11	91.91	-3,853.38	-2,182.41	4,561.46	4,416.28	145.18	31.419				
10,400.00	6,040.00	10,116.00	6,167.63	78.89	74.75	91.90	-3,947.98	-2,173.78	4,554.74	4,406.29	148.46	30.681				
10,500.00	6,040.00	10,167.85	6,167.07	80.38	75.65	91.89	-3,999.64	-2,169.37	4,548.81	4,398.05	150.76	30.173				
10,600.00	6,040.00	10,211.00	6,166.91	81.88	76.39	91.89	-4,042.70	-2,166.51	4,544.40	4,391.55	152.85	29.731				
10,700.00	6,040.00	10,306.00	6,166.76	83.40	78.03	91.89	-4,137.50	-2,160.39	4,540.34	4,384.21	156.13	29.080				
10,800.00	6,040.00	10,365.83	6,166.59	84.93	79.06	91.89	-4,197.21	-2,156.70	4,536.72	4,378.12	158.60	28.605				
10,900.00	6,040.00	10,416.37	6,166.43	86.47	79.93	91.89	-4,247.70	-2,154.39	4,534.44	4,373.60	160.84	28.193				
11,000.00	6,040.00	10,496.00	6,165.03	88.02	81.30	91.87	-4,327.25	-2,151.14	4,532.71	4,368.95	163.76	27.680				
11,100.00	6,040.00	10,547.77	6,164.07	89.58	82.19	91.86	-4,378.98	-2,149.42	4,531.78	4,365.78	166.00	27.299				
11,124.46	6,040.00	10,558.67	6,163.99	89.96	82.38	91.86	-4,389.87	-2,149.15	4,531.75	4,365.24	166.51	27.216				
11,200.00	6,040.00	10,594.59	6,164.05	91.15	83.00	91.86	-4,425.78	-2,148.47	4,532.09	4,363.98	168.11	26.958				
11,300.00	6,040.00	10,707.64	6,164.20	92.73	84.93	91.86	-4,538.82	-2,146.54	4,532.76	4,360.92	171.84	26.377				
11,400.00	6,040.00	10,798.82	6,164.21	94.31	86.50	91.86	-4,629.99	-2,145.03	4,533.47	4,358.43	175.04	25.899				
11,500.00	6,040.00	10,828.00	6,164.24	95.91	87.00	91.86	-4,659.17	-2,144.56	4,534.80	4,358.10	176.70	25.664				
11,600.00	6,040.00	10,828.00	6,164.24	97.51	87.00	91.86	-4,659.17	-2,144.56	4,538.25	4,360.68	177.56	25.558				
11,700.00	6,040.00	10,828.00	6,164.24	99.11	87.00	91.86	-4,659.17	-2,144.56	4,543.89	4,365.54	178.35	25.477				
11,800.00	6,040.00	10,828.00	6,164.24	100.73	87.00	91.86	-4,659.17	-2,144.56	4,551.72	4,372.66	179.06	25.420				
11,900.00	6,040.00	10,828.00	6,164.24	102.35	87.00	91.86	-4,659.17	-2,144.56	4,561.73	4,382.04	179.69	25.386				
12,000.00	6,040.00	10,828.00	6,164.24	103.97	87.00	91.86	-4,659.17	-2,144.56	4,573.91	4,393.66	180.25	25.376 SF				
12,100.00	6,040.00	10,828.00	6,164.24	105.60	87.00	91.86	-4,659.17	-2,144.56	4,588.23	4,407.52	180.72	25.389				
12,200.00	6,040.00	10,828.00	6,164.24	107.24	87.00	91.86	-4,659.17	-2,144.56	4,604.69	4,423.57	181.12	25.424				
12,300.00	6,040.00	10,828.00	6,164.24	108.88	87.00	91.86	-4,659.17	-2,144.56	4,623.24	4,441.81	181.43	25.482				
12,400.00	6,040.00	10,828.00	6,164.24	110.53	87.00	91.86	-4,659.17	-2,144.56	4,643.88	4,462.20	181.68	25.561				
12,500.00	6,040.00	10,828.00	6,164.24	112.18	87.00	91.86	-4,659.17	-2,144.56	4,666.57	4,484.72	181.85	25.662				
12,600.00	6,040.00	10,828.00	6,164.24	113.83	87.00	91.86	-4,659.17	-2,144.56	4,691.28	4,509.33	181.95	25.784				
12,700.00	6,040.00	10,828.00	6,164.24	115.49	87.00	91.86	-4,659.17	-2,144.56	4,717.98	4,536.01	181.98	25.927				
12,800.00	6,040.00	10,828.00	6,164.24	117.16	87.00	91.86	-4,659.17	-2,144.56	4,746.64	4,564.71	181.94	26.090				
12,900.00	6,040.00	10,828.00	6,164.24	118.82	87.00	91.86	-4,659.17	-2,144.56	4,777.22	4,595.39	181.83	26.273				
13,000.00	6,040.00	10,828.00	6,164.24	120.49	87.00	91.86	-4,659.17	-2,144.56	4,809.69	4,628.02	181.67	26.476				
13,100.00	6,040.00	10,828.00	6,164.24	122.16	87.00	91.86	-4,659.17	-2,144.56	4,844.00	4,662.56	181.44	26.698				
13,200.00	6,040.00	10,828.00	6,164.24	123.84	87.00	91.86	-4,659.17	-2,144.56	4,880.12	4,698.97	181.16	26.939				
13,300.00	6,040.00	10,828.00	6,164.24	125.52	87.00	91.86	-4,659.17	-2,144.56	4,918.01	4,737.19	180.82	27.199				
13,400.00	6,040.00	10,828.00	6,164.24	127.20	87.00	91.86	-4,659.17	-2,144.56	4,957.63	4,777.20	180.43	27.477				
13,500.00	6,040.00	10,828.00	6,164.24	128.89	87.00	91.86	-4,659.17	-2,144.56	4,998.93	4,818.94	179.99	27.773				
13,600.00	6,040.00	10,828.00	6,164.24	130.58	87.00	91.86	-4,659.17	-2,144.56	5,041.88	4,862.37	179.51	28.086				
13,700.00	6,040.00	10,828.00	6,164.24	132.27	87.00	91.86	-4,659.17	-2,144.56	5,086.43	4,907.44	178.99	28.417				
13,800.00	6,040.00	10,828.00	6,164.24	133.96	87.00	91.86	-4,659.17	-2,144.56	5,132.55	4,954.12	178.43	28.765				
13,900.00	6,040.00	10,828.00	6,164.24	135.66	87.00	91.86	-4,659.17	-2,144.56	5,180.18	5,002.35	177.83	29.130				
14,000.00	6,040.00	10,828.00	6,164.24	137.35	87.00	91.86	-4,659.17	-2,144.56	5,229.30	5,052.09	177.20	29.510				
14,100.00	6,040.00	10,828.00	6,164.24	139.05	87.00	91.86	-4,659.17	-2,144.56	5,279.85	5,103.31	176.54	29.907				
14,200.00	6,040.00	10,828.00	6,164.24	140.75	87.00	91.86	-4,659.17	-2,144.56	5,331.79	5,155.94	175.85	30.320				
14,300.00	6,040.00	10,828.00	6,164.24	142.46	87.00	91.86	-4,659.17	-2,144.56	5,385.10	5,209.96	175.14	30.748				
14,400.00	6,040.00	10,828.00	6,164.24	144.17	87.00	91.86	-4,659.17	-2,144.56	5,439.72	5,265.31	174.40	31.191				
14,500.00	6,040.00	10,828.00	6,164.24	145.87	87.00	91.86	-4,659.17	-2,144.56	5,495.61	5,321.97	173.64	31.649				
14,600.00	6,040.00	10,828.00	6,164.24	147.58	87.00	91.86	-4,659.17	-2,144.56	5,552.75	5,379.88	172.87	32.121				
14,700.00	6,040.00	10,828.00	6,164.24	149.29	87.00	91.86	-4,659.17	-2,144.56	5,611.08	5,439.00	172.08	32.608				
14,800.00	6,040.00	10,828.00	6,164.24	151.01	87.00	91.86	-4,659.17	-2,144.56	5,670.58	5,499.31	171.27	33.108				
14,900.00	6,040.00	10,828.00	6,164.24	152.72	87.00	91.86	-4,659.17	-2,144.56	5,731.21	5,560.75	170.46	33.622				
15,000.00	6,040.00	10,828.00	6,164.24	154.44	87.00	91.86	-4,659.17	-2,144.56	5,792.92	5,623.29	169.63	34.150				
15,100.00	6,040.00	10,828.00	6,164.24	156.16	87.00	91.86	-4,659.17	-2,144.56	5,855.70	5,686.90	168.80	34.691				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG												Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,200.00	6,040.00	10,828.00	6,164.24	157.88	87.00	91.86	-4,659.17	-2,144.56	5,919.50	5,751.54	167.96	35.244		
15,300.00	6,040.00	10,828.00	6,164.24	159.60	87.00	91.86	-4,659.17	-2,144.56	5,984.29	5,817.18	167.11	35.810		
15,400.00	6,040.00	10,828.00	6,164.24	161.32	87.00	91.86	-4,659.17	-2,144.56	6,050.04	5,883.77	166.26	36.389		
15,500.00	6,040.00	10,828.00	6,164.24	163.04	87.00	91.86	-4,659.17	-2,144.56	6,116.71	5,951.30	165.41	36.979		
15,600.00	6,040.00	10,828.00	6,164.24	164.77	87.00	91.86	-4,659.17	-2,144.56	6,184.29	6,019.73	164.56	37.581		
15,700.00	6,040.00	10,828.00	6,164.24	166.49	87.00	91.86	-4,659.17	-2,144.56	6,252.73	6,089.03	163.70	38.195		
15,800.00	6,040.00	10,828.00	6,164.24	168.22	87.00	91.86	-4,659.17	-2,144.56	6,322.02	6,159.17	162.85	38.820		
15,900.00	6,040.00	10,828.00	6,164.24	169.95	87.00	91.86	-4,659.17	-2,144.56	6,392.12	6,230.11	162.00	39.457		
16,000.00	6,040.00	10,828.00	6,164.24	171.68	87.00	91.86	-4,659.17	-2,144.56	6,463.00	6,301.85	161.16	40.104		
16,100.00	6,040.00	10,828.00	6,164.24	173.41	87.00	91.86	-4,659.17	-2,144.56	6,534.65	6,374.34	160.31	40.761		
16,200.00	6,040.00	10,828.00	6,164.24	175.14	87.00	91.86	-4,659.17	-2,144.56	6,607.03	6,447.56	159.48	41.430		
16,300.00	6,040.00	10,828.00	6,164.24	176.88	87.00	91.86	-4,659.17	-2,144.56	6,680.13	6,521.49	158.64	42.108		
16,400.00	6,040.00	10,828.00	6,164.24	178.61	87.00	91.86	-4,659.17	-2,144.56	6,753.92	6,596.10	157.82	42.796		
16,500.00	6,040.00	10,828.00	6,164.24	180.34	87.00	91.86	-4,659.17	-2,144.56	6,828.37	6,671.37	157.00	43.494		
16,600.00	6,040.00	10,828.00	6,164.24	182.08	87.00	91.86	-4,659.17	-2,144.56	6,903.47	6,747.29	156.18	44.201		
16,700.00	6,040.00	10,828.00	6,164.24	183.82	87.00	91.86	-4,659.17	-2,144.56	6,979.19	6,823.82	155.38	44.918		
16,800.00	6,040.00	10,828.00	6,164.24	185.56	87.00	91.86	-4,659.17	-2,144.56	7,055.52	6,900.94	154.58	45.644		
16,865.66	6,040.00	10,828.00	6,164.24	186.70	87.00	91.86	-4,659.17	-2,144.56	7,105.95	6,951.90	154.06	46.126		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES A11-E14-3HNC - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-94.71	-200.25	-2,430.59	2,438.93						
100.00	100.00	79.85	79.85	0.13	0.23	-94.71	-200.22	-2,430.55	2,438.79	2,438.43	0.36	6,779.517			
103.61	103.61	83.63	83.63	0.15	0.24	-169.08	-200.22	-2,430.55	2,438.79	2,438.40	0.39	6,314.766	CC, ES		
200.00	199.98	184.58	184.58	0.49	0.60	-169.08	-200.06	-2,430.34	2,440.29	2,439.19	1.09	2,235.083			
300.00	299.84	289.21	289.21	0.86	0.98	-169.08	-199.75	-2,429.94	2,445.02	2,443.19	1.83	1,335.183			
400.00	399.45	393.64	393.64	1.23	1.35	-169.08	-199.29	-2,429.34	2,452.97	2,450.40	2.57	953.433			
500.00	498.70	485.40	485.40	1.63	1.68	-169.08	-198.88	-2,428.91	2,464.43	2,461.16	3.27	753.005			
600.00	597.47	583.24	583.23	2.05	2.03	-169.08	-198.48	-2,428.63	2,479.48	2,475.49	4.00	620.287			
700.00	695.62	685.81	685.80	2.51	2.40	-169.08	-198.03	-2,428.21	2,497.80	2,493.05	4.74	526.691			
800.00	793.06	785.30	785.29	3.00	2.75	-169.09	-197.58	-2,427.67	2,519.34	2,513.85	5.48	459.639			
900.00	889.64	882.69	882.67	3.54	3.10	-169.10	-197.30	-2,427.09	2,544.18	2,537.96	6.22	409.201			
1,000.00	985.27	976.51	976.49	4.13	3.44	-169.11	-197.10	-2,426.54	2,572.35	2,565.40	6.95	370.315			
1,100.00	1,079.82	1,068.11	1,068.09	4.77	3.76	-169.11	-196.77	-2,426.11	2,603.91	2,596.24	7.67	339.364			
1,200.00	1,173.17	1,159.70	1,159.69	5.46	4.09	-169.10	-196.37	-2,425.80	2,638.82	2,630.41	8.40	313.983			
1,300.00	1,265.23	1,250.68	1,250.66	6.21	4.41	-169.12	-196.16	-2,425.51	2,676.95	2,667.81	9.14	292.755			
1,400.00	1,356.75	1,344.74	1,344.72	7.00	4.75	-169.28	-196.17	-2,425.20	2,716.33	2,706.45	9.88	274.944			
1,500.00	1,448.28	1,441.99	1,441.97	7.80	5.09	-169.45	-196.31	-2,424.69	2,755.57	2,744.94	10.63	259.200			
1,600.00	1,539.81	1,519.63	1,519.61	8.60	5.36	-169.58	-196.32	-2,424.28	2,794.83	2,783.52	11.31	247.148			
1,700.00	1,631.34	1,583.78	1,583.75	9.41	5.59	-169.66	-195.32	-2,424.64	2,834.91	2,822.98	11.93	237.596			
1,800.00	1,722.86	1,647.49	1,647.41	10.23	5.81	-169.71	-193.27	-2,425.72	2,875.88	2,863.33	12.55	229.120			
1,900.00	1,814.39	1,716.26	1,716.08	11.05	6.05	-169.75	-189.97	-2,427.64	2,917.67	2,904.48	13.19	221.180			
2,000.00	1,905.92	1,787.89	1,787.52	11.87	6.30	-169.76	-185.63	-2,430.21	2,960.07	2,946.23	13.84	213.845			
2,100.00	1,997.45	1,862.00	1,861.37	12.69	6.55	-169.75	-180.19	-2,433.46	3,003.05	2,988.54	14.50	207.063			
2,200.00	2,088.97	1,904.67	1,903.82	13.52	6.71	-169.73	-176.67	-2,435.83	3,046.95	3,031.93	15.03	202.763			
2,300.00	2,180.50	1,957.00	1,955.81	14.35	6.89	-169.70	-172.03	-2,439.60	3,092.22	3,076.63	15.59	198.358			
2,400.00	2,272.03	1,993.17	1,991.66	15.17	7.02	-169.68	-168.42	-2,442.78	3,138.72	3,122.65	16.07	195.279			
2,500.00	2,363.56	2,052.00	2,049.74	16.00	7.24	-169.61	-161.37	-2,448.94	3,186.54	3,169.88	16.66	191.261			
2,600.00	2,455.08	2,103.56	2,100.51	16.83	7.43	-169.54	-154.69	-2,454.90	3,235.23	3,218.01	17.21	187.939			
2,700.00	2,546.61	2,188.25	2,183.94	17.66	7.75	-169.43	-144.04	-2,464.85	3,284.26	3,266.32	17.94	183.115			
2,800.00	2,638.14	2,336.02	2,329.43	18.50	8.33	-169.22	-124.16	-2,481.33	3,332.88	3,313.88	19.00	175.435			
2,900.00	2,729.67	2,446.44	2,438.14	19.33	8.77	-169.05	-107.95	-2,491.87	3,379.79	3,359.91	19.88	170.003			
3,000.00	2,821.19	2,497.56	2,488.29	20.16	8.98	-168.95	-99.53	-2,497.04	3,427.12	3,406.67	20.45	167.576			
3,100.00	2,912.72	2,570.50	2,559.77	20.99	9.29	-168.81	-87.43	-2,505.13	3,475.30	3,454.16	21.14	164.369			
3,200.00	3,004.25	2,671.33	2,658.70	21.83	9.71	-168.64	-71.35	-2,516.03	3,523.32	3,501.32	22.00	160.180			
3,300.00	3,095.78	2,747.38	2,733.48	22.66	10.03	-168.53	-60.05	-2,524.05	3,571.23	3,548.52	22.71	157.276			
3,400.00	3,187.30	2,811.00	2,796.13	23.50	10.30	-168.46	-51.58	-2,531.17	3,619.77	3,596.43	23.34	155.069			
3,500.00	3,278.83	2,936.36	2,919.70	24.33	10.82	-168.33	-35.62	-2,545.01	3,668.34	3,644.01	24.33	150.754			
3,600.00	3,370.36	3,070.60	3,052.48	25.16	11.38	-168.24	-20.35	-2,557.57	3,715.36	3,690.00	25.37	146.456			
3,700.00	3,461.89	3,128.62	3,109.95	26.00	11.61	-168.21	-14.47	-2,562.82	3,762.36	3,736.40	25.97	144.887			
3,800.00	3,553.41	3,190.00	3,170.70	26.83	11.87	-168.18	-8.44	-2,569.21	3,810.41	3,783.83	26.58	143.344			
3,900.00	3,644.94	3,299.53	3,278.89	27.67	12.32	-168.11	4.01	-2,580.82	3,858.72	3,831.24	27.48	140.402			
4,000.00	3,736.47	3,342.92	3,321.62	28.51	12.51	-168.06	9.97	-2,585.52	3,906.90	3,878.90	28.01	139.502			
4,100.00	3,828.00	3,381.00	3,359.00	29.34	12.68	-168.02	15.66	-2,589.96	3,955.94	3,927.45	28.49	138.856			
4,200.00	3,919.52	3,441.97	3,418.61	30.18	12.96	-167.92	25.86	-2,597.70	4,005.74	3,976.62	29.12	137.537			
4,300.00	4,011.05	3,499.64	3,474.68	31.01	13.23	-167.81	36.71	-2,605.71	4,056.36	4,026.62	29.74	136.388			
4,400.00	4,102.58	3,581.41	3,554.13	31.85	13.62	-167.66	52.17	-2,617.35	4,107.33	4,076.81	30.52	134.562			
4,500.00	4,194.11	3,705.15	3,674.62	32.68	14.21	-167.45	74.66	-2,634.32	4,157.92	4,126.33	31.59	131.620			
4,600.00	4,285.64	3,843.17	3,809.57	33.52	14.85	-167.25	97.76	-2,651.70	4,207.64	4,174.90	32.74	128.518			
4,700.00	4,377.16	4,700.00	3,895.06	34.36	18.80	-167.16	110.43	-2,661.56	4,256.37	4,219.50	36.87	115.430			
4,800.00	4,468.69	4,011.47	3,975.03	35.19	15.62	-167.09	121.86	-2,670.85	4,305.24	4,270.93	34.31	125.480			
4,900.00	4,560.22	4,065.53	4,028.12	36.03	15.87	-167.04	129.54	-2,677.49	4,354.85	4,319.95	34.90	124.798			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,651.75	4,124.00	4,085.47	36.87	16.13	-166.98	138.00	-2,685.15	4,405.11	4,369.60	35.51	124.063		
5,100.00	4,743.27	4,298.49	4,256.96	37.70	16.93	-166.84	161.87	-2,706.74	4,454.91	4,418.02	36.88	120.782		
5,200.00	4,834.80	4,422.85	4,379.70	38.54	17.47	-166.78	176.75	-2,720.11	4,503.27	4,465.37	37.91	118.792		
5,300.00	4,926.33	4,679.23	4,634.16	39.38	18.51	-166.79	198.64	-2,741.78	4,550.03	4,510.35	39.68	114.661		
5,400.00	5,017.86	5,026.66	4,980.95	40.21	19.74	-167.04	211.24	-2,755.03	4,593.90	4,552.14	41.75	110.026		
5,500.00	5,109.38	5,144.08	5,098.36	41.05	20.11	-167.18	211.63	-2,755.19	4,633.46	4,590.86	42.60	108.764		
5,600.00	5,200.91	5,246.55	5,200.83	41.89	20.43	-167.30	211.85	-2,754.80	4,672.53	4,629.16	43.38	107.713		
5,700.00	5,292.44	5,346.84	5,301.12	42.73	20.75	-167.41	212.34	-2,754.25	4,711.46	4,667.31	44.15	106.718		
5,800.00	5,383.97	5,419.50	5,373.78	43.56	20.98	-167.49	212.59	-2,753.94	4,750.51	4,705.72	44.79	106.072		
5,900.00	5,475.51	5,493.16	5,447.44	44.40	21.20	-171.91	212.51	-2,753.87	4,789.91	4,744.48	45.42	105.448		
6,000.00	5,567.37	5,567.60	5,521.88	45.19	21.43	160.79	212.09	-2,754.06	4,829.23	4,783.21	46.02	104.947		
6,100.00	5,657.57	5,641.49	5,595.77	45.89	21.65	137.76	211.39	-2,754.48	4,867.33	4,820.80	46.53	104.612		
6,200.00	5,743.38	5,729.87	5,684.14	46.48	21.92	121.48	210.24	-2,755.19	4,903.18	4,856.14	47.04	104.237		
6,300.00	5,822.18	5,785.45	5,739.63	46.95	22.08	110.20	207.46	-2,755.55	4,935.83	4,888.50	47.33	104.283		
6,400.00	5,891.60	5,816.00	5,769.92	47.31	22.16	102.17	203.54	-2,755.79	4,965.06	4,917.60	47.47	104.604		
6,500.00	5,949.50	5,849.21	5,802.48	47.58	22.24	96.52	197.02	-2,756.24	4,990.35	4,942.77	47.58	104.881		
6,600.00	5,994.15	6,000.00	6,064.04	47.76	22.86	94.52	61.70	-2,752.50	5,008.47	4,959.59	48.88	102.463		
6,700.00	6,024.17	6,486.21	6,220.77	47.86	22.82	93.05	-233.85	-2,732.87	5,018.79	4,969.45	49.34	101.727		
6,800.00	6,038.67	6,552.42	6,230.33	47.91	22.97	92.39	-299.14	-2,727.72	5,019.57	4,969.77	49.80	100.788		
6,900.00	6,040.00	6,591.60	6,231.72	47.93	23.10	92.45	-338.20	-2,725.23	5,016.27	4,966.03	50.24	99.839		
7,000.00	6,040.00	6,826.34	6,230.11	47.98	24.35	92.44	-572.38	-2,709.67	5,012.33	4,960.23	52.10	96.212		
7,100.00	6,040.00	6,893.00	6,230.20	48.09	24.83	92.44	-638.85	-2,704.65	5,007.05	4,953.96	53.09	94.313		
7,200.00	6,040.00	7,007.13	6,231.44	48.23	25.79	92.46	-752.66	-2,696.19	5,002.10	4,947.38	54.72	91.405		
7,300.00	6,040.00	7,120.71	6,232.33	48.43	26.86	92.47	-865.85	-2,686.90	4,996.32	4,939.74	56.58	88.311		
7,400.00	6,040.00	7,214.64	6,231.53	48.67	27.82	92.47	-959.48	-2,679.42	4,990.68	4,932.31	58.37	85.504		
7,500.00	6,040.00	7,344.60	6,231.09	48.97	29.27	92.47	-1,088.98	-2,668.65	4,984.76	4,923.95	60.81	81.971		
7,600.00	6,040.00	7,412.47	6,233.03	49.32	30.07	92.49	-1,156.57	-2,662.81	4,978.70	4,916.17	62.53	79.624		
7,700.00	6,040.00	7,467.32	6,234.63	49.73	30.74	92.51	-1,211.24	-2,658.61	4,973.54	4,909.43	64.12	77.572		
7,800.00	6,040.00	7,543.06	6,236.52	50.19	31.69	92.53	-1,286.77	-2,653.34	4,969.07	4,902.97	66.10	75.177		
7,900.00	6,040.00	7,610.73	6,237.52	50.71	32.56	92.55	-1,354.30	-2,649.03	4,965.15	4,897.13	68.02	72.996		
8,000.00	6,040.00	7,683.17	6,237.29	51.29	33.51	92.55	-1,426.62	-2,644.97	4,961.88	4,891.81	70.07	70.809		
8,100.00	6,040.00	7,782.03	6,236.39	51.93	34.84	92.54	-1,525.34	-2,639.79	4,958.98	4,886.33	72.64	68.264		
8,200.00	6,040.00	7,914.04	6,235.75	52.63	36.68	92.53	-1,657.14	-2,632.23	4,955.59	4,879.70	75.89	65.301		
8,300.00	6,040.00	7,993.88	6,235.77	53.39	37.82	92.53	-1,736.83	-2,627.50	4,952.06	4,873.78	78.28	63.263		
8,400.00	6,040.00	8,400.00	6,235.36	54.20	43.84	92.53	-1,926.55	-2,615.77	4,948.56	4,862.54	86.02	57.527		
8,500.00	6,040.00	8,262.48	6,234.91	55.07	41.79	92.53	-2,004.83	-2,609.78	4,943.38	4,858.09	85.29	57.962		
8,600.00	6,040.00	8,318.00	6,233.95	55.99	42.63	92.52	-2,060.24	-2,606.57	4,939.58	4,852.22	87.36	56.540		
8,700.00	6,040.00	8,335.39	6,233.54	56.97	42.90	92.51	-2,077.62	-2,605.79	4,936.80	4,848.09	88.71	55.650		
8,800.00	6,040.00	8,391.36	6,232.20	57.99	43.75	92.50	-2,133.53	-2,603.61	4,935.18	4,844.36	90.82	54.338		
8,900.00	6,040.00	8,455.72	6,230.94	59.06	44.74	92.48	-2,197.84	-2,601.65	4,934.40	4,841.28	93.12	52.990		
9,000.00	6,040.00	8,542.64	6,231.05	60.17	46.09	92.49	-2,284.73	-2,599.44	4,934.21	4,838.32	95.89	51.455		
9,100.00	6,040.00	8,668.63	6,232.14	61.32	48.06	92.50	-2,410.67	-2,595.77	4,933.70	4,834.19	99.51	49.582		
9,200.00	6,040.00	8,759.97	6,232.50	62.51	49.50	92.50	-2,501.96	-2,592.95	4,933.01	4,830.58	102.44	48.156		
9,300.00	6,040.00	9,174.77	6,231.13	63.73	56.23	92.50	-2,915.86	-2,567.96	4,929.54	4,817.38	112.16	43.953		
9,400.00	6,040.00	9,267.00	6,231.16	64.98	57.77	92.50	-3,007.63	-2,558.76	4,921.99	4,806.75	115.24	42.712		
9,500.00	6,040.00	9,310.58	6,231.19	66.27	58.49	92.50	-3,051.02	-2,554.69	4,915.46	4,798.16	117.31	41.903		
9,600.00	6,040.00	9,362.00	6,231.21	67.58	59.35	92.50	-3,102.33	-2,551.39	4,910.89	4,791.35	119.54	41.081		
9,700.00	6,040.00	9,362.00	6,231.21	68.92	59.35	92.50	-3,102.33	-2,551.39	4,907.27	4,786.60	120.67	40.667		
9,800.00	6,040.00	9,461.33	6,230.82	70.29	61.00	92.50	-3,201.55	-2,546.56	4,904.77	4,780.84	123.92	39.579		
9,900.00	6,040.00	9,614.65	6,232.36	71.67	63.57	92.52	-3,354.59	-2,537.64	4,901.22	4,772.85	128.38	38.179		
10,000.00	6,040.00	9,694.27	6,233.96	73.08	64.91	92.54	-3,434.05	-2,532.87	4,897.70	4,766.46	131.25	37.317		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG												Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	6,040.00	9,784.60	6,235.57	74.51	66.43	92.56	-3,524.22	-2,527.91	4,894.66	4,760.30	134.36	36.429	
10,200.00	6,040.00	9,887.89	6,236.97	75.95	68.18	92.58	-3,627.34	-2,522.10	4,891.47	4,753.70	137.77	35.505	
10,300.00	6,040.00	9,983.02	6,236.81	77.41	69.80	92.58	-3,722.33	-2,516.96	4,888.42	4,747.41	141.01	34.668	
10,400.00	6,040.00	10,061.68	6,237.23	78.89	71.13	92.58	-3,800.88	-2,512.74	4,885.49	4,741.60	143.89	33.953	
10,500.00	6,040.00	10,500.00	6,236.28	80.38	78.60	92.57	-3,908.26	-2,507.63	4,883.09	4,730.03	153.06	31.903	
10,600.00	6,040.00	10,283.42	6,235.88	81.88	74.91	92.57	-4,022.31	-2,501.36	4,879.93	4,728.82	151.11	32.294	
10,700.00	6,040.00	10,354.40	6,235.42	83.40	76.13	92.57	-4,093.20	-2,497.78	4,877.21	4,723.36	153.85	31.702	
10,800.00	6,040.00	10,426.01	6,234.84	84.93	77.35	92.56	-4,164.74	-2,494.52	4,875.02	4,718.42	156.60	31.131	
10,900.00	6,040.00	10,900.00	6,233.21	86.47	85.49	92.54	-4,282.72	-2,489.81	4,873.41	4,706.91	166.50	29.270	
11,000.00	6,040.00	10,728.50	6,233.02	88.02	82.56	92.54	-4,466.80	-2,479.23	4,869.83	4,704.14	165.68	29.392	
11,100.00	6,040.00	10,820.14	6,234.57	89.58	84.15	92.56	-4,558.24	-2,473.37	4,865.87	4,696.95	168.92	28.805	
11,200.00	6,040.00	10,905.73	6,234.62	91.15	85.63	92.57	-4,643.67	-2,468.26	4,862.27	4,690.25	172.03	28.264	
11,300.00	6,040.00	10,925.00	6,234.56	92.73	85.96	92.57	-4,662.91	-2,467.12	4,859.43	4,685.80	173.64	27.986	
11,389.87	6,040.00	10,925.00	6,234.56	94.15	85.96	92.57	-4,662.91	-2,467.12	4,858.60	4,683.96	174.64	27.820	
11,400.00	6,040.00	10,925.00	6,234.56	94.31	85.96	92.57	-4,662.91	-2,467.12	4,858.61	4,683.86	174.75	27.803	
11,500.00	6,040.00	10,925.00	6,234.56	95.91	85.96	92.57	-4,662.91	-2,467.12	4,859.85	4,684.04	175.81	27.643	
11,600.00	6,040.00	10,925.00	6,234.56	97.51	85.96	92.57	-4,662.91	-2,467.12	4,863.14	4,686.35	176.80	27.507	
11,700.00	6,040.00	10,925.00	6,234.56	99.11	85.96	92.57	-4,662.91	-2,467.12	4,868.49	4,690.78	177.72	27.395	
11,800.00	6,040.00	10,925.00	6,234.56	100.73	85.96	92.57	-4,662.91	-2,467.12	4,875.88	4,697.32	178.57	27.306	
11,900.00	6,040.00	10,925.00	6,234.56	102.35	85.96	92.57	-4,662.91	-2,467.12	4,885.31	4,705.96	179.35	27.239	
12,000.00	6,040.00	10,925.00	6,234.56	103.97	85.96	92.57	-4,662.91	-2,467.12	4,896.76	4,716.70	180.06	27.194	
12,100.00	6,040.00	10,925.00	6,234.56	105.60	85.96	92.57	-4,662.91	-2,467.12	4,910.23	4,729.52	180.71	27.172	
12,200.00	6,040.00	10,925.00	6,234.56	107.24	85.96	92.57	-4,662.91	-2,467.12	4,925.68	4,744.40	181.29	27.171 SF	
12,300.00	6,040.00	10,925.00	6,234.56	108.88	85.96	92.57	-4,662.91	-2,467.12	4,943.11	4,761.32	181.79	27.191	
12,400.00	6,040.00	10,925.00	6,234.56	110.53	85.96	92.57	-4,662.91	-2,467.12	4,962.50	4,780.26	182.23	27.231	
12,500.00	6,040.00	10,925.00	6,234.56	112.18	85.96	92.57	-4,662.91	-2,467.12	4,983.82	4,801.21	182.61	27.293	
12,600.00	6,040.00	10,925.00	6,234.56	113.83	85.96	92.57	-4,662.91	-2,467.12	5,007.04	4,824.12	182.92	27.374	
12,700.00	6,040.00	10,925.00	6,234.56	115.49	85.96	92.57	-4,662.91	-2,467.12	5,032.14	4,848.99	183.16	27.474	
12,800.00	6,040.00	10,925.00	6,234.56	117.16	85.96	92.57	-4,662.91	-2,467.12	5,059.10	4,875.76	183.34	27.594	
12,900.00	6,040.00	10,925.00	6,234.56	118.82	85.96	92.57	-4,662.91	-2,467.12	5,087.88	4,904.42	183.46	27.733	
13,000.00	6,040.00	10,925.00	6,234.56	120.49	85.96	92.57	-4,662.91	-2,467.12	5,118.45	4,934.93	183.52	27.890	
13,100.00	6,040.00	10,925.00	6,234.56	122.16	85.96	92.57	-4,662.91	-2,467.12	5,150.78	4,967.26	183.53	28.066	
13,200.00	6,040.00	10,925.00	6,234.56	123.84	85.96	92.57	-4,662.91	-2,467.12	5,184.84	5,001.37	183.48	28.259	
13,300.00	6,040.00	10,925.00	6,234.56	125.52	85.96	92.57	-4,662.91	-2,467.12	5,220.60	5,037.22	183.37	28.470	
13,400.00	6,040.00	10,925.00	6,234.56	127.20	85.96	92.57	-4,662.91	-2,467.12	5,258.01	5,074.79	183.22	28.698	
13,500.00	6,040.00	10,925.00	6,234.56	128.89	85.96	92.57	-4,662.91	-2,467.12	5,297.05	5,114.03	183.02	28.943	
13,600.00	6,040.00	10,925.00	6,234.56	130.58	85.96	92.57	-4,662.91	-2,467.12	5,337.67	5,154.90	182.77	29.204	
13,700.00	6,040.00	10,925.00	6,234.56	132.27	85.96	92.57	-4,662.91	-2,467.12	5,379.85	5,197.36	182.48	29.481	
13,800.00	6,040.00	10,925.00	6,234.56	133.96	85.96	92.57	-4,662.91	-2,467.12	5,423.54	5,241.39	182.15	29.775	
13,900.00	6,040.00	10,925.00	6,234.56	135.66	85.96	92.57	-4,662.91	-2,467.12	5,468.71	5,286.93	181.78	30.084	
14,000.00	6,040.00	10,925.00	6,234.56	137.35	85.96	92.57	-4,662.91	-2,467.12	5,515.33	5,333.95	181.38	30.408	
14,100.00	6,040.00	10,925.00	6,234.56	139.05	85.96	92.57	-4,662.91	-2,467.12	5,563.35	5,382.41	180.94	30.747	
14,200.00	6,040.00	10,925.00	6,234.56	140.75	85.96	92.57	-4,662.91	-2,467.12	5,612.74	5,432.27	180.47	31.101	
14,300.00	6,040.00	10,925.00	6,234.56	142.46	85.96	92.57	-4,662.91	-2,467.12	5,663.47	5,483.50	179.97	31.469	
14,400.00	6,040.00	10,925.00	6,234.56	144.17	85.96	92.57	-4,662.91	-2,467.12	5,715.50	5,536.06	179.44	31.851	
14,500.00	6,040.00	10,925.00	6,234.56	145.87	85.96	92.57	-4,662.91	-2,467.12	5,768.79	5,589.90	178.89	32.247	
14,600.00	6,040.00	10,925.00	6,234.56	147.58	85.96	92.57	-4,662.91	-2,467.12	5,823.31	5,645.00	178.32	32.657	
14,700.00	6,040.00	10,925.00	6,234.56	149.29	85.96	92.57	-4,662.91	-2,467.12	5,879.03	5,701.31	177.72	33.079	
14,800.00	6,040.00	10,925.00	6,234.56	151.01	85.96	92.57	-4,662.91	-2,467.12	5,935.91	5,758.80	177.11	33.515	
14,900.00	6,040.00	10,925.00	6,234.56	152.72	85.96	92.57	-4,662.91	-2,467.12	5,993.92	5,817.44	176.48	33.964	
15,000.00	6,040.00	10,925.00	6,234.56	154.44	85.96	92.57	-4,662.91	-2,467.12	6,053.02	5,877.19	175.83	34.425	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG												Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES A11-E14-3HNC - OWB - FINAL SURVEY														
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	10,925.00	6,234.56	156.16	85.96	92.57	-4,662.91	-2,467.12	6,113.19	5,938.02	175.17	34.898		
15,200.00	6,040.00	10,925.00	6,234.56	157.88	85.96	92.57	-4,662.91	-2,467.12	6,174.39	5,999.89	174.50	35.383		
15,300.00	6,040.00	10,925.00	6,234.56	159.60	85.96	92.57	-4,662.91	-2,467.12	6,236.60	6,062.78	173.82	35.879		
15,400.00	6,040.00	10,925.00	6,234.56	161.32	85.96	92.57	-4,662.91	-2,467.12	6,299.78	6,126.65	173.13	36.388		
15,500.00	6,040.00	10,925.00	6,234.56	163.04	85.96	92.57	-4,662.91	-2,467.12	6,363.90	6,191.47	172.43	36.907		
15,600.00	6,040.00	10,925.00	6,234.56	164.77	85.96	92.57	-4,662.91	-2,467.12	6,428.94	6,257.21	171.73	37.437		
15,700.00	6,040.00	10,925.00	6,234.56	166.49	85.96	92.57	-4,662.91	-2,467.12	6,494.87	6,323.85	171.01	37.978		
15,800.00	6,040.00	10,925.00	6,234.56	168.22	85.96	92.57	-4,662.91	-2,467.12	6,561.65	6,391.36	170.30	38.530		
15,900.00	6,040.00	10,925.00	6,234.56	169.95	85.96	92.57	-4,662.91	-2,467.12	6,629.28	6,459.70	169.58	39.092		
16,000.00	6,040.00	10,925.00	6,234.56	171.68	85.96	92.57	-4,662.91	-2,467.12	6,697.71	6,528.85	168.86	39.664		
16,100.00	6,040.00	10,925.00	6,234.56	173.41	85.96	92.57	-4,662.91	-2,467.12	6,766.93	6,598.80	168.14	40.246		
16,200.00	6,040.00	10,925.00	6,234.56	175.14	85.96	92.57	-4,662.91	-2,467.12	6,836.92	6,669.50	167.42	40.838		
16,300.00	6,040.00	10,925.00	6,234.56	176.88	85.96	92.57	-4,662.91	-2,467.12	6,907.64	6,740.94	166.69	41.439		
16,400.00	6,040.00	10,925.00	6,234.56	178.61	85.96	92.57	-4,662.91	-2,467.12	6,979.07	6,813.10	165.97	42.049		
16,500.00	6,040.00	10,925.00	6,234.56	180.34	85.96	92.57	-4,662.91	-2,467.12	7,051.21	6,885.95	165.25	42.669		
16,600.00	6,040.00	10,925.00	6,234.56	182.08	85.96	92.57	-4,662.91	-2,467.12	7,124.01	6,959.47	164.54	43.297		
16,700.00	6,040.00	10,925.00	6,234.56	183.82	85.96	92.57	-4,662.91	-2,467.12	7,197.47	7,033.64	163.82	43.934		
16,800.00	6,040.00	10,925.00	6,234.56	185.56	85.96	92.57	-4,662.91	-2,467.12	7,271.56	7,108.45	163.11	44.580		
16,865.66	6,040.00	10,925.00	6,234.56	186.70	85.96	92.57	-4,662.91	-2,467.12	7,320.54	7,157.89	162.65	45.008		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES A-E-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-94.19	-178.39	-2,433.37	2,440.01							
100.00	100.00	79.72	79.72	0.13	0.22	-94.19	-178.31	-2,433.34	2,439.87	2,439.51	0.36	6,791.967				
103.44	103.44	83.31	83.31	0.15	0.24	-168.56	-178.30	-2,433.34	2,439.87	2,439.48	0.38	6,347.015	CC, ES			
200.00	199.98	184.23	184.23	0.49	0.60	-168.55	-177.79	-2,433.17	2,441.38	2,440.28	1.09	2,238.799				
300.00	299.84	295.45	295.44	0.86	1.00	-168.54	-176.78	-2,432.73	2,446.05	2,444.20	1.85	1,320.705				
400.00	399.45	414.31	414.29	1.23	1.42	-168.53	-175.58	-2,431.44	2,453.45	2,450.80	2.64	928.605				
500.00	498.70	504.82	504.79	1.63	1.75	-168.52	-174.65	-2,430.25	2,464.01	2,460.67	3.34	738.329				
600.00	597.47	578.05	578.01	2.05	2.00	-168.50	-174.19	-2,429.70	2,478.60	2,474.63	3.97	624.498				
700.00	695.62	650.00	649.96	2.51	2.25	-168.51	-174.95	-2,430.01	2,497.78	2,493.18	4.59	543.746				
800.00	793.06	737.93	737.87	3.00	2.54	-168.53	-176.21	-2,430.87	2,520.91	2,515.64	5.27	478.271				
900.00	889.64	825.43	825.35	3.54	2.83	-168.55	-177.42	-2,432.06	2,547.72	2,541.76	5.95	428.065				
1,000.00	985.27	916.94	916.85	4.13	3.15	-168.56	-177.79	-2,433.58	2,578.04	2,571.38	6.66	387.160				
1,100.00	1,079.82	1,012.30	1,012.19	4.77	3.48	-168.55	-177.36	-2,435.28	2,611.66	2,604.27	7.39	353.397				
1,200.00	1,173.17	1,106.67	1,106.55	5.46	3.81	-168.53	-176.62	-2,436.94	2,648.44	2,640.32	8.12	326.000				
1,300.00	1,265.23	1,202.51	1,202.37	6.21	4.15	-168.53	-175.69	-2,438.53	2,688.27	2,679.39	8.88	302.802				
1,400.00	1,356.75	1,297.93	1,297.77	7.00	4.49	-168.68	-174.65	-2,439.97	2,729.17	2,719.55	9.62	283.812				
1,500.00	1,448.28	1,367.26	1,367.08	7.80	4.74	-168.77	-173.48	-2,441.30	2,770.40	2,760.14	10.26	270.028				
1,600.00	1,539.81	1,417.97	1,417.76	8.60	4.92	-168.83	-172.37	-2,442.75	2,812.52	2,801.70	10.83	259.719				
1,700.00	1,631.34	1,481.00	1,480.70	9.41	5.14	-168.92	-171.43	-2,445.84	2,856.29	2,844.84	11.45	249.564				
1,800.00	1,722.86	1,503.42	1,503.08	10.23	5.23	-168.94	-171.17	-2,447.30	2,901.23	2,889.34	11.89	244.043				
1,900.00	1,814.39	1,545.75	1,545.27	11.05	5.38	-169.00	-170.51	-2,450.59	2,947.74	2,935.33	12.41	237.589				
2,000.00	1,905.92	1,576.00	1,575.39	11.87	5.49	-169.03	-169.92	-2,453.36	2,995.67	2,982.81	12.87	232.852				
2,100.00	1,997.45	1,630.15	1,629.21	12.69	5.69	-169.07	-168.42	-2,459.18	3,044.84	3,031.41	13.43	226.789				
2,200.00	2,088.97	1,672.00	1,670.69	13.52	5.84	-169.09	-166.79	-2,464.42	3,095.32	3,081.39	13.92	222.287				
2,300.00	2,180.50	1,715.43	1,713.65	14.35	6.01	-169.11	-164.86	-2,470.50	3,147.00	3,132.57	14.43	218.142				
2,400.00	2,272.03	1,766.00	1,763.56	15.17	6.20	-169.13	-162.57	-2,478.30	3,199.84	3,184.88	14.96	213.905				
2,500.00	2,363.56	1,864.20	1,860.27	16.00	6.59	-169.11	-156.03	-2,493.99	3,253.08	3,237.34	15.73	206.769				
2,600.00	2,455.08	1,930.63	1,925.51	16.83	6.86	-169.06	-149.54	-2,504.71	3,306.16	3,289.81	16.35	202.179				
2,700.00	2,546.61	1,998.45	1,991.86	17.66	7.14	-168.98	-141.39	-2,516.13	3,359.68	3,342.69	16.98	197.809				
2,800.00	2,638.14	2,064.23	2,055.90	18.50	7.42	-168.86	-131.79	-2,527.67	3,413.62	3,396.01	17.61	193.846				
2,900.00	2,729.67	2,123.89	2,113.76	19.33	7.68	-168.74	-122.19	-2,538.58	3,468.11	3,449.90	18.21	190.486				
3,000.00	2,821.19	2,168.67	2,157.05	20.16	7.88	-168.65	-114.58	-2,547.14	3,523.31	3,504.59	18.72	188.219				
3,100.00	2,912.72	2,205.41	2,192.40	20.99	8.05	-168.56	-107.95	-2,554.66	3,579.56	3,560.38	19.18	186.610				
3,200.00	3,004.25	2,249.65	2,234.74	21.83	8.26	-168.45	-99.54	-2,564.33	3,636.87	3,617.19	19.69	184.728				
3,300.00	3,095.78	2,362.91	2,343.35	22.66	8.82	-168.18	-78.60	-2,588.65	3,693.92	3,673.28	20.64	178.996				
3,400.00	3,187.30	2,422.69	2,400.71	23.50	9.13	-168.05	-67.75	-2,601.53	3,751.14	3,729.89	21.25	176.507				
3,500.00	3,278.83	2,481.96	2,457.50	24.33	9.43	-167.92	-56.94	-2,614.64	3,808.87	3,787.00	21.86	174.214				
3,600.00	3,370.36	2,525.00	2,498.67	25.16	9.66	-167.82	-49.06	-2,624.37	3,867.12	3,844.76	22.36	172.910				
3,700.00	3,461.89	2,591.89	2,562.58	26.00	10.02	-167.68	-36.90	-2,639.93	3,925.87	3,902.83	23.03	170.445				
3,800.00	3,553.41	2,644.03	2,612.34	26.83	10.31	-167.58	-27.58	-2,652.45	3,985.24	3,961.64	23.60	168.875				
3,900.00	3,644.94	2,714.00	2,679.00	27.67	10.69	-167.44	-15.31	-2,669.80	4,045.25	4,020.96	24.29	166.556				
4,000.00	3,736.47	2,775.08	2,737.33	28.51	11.03	-167.34	-5.61	-2,685.11	4,105.53	4,080.62	24.91	164.818				
4,100.00	3,828.00	2,931.57	2,887.96	29.34	11.88	-167.19	14.04	-2,722.67	4,165.25	4,139.08	26.17	159.142				
4,200.00	3,919.52	3,077.13	3,029.09	30.18	12.64	-167.11	29.62	-2,754.70	4,223.24	4,195.90	27.34	154.480				
4,300.00	4,011.05	3,198.34	3,147.31	31.01	13.25	-167.11	38.77	-2,779.81	4,280.40	4,252.07	28.33	151.099				
4,400.00	4,102.58	3,246.86	3,194.66	31.85	13.49	-167.11	42.04	-2,789.86	4,337.55	4,308.70	28.85	150.372				
4,500.00	4,194.11	3,289.00	3,235.72	32.68	13.71	-167.11	45.15	-2,798.82	4,395.25	4,365.93	29.32	149.907				
4,600.00	4,285.64	3,328.88	3,274.47	33.52	13.92	-167.11	48.34	-2,807.68	4,453.71	4,423.93	29.78	149.546				
4,700.00	4,377.16	3,382.00	3,325.86	34.36	14.20	-167.09	53.03	-2,820.30	4,513.17	4,482.84	30.33	148.805				
4,800.00	4,468.69	3,382.00	3,325.86	35.19	14.20	-167.09	53.03	-2,820.30	4,573.28	4,542.77	30.51	149.880				
4,900.00	4,560.22	3,413.97	3,356.62	36.03	14.38	-167.08	56.06	-2,828.44	4,634.40	4,603.49	30.91	149.914				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,651.75	3,437.09	3,378.77	36.87	14.51	-167.07	58.33	-2,834.65	4,696.48	4,665.24	31.25	150.302		
5,100.00	4,743.27	3,475.00	3,414.92	37.70	14.73	-167.05	62.21	-2,845.41	4,759.57	4,727.89	31.68	150.225		
5,200.00	4,834.80	3,737.99	3,665.44	38.54	16.32	-166.80	97.23	-2,917.12	4,823.25	4,789.45	33.80	142.680		
5,300.00	4,926.33	5,300.00	3,905.49	39.38	25.07	-166.56	132.89	-2,974.89	4,882.35	4,840.60	41.75	116.950		
5,400.00	5,017.86	5,109.01	5,013.48	40.21	22.23	-166.90	203.88	-3,086.92	4,925.59	4,883.32	42.27	116.523		
5,500.00	5,109.38	5,189.32	5,093.79	41.05	22.45	-166.99	203.73	-3,086.69	4,964.75	4,921.82	42.94	115.628		
5,600.00	5,200.91	5,275.82	5,180.28	41.89	22.68	-167.09	203.50	-3,086.64	5,004.12	4,960.50	43.63	114.700		
5,700.00	5,292.44	5,382.14	5,286.60	42.73	22.96	-167.22	202.98	-3,086.40	5,043.38	4,998.98	44.40	113.590		
5,800.00	5,383.97	5,482.90	5,387.36	43.56	23.23	-167.34	202.20	-3,085.88	5,082.40	5,037.25	45.15	112.570		
5,900.00	5,475.51	5,576.90	5,481.36	44.40	23.48	-171.77	201.42	-3,085.31	5,121.36	5,075.49	45.87	111.653		
6,000.00	5,567.37	5,679.09	5,583.54	45.19	23.76	161.04	200.48	-3,084.63	5,159.87	5,113.30	46.57	110.798		
6,100.00	5,657.57	5,771.00	5,675.13	45.89	23.98	138.13	194.42	-3,083.29	5,196.54	5,149.42	47.12	110.275		
6,200.00	5,743.38	5,799.87	5,703.36	46.48	24.04	121.58	188.42	-3,082.81	5,231.41	5,184.08	47.33	110.530		
6,300.00	5,822.18	5,939.32	5,832.70	46.95	24.23	110.42	137.10	-3,079.17	5,262.67	5,214.94	47.73	110.253		
6,400.00	5,891.60	5,962.00	5,853.09	47.31	24.26	102.46	127.18	-3,078.60	5,290.03	5,242.22	47.81	110.640		
6,500.00	5,949.50	6,126.14	5,982.19	47.58	24.34	97.34	27.92	-3,073.03	5,312.42	5,264.26	48.16	110.309		
6,600.00	5,994.15	6,455.12	6,134.18	47.76	24.12	93.88	-259.92	-3,047.92	5,325.48	5,276.37	49.12	108.420		
6,700.00	6,024.17	6,485.00	6,143.11	47.86	24.09	92.02	-288.30	-3,045.26	5,331.54	5,282.12	49.42	107.887		
6,800.00	6,038.67	6,533.00	6,153.79	47.91	24.05	91.41	-334.92	-3,041.49	5,332.27	5,282.40	49.86	106.939		
6,900.00	6,040.00	6,561.88	6,158.27	47.93	24.02	91.52	-363.38	-3,039.51	5,328.75	5,278.47	50.28	105.985		
7,000.00	6,040.00	6,602.48	6,163.23	47.98	23.96	91.57	-403.62	-3,037.41	5,326.08	5,275.23	50.85	104.743		
7,100.00	6,040.00	6,683.65	6,169.16	48.09	23.95	91.64	-484.47	-3,033.67	5,324.04	5,272.24	51.80	102.787		
7,200.00	6,040.00	6,928.71	6,166.08	48.23	25.91	91.61	-729.07	-3,019.94	5,320.71	5,266.29	54.42	97.779		
7,300.00	6,040.00	7,041.14	6,164.59	48.43	26.98	91.59	-841.20	-3,011.94	5,315.91	5,259.71	56.20	94.589		
7,400.00	6,040.00	7,146.93	6,162.98	48.67	28.08	91.58	-946.70	-3,004.35	5,311.07	5,252.96	58.10	91.407		
7,500.00	6,040.00	7,293.27	6,163.40	48.97	29.72	91.58	-1,092.60	-2,993.03	5,305.72	5,244.99	60.73	87.361		
7,600.00	6,040.00	7,361.00	6,163.19	49.32	30.52	91.58	-1,160.10	-2,987.41	5,299.92	5,237.48	62.44	84.877		
7,700.00	6,040.00	7,419.46	6,162.82	49.73	31.24	91.58	-1,218.38	-2,982.97	5,294.86	5,230.76	64.10	82.598		
7,800.00	6,040.00	7,463.56	6,162.46	50.19	31.79	91.58	-1,262.40	-2,980.25	5,291.00	5,225.40	65.60	80.653		
7,900.00	6,040.00	7,545.59	6,162.67	50.71	32.84	91.58	-1,344.30	-2,975.68	5,287.81	5,220.06	67.74	78.055		
8,000.00	6,040.00	8,000.00	6,162.61	51.29	38.98	91.58	-1,485.84	-2,967.91	5,284.83	5,209.64	75.19	70.286		
8,100.00	6,040.00	7,799.17	6,163.34	51.93	36.26	91.59	-1,597.41	-2,960.55	5,280.60	5,206.83	73.78	71.573		
8,200.00	6,040.00	8,200.00	6,163.27	52.63	42.05	91.59	-1,787.73	-2,947.38	5,276.41	5,195.25	81.16	65.015		
8,300.00	6,040.00	8,026.00	6,163.13	53.39	39.51	91.59	-1,823.65	-2,944.45	5,271.03	5,191.28	79.75	66.091		
8,400.00	6,040.00	8,077.75	6,162.83	54.20	40.28	91.59	-1,875.26	-2,940.54	5,266.36	5,184.63	81.73	64.439		
8,500.00	6,040.00	8,121.00	6,162.18	55.07	40.92	91.58	-1,918.45	-2,938.52	5,263.59	5,180.03	83.56	62.991		
8,600.00	6,040.00	8,144.19	6,161.73	55.99	41.26	91.58	-1,941.62	-2,937.74	5,261.93	5,176.89	85.04	61.875		
8,700.00	6,040.00	8,700.00	6,160.42	56.97	49.69	91.56	-2,088.59	-2,931.89	5,260.27	5,165.19	95.08	55.324		
8,800.00	6,040.00	8,800.00	6,163.27	57.99	51.38	91.60	-2,256.34	-2,923.32	5,257.56	5,159.05	98.51	53.372		
8,900.00	6,040.00	8,574.77	6,164.34	59.06	47.88	91.61	-2,371.59	-2,916.28	5,253.83	5,157.28	96.55	54.416		
9,000.00	6,040.00	8,637.45	6,163.78	60.17	48.87	91.60	-2,434.17	-2,912.77	5,250.58	5,151.67	98.91	53.084		
9,100.00	6,040.00	8,702.65	6,163.53	61.32	49.90	91.60	-2,499.29	-2,909.61	5,248.07	5,146.73	101.34	51.789		
9,200.00	6,040.00	8,802.02	6,163.15	62.51	51.49	91.60	-2,598.55	-2,905.09	5,245.89	5,141.43	104.46	50.219		
9,300.00	6,040.00	8,914.75	6,162.33	63.73	53.30	91.59	-2,711.16	-2,899.76	5,243.51	5,135.63	107.88	48.604		
9,400.00	6,040.00	9,006.99	6,163.65	64.98	54.80	91.60	-2,803.28	-2,895.31	5,241.10	5,130.18	110.92	47.251		
9,500.00	6,040.00	9,083.91	6,164.87	66.27	56.06	91.62	-2,880.11	-2,891.81	5,238.98	5,125.31	113.66	46.092		
9,600.00	6,040.00	9,142.62	6,165.21	67.58	57.01	91.62	-2,938.78	-2,889.55	5,237.51	5,121.47	116.04	45.135		
9,700.00	6,040.00	9,209.20	6,165.24	68.92	58.10	91.62	-3,005.32	-2,887.49	5,236.78	5,118.20	118.59	44.161		
9,800.00	6,040.00	9,355.00	6,167.09	70.29	60.50	91.64	-3,151.03	-2,882.92	5,236.13	5,113.33	122.80	42.641		
9,900.00	6,040.00	9,421.83	6,167.03	71.67	61.61	91.64	-3,217.82	-2,880.47	5,234.93	5,109.55	125.38	41.753		
10,000.00	6,040.00	9,659.61	6,165.21	73.08	65.58	91.62	-3,455.31	-2,869.27	5,232.06	5,100.50	131.56	39.770		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES A-E-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,100.00	6,040.00	9,966.78	6,163.21	74.51	70.78	91.61	-3,761.48	-2,845.96	5,226.92	5,087.76	139.16	37.562				
10,200.00	6,040.00	10,020.00	6,163.53	75.95	71.69	91.61	-3,814.51	-2,841.46	5,220.51	5,078.94	141.57	36.877				
10,300.00	6,040.00	10,020.00	6,163.53	77.41	71.69	91.61	-3,814.51	-2,841.46	5,215.08	5,072.22	142.87	36.503				
10,400.00	6,040.00	10,084.74	6,163.69	78.89	72.79	91.61	-3,879.10	-2,837.13	5,210.83	5,065.34	145.50	35.814				
10,500.00	6,040.00	10,161.91	6,163.45	80.38	74.11	91.61	-3,956.14	-2,832.67	5,207.39	5,059.00	148.39	35.093				
10,600.00	6,040.00	10,260.47	6,165.29	81.88	75.79	91.63	-4,054.52	-2,826.95	5,204.01	5,052.27	151.74	34.295				
10,700.00	6,040.00	10,360.96	6,167.08	83.40	77.52	91.65	-4,154.83	-2,821.21	5,200.72	5,045.58	155.14	33.522				
10,800.00	6,040.00	10,468.16	6,168.04	84.93	79.36	91.67	-4,261.85	-2,814.98	5,197.31	5,038.61	158.70	32.750				
10,900.00	6,040.00	10,540.11	6,168.15	86.47	80.59	91.67	-4,333.68	-2,810.88	5,194.02	5,032.51	161.50	32.161				
11,000.00	6,040.00	10,606.17	6,167.90	88.02	81.73	91.67	-4,399.66	-2,807.64	5,191.45	5,027.27	164.18	31.620				
11,100.00	6,040.00	10,719.66	6,166.61	89.58	83.68	91.65	-4,513.02	-2,802.41	5,189.20	5,021.32	167.89	30.909				
11,200.00	6,040.00	10,872.26	6,164.23	91.15	86.32	91.63	-4,665.37	-2,793.91	5,185.86	5,013.42	172.43	30.074				
11,300.00	6,040.00	10,870.00	6,164.26	92.73	86.28	91.63	-4,663.11	-2,794.04	5,183.31	5,009.65	173.66	29.848				
11,382.31	6,040.00	10,870.00	6,164.26	94.03	86.28	91.63	-4,663.11	-2,794.04	5,182.65	5,007.99	174.66	29.673				
11,400.00	6,040.00	10,870.00	6,164.26	94.31	86.28	91.63	-4,663.11	-2,794.04	5,182.68	5,007.81	174.87	29.637				
11,500.00	6,040.00	10,870.00	6,164.26	95.91	86.28	91.63	-4,663.11	-2,794.04	5,183.99	5,007.96	176.03	29.450				
11,600.00	6,040.00	10,870.00	6,164.26	97.51	86.28	91.63	-4,663.11	-2,794.04	5,187.22	5,010.10	177.13	29.285				
11,700.00	6,040.00	10,870.00	6,164.26	99.11	86.28	91.63	-4,663.11	-2,794.04	5,192.38	5,014.21	178.17	29.143				
11,800.00	6,040.00	10,870.00	6,164.26	100.73	86.28	91.63	-4,663.11	-2,794.04	5,199.46	5,020.31	179.15	29.023				
11,900.00	6,040.00	10,870.00	6,164.26	102.35	86.28	91.63	-4,663.11	-2,794.04	5,208.45	5,028.38	180.07	28.925				
12,000.00	6,040.00	10,870.00	6,164.26	103.97	86.28	91.63	-4,663.11	-2,794.04	5,219.33	5,038.41	180.93	28.848				
12,100.00	6,040.00	10,870.00	6,164.26	105.60	86.28	91.63	-4,663.11	-2,794.04	5,232.11	5,050.39	181.72	28.791				
12,200.00	6,040.00	10,870.00	6,164.26	107.24	86.28	91.63	-4,663.11	-2,794.04	5,246.76	5,064.30	182.46	28.756				
12,300.00	6,040.00	10,870.00	6,164.26	108.88	86.28	91.63	-4,663.11	-2,794.04	5,263.27	5,080.14	183.13	28.740 SF				
12,400.00	6,040.00	10,870.00	6,164.26	110.53	86.28	91.63	-4,663.11	-2,794.04	5,281.63	5,097.88	183.75	28.744				
12,500.00	6,040.00	10,870.00	6,164.26	112.18	86.28	91.63	-4,663.11	-2,794.04	5,301.81	5,117.51	184.30	28.768				
12,600.00	6,040.00	10,870.00	6,164.26	113.83	86.28	91.63	-4,663.11	-2,794.04	5,323.78	5,139.00	184.79	28.810				
12,700.00	6,040.00	10,870.00	6,164.26	115.49	86.28	91.63	-4,663.11	-2,794.04	5,347.54	5,162.32	185.22	28.871				
12,800.00	6,040.00	10,870.00	6,164.26	117.16	86.28	91.63	-4,663.11	-2,794.04	5,373.06	5,187.46	185.60	28.950				
12,900.00	6,040.00	10,870.00	6,164.26	118.82	86.28	91.63	-4,663.11	-2,794.04	5,400.31	5,214.39	185.91	29.047				
13,000.00	6,040.00	10,870.00	6,164.26	120.49	86.28	91.63	-4,663.11	-2,794.04	5,429.26	5,243.08	186.18	29.162				
13,100.00	6,040.00	10,870.00	6,164.26	122.16	86.28	91.63	-4,663.11	-2,794.04	5,459.89	5,273.50	186.38	29.294				
13,200.00	6,040.00	10,870.00	6,164.26	123.84	86.28	91.63	-4,663.11	-2,794.04	5,492.17	5,305.63	186.54	29.443				
13,300.00	6,040.00	10,870.00	6,164.26	125.52	86.28	91.63	-4,663.11	-2,794.04	5,526.07	5,339.43	186.64	29.608				
13,400.00	6,040.00	10,870.00	6,164.26	127.20	86.28	91.63	-4,663.11	-2,794.04	5,561.56	5,374.87	186.70	29.789				
13,500.00	6,040.00	10,870.00	6,164.26	128.89	86.28	91.63	-4,663.11	-2,794.04	5,598.62	5,411.91	186.71	29.986				
13,600.00	6,040.00	10,870.00	6,164.26	130.58	86.28	91.63	-4,663.11	-2,794.04	5,637.20	5,450.54	186.67	30.199				
13,700.00	6,040.00	10,870.00	6,164.26	132.27	86.28	91.63	-4,663.11	-2,794.04	5,677.29	5,490.70	186.59	30.427				
13,800.00	6,040.00	10,870.00	6,164.26	133.96	86.28	91.63	-4,663.11	-2,794.04	5,718.84	5,532.38	186.46	30.670				
13,900.00	6,040.00	10,870.00	6,164.26	135.66	86.28	91.63	-4,663.11	-2,794.04	5,761.83	5,575.53	186.30	30.927				
14,000.00	6,040.00	10,870.00	6,164.26	137.35	86.28	91.63	-4,663.11	-2,794.04	5,806.22	5,620.12	186.10	31.199				
14,100.00	6,040.00	10,870.00	6,164.26	139.05	86.28	91.63	-4,663.11	-2,794.04	5,851.99	5,666.12	185.87	31.485				
14,200.00	6,040.00	10,870.00	6,164.26	140.75	86.28	91.63	-4,663.11	-2,794.04	5,899.09	5,713.50	185.60	31.785				
14,300.00	6,040.00	10,870.00	6,164.26	142.46	86.28	91.63	-4,663.11	-2,794.04	5,947.51	5,762.21	185.29	32.098				
14,400.00	6,040.00	10,870.00	6,164.26	144.17	86.28	91.63	-4,663.11	-2,794.04	5,997.20	5,812.23	184.96	32.424				
14,500.00	6,040.00	10,870.00	6,164.26	145.87	86.28	91.63	-4,663.11	-2,794.04	6,048.13	5,863.53	184.60	32.763				
14,600.00	6,040.00	10,870.00	6,164.26	147.58	86.28	91.63	-4,663.11	-2,794.04	6,100.28	5,916.07	184.22	33.115				
14,700.00	6,040.00	10,870.00	6,164.26	149.29	86.28	91.63	-4,663.11	-2,794.04	6,153.62	5,969.81	183.81	33.479				
14,800.00	6,040.00	10,870.00	6,164.26	151.01	86.28	91.63	-4,663.11	-2,794.04	6,208.10	6,024.73	183.37	33.855				
14,900.00	6,040.00	10,870.00	6,164.26	152.72	86.28	91.63	-4,663.11	-2,794.04	6,263.71	6,080.79	182.92	34.243				
15,000.00	6,040.00	10,870.00	6,164.26	154.44	86.28	91.63	-4,663.11	-2,794.04	6,320.41	6,137.97	182.45	34.643				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,100.00	6,040.00	10,870.00	6,164.26	156.16	86.28	91.63	-4,663.11	-2,794.04	6,378.18	6,196.22	181.95	35.054			
15,200.00	6,040.00	10,870.00	6,164.26	157.88	86.28	91.63	-4,663.11	-2,794.04	6,436.98	6,255.53	181.45	35.476			
15,300.00	6,040.00	10,870.00	6,164.26	159.60	86.28	91.63	-4,663.11	-2,794.04	6,496.79	6,315.86	180.92	35.909			
15,400.00	6,040.00	10,870.00	6,164.26	161.32	86.28	91.63	-4,663.11	-2,794.04	6,557.57	6,377.19	180.38	36.353			
15,500.00	6,040.00	10,870.00	6,164.26	163.04	86.28	91.63	-4,663.11	-2,794.04	6,619.31	6,439.48	179.84	36.808			
15,600.00	6,040.00	10,870.00	6,164.26	164.77	86.28	91.63	-4,663.11	-2,794.04	6,681.98	6,502.70	179.27	37.272			
15,700.00	6,040.00	10,870.00	6,164.26	166.49	86.28	91.63	-4,663.11	-2,794.04	6,745.55	6,566.84	178.70	37.747			
15,800.00	6,040.00	10,870.00	6,164.26	168.22	86.28	91.63	-4,663.11	-2,794.04	6,809.99	6,631.86	178.13	38.231			
15,900.00	6,040.00	10,870.00	6,164.26	169.95	86.28	91.63	-4,663.11	-2,794.04	6,875.28	6,697.74	177.54	38.726			
16,000.00	6,040.00	10,870.00	6,164.26	171.68	86.28	91.63	-4,663.11	-2,794.04	6,941.40	6,764.45	176.95	39.229			
16,100.00	6,040.00	10,870.00	6,164.26	173.41	86.28	91.63	-4,663.11	-2,794.04	7,008.32	6,831.97	176.35	39.742			
16,200.00	6,040.00	10,870.00	6,164.26	175.14	86.28	91.63	-4,663.11	-2,794.04	7,076.02	6,900.28	175.74	40.264			
16,300.00	6,040.00	10,870.00	6,164.26	176.88	86.28	91.63	-4,663.11	-2,794.04	7,144.48	6,969.35	175.13	40.794			
16,400.00	6,040.00	10,870.00	6,164.26	178.61	86.28	91.63	-4,663.11	-2,794.04	7,213.68	7,039.16	174.52	41.334			
16,500.00	6,040.00	10,870.00	6,164.26	180.34	86.28	91.63	-4,663.11	-2,794.04	7,283.59	7,109.68	173.91	41.881			
16,600.00	6,040.00	10,870.00	6,164.26	182.08	86.28	91.63	-4,663.11	-2,794.04	7,354.20	7,180.90	173.29	42.438			
16,700.00	6,040.00	10,870.00	6,164.26	183.82	86.28	91.63	-4,663.11	-2,794.04	7,425.48	7,252.80	172.68	43.002			
16,800.00	6,040.00	10,870.00	6,164.26	185.56	86.28	91.63	-4,663.11	-2,794.04	7,497.42	7,325.36	172.06	43.574			
16,865.66	6,040.00	10,870.00	6,164.26	186.70	86.28	91.63	-4,663.11	-2,794.04	7,545.00	7,373.34	171.66	43.954			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F11-J14-3HNC - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-93.77	-160.17	-2,433.37	2,438.74							
100.00	100.00	71.55	71.55	0.13	0.20	-93.77	-160.26	-2,433.43	2,438.70	2,438.37	0.33	7,381.277	CC, ES			
200.00	199.98	162.43	162.42	0.49	0.52	-168.15	-160.80	-2,433.76	2,440.82	2,439.81	1.01	2,404.788				
300.00	299.84	258.17	258.16	0.86	0.87	-168.17	-161.87	-2,434.43	2,446.71	2,444.98	1.72	1,418.429				
400.00	399.45	369.50	369.48	1.23	1.26	-168.20	-162.80	-2,434.81	2,455.62	2,453.13	2.49	986.000				
500.00	498.70	456.89	456.87	1.63	1.58	-168.21	-163.18	-2,435.18	2,468.01	2,464.83	3.18	777.281				
600.00	597.47	540.03	540.01	2.05	1.87	-168.22	-163.63	-2,436.11	2,484.46	2,480.61	3.85	645.946				
700.00	695.62	672.83	672.81	2.51	2.33	-168.26	-164.01	-2,437.00	2,503.83	2,499.16	4.68	535.500				
800.00	793.06	781.36	781.33	3.00	2.70	-168.28	-163.81	-2,436.60	2,525.49	2,520.07	5.43	465.349				
900.00	889.64	875.85	875.82	3.54	3.02	-168.29	-163.64	-2,436.23	2,550.48	2,544.34	6.14	415.709				
1,000.00	985.27	966.34	966.31	4.13	3.33	-168.29	-163.47	-2,435.99	2,578.89	2,572.05	6.84	377.085				
1,100.00	1,079.82	1,053.97	1,053.94	4.77	3.63	-168.28	-163.15	-2,436.00	2,610.81	2,603.27	7.54	346.239				
1,200.00	1,173.17	1,157.42	1,157.38	5.46	3.98	-168.28	-162.16	-2,436.16	2,646.08	2,637.78	8.30	318.617				
1,300.00	1,265.23	1,264.58	1,264.50	6.21	4.36	-168.26	-159.03	-2,435.74	2,683.84	2,674.74	9.10	295.008				
1,400.00	1,356.75	1,447.68	1,447.32	7.00	5.00	-168.42	-150.62	-2,431.17	2,720.42	2,710.26	10.16	267.740				
1,500.00	1,448.28	1,554.66	1,554.01	7.80	5.38	-168.47	-143.88	-2,427.10	2,756.01	2,745.05	10.96	251.495				
1,600.00	1,539.81	2,057.71	2,051.80	8.60	7.27	-168.69	-108.88	-2,368.43	2,783.14	2,769.96	13.18	211.165				
1,700.00	1,631.34	2,093.53	2,086.95	9.41	7.41	-168.70	-105.73	-2,362.28	2,805.52	2,791.75	13.77	203.727				
1,800.00	1,722.86	2,145.00	2,137.56	10.23	7.62	-168.69	-100.49	-2,354.53	2,829.83	2,815.42	14.41	196.357				
1,900.00	1,814.39	2,193.51	2,185.28	11.05	7.82	-168.66	-94.61	-2,348.12	2,855.74	2,840.70	15.04	189.859				
2,000.00	1,905.92	2,264.83	2,255.30	11.87	8.12	-168.57	-84.07	-2,339.60	2,882.81	2,867.05	15.76	182.918				
2,100.00	1,997.45	2,445.14	2,431.40	12.69	8.89	-168.27	-52.69	-2,317.04	2,909.40	2,892.45	16.94	171.705				
2,200.00	2,088.97	2,501.67	2,486.44	13.52	9.14	-168.16	-42.34	-2,309.40	2,934.68	2,917.05	17.63	166.504				
2,300.00	2,180.50	2,590.44	2,573.13	14.35	9.54	-168.01	-26.76	-2,298.28	2,960.99	2,942.54	18.45	160.519				
2,400.00	2,272.03	2,704.36	2,684.43	15.17	10.05	-167.84	-7.50	-2,283.45	2,986.92	2,967.54	19.38	154.117				
2,500.00	2,363.56	2,811.15	2,788.68	16.00	10.55	-167.69	10.57	-2,269.04	3,012.41	2,992.11	20.30	148.429				
2,600.00	2,455.08	2,917.17	2,891.97	16.83	11.04	-167.51	29.58	-2,254.50	3,037.61	3,016.40	21.21	143.209				
2,700.00	2,546.61	2,980.58	2,953.83	17.66	11.33	-167.41	40.68	-2,246.08	3,063.27	3,041.34	21.93	139.673				
2,800.00	2,638.14	3,047.82	3,019.64	18.50	11.64	-167.33	51.63	-2,237.70	3,089.85	3,067.18	22.67	136.319				
2,900.00	2,729.67	3,125.91	3,096.31	19.33	12.00	-167.25	63.30	-2,228.59	3,117.29	3,093.85	23.45	132.956				
3,000.00	2,821.19	3,232.48	3,201.13	20.16	12.48	-167.17	77.85	-2,216.02	3,144.74	3,120.38	24.35	129.130				
3,100.00	2,912.72	3,350.45	3,317.21	20.99	13.02	-167.10	93.06	-2,201.52	3,171.78	3,146.46	25.32	125.263				
3,200.00	3,004.25	3,481.15	3,445.05	21.83	13.62	-166.94	114.18	-2,184.53	3,197.89	3,171.53	26.36	121.297				
3,300.00	3,095.78	3,611.30	3,571.54	22.66	14.27	-166.72	139.00	-2,166.52	3,222.99	3,195.54	27.45	117.413				
3,400.00	3,187.30	3,707.31	3,664.48	23.50	14.75	-166.54	158.72	-2,152.66	3,247.44	3,219.07	28.37	114.474				
3,500.00	3,278.83	3,783.37	3,738.20	24.33	15.14	-166.39	174.15	-2,142.05	3,272.41	3,243.22	29.19	112.122				
3,600.00	3,370.36	3,846.00	3,799.00	25.16	15.45	-166.28	186.60	-2,133.65	3,298.03	3,268.11	29.93	110.196				
3,700.00	3,461.89	3,895.82	3,847.55	26.00	15.69	-166.21	195.89	-2,127.53	3,324.88	3,294.29	30.59	108.703				
3,800.00	3,553.41	3,940.00	3,890.87	26.83	15.90	-166.15	203.23	-2,122.82	3,353.30	3,322.10	31.20	107.464				
3,900.00	3,644.94	4,046.83	3,996.00	27.67	16.39	-166.07	218.75	-2,111.99	3,382.37	3,350.24	32.14	105.241				
4,000.00	3,736.47	4,127.00	4,075.20	28.51	16.74	-166.06	227.58	-2,103.29	3,411.01	3,378.09	32.91	103.642				
4,100.00	3,828.00	4,192.66	4,140.35	29.34	17.00	-166.10	232.09	-2,096.46	3,440.35	3,406.77	33.58	102.464				
4,200.00	3,919.52	4,220.00	4,167.55	30.18	17.11	-166.13	233.14	-2,093.94	3,471.21	3,437.17	34.05	101.958				
4,300.00	4,011.05	4,260.45	4,207.88	31.01	17.24	-166.18	233.83	-2,090.89	3,503.67	3,469.12	34.55	101.418				
4,400.00	4,102.58	4,313.00	4,260.36	31.85	17.41	-166.28	233.23	-2,088.48	3,538.27	3,503.18	35.09	100.832				
4,500.00	4,194.11	4,321.42	4,268.77	32.68	17.44	-166.30	232.99	-2,088.24	3,574.04	3,538.62	35.41	100.920				
4,600.00	4,285.64	4,409.43	4,356.72	33.52	17.70	-166.49	230.72	-2,085.77	3,610.89	3,574.79	36.10	100.036				
4,700.00	4,377.16	4,497.42	4,444.65	34.36	17.96	-166.66	228.70	-2,083.42	3,647.88	3,611.11	36.78	99.188				
4,800.00	4,468.69	4,579.03	4,526.22	35.19	18.21	-166.82	227.07	-2,081.42	3,685.09	3,647.66	37.43	98.441				
4,900.00	4,560.22	4,660.38	4,607.55	36.03	18.45	-166.97	225.66	-2,079.67	3,722.60	3,684.51	38.09	97.731				
5,000.00	4,651.75	4,751.17	4,698.31	36.87	18.73	-167.13	224.26	-2,077.92	3,760.33	3,721.53	38.80	96.927				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F11-J14-3HNC - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,743.27	4,846.12	4,793.23	37.70	19.02	-167.29	222.71	-2,076.02	3,798.02	3,758.50	39.52	96.100		
5,200.00	4,834.80	4,929.92	4,877.00	38.54	19.28	-167.44	221.31	-2,074.37	3,835.77	3,795.58	40.19	95.433		
5,300.00	4,926.33	5,009.59	4,956.64	39.38	19.52	-167.57	220.05	-2,073.05	3,873.83	3,832.98	40.84	94.845		
5,400.00	5,017.86	5,092.79	5,039.83	40.21	19.78	-167.71	218.81	-2,071.93	3,912.18	3,870.67	41.51	94.239		
5,500.00	5,109.38	5,182.06	5,129.08	41.05	20.05	-167.85	217.65	-2,070.84	3,950.66	3,908.45	42.22	93.581		
5,600.00	5,200.91	5,269.49	5,216.51	41.89	20.32	-167.98	216.71	-2,069.86	3,989.23	3,946.32	42.91	92.965		
5,700.00	5,292.44	5,351.35	5,298.35	42.73	20.58	-168.10	215.84	-2,069.09	4,028.00	3,984.42	43.58	92.435		
5,800.00	5,383.97	5,433.02	5,380.02	43.56	20.83	-168.22	214.91	-2,068.53	4,067.01	4,022.77	44.24	91.929		
5,900.00	5,475.51	5,509.55	5,456.54	44.40	21.07	-172.66	213.98	-2,068.23	4,106.32	4,061.44	44.87	91.509		
6,000.00	5,567.37	5,585.81	5,532.80	45.19	21.30	160.08	213.01	-2,068.22	4,145.41	4,099.94	45.47	91.165		
6,100.00	5,657.57	5,660.66	5,607.64	45.89	21.53	137.14	212.00	-2,068.48	4,183.12	4,137.11	46.01	90.919		
6,200.00	5,743.38	5,818.00	5,763.97	46.48	21.98	121.32	199.15	-2,067.01	4,217.42	4,170.53	46.89	89.949		
6,300.00	5,822.18	5,866.00	5,809.86	46.95	22.09	110.11	185.19	-2,065.74	4,248.13	4,201.01	47.13	90.145		
6,400.00	5,891.60	5,892.75	5,834.93	47.31	22.13	102.21	175.88	-2,065.29	4,275.66	4,228.41	47.25	90.481		
6,500.00	5,949.50	5,913.00	5,853.68	47.58	22.17	96.58	168.23	-2,065.13	4,299.49	4,252.13	47.36	90.785		
6,600.00	5,994.15	5,942.13	5,880.35	47.76	22.21	92.76	156.52	-2,065.25	4,319.05	4,271.54	47.51	90.900		
6,700.00	6,024.17	5,961.00	5,897.47	47.86	22.24	90.25	148.59	-2,065.57	4,334.03	4,286.35	47.67	90.912		
6,800.00	6,038.67	5,961.00	5,897.47	47.91	22.24	88.73	148.59	-2,065.57	4,344.24	4,296.43	47.81	90.867		
6,900.00	6,040.00	6,755.82	6,215.04	47.93	24.20	92.62	-521.15	-2,036.35	4,344.20	4,292.48	51.72	83.999		
7,000.00	6,040.00	6,798.00	6,215.56	47.98	24.51	92.63	-563.11	-2,032.16	4,336.63	4,284.20	52.43	82.720		
7,100.00	6,040.00	6,828.65	6,216.16	48.09	24.76	92.64	-593.65	-2,029.55	4,330.51	4,277.39	53.12	81.526		
7,200.00	6,040.00	6,862.49	6,216.98	48.23	25.04	92.65	-627.39	-2,027.15	4,325.91	4,272.01	53.89	80.266		
7,300.00	6,040.00	6,950.75	6,219.84	48.43	25.81	92.69	-715.46	-2,022.22	4,322.77	4,267.41	55.36	78.082		
7,400.00	6,040.00	7,020.44	6,222.55	48.67	26.47	92.73	-784.96	-2,017.83	4,319.18	4,262.44	56.74	76.126		
7,500.00	6,040.00	7,055.14	6,223.78	48.97	26.81	92.75	-819.60	-2,016.21	4,317.07	4,259.34	57.74	74.772		
7,599.86	6,040.00	7,096.68	6,225.07	49.32	27.23	92.76	-861.10	-2,014.95	4,316.46	4,257.59	58.87	73.319		
7,600.00	6,040.00	7,096.77	6,225.08	49.32	27.23	92.76	-861.20	-2,014.95	4,316.46	4,257.59	58.87	73.317		
7,700.00	6,040.00	7,166.53	6,226.16	49.73	27.96	92.78	-930.93	-2,013.48	4,316.81	4,256.35	60.47	71.392		
7,800.00	6,040.00	7,453.84	6,224.61	50.19	31.29	92.76	-1,218.02	-2,003.84	4,316.66	4,250.99	65.67	65.734		
7,900.00	6,040.00	7,538.13	6,223.37	50.71	32.37	92.74	-1,302.16	-1,998.93	4,313.15	4,245.33	67.82	63.596		
8,000.00	6,040.00	7,760.26	6,220.80	51.29	35.36	92.72	-1,523.80	-1,984.60	4,309.70	4,237.08	72.63	59.340		
8,100.00	6,040.00	7,881.60	6,219.93	51.93	37.09	92.71	-1,644.63	-1,973.48	4,302.78	4,227.04	75.74	56.813		
8,200.00	6,040.00	7,938.00	6,220.92	52.63	37.90	92.72	-1,700.81	-1,968.69	4,296.72	4,219.08	77.63	55.348		
8,300.00	6,040.00	7,978.47	6,221.90	53.39	38.50	92.74	-1,741.16	-1,965.73	4,291.84	4,212.60	79.23	54.168		
8,400.00	6,040.00	8,033.00	6,222.70	54.20	39.30	92.75	-1,795.59	-1,962.56	4,288.32	4,207.19	81.13	52.855		
8,500.00	6,040.00	8,105.35	6,223.16	55.07	40.37	92.76	-1,867.85	-1,959.00	4,285.72	4,202.29	83.43	51.369		
8,600.00	6,040.00	8,193.44	6,223.02	55.99	41.69	92.76	-1,955.84	-1,954.79	4,283.31	4,197.22	86.09	49.754		
8,700.00	6,040.00	8,291.25	6,221.88	56.97	43.17	92.74	-2,053.54	-1,950.41	4,281.16	4,192.16	89.00	48.105		
8,800.00	6,040.00	8,389.83	6,220.73	57.99	44.68	92.73	-2,152.02	-1,945.97	4,278.97	4,187.01	91.96	46.529		
8,900.00	6,040.00	8,501.46	6,219.10	59.06	46.42	92.71	-2,263.53	-1,940.89	4,276.73	4,181.47	95.26	44.897		
9,000.00	6,040.00	8,610.82	6,219.17	60.17	48.14	92.71	-2,372.74	-1,935.51	4,274.19	4,175.64	98.55	43.372		
9,100.00	6,040.00	8,710.06	6,220.35	61.32	49.72	92.73	-2,471.85	-1,930.55	4,271.62	4,169.97	101.65	42.023		
9,200.00	6,040.00	8,827.22	6,221.82	62.51	51.60	92.75	-2,588.83	-1,924.18	4,268.59	4,163.40	105.19	40.579		
9,300.00	6,040.00	8,915.14	6,221.65	63.73	53.02	92.75	-2,676.63	-1,919.65	4,265.78	4,157.70	108.09	39.467		
9,400.00	6,040.00	9,035.32	6,219.94	64.98	54.98	92.73	-2,796.63	-1,913.31	4,262.82	4,151.07	111.75	38.146		
9,500.00	6,040.00	9,201.68	6,220.44	66.27	57.73	92.74	-2,962.63	-1,902.38	4,258.52	4,142.00	116.52	36.546		
9,600.00	6,040.00	9,268.00	6,221.32	67.58	58.83	92.76	-3,028.79	-1,897.93	4,254.21	4,135.22	118.99	35.751		
9,700.00	6,040.00	9,361.60	6,222.17	68.92	60.39	92.77	-3,122.21	-1,892.10	4,250.40	4,128.28	122.11	34.807		
9,800.00	6,040.00	9,492.17	6,222.51	70.29	62.58	92.78	-3,252.49	-1,883.58	4,246.27	4,120.15	126.12	33.667		
9,900.00	6,040.00	9,553.00	6,222.66	71.67	63.60	92.78	-3,313.17	-1,879.19	4,241.73	4,113.23	128.50	33.010		
10,000.00	6,040.00	9,602.71	6,222.72	73.08	64.43	92.78	-3,362.78	-1,876.12	4,238.31	4,107.71	130.60	32.453		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,100.00	6,040.00	9,648.00	6,222.73	74.51	65.19	92.78	-3,408.04	-1,874.48	4,236.75	4,104.18	132.58	31.956			
10,149.42	6,040.00	9,648.00	6,222.73	75.22	65.19	92.78	-3,408.04	-1,874.48	4,236.47	4,103.47	133.00	31.853			
10,200.00	6,040.00	9,680.03	6,222.67	75.95	65.73	92.78	-3,440.07	-1,873.79	4,236.57	4,102.36	134.21	31.566			
10,300.00	6,040.00	10,300.00	6,220.46	77.41	76.34	92.77	-3,919.41	-1,839.86	4,229.38	4,080.24	149.14	28.359			
10,400.00	6,040.00	10,200.95	6,221.20	78.89	74.62	92.78	-3,959.13	-1,835.64	4,221.44	4,072.72	148.72	28.385			
10,500.00	6,040.00	10,249.00	6,221.83	80.38	75.45	92.79	-4,007.01	-1,831.55	4,215.13	4,064.25	150.88	27.937			
10,600.00	6,040.00	10,315.95	6,222.43	81.88	76.61	92.80	-4,073.76	-1,826.54	4,209.91	4,056.43	153.48	27.429			
10,700.00	6,040.00	10,461.22	6,223.38	83.40	79.12	92.82	-4,218.53	-1,814.47	4,203.90	4,045.93	157.97	26.611			
10,800.00	6,040.00	10,504.00	6,223.86	84.93	79.87	92.83	-4,261.17	-1,811.03	4,198.34	4,038.33	160.01	26.238			
10,900.00	6,040.00	10,558.29	6,224.71	86.47	80.81	92.84	-4,315.32	-1,807.31	4,193.98	4,031.68	162.30	25.840			
11,000.00	6,040.00	10,624.26	6,225.93	88.02	81.95	92.86	-4,381.18	-1,803.61	4,190.76	4,025.89	164.88	25.418			
11,100.00	6,040.00	10,767.26	6,227.49	89.58	84.42	92.88	-4,523.93	-1,795.29	4,187.41	4,018.05	169.36	24.725			
11,200.00	6,040.00	10,882.02	6,228.32	91.15	86.41	92.90	-4,638.42	-1,787.64	4,183.14	4,009.99	173.15	24.158			
11,300.00	6,040.00	10,897.00	6,228.39	92.73	86.67	92.90	-4,653.37	-1,786.63	4,179.66	4,005.19	174.47	23.956			
11,396.48	6,040.00	10,897.00	6,228.39	94.26	86.67	92.90	-4,653.37	-1,786.63	4,178.55	4,003.25	175.30	23.836			
11,400.00	6,040.00	10,897.00	6,228.39	94.31	86.67	92.90	-4,653.37	-1,786.63	4,178.55	4,003.22	175.33	23.832			
11,500.00	6,040.00	10,897.00	6,228.39	95.91	86.67	92.90	-4,653.37	-1,786.63	4,179.83	4,003.73	176.11	23.735			
11,600.00	6,040.00	10,897.00	6,228.39	97.51	86.67	92.90	-4,653.37	-1,786.63	4,183.50	4,006.71	176.79	23.664			
11,700.00	6,040.00	10,897.00	6,228.39	99.11	86.67	92.90	-4,653.37	-1,786.63	4,189.56	4,012.17	177.38	23.618			
11,800.00	6,040.00	10,897.00	6,228.39	100.73	86.67	92.90	-4,653.37	-1,786.63	4,197.99	4,020.10	177.89	23.599 SF			
11,900.00	6,040.00	10,897.00	6,228.39	102.35	86.67	92.90	-4,653.37	-1,786.63	4,208.78	4,030.48	178.30	23.605			
12,000.00	6,040.00	10,897.00	6,228.39	103.97	86.67	92.90	-4,653.37	-1,786.63	4,221.91	4,043.28	178.62	23.636			
12,100.00	6,040.00	10,897.00	6,228.39	105.60	86.67	92.90	-4,653.37	-1,786.63	4,237.36	4,058.50	178.86	23.691			
12,200.00	6,040.00	10,897.00	6,228.39	107.24	86.67	92.90	-4,653.37	-1,786.63	4,255.10	4,076.10	179.00	23.771			
12,300.00	6,040.00	10,897.00	6,228.39	108.88	86.67	92.90	-4,653.37	-1,786.63	4,275.12	4,096.05	179.06	23.875			
12,400.00	6,040.00	10,897.00	6,228.39	110.53	86.67	92.90	-4,653.37	-1,786.63	4,297.36	4,118.32	179.04	24.002			
12,500.00	6,040.00	10,897.00	6,228.39	112.18	86.67	92.90	-4,653.37	-1,786.63	4,321.81	4,142.87	178.94	24.152			
12,600.00	6,040.00	10,897.00	6,228.39	113.83	86.67	92.90	-4,653.37	-1,786.63	4,348.42	4,169.66	178.76	24.326			
12,700.00	6,040.00	10,897.00	6,228.39	115.49	86.67	92.90	-4,653.37	-1,786.63	4,377.15	4,198.65	178.50	24.522			
12,800.00	6,040.00	10,897.00	6,228.39	117.16	86.67	92.90	-4,653.37	-1,786.63	4,407.96	4,229.79	178.17	24.740			
12,900.00	6,040.00	10,897.00	6,228.39	118.82	86.67	92.90	-4,653.37	-1,786.63	4,440.82	4,263.04	177.78	24.980			
13,000.00	6,040.00	10,897.00	6,228.39	120.49	86.67	92.90	-4,653.37	-1,786.63	4,475.66	4,298.34	177.32	25.241			
13,100.00	6,040.00	10,897.00	6,228.39	122.16	86.67	92.90	-4,653.37	-1,786.63	4,512.45	4,335.66	176.80	25.523			
13,200.00	6,040.00	10,897.00	6,228.39	123.84	86.67	92.90	-4,653.37	-1,786.63	4,551.15	4,374.93	176.22	25.826			
13,300.00	6,040.00	10,897.00	6,228.39	125.52	86.67	92.90	-4,653.37	-1,786.63	4,591.69	4,416.10	175.59	26.150			
13,400.00	6,040.00	10,897.00	6,228.39	127.20	86.67	92.90	-4,653.37	-1,786.63	4,634.04	4,459.13	174.92	26.493			
13,500.00	6,040.00	10,897.00	6,228.39	128.89	86.67	92.90	-4,653.37	-1,786.63	4,678.15	4,503.95	174.19	26.856			
13,600.00	6,040.00	10,897.00	6,228.39	130.58	86.67	92.90	-4,653.37	-1,786.63	4,723.96	4,550.53	173.43	27.238			
13,700.00	6,040.00	10,897.00	6,228.39	132.27	86.67	92.90	-4,653.37	-1,786.63	4,771.42	4,598.79	172.63	27.640			
13,800.00	6,040.00	10,897.00	6,228.39	133.96	86.67	92.90	-4,653.37	-1,786.63	4,820.49	4,648.70	171.79	28.060			
13,900.00	6,040.00	10,897.00	6,228.39	135.66	86.67	92.90	-4,653.37	-1,786.63	4,871.13	4,700.20	170.93	28.498			
14,000.00	6,040.00	10,897.00	6,228.39	137.35	86.67	92.90	-4,653.37	-1,786.63	4,923.27	4,753.23	170.04	28.954			
14,100.00	6,040.00	10,897.00	6,228.39	139.05	86.67	92.90	-4,653.37	-1,786.63	4,976.87	4,807.75	169.12	29.428			
14,200.00	6,040.00	10,897.00	6,228.39	140.75	86.67	92.90	-4,653.37	-1,786.63	5,031.90	4,863.71	168.19	29.919			
14,300.00	6,040.00	10,897.00	6,228.39	142.46	86.67	92.90	-4,653.37	-1,786.63	5,088.29	4,921.06	167.23	30.426			
14,400.00	6,040.00	10,897.00	6,228.39	144.17	86.67	92.90	-4,653.37	-1,786.63	5,146.01	4,979.74	166.26	30.951			
14,500.00	6,040.00	10,897.00	6,228.39	145.87	86.67	92.90	-4,653.37	-1,786.63	5,205.01	5,039.72	165.28	31.492			
14,600.00	6,040.00	10,897.00	6,228.39	147.58	86.67	92.90	-4,653.37	-1,786.63	5,265.24	5,100.95	164.29	32.048			
14,700.00	6,040.00	10,897.00	6,228.39	149.29	86.67	92.90	-4,653.37	-1,786.63	5,326.68	5,163.39	163.29	32.620			
14,800.00	6,040.00	10,897.00	6,228.39	151.01	86.67	92.90	-4,653.37	-1,786.63	5,389.27	5,226.98	162.29	33.208			
14,900.00	6,040.00	10,897.00	6,228.39	152.72	86.67	92.90	-4,653.37	-1,786.63	5,452.97	5,291.69	161.28	33.811			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F11-J14-3HNC - OWB - FINAL SURVEY															
Reference				Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,000.00	6,040.00	10,897.00	6,228.39	154.44	86.67	92.90	-4,653.37	-1,786.63	5,517.75	5,357.48	160.27	34.428			
15,100.00	6,040.00	10,897.00	6,228.39	156.16	86.67	92.90	-4,653.37	-1,786.63	5,583.58	5,424.31	159.26	35.059			
15,200.00	6,040.00	10,897.00	6,228.39	157.88	86.67	92.90	-4,653.37	-1,786.63	5,650.40	5,492.15	158.25	35.705			
15,300.00	6,040.00	10,897.00	6,228.39	159.60	86.67	92.90	-4,653.37	-1,786.63	5,718.19	5,560.95	157.25	36.365			
15,400.00	6,040.00	10,897.00	6,228.39	161.32	86.67	92.90	-4,653.37	-1,786.63	5,786.92	5,630.67	156.24	37.038			
15,500.00	6,040.00	10,897.00	6,228.39	163.04	86.67	92.90	-4,653.37	-1,786.63	5,856.55	5,701.30	155.25	37.724			
15,600.00	6,040.00	10,897.00	6,228.39	164.77	86.67	92.90	-4,653.37	-1,786.63	5,927.04	5,772.78	154.26	38.423			
15,700.00	6,040.00	10,897.00	6,228.39	166.49	86.67	92.90	-4,653.37	-1,786.63	5,998.38	5,845.10	153.28	39.135			
15,800.00	6,040.00	10,897.00	6,228.39	168.22	86.67	92.90	-4,653.37	-1,786.63	6,070.52	5,918.22	152.30	39.859			
15,900.00	6,040.00	10,897.00	6,228.39	169.95	86.67	92.90	-4,653.37	-1,786.63	6,143.45	5,992.11	151.34	40.595			
16,000.00	6,040.00	10,897.00	6,228.39	171.68	86.67	92.90	-4,653.37	-1,786.63	6,217.12	6,066.74	150.38	41.343			
16,100.00	6,040.00	10,897.00	6,228.39	173.41	86.67	92.90	-4,653.37	-1,786.63	6,291.53	6,142.09	149.44	42.102			
16,200.00	6,040.00	10,897.00	6,228.39	175.14	86.67	92.90	-4,653.37	-1,786.63	6,366.64	6,218.13	148.50	42.873			
16,300.00	6,040.00	10,897.00	6,228.39	176.88	86.67	92.90	-4,653.37	-1,786.63	6,442.42	6,294.84	147.58	43.654			
16,400.00	6,040.00	10,897.00	6,228.39	178.61	86.67	92.90	-4,653.37	-1,786.63	6,518.85	6,372.19	146.67	44.447			
16,500.00	6,040.00	10,897.00	6,228.39	180.34	86.67	92.90	-4,653.37	-1,786.63	6,595.92	6,450.15	145.77	45.250			
16,600.00	6,040.00	10,897.00	6,228.39	182.08	86.67	92.90	-4,653.37	-1,786.63	6,673.59	6,528.71	144.88	46.063			
16,700.00	6,040.00	10,897.00	6,228.39	183.82	86.67	92.90	-4,653.37	-1,786.63	6,751.86	6,607.85	144.01	46.886			
16,800.00	6,040.00	10,897.00	6,228.39	185.56	86.67	92.90	-4,653.37	-1,786.63	6,830.69	6,687.54	143.14	47.719			
16,865.66	6,040.00	10,897.00	6,228.39	186.70	86.67	92.90	-4,653.37	-1,786.63	6,882.74	6,740.16	142.59	48.271			

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 17-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F-J-3HNB - OWB - FINAL SURVEY														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-93.25	-138.32	-2,433.37	2,437.40					
100.00	100.00	74.93	74.93	0.13	0.21	-93.25	-138.33	-2,433.39	2,437.32	2,436.98	0.34	7,124.052	CC, ES	
200.00	199.98	171.46	171.46	0.49	0.55	-167.62	-138.37	-2,433.54	2,439.18	2,438.14	1.05	2,332.415		
300.00	299.84	273.61	273.61	0.86	0.91	-167.63	-138.47	-2,433.80	2,444.55	2,442.78	1.77	1,379.559		
400.00	399.45	387.23	387.23	1.23	1.31	-167.65	-138.59	-2,433.62	2,452.91	2,450.38	2.53	969.591		
500.00	498.70	483.97	483.97	1.63	1.64	-167.66	-138.80	-2,433.25	2,464.46	2,461.22	3.24	761.250		
600.00	597.47	581.34	581.33	2.05	1.98	-167.68	-139.20	-2,432.93	2,479.45	2,475.50	3.95	627.659		
700.00	695.62	685.32	685.32	2.51	2.35	-167.72	-139.79	-2,432.55	2,497.79	2,493.09	4.69	532.192		
800.00	793.06	794.63	794.62	3.00	2.73	-167.76	-140.36	-2,431.70	2,519.07	2,513.60	5.46	461.139		
900.00	889.64	900.28	900.26	3.54	3.11	-167.81	-140.90	-2,430.44	2,543.28	2,537.05	6.23	408.503		
1,000.00	985.27	1,004.44	1,004.40	4.13	3.47	-167.85	-141.57	-2,428.85	2,570.48	2,563.49	6.99	367.718		
1,100.00	1,079.82	1,114.62	1,114.56	4.77	3.86	-167.87	-140.16	-2,426.96	2,600.69	2,592.92	7.78	334.390		
1,200.00	1,173.17	1,471.47	1,469.92	5.46	5.13	-168.01	-123.10	-2,401.60	2,628.18	2,618.75	9.43	278.671		
1,300.00	1,265.23	1,615.72	1,612.53	6.21	5.68	-167.93	-110.83	-2,383.76	2,654.21	2,643.83	10.38	255.726		
1,400.00	1,356.75	1,400.00	1,666.02	7.00	4.80	-167.89	-83.95	-2,340.85	2,676.57	2,666.62	9.95	268.903		
1,500.00	1,448.28	2,186.67	2,167.24	7.80	8.25	-167.76	-46.53	-2,267.80	2,691.68	2,678.38	13.30	202.358		
1,600.00	1,539.81	2,298.00	2,273.54	8.60	8.84	-167.71	-32.68	-2,237.74	2,704.01	2,689.82	14.20	190.463		
1,700.00	1,631.34	2,470.90	2,438.03	9.41	9.81	-167.65	-11.93	-2,188.71	2,715.13	2,699.82	15.31	177.292		
1,800.00	1,722.86	2,574.78	2,536.35	10.23	10.41	-167.65	-0.88	-2,157.06	2,724.00	2,707.80	16.20	168.168		
1,900.00	1,814.39	2,643.56	2,601.67	11.05	10.81	-167.65	6.16	-2,136.70	2,733.81	2,716.85	16.96	161.171		
2,000.00	1,905.92	2,712.96	2,667.82	11.87	11.22	-167.65	13.09	-2,116.89	2,744.75	2,727.02	17.73	154.833		
2,100.00	1,997.45	2,859.61	2,806.88	12.69	12.11	-167.61	30.70	-2,073.82	2,754.34	2,735.55	18.79	146.597		
2,200.00	2,088.97	2,929.33	2,872.96	13.52	12.53	-167.56	40.17	-2,053.69	2,764.64	2,745.06	19.57	141.241		
2,300.00	2,180.50	2,998.00	2,938.20	14.35	12.95	-167.51	49.86	-2,034.59	2,776.01	2,755.65	20.35	136.386		
2,400.00	2,272.03	3,054.39	2,991.94	15.17	13.28	-167.46	58.14	-2,019.65	2,788.69	2,767.61	21.09	132.256		
2,500.00	2,363.56	3,109.82	3,044.95	16.00	13.61	-167.40	66.59	-2,005.83	2,802.93	2,781.12	21.81	128.526		
2,600.00	2,455.08	3,188.00	3,119.99	16.83	14.06	-167.31	79.05	-1,987.81	2,818.88	2,796.25	22.63	124.582		
2,700.00	2,546.61	3,257.38	3,186.70	17.66	14.46	-167.22	90.33	-1,972.43	2,835.64	2,812.23	23.41	121.139		
2,800.00	2,638.14	3,377.25	3,301.83	18.50	15.14	-167.08	109.55	-1,945.14	2,852.04	2,827.62	24.42	116.797		
2,900.00	2,729.67	3,546.37	3,463.43	19.33	16.15	-166.86	137.83	-1,904.12	2,866.88	2,841.21	25.67	111.680		
3,000.00	2,821.19	3,633.72	3,546.58	20.16	16.67	-166.74	152.79	-1,881.92	2,880.55	2,854.00	26.55	108.493		
3,100.00	2,912.72	3,710.84	3,620.35	20.99	17.14	-166.66	164.59	-1,862.78	2,894.96	2,867.58	27.38	105.731		
3,200.00	3,004.25	3,753.00	3,660.82	21.83	17.39	-166.64	170.45	-1,852.51	2,910.38	2,882.34	28.04	103.789		
3,300.00	3,095.78	3,821.73	3,727.13	22.66	17.76	-166.60	179.14	-1,836.71	2,927.06	2,898.26	28.80	101.638		
3,400.00	3,187.30	3,868.69	3,772.74	23.50	18.01	-166.60	184.45	-1,826.85	2,945.63	2,916.19	29.45	100.026		
3,500.00	3,278.83	3,938.00	3,840.44	24.33	18.38	-166.60	191.34	-1,813.73	2,966.10	2,935.90	30.19	98.235		
3,600.00	3,370.36	3,938.00	3,840.44	25.16	18.38	-166.60	191.34	-1,813.73	2,988.08	2,957.49	30.59	97.686		
3,700.00	3,461.89	4,010.31	3,911.48	26.00	18.71	-166.62	197.70	-1,801.79	3,011.46	2,980.15	31.31	96.180		
3,800.00	3,553.41	4,057.66	3,958.17	26.83	18.93	-166.64	201.58	-1,794.93	3,036.63	3,004.73	31.90	95.182		
3,900.00	3,644.94	4,124.00	4,023.78	27.67	19.23	-166.67	206.64	-1,786.58	3,063.50	3,030.92	32.58	94.020		
4,000.00	3,736.47	4,171.31	4,070.67	28.51	19.42	-166.69	210.06	-1,781.22	3,091.49	3,058.33	33.15	93.253		
4,100.00	3,828.00	4,252.16	4,150.82	29.34	19.75	-166.74	215.80	-1,772.36	3,120.15	3,086.27	33.89	92.074		
4,200.00	3,919.52	4,329.06	4,227.12	30.18	20.06	-166.78	221.06	-1,764.30	3,149.30	3,114.71	34.60	91.028		
4,300.00	4,011.05	4,397.26	4,294.88	31.01	20.31	-166.83	224.83	-1,757.62	3,179.19	3,143.94	35.25	90.198		
4,400.00	4,102.58	4,464.97	4,362.27	31.85	20.57	-166.91	227.45	-1,751.51	3,209.89	3,174.01	35.89	89.445		
4,500.00	4,194.11	4,531.69	4,428.74	32.68	20.81	-167.00	228.97	-1,745.99	3,241.43	3,204.92	36.50	88.796		
4,600.00	4,285.64	4,597.51	4,494.37	33.52	21.03	-167.11	229.56	-1,741.07	3,273.80	3,236.70	37.10	88.235		
4,700.00	4,377.16	4,662.77	4,559.49	34.36	21.25	-167.22	229.28	-1,736.71	3,307.02	3,269.32	37.69	87.736		
4,800.00	4,468.69	4,681.00	4,572.68	35.19	21.31	-167.26	229.04	-1,735.59	3,341.54	3,303.52	38.02	87.881		
4,900.00	4,560.22	4,764.16	4,660.72	36.03	21.55	-167.42	227.78	-1,731.49	3,376.62	3,337.94	38.68	87.292		
5,000.00	4,651.75	4,811.86	4,708.40	36.87	21.69	-167.51	227.01	-1,730.01	3,413.32	3,374.17	39.15	87.191		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 17-MWD OWSG												SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F-J-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,743.27	4,868.00	4,764.52	37.70	21.85	-167.62	226.07	-1,729.07	3,451.27	3,411.62	39.65	87.036			
5,200.00	4,834.80	4,945.63	4,842.13	38.54	22.06	-167.76	224.86	-1,728.33	3,489.98	3,449.70	40.28	86.654			
5,300.00	4,926.33	5,041.68	4,938.17	39.38	22.31	-167.93	223.69	-1,727.35	3,528.64	3,487.64	41.00	86.062			
5,400.00	5,017.86	5,122.50	5,018.99	40.21	22.53	-168.06	222.93	-1,726.60	3,567.40	3,525.76	41.64	85.663			
5,500.00	5,109.38	5,201.87	5,098.35	41.05	22.75	-168.18	222.31	-1,726.15	3,606.49	3,564.21	42.28	85.300			
5,600.00	5,200.91	5,282.16	5,178.64	41.89	22.97	-168.31	221.76	-1,725.97	3,645.91	3,602.99	42.92	84.948			
5,700.00	5,292.44	5,363.92	5,260.39	42.73	23.18	-168.43	221.05	-1,726.00	3,685.60	3,642.04	43.56	84.602			
5,800.00	5,383.97	5,446.20	5,342.67	43.56	23.40	-168.56	220.12	-1,726.23	3,725.55	3,681.34	44.21	84.268			
5,900.00	5,475.51	5,537.13	5,433.59	44.40	23.65	-173.05	218.92	-1,726.57	3,765.62	3,720.71	44.91	83.855			
6,000.00	5,567.37	5,628.51	5,524.96	45.19	23.89	159.66	217.57	-1,726.91	3,805.06	3,759.48	45.58	83.483			
6,100.00	5,657.57	5,722.79	5,648.80	45.89	24.21	136.88	209.14	-1,726.16	3,842.19	3,795.83	46.36	82.870			
6,200.00	5,743.38	5,827.16	5,719.32	46.48	24.35	120.48	186.20	-1,724.02	3,876.30	3,829.58	46.73	82.956			
6,300.00	5,822.18	5,867.00	5,754.82	46.95	24.41	109.12	168.19	-1,722.67	3,907.34	3,860.45	46.89	83.332			
6,400.00	5,891.60	5,913.00	5,794.05	47.31	24.45	101.22	144.22	-1,721.70	3,935.06	3,888.02	47.05	83.644			
6,500.00	5,949.50	5,934.49	5,811.90	47.58	24.46	95.61	132.24	-1,721.57	3,958.75	3,911.61	47.14	83.981			
6,600.00	5,994.15	6,000.00	5,864.92	47.76	25.12	92.09	94.93	-1,721.67	3,977.66	3,929.29	48.37	82.228			
6,700.00	6,024.17	6,526.00	6,129.42	47.86	24.87	91.81	-339.67	-1,689.14	3,987.29	3,937.35	49.94	79.839			
6,800.00	6,038.67	6,554.57	6,130.47	47.91	24.94	91.46	-368.03	-1,685.82	3,984.24	3,933.92	50.33	79.169			
6,900.00	6,040.00	6,601.00	6,131.24	47.93	25.11	91.65	-414.28	-1,681.97	3,978.18	3,927.28	50.90	78.160			
7,000.00	6,040.00	6,725.41	6,129.91	47.98	25.75	91.63	-538.22	-1,671.37	3,972.17	3,919.87	52.30	75.956			
7,100.00	6,040.00	6,791.00	6,129.90	48.09	26.21	91.63	-603.55	-1,665.52	3,965.54	3,912.24	53.30	74.395			
7,200.00	6,040.00	6,825.08	6,130.28	48.23	26.47	91.64	-637.53	-1,662.89	3,960.11	3,906.05	54.06	73.249			
7,300.00	6,040.00	6,886.00	6,130.93	48.43	26.96	91.65	-698.33	-1,659.28	3,956.34	3,901.14	55.19	71.685			
7,400.00	6,040.00	6,975.84	6,131.85	48.67	27.75	91.67	-788.04	-1,654.51	3,953.37	3,896.55	56.81	69.586			
7,500.00	6,040.00	7,023.64	6,132.34	48.97	28.21	91.67	-835.77	-1,652.00	3,950.55	3,892.60	57.96	68.164			
7,600.00	6,040.00	7,076.00	6,132.92	49.32	28.72	91.68	-888.09	-1,650.08	3,949.18	3,889.97	59.21	66.699			
7,700.00	6,040.00	7,148.31	6,133.25	49.73	29.46	91.69	-960.37	-1,648.13	3,948.81	3,887.96	60.85	64.897			
7,800.00	6,040.00	7,251.98	6,133.30	50.19	30.59	91.69	-1,064.01	-1,645.46	3,948.61	3,885.52	63.09	62.587			
7,870.76	6,040.00	7,311.26	6,133.94	50.55	31.26	91.70	-1,123.26	-1,643.92	3,948.48	3,883.96	64.52	61.201			
7,900.00	6,040.00	7,334.15	6,134.09	50.71	31.53	91.70	-1,146.15	-1,643.39	3,948.50	3,883.42	65.08	60.672			
8,000.00	6,040.00	7,454.06	6,134.59	51.29	32.97	91.71	-1,266.02	-1,640.60	3,948.59	3,880.74	67.85	58.194			
8,032.41	6,040.00	7,472.91	6,134.69	51.49	33.20	91.71	-1,284.87	-1,640.12	3,948.53	3,880.12	68.40	57.723			
8,100.00	6,040.00	7,509.74	6,134.90	51.93	33.66	91.71	-1,321.69	-1,639.38	3,948.79	3,879.29	69.50	56.815			
8,200.00	6,040.00	8,200.00	6,135.56	52.63	42.73	91.72	-1,430.33	-1,637.66	3,949.61	3,869.64	79.97	49.389			
8,300.00	6,040.00	7,711.21	6,135.47	53.39	36.28	91.72	-1,523.12	-1,635.68	3,949.88	3,875.13	74.75	52.839			
8,400.00	6,040.00	7,882.69	6,134.06	54.20	38.63	91.70	-1,694.53	-1,631.51	3,949.85	3,870.84	79.02	49.987			
8,500.00	6,040.00	7,969.01	6,134.78	55.07	39.86	91.71	-1,780.80	-1,628.64	3,948.93	3,867.39	81.55	48.425			
8,600.00	6,040.00	8,057.59	6,134.67	55.99	41.14	91.71	-1,869.34	-1,626.09	3,948.41	3,864.25	84.17	46.911			
8,700.00	6,040.00	8,161.95	6,133.68	56.97	42.67	91.69	-1,973.66	-1,623.14	3,947.93	3,860.74	87.19	45.280			
8,800.00	6,040.00	8,442.94	6,129.68	57.99	46.97	91.64	-2,254.03	-1,606.07	3,942.54	3,848.13	94.40	41.762			
8,900.00	6,040.00	8,507.62	6,129.54	59.06	47.98	91.64	-2,318.55	-1,601.56	3,937.90	3,841.26	96.65	40.745			
9,000.00	6,040.00	8,596.00	6,129.82	60.17	49.38	91.64	-2,406.72	-1,595.41	3,933.39	3,833.91	99.48	39.541			
9,100.00	6,040.00	8,664.58	6,130.75	61.32	50.47	91.66	-2,475.15	-1,590.99	3,929.51	3,827.66	101.85	38.581			
9,200.00	6,040.00	9,200.00	6,134.01	62.51	59.06	91.71	-2,578.85	-1,585.18	3,926.38	3,814.28	112.10	35.027			
9,300.00	6,040.00	8,842.21	6,136.30	63.73	53.31	91.74	-2,652.40	-1,580.94	3,923.19	3,815.54	107.65	36.444			
9,400.00	6,040.00	8,880.00	6,137.40	64.98	53.92	91.76	-2,690.14	-1,579.22	3,921.29	3,812.00	109.29	35.879			
9,500.00	6,040.00	8,944.90	6,138.11	66.27	54.96	91.77	-2,755.00	-1,577.11	3,920.55	3,808.94	111.61	35.127			
9,507.56	6,040.00	8,948.84	6,138.08	66.37	55.03	91.77	-2,758.93	-1,577.01	3,920.55	3,808.79	111.76	35.080			
9,600.00	6,040.00	9,031.65	6,136.61	67.58	56.35	91.75	-2,841.72	-1,575.42	3,920.89	3,806.41	114.48	34.250			
9,700.00	6,040.00	9,158.70	6,134.90	68.92	58.41	91.72	-2,968.72	-1,572.29	3,920.75	3,802.35	118.40	33.115			
9,800.00	6,040.00	9,800.00	6,131.70	70.29	68.98	91.68	-3,137.51	-1,566.06	3,919.34	3,788.06	131.28	29.856			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES F-J-3HNB - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 17-MWD OWSG														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,900.00	6,040.00	9,472.38	6,131.84	71.67	63.58	91.68	-3,282.02	-1,558.23	3,916.19	3,788.34	127.85	30.630		
10,000.00	6,040.00	9,573.62	6,132.36	73.08	65.27	91.69	-3,383.09	-1,552.31	3,912.73	3,781.53	131.20	29.823		
10,100.00	6,040.00	9,655.09	6,132.91	74.51	66.63	91.70	-3,464.44	-1,547.83	3,909.62	3,775.57	134.05	29.165		
10,200.00	6,040.00	9,763.18	6,132.57	75.95	68.45	91.70	-3,572.37	-1,542.15	3,906.73	3,769.14	137.59	28.393		
10,300.00	6,040.00	9,904.49	6,131.31	77.41	70.84	91.68	-3,713.41	-1,533.57	3,902.97	3,760.96	142.01	27.484		
10,400.00	6,040.00	9,970.96	6,131.18	78.89	71.97	91.68	-3,779.75	-1,529.38	3,899.10	3,754.59	144.50	26.983		
10,500.00	6,040.00	10,044.85	6,130.80	80.38	73.22	91.67	-3,853.55	-1,525.66	3,896.34	3,749.15	147.19	26.471		
10,600.00	6,040.00	10,284.41	6,129.47	81.88	77.33	91.66	-4,092.43	-1,508.13	3,890.65	3,736.47	154.18	25.235		
10,700.00	6,040.00	10,377.84	6,129.38	83.40	78.94	91.66	-4,185.53	-1,500.20	3,884.53	3,727.11	157.42	24.677		
10,800.00	6,040.00	10,457.78	6,129.20	84.93	80.32	91.66	-4,265.20	-1,493.62	3,878.67	3,718.35	160.32	24.194		
10,900.00	6,040.00	10,528.51	6,128.77	86.47	81.55	91.66	-4,335.72	-1,488.27	3,873.46	3,710.49	162.98	23.767		
11,000.00	6,040.00	10,599.28	6,128.19	88.02	82.77	91.65	-4,406.33	-1,483.52	3,869.09	3,703.45	165.64	23.359		
11,100.00	6,040.00	10,725.79	6,129.29	89.58	84.96	91.67	-4,532.53	-1,474.85	3,864.61	3,694.85	169.76	22.765		
11,200.00	6,040.00	10,830.33	6,131.07	91.15	86.77	91.70	-4,636.78	-1,467.28	3,859.79	3,686.47	173.32	22.270		
11,300.00	6,040.00	10,837.00	6,131.19	92.73	88.89	91.70	-4,643.43	-1,466.79	3,856.06	3,681.77	174.28	22.125		
11,394.14	6,040.00	10,837.00	6,131.19	94.22	86.89	91.70	-4,643.43	-1,466.79	3,854.91	3,679.97	174.94	22.036		
11,400.00	6,040.00	10,837.00	6,131.19	94.31	86.89	91.70	-4,643.43	-1,466.79	3,854.91	3,679.93	174.98	22.031		
11,500.00	6,040.00	10,837.00	6,131.19	95.91	86.89	91.70	-4,643.43	-1,466.79	3,856.36	3,680.79	175.57	21.965		
11,600.00	6,040.00	10,837.00	6,131.19	97.51	86.89	91.70	-4,643.43	-1,466.79	3,860.40	3,684.35	176.05	21.928		
11,700.00	6,040.00	10,837.00	6,131.19	99.11	86.89	91.70	-4,643.43	-1,466.79	3,867.02	3,690.59	176.43	21.918 SF		
11,800.00	6,040.00	10,837.00	6,131.19	100.73	86.89	91.70	-4,643.43	-1,466.79	3,876.21	3,699.50	176.71	21.936		
11,900.00	6,040.00	10,837.00	6,131.19	102.35	86.89	91.70	-4,643.43	-1,466.79	3,887.96	3,711.07	176.88	21.981		
12,000.00	6,040.00	10,837.00	6,131.19	103.97	86.89	91.70	-4,643.43	-1,466.79	3,902.23	3,725.27	176.95	22.053		
12,100.00	6,040.00	10,837.00	6,131.19	105.60	86.89	91.70	-4,643.43	-1,466.79	3,919.00	3,742.08	176.92	22.151		
12,200.00	6,040.00	10,837.00	6,131.19	107.24	86.89	91.70	-4,643.43	-1,466.79	3,938.24	3,761.44	176.79	22.276		
12,300.00	6,040.00	10,837.00	6,131.19	108.88	86.89	91.70	-4,643.43	-1,466.79	3,959.91	3,783.34	176.57	22.427		
12,400.00	6,040.00	10,837.00	6,131.19	110.53	86.89	91.70	-4,643.43	-1,466.79	3,983.97	3,807.71	176.26	22.603		
12,500.00	6,040.00	10,837.00	6,131.19	112.18	86.89	91.70	-4,643.43	-1,466.79	4,010.39	3,834.53	175.86	22.804		
12,600.00	6,040.00	10,837.00	6,131.19	113.83	86.89	91.70	-4,643.43	-1,466.79	4,039.11	3,863.73	175.38	23.031		
12,700.00	6,040.00	10,837.00	6,131.19	115.49	86.89	91.70	-4,643.43	-1,466.79	4,070.08	3,895.26	174.82	23.282		
12,800.00	6,040.00	10,837.00	6,131.19	117.16	86.89	91.70	-4,643.43	-1,466.79	4,103.26	3,929.07	174.18	23.557		
12,900.00	6,040.00	10,837.00	6,131.19	118.82	86.89	91.70	-4,643.43	-1,466.79	4,138.59	3,965.11	173.48	23.856		
13,000.00	6,040.00	10,837.00	6,131.19	120.49	86.89	91.70	-4,643.43	-1,466.79	4,176.01	4,003.30	172.72	24.178		
13,100.00	6,040.00	10,837.00	6,131.19	122.16	86.89	91.70	-4,643.43	-1,466.79	4,215.48	4,043.59	171.89	24.524		
13,200.00	6,040.00	10,837.00	6,131.19	123.84	86.89	91.70	-4,643.43	-1,466.79	4,256.93	4,085.91	171.02	24.892		
13,300.00	6,040.00	10,837.00	6,131.19	125.52	86.89	91.70	-4,643.43	-1,466.79	4,300.30	4,130.21	170.09	25.283		
13,400.00	6,040.00	10,837.00	6,131.19	127.20	86.89	91.70	-4,643.43	-1,466.79	4,345.55	4,176.43	169.12	25.695		
13,500.00	6,040.00	10,837.00	6,131.19	128.89	86.89	91.70	-4,643.43	-1,466.79	4,392.60	4,224.49	168.11	26.129		
13,600.00	6,040.00	10,837.00	6,131.19	130.58	86.89	91.70	-4,643.43	-1,466.79	4,441.41	4,274.34	167.07	26.585		
13,700.00	6,040.00	10,837.00	6,131.19	132.27	86.89	91.70	-4,643.43	-1,466.79	4,491.91	4,325.92	165.99	27.061		
13,800.00	6,040.00	10,837.00	6,131.19	133.96	86.89	91.70	-4,643.43	-1,466.79	4,544.06	4,379.16	164.89	27.557		
13,900.00	6,040.00	10,837.00	6,131.19	135.66	86.89	91.70	-4,643.43	-1,466.79	4,597.79	4,434.01	163.77	28.074		
14,000.00	6,040.00	10,837.00	6,131.19	137.35	86.89	91.70	-4,643.43	-1,466.79	4,653.04	4,490.41	162.63	28.611		
14,100.00	6,040.00	10,837.00	6,131.19	139.05	86.89	91.70	-4,643.43	-1,466.79	4,709.77	4,548.29	161.48	29.166		
14,200.00	6,040.00	10,837.00	6,131.19	140.75	86.89	91.70	-4,643.43	-1,466.79	4,767.93	4,607.61	160.31	29.741		
14,300.00	6,040.00	10,837.00	6,131.19	142.46	86.89	91.70	-4,643.43	-1,466.79	4,827.45	4,668.31	159.14	30.334		
14,400.00	6,040.00	10,837.00	6,131.19	144.17	86.89	91.70	-4,643.43	-1,466.79	4,888.30	4,730.34	157.96	30.946		
14,500.00	6,040.00	10,837.00	6,131.19	145.87	86.89	91.70	-4,643.43	-1,466.79	4,950.42	4,793.64	156.78	31.575		
14,600.00	6,040.00	10,837.00	6,131.19	147.58	86.89	91.70	-4,643.43	-1,466.79	5,013.76	4,858.16	155.60	32.222		
14,700.00	6,040.00	10,837.00	6,131.19	149.29	86.89	91.70	-4,643.43	-1,466.79	5,078.29	4,923.87	154.42	32.886		
14,800.00	6,040.00	10,837.00	6,131.19	151.01	86.89	91.70	-4,643.43	-1,466.79	5,143.95	4,990.70	153.25	33.567		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 17-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,900.00	6,040.00	10,837.00	6,131.19	152.72	86.89	91.70	-4,643.43	-1,466.79	5,210.70	5,058.62	152.08	34.264			
15,000.00	6,040.00	10,837.00	6,131.19	154.44	86.89	91.70	-4,643.43	-1,466.79	5,278.50	5,127.58	150.91	34.977			
15,100.00	6,040.00	10,837.00	6,131.19	156.16	86.89	91.70	-4,643.43	-1,466.79	5,347.31	5,197.55	149.76	35.706			
15,200.00	6,040.00	10,837.00	6,131.19	157.88	86.89	91.70	-4,643.43	-1,466.79	5,417.09	5,268.47	148.62	36.450			
15,300.00	6,040.00	10,837.00	6,131.19	159.60	86.89	91.70	-4,643.43	-1,466.79	5,487.81	5,340.32	147.49	37.209			
15,400.00	6,040.00	10,837.00	6,131.19	161.32	86.89	91.70	-4,643.43	-1,466.79	5,559.42	5,413.06	146.37	37.983			
15,500.00	6,040.00	10,837.00	6,131.19	163.04	86.89	91.70	-4,643.43	-1,466.79	5,631.91	5,486.64	145.26	38.771			
15,600.00	6,040.00	10,837.00	6,131.19	164.77	86.89	91.70	-4,643.43	-1,466.79	5,705.22	5,561.05	144.17	39.572			
15,700.00	6,040.00	10,837.00	6,131.19	166.49	86.89	91.70	-4,643.43	-1,466.79	5,779.34	5,636.24	143.10	40.388			
15,800.00	6,040.00	10,837.00	6,131.19	168.22	86.89	91.70	-4,643.43	-1,466.79	5,854.22	5,712.18	142.04	41.217			
15,900.00	6,040.00	10,837.00	6,131.19	169.95	86.89	91.70	-4,643.43	-1,466.79	5,929.85	5,788.85	140.99	42.058			
16,000.00	6,040.00	10,837.00	6,131.19	171.68	86.89	91.70	-4,643.43	-1,466.79	6,006.18	5,866.22	139.96	42.913			
16,100.00	6,040.00	10,837.00	6,131.19	173.41	86.89	91.70	-4,643.43	-1,466.79	6,083.21	5,944.26	138.95	43.779			
16,200.00	6,040.00	10,837.00	6,131.19	175.14	86.89	91.70	-4,643.43	-1,466.79	6,160.89	6,022.93	137.96	44.658			
16,300.00	6,040.00	10,837.00	6,131.19	176.88	86.89	91.70	-4,643.43	-1,466.79	6,239.21	6,102.23	136.98	45.548			
16,400.00	6,040.00	10,837.00	6,131.19	178.61	86.89	91.70	-4,643.43	-1,466.79	6,318.14	6,182.12	136.02	46.449			
16,500.00	6,040.00	10,837.00	6,131.19	180.34	86.89	91.70	-4,643.43	-1,466.79	6,397.66	6,262.58	135.08	47.362			
16,600.00	6,040.00	10,837.00	6,131.19	182.08	86.89	91.70	-4,643.43	-1,466.79	6,477.75	6,343.60	134.16	48.285			
16,700.00	6,040.00	10,837.00	6,131.19	183.82	86.89	91.70	-4,643.43	-1,466.79	6,558.39	6,425.14	133.25	49.219			
16,800.00	6,040.00	10,837.00	6,131.19	185.56	86.89	91.70	-4,643.43	-1,466.79	6,639.55	6,507.19	132.36	50.163			
16,865.66	6,040.00	10,837.00	6,131.19	186.70	86.89	91.70	-4,643.43	-1,466.79	6,693.12	6,561.33	131.79	50.788			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 120-MWD OWSG													SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES K-O-3HNB - OWB - FINAL SURVEY		Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-147.48	-174.87	-111.49	207.63							
100.00	100.00	89.32	89.32	0.13	0.14	-147.50	-175.04	-111.49	207.54	207.26	0.28	748.034	CC, ES			
200.00	199.98	188.93	188.93	0.49	0.44	138.36	-175.53	-111.55	209.28	208.35	0.93	224.879				
300.00	299.84	288.81	288.81	0.86	0.79	139.24	-175.93	-111.83	213.71	212.06	1.65	129.529				
400.00	399.45	388.41	388.41	1.23	1.15	140.71	-176.13	-112.38	220.87	218.50	2.38	92.956				
500.00	498.70	487.16	487.15	1.63	1.50	142.58	-176.39	-112.99	231.03	227.92	3.11	74.286				
600.00	597.47	585.99	585.98	2.05	1.85	144.76	-176.59	-113.74	244.32	240.47	3.85	63.421				
700.00	695.62	683.82	683.80	2.51	2.20	147.17	-176.50	-114.80	260.86	256.26	4.60	56.728				
800.00	793.06	781.17	781.14	3.00	2.54	149.65	-176.32	-116.01	280.88	275.53	5.35	52.515				
900.00	889.64	878.06	878.02	3.54	2.88	152.16	-175.67	-117.46	304.28	298.18	6.10	49.882				
1,000.00	985.27	974.24	974.19	4.13	3.22	154.65	-174.41	-119.10	331.07	324.22	6.85	48.330				
1,100.00	1,079.82	1,071.07	1,070.95	4.77	3.56	157.17	-171.95	-121.05	361.05	353.45	7.60	47.494				
1,200.00	1,173.17	1,166.66	1,166.44	5.46	3.90	159.66	-167.92	-123.28	394.12	385.77	8.35	47.206				
1,300.00	1,265.23	1,259.54	1,259.14	6.21	4.22	162.06	-162.65	-125.68	430.40	421.32	9.09	47.356				
1,400.00	1,356.75	1,349.74	1,349.06	7.00	4.55	164.46	-156.28	-128.77	468.59	458.79	9.80	47.827				
1,500.00	1,448.28	1,440.59	1,439.53	7.80	4.88	166.65	-148.99	-132.41	507.46	496.95	10.51	48.284				
1,600.00	1,539.81	1,531.74	1,530.29	8.60	5.21	168.58	-141.39	-136.13	546.82	535.59	11.23	48.714				
1,700.00	1,631.34	1,625.15	1,623.37	9.41	5.55	170.19	-134.28	-139.37	586.41	574.45	11.96	49.040				
1,800.00	1,722.86	1,722.41	1,720.22	10.23	5.91	171.74	-125.79	-142.33	625.57	612.85	12.71	49.204				
1,900.00	1,814.39	1,813.98	1,811.21	11.05	6.26	173.19	-116.02	-145.31	664.56	651.11	13.45	49.425				
2,000.00	1,905.92	1,897.34	1,893.79	11.87	6.58	174.55	-105.26	-149.01	704.16	690.02	14.14	49.810				
2,100.00	1,997.45	1,975.39	1,970.68	12.69	6.89	175.93	-93.04	-154.46	745.47	730.67	14.79	50.391				
2,200.00	2,088.97	2,051.26	2,045.43	13.52	7.20	177.13	-81.77	-160.87	788.66	773.22	15.44	51.076				
2,300.00	2,180.50	2,131.37	2,124.57	14.35	7.52	178.17	-71.78	-168.25	833.46	817.34	16.12	51.709				
2,400.00	2,272.03	2,214.87	2,207.15	15.17	7.86	179.08	-62.28	-176.22	879.04	862.22	16.82	52.252				
2,500.00	2,363.56	2,297.89	2,289.14	16.00	8.21	179.95	-52.43	-184.69	925.28	907.75	17.53	52.783				
2,600.00	2,455.08	2,387.21	2,377.17	16.83	8.58	-179.13	-40.81	-194.37	971.97	953.68	18.29	53.135				
2,700.00	2,546.61	2,477.46	2,466.18	17.66	8.96	-178.30	-29.13	-203.67	1,018.39	999.32	19.07	53.403				
2,800.00	2,638.14	2,558.01	2,545.57	18.50	9.30	-177.60	-18.52	-212.29	1,065.25	1,045.48	19.77	53.873				
2,900.00	2,729.67	2,635.60	2,621.88	19.33	9.64	-176.94	-7.81	-221.29	1,112.91	1,092.45	20.46	54.395				
3,000.00	2,821.19	2,717.52	2,702.20	20.16	10.00	-176.23	4.43	-231.73	1,161.48	1,140.29	21.19	54.824				
3,100.00	2,912.72	2,834.96	2,817.97	20.99	10.51	-175.48	19.24	-244.62	1,209.06	1,186.85	22.21	54.435				
3,200.00	3,004.25	2,931.33	2,913.31	21.83	10.92	-174.99	30.20	-253.46	1,255.37	1,232.33	23.05	54.469				
3,300.00	3,095.78	3,038.48	3,019.36	22.66	11.36	-174.48	42.78	-262.19	1,300.79	1,276.82	23.97	54.263				
3,400.00	3,187.30	3,172.09	3,151.70	23.50	11.92	-173.90	59.21	-270.16	1,344.33	1,319.23	25.10	53.563				
3,500.00	3,278.83	3,258.15	3,236.67	24.33	12.29	-173.44	72.37	-273.92	1,385.99	1,360.11	25.88	53.553				
3,600.00	3,370.36	3,330.28	3,307.42	25.16	12.60	-172.97	85.72	-278.30	1,428.77	1,402.21	26.57	53.784				
3,700.00	3,461.89	3,399.54	3,375.00	26.00	12.93	-172.47	99.87	-283.63	1,472.84	1,445.59	27.24	54.065				
3,800.00	3,553.41	3,465.91	3,439.51	26.83	13.25	-171.97	114.24	-289.73	1,518.24	1,490.34	27.90	54.425				
3,900.00	3,644.94	3,527.50	3,499.11	27.67	13.55	-171.50	128.24	-296.46	1,565.18	1,536.67	28.51	54.896				
4,000.00	3,736.47	3,597.35	3,566.41	28.51	13.91	-170.95	144.69	-305.28	1,613.62	1,584.41	29.20	55.253				
4,100.00	3,828.00	3,690.43	3,656.48	29.34	14.38	-170.32	165.10	-316.91	1,662.29	1,632.16	30.12	55.181				
4,200.00	3,919.52	3,783.53	3,746.90	30.18	14.84	-169.78	184.27	-328.02	1,710.71	1,679.68	31.04	55.117				
4,300.00	4,011.05	3,872.80	3,833.66	31.01	15.29	-169.29	202.56	-338.38	1,758.96	1,727.05	31.91	55.114				
4,400.00	4,102.58	3,963.06	3,921.56	31.85	15.73	-168.86	220.26	-348.75	1,807.26	1,774.46	32.80	55.101				
4,500.00	4,194.11	4,072.17	4,028.25	32.68	16.26	-168.43	239.94	-360.30	1,854.95	1,821.10	33.85	54.802				
4,600.00	4,285.64	4,146.51	4,101.35	33.52	16.59	-168.22	251.18	-367.84	1,902.49	1,867.94	34.55	55.071				
4,700.00	4,377.16	4,241.34	4,195.14	34.36	16.99	-168.13	261.02	-377.54	1,950.47	1,915.09	35.38	55.122				
4,800.00	4,468.69	4,375.20	4,328.54	35.19	17.46	-168.41	262.44	-387.98	1,997.00	1,960.57	36.43	54.819				
4,900.00	4,560.22	4,499.46	4,452.57	36.03	17.83	-168.82	258.86	-394.54	2,041.61	2,004.28	37.33	54.692				
5,000.00	4,651.75	4,604.75	4,557.69	36.87	18.14	-169.18	254.80	-398.70	2,085.20	2,047.11	38.09	54.739				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 120-MWD OWSG													Offset Well Error:		0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES K-O-3HNB - OWB - FINAL SURVEY															
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	4,743.27	4,699.79	4,652.64	37.70	18.43	-169.45	252.43	-402.19	2,128.47	2,089.66	38.80	54.855			
5,200.00	4,834.80	4,782.84	4,735.63	38.54	18.70	-169.63	251.97	-405.45	2,171.81	2,132.35	39.46	55.041			
5,300.00	4,926.33	4,883.67	4,836.37	39.38	19.03	-169.81	252.87	-409.61	2,215.21	2,174.96	40.24	55.047			
5,400.00	5,017.86	5,001.66	4,954.30	40.21	19.42	-170.02	253.30	-413.26	2,257.75	2,216.61	41.14	54.882			
5,500.00	5,109.38	5,092.14	5,044.76	41.05	19.72	-170.17	253.78	-415.13	2,299.35	2,257.50	41.86	54.936			
5,600.00	5,200.91	5,145.97	5,098.54	41.89	19.91	-170.24	254.83	-416.97	2,342.03	2,299.69	42.33	55.322			
5,700.00	5,292.44	5,330.97	5,283.36	42.73	20.54	-170.45	258.90	-422.91	2,385.43	2,341.73	43.70	54.592			
5,800.00	5,383.97	5,445.92	5,398.29	43.56	20.91	-170.60	260.53	-422.50	2,424.77	2,380.21	44.56	54.411			
5,900.00	5,475.51	5,524.86	5,477.22	44.40	21.17	-175.02	262.16	-422.14	2,463.94	2,418.72	45.21	54.494			
6,000.00	5,567.37	5,598.00	5,550.35	45.19	21.40	157.86	262.57	-422.09	2,502.64	2,456.85	45.79	54.650			
6,100.00	5,657.57	5,660.00	5,612.20	45.89	21.57	135.03	258.55	-422.27	2,540.06	2,493.84	46.22	54.951			
6,200.00	5,743.38	5,715.53	5,667.04	46.48	21.71	118.78	249.96	-422.35	2,575.15	2,528.61	46.54	55.333			
6,300.00	5,822.18	5,774.46	5,723.99	46.95	21.82	107.71	234.94	-422.70	2,607.46	2,560.65	46.80	55.709			
6,400.00	5,891.60	5,839.61	5,784.83	47.31	21.92	100.19	211.73	-423.06	2,635.89	2,588.84	47.05	56.023			
6,500.00	5,949.50	5,991.30	5,914.91	47.58	22.06	95.91	134.60	-418.53	2,656.18	2,608.62	47.57	55.842			
6,600.00	5,994.15	6,019.60	5,936.64	47.76	22.08	92.37	116.50	-417.83	2,672.97	2,625.30	47.68	56.065			
6,700.00	6,024.17	6,081.82	5,981.28	47.86	22.11	90.56	73.19	-417.26	2,685.49	2,637.55	47.93	56.024			
6,800.00	6,038.67	6,129.00	6,012.27	47.91	22.13	89.84	37.63	-416.97	2,692.75	2,644.54	48.21	55.857			
6,900.00	6,040.00	6,453.14	6,134.19	47.93	22.59	92.22	-258.01	-401.56	2,689.62	2,639.82	49.80	54.010			
7,000.00	6,040.00	6,530.69	6,137.69	47.98	22.90	92.30	-335.24	-395.86	2,684.85	2,634.32	50.53	53.133			
7,100.00	6,040.00	7,100.00	6,137.83	48.09	26.52	92.31	-482.09	-385.30	2,680.19	2,625.62	54.58	49.110			
7,200.00	6,040.00	6,883.41	6,138.38	48.23	25.30	92.34	-686.43	-363.95	2,672.09	2,617.46	54.63	48.914			
7,300.00	6,040.00	6,914.31	6,138.94	48.43	25.58	92.35	-717.13	-360.49	2,663.43	2,608.01	55.43	48.053			
7,400.00	6,040.00	7,400.00	6,140.62	48.67	30.14	92.39	-770.63	-356.01	2,657.30	2,596.71	60.59	43.856			
7,500.00	6,040.00	6,997.00	6,141.61	48.97	26.36	92.41	-799.53	-354.20	2,653.19	2,595.75	57.44	46.189			
7,600.00	6,040.00	7,062.42	6,143.75	49.32	27.01	92.46	-864.86	-351.36	2,651.20	2,592.32	58.88	45.026			
7,700.00	6,040.00	7,700.00	6,145.71	49.73	33.86	92.50	-941.82	-348.72	2,650.21	2,583.64	66.57	39.811			
7,800.00	6,040.00	7,334.82	6,144.79	50.19	30.06	92.49	-1,136.86	-338.12	2,646.64	2,582.19	64.45	41.067			
7,900.00	6,040.00	7,461.00	6,141.24	50.71	31.64	92.42	-1,262.70	-329.73	2,642.37	2,575.03	67.34	39.242			
8,000.00	6,040.00	7,514.85	6,139.82	51.29	32.34	92.39	-1,316.40	-326.05	2,637.83	2,568.88	68.94	38.260			
8,100.00	6,040.00	7,649.00	6,138.51	51.93	34.13	92.37	-1,450.17	-316.22	2,632.58	2,560.36	72.22	36.453			
8,200.00	6,040.00	7,690.86	6,138.86	52.63	34.70	92.37	-1,491.95	-313.55	2,628.71	2,555.03	73.68	35.677			
8,300.00	6,040.00	7,755.25	6,138.53	53.39	35.59	92.37	-1,556.28	-310.99	2,626.95	2,551.32	75.63	34.736			
8,400.00	6,040.00	7,860.05	6,137.48	54.20	37.07	92.35	-1,661.00	-307.08	2,625.55	2,547.06	78.49	33.452			
8,500.00	6,040.00	7,933.81	6,137.18	55.07	38.13	92.34	-1,734.71	-304.49	2,624.43	2,543.71	80.72	32.513			
8,600.00	6,040.00	8,022.96	6,138.21	55.99	39.43	92.36	-1,823.82	-301.93	2,623.99	2,540.66	83.34	31.487			
8,700.00	6,040.00	8,144.95	6,135.26	56.97	41.25	92.30	-1,945.70	-298.12	2,623.08	2,536.32	86.76	30.235			
8,800.00	6,040.00	8,287.02	6,137.78	57.99	43.41	92.36	-2,087.61	-291.85	2,621.02	2,530.28	90.74	28.886			
8,900.00	6,040.00	8,458.00	6,138.32	59.06	46.07	92.37	-2,258.21	-281.44	2,617.46	2,522.00	95.46	27.418			
9,000.00	6,040.00	8,527.32	6,140.54	60.17	47.17	92.43	-2,327.32	-276.66	2,612.98	2,515.14	97.84	26.708			
9,100.00	6,040.00	8,601.51	6,143.03	61.32	48.36	92.48	-2,401.32	-271.98	2,609.23	2,508.89	100.34	26.005			
9,200.00	6,040.00	8,715.91	6,145.19	62.51	50.19	92.54	-2,515.47	-264.88	2,605.43	2,501.59	103.84	25.091			
9,300.00	6,040.00	8,839.80	6,144.12	63.73	52.20	92.52	-2,639.08	-256.69	2,601.12	2,493.52	107.60	24.173			
9,400.00	6,040.00	9,400.00	6,139.77	64.98	61.41	92.43	-2,774.92	-247.67	2,597.05	2,478.39	118.66	21.887			
9,500.00	6,040.00	9,065.42	6,139.76	66.27	55.90	92.43	-2,863.95	-239.67	2,590.56	2,475.89	114.67	22.591			
9,600.00	6,040.00	9,101.95	6,139.81	67.58	56.51	92.43	-2,900.40	-237.27	2,586.26	2,469.94	116.32	22.233			
9,700.00	6,040.00	9,219.64	6,138.75	68.92	58.46	92.42	-3,017.84	-229.68	2,582.03	2,462.00	120.03	21.511			
9,800.00	6,040.00	9,254.82	6,138.70	70.29	59.04	92.42	-3,052.97	-227.90	2,579.43	2,457.81	121.62	21.208			
9,900.00	6,040.00	9,344.24	6,137.67	71.67	60.52	92.39	-3,142.34	-225.22	2,578.71	2,454.10	124.61	20.694			
9,940.70	6,040.00	9,362.00	6,137.50	72.25	60.81	92.39	-3,160.09	-224.71	2,578.52	2,453.19	125.33	20.573			
10,000.00	6,040.00	9,381.30	6,137.23	73.08	61.13	92.38	-3,179.39	-224.40	2,578.97	2,452.78	126.19	20.437			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 3-T4N-R62W - EXIST HZ STATE SEVENTY HOLES K-O-3HNB - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 120-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.00	6,040.00	9,488.00	6,136.35	74.51	62.90	92.36	-3,286.06	-222.62	2,579.59	2,449.93	129.66	19.896		
10,200.00	6,040.00	9,541.80	6,135.91	75.95	63.79	92.35	-3,339.86	-222.44	2,581.68	2,450.02	131.66	19.609		
10,300.00	6,040.00	9,625.63	6,135.26	77.41	65.17	92.33	-3,423.68	-223.64	2,585.38	2,450.90	134.49	19.224		
10,400.00	6,040.00	9,724.30	6,134.44	78.89	66.81	92.31	-3,522.33	-225.19	2,589.28	2,451.53	137.75	18.797		
10,500.00	6,040.00	10,123.57	6,135.49	80.38	73.58	92.34	-3,920.88	-206.79	2,586.46	2,437.41	149.05	17.353		
10,600.00	6,040.00	10,206.00	6,137.53	81.88	75.01	92.40	-4,002.86	-198.36	2,578.75	2,426.72	152.03	16.962		
10,700.00	6,040.00	10,285.26	6,139.33	83.40	76.38	92.44	-4,081.76	-191.05	2,572.00	2,417.07	154.93	16.601		
10,800.00	6,040.00	10,362.99	6,139.81	84.93	77.72	92.46	-4,159.21	-184.53	2,566.02	2,408.24	157.78	16.264		
10,900.00	6,040.00	10,482.93	6,137.47	86.47	79.80	92.41	-4,278.75	-175.24	2,560.65	2,398.96	161.69	15.837		
11,000.00	6,040.00	10,547.00	6,135.58	88.02	80.91	92.37	-4,342.61	-170.28	2,555.13	2,390.94	164.20	15.561		
11,100.00	6,040.00	10,610.00	6,133.96	89.58	82.00	92.34	-4,405.46	-166.35	2,551.10	2,384.46	166.65	15.309		
11,200.00	6,040.00	10,641.00	6,133.12	91.15	82.53	92.32	-4,436.42	-164.89	2,548.92	2,380.74	168.18	15.156		
11,300.00	6,040.00	10,823.96	6,134.39	92.73	85.70	92.35	-4,619.12	-155.85	2,546.21	2,372.35	173.86	14.645		
11,400.00	6,040.00	10,836.00	6,134.73	94.31	85.91	92.36	-4,631.13	-155.07	2,543.76	2,368.87	174.89	14.545		
11,412.97	6,040.00	10,836.00	6,134.73	94.52	85.91	92.36	-4,631.13	-155.07	2,543.73	2,368.77	174.97	14.538		
11,500.00	6,040.00	10,836.00	6,134.73	95.91	85.91	92.36	-4,631.13	-155.07	2,545.22	2,369.85	175.37	14.514 SF		
11,600.00	6,040.00	10,836.00	6,134.73	97.51	85.91	92.36	-4,631.13	-155.07	2,550.60	2,375.00	175.60	14.525		
11,700.00	6,040.00	10,836.00	6,134.73	99.11	85.91	92.36	-4,631.13	-155.07	2,559.87	2,384.27	175.60	14.578		
11,800.00	6,040.00	10,836.00	6,134.73	100.73	85.91	92.36	-4,631.13	-155.07	2,573.01	2,397.64	175.36	14.672		
11,900.00	6,040.00	10,836.00	6,134.73	102.35	85.91	92.36	-4,631.13	-155.07	2,589.94	2,415.03	174.91	14.808		
12,000.00	6,040.00	10,836.00	6,134.73	103.97	85.91	92.36	-4,631.13	-155.07	2,610.59	2,436.36	174.23	14.983		
12,100.00	6,040.00	10,836.00	6,134.73	105.60	85.91	92.36	-4,631.13	-155.07	2,634.88	2,461.52	173.36	15.199		
12,200.00	6,040.00	10,836.00	6,134.73	107.24	85.91	92.36	-4,631.13	-155.07	2,662.70	2,490.41	172.30	15.454		
12,300.00	6,040.00	10,836.00	6,134.73	108.88	85.91	92.36	-4,631.13	-155.07	2,693.96	2,522.88	171.07	15.748		
12,400.00	6,040.00	10,836.00	6,134.73	110.53	85.91	92.36	-4,631.13	-155.07	2,728.52	2,558.83	169.69	16.079		
12,500.00	6,040.00	10,836.00	6,134.73	112.18	85.91	92.36	-4,631.13	-155.07	2,766.26	2,598.08	168.18	16.448		
12,600.00	6,040.00	10,836.00	6,134.73	113.83	85.91	92.36	-4,631.13	-155.07	2,807.06	2,640.51	166.55	16.854		
12,700.00	6,040.00	10,836.00	6,134.73	115.49	85.91	92.36	-4,631.13	-155.07	2,850.79	2,685.97	164.82	17.296		
12,800.00	6,040.00	10,836.00	6,134.73	117.16	85.91	92.36	-4,631.13	-155.07	2,897.31	2,734.30	163.02	17.773		
12,900.00	6,040.00	10,836.00	6,134.73	118.82	85.91	92.36	-4,631.13	-155.07	2,946.49	2,785.35	161.14	18.285		
13,000.00	6,040.00	10,836.00	6,134.73	120.49	85.91	92.36	-4,631.13	-155.07	2,998.21	2,838.99	159.22	18.831		
13,100.00	6,040.00	10,836.00	6,134.73	122.16	85.91	92.36	-4,631.13	-155.07	3,052.32	2,895.06	157.26	19.410		
13,200.00	6,040.00	10,836.00	6,134.73	123.84	85.91	92.36	-4,631.13	-155.07	3,108.71	2,953.43	155.27	20.021		
13,300.00	6,040.00	10,836.00	6,134.73	125.52	85.91	92.36	-4,631.13	-155.07	3,167.25	3,013.97	153.27	20.664		
13,400.00	6,040.00	10,836.00	6,134.73	127.20	85.91	92.36	-4,631.13	-155.07	3,227.83	3,076.55	151.27	21.338		
13,500.00	6,040.00	10,836.00	6,134.73	128.89	85.91	92.36	-4,631.13	-155.07	3,290.33	3,141.05	149.28	22.042		
13,600.00	6,040.00	10,836.00	6,134.73	130.58	85.91	92.36	-4,631.13	-155.07	3,354.65	3,207.35	147.29	22.775		
13,700.00	6,040.00	10,836.00	6,134.73	132.27	85.91	92.36	-4,631.13	-155.07	3,420.68	3,275.35	145.33	23.537		
13,800.00	6,040.00	10,836.00	6,134.73	133.96	85.91	92.36	-4,631.13	-155.07	3,488.34	3,344.94	143.39	24.327		
13,900.00	6,040.00	10,836.00	6,134.73	135.66	85.91	92.36	-4,631.13	-155.07	3,557.51	3,416.03	141.48	25.144		
14,000.00	6,040.00	10,836.00	6,134.73	137.35	85.91	92.36	-4,631.13	-155.07	3,628.13	3,488.52	139.61	25.988		
14,100.00	6,040.00	10,836.00	6,134.73	139.05	85.91	92.36	-4,631.13	-155.07	3,700.09	3,562.32	137.77	26.857		
14,200.00	6,040.00	10,836.00	6,134.73	140.75	85.91	92.36	-4,631.13	-155.07	3,773.34	3,637.37	135.97	27.750		
14,300.00	6,040.00	10,836.00	6,134.73	142.46	85.91	92.36	-4,631.13	-155.07	3,847.79	3,713.58	134.22	28.669		
14,400.00	6,040.00	10,836.00	6,134.73	144.17	85.91	92.36	-4,631.13	-155.07	3,923.38	3,790.88	132.50	29.610		
14,500.00	6,040.00	10,836.00	6,134.73	145.87	85.91	92.36	-4,631.13	-155.07	4,000.04	3,869.21	130.83	30.574		
14,600.00	6,040.00	10,836.00	6,134.73	147.58	85.91	92.36	-4,631.13	-155.07	4,077.71	3,948.51	129.20	31.560		
14,700.00	6,040.00	10,836.00	6,134.73	149.29	85.91	92.36	-4,631.13	-155.07	4,156.34	4,028.72	127.62	32.568		
14,800.00	6,040.00	10,836.00	6,134.73	151.01	85.91	92.36	-4,631.13	-155.07	4,235.86	4,109.78	126.08	33.596		
14,900.00	6,040.00	10,836.00	6,134.73	152.72	85.91	92.36	-4,631.13	-155.07	4,316.24	4,191.65	124.59	34.644		
15,000.00	6,040.00	10,836.00	6,134.73	154.44	85.91	92.36	-4,631.13	-155.07	4,397.43	4,274.29	123.14	35.711		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 120-MWD OWSG												Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	10,836.00	6,134.73	156.16	85.91	92.36	-4,631.13	-155.07	4,479.37	4,357.64	121.73	36.797		
15,200.00	6,040.00	10,836.00	6,134.73	157.88	85.91	92.36	-4,631.13	-155.07	4,562.04	4,441.67	120.37	37.901		
15,300.00	6,040.00	10,836.00	6,134.73	159.60	85.91	92.36	-4,631.13	-155.07	4,645.38	4,526.34	119.04	39.023		
15,400.00	6,040.00	10,836.00	6,134.73	161.32	85.91	92.36	-4,631.13	-155.07	4,729.37	4,611.61	117.76	40.160		
15,500.00	6,040.00	10,836.00	6,134.73	163.04	85.91	92.36	-4,631.13	-155.07	4,813.98	4,697.46	116.52	41.315		
15,600.00	6,040.00	10,836.00	6,134.73	164.77	85.91	92.36	-4,631.13	-155.07	4,899.16	4,783.84	115.32	42.484		
15,700.00	6,040.00	10,836.00	6,134.73	166.49	85.91	92.36	-4,631.13	-155.07	4,984.90	4,870.74	114.15	43.669		
15,800.00	6,040.00	10,836.00	6,134.73	168.22	85.91	92.36	-4,631.13	-155.07	5,071.15	4,958.13	113.03	44.868		
15,900.00	6,040.00	10,836.00	6,134.73	169.95	85.91	92.36	-4,631.13	-155.07	5,157.91	5,045.97	111.93	46.080		
16,000.00	6,040.00	10,836.00	6,134.73	171.68	85.91	92.36	-4,631.13	-155.07	5,245.13	5,134.26	110.88	47.306		
16,100.00	6,040.00	10,836.00	6,134.73	173.41	85.91	92.36	-4,631.13	-155.07	5,332.81	5,222.95	109.85	48.545		
16,200.00	6,040.00	10,836.00	6,134.73	175.14	85.91	92.36	-4,631.13	-155.07	5,420.91	5,312.04	108.86	49.796		
16,300.00	6,040.00	10,836.00	6,134.73	176.88	85.91	92.36	-4,631.13	-155.07	5,509.41	5,401.51	107.90	51.058		
16,400.00	6,040.00	10,836.00	6,134.73	178.61	85.91	92.36	-4,631.13	-155.07	5,598.31	5,491.33	106.98	52.332		
16,500.00	6,040.00	10,836.00	6,134.73	180.34	85.91	92.36	-4,631.13	-155.07	5,687.57	5,581.49	106.08	53.617		
16,600.00	6,040.00	10,836.00	6,134.73	182.08	85.91	92.36	-4,631.13	-155.07	5,777.18	5,671.97	105.21	54.912		
16,700.00	6,040.00	10,836.00	6,134.73	183.82	85.91	92.36	-4,631.13	-155.07	5,867.13	5,762.77	104.37	56.216		
16,800.00	6,040.00	10,836.00	6,134.73	185.56	85.91	92.36	-4,631.13	-155.07	5,957.40	5,853.85	103.55	57.530		
16,865.66	6,040.00	10,836.00	6,134.73	186.70	85.91	92.36	-4,631.13	-155.07	6,016.84	5,913.81	103.03	58.398		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-44.60	44.60						
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-44.60	44.60	44.33	0.27	165.880	CC, ES		
200.00	199.98	198.47	198.45	0.49	0.49	-164.14	0.64	-46.16	47.87	46.88	0.99	48.411			
300.00	299.84	296.32	296.16	0.86	0.85	-163.60	2.54	-50.82	57.66	55.94	1.72	33.470			
400.00	399.45	392.92	392.41	1.23	1.21	-163.00	5.66	-58.45	73.91	71.46	2.45	30.115			
500.00	498.70	487.70	486.52	1.63	1.58	-162.47	9.91	-68.85	96.50	93.32	3.18	30.348			
600.00	597.47	580.12	577.88	2.05	1.97	-162.03	15.18	-81.76	125.26	121.36	3.90	32.144			
700.00	695.62	670.74	666.98	2.51	2.38	-161.66	21.40	-96.99	159.93	155.32	4.61	34.725			
800.00	793.06	762.99	757.54	3.00	2.80	-161.55	28.06	-113.29	198.51	193.18	5.33	37.268			
900.00	889.64	853.90	846.78	3.54	3.23	-161.65	34.62	-129.35	240.12	234.07	6.05	39.670			
1,000.00	985.27	943.36	934.60	4.13	3.66	-161.86	41.08	-145.15	284.75	277.98	6.77	42.060			
1,100.00	1,079.82	1,031.26	1,020.88	4.77	4.08	-162.11	47.42	-160.68	332.33	324.84	7.50	44.333			
1,200.00	1,173.17	1,117.50	1,105.54	5.46	4.49	-162.37	53.65	-175.92	382.84	374.62	8.22	46.571			
1,300.00	1,265.23	1,201.98	1,188.46	6.21	4.89	-162.67	59.74	-190.85	436.20	427.25	8.95	48.740			
1,400.00	1,356.75	1,285.76	1,270.70	7.00	5.30	-163.22	65.79	-205.65	490.68	481.03	9.66	50.812			
1,500.00	1,448.28	1,369.53	1,352.93	7.80	5.70	-163.66	71.84	-220.45	545.19	534.82	10.37	52.577			
1,600.00	1,539.81	1,453.31	1,435.17	8.60	6.10	-164.02	77.88	-235.25	599.71	588.62	11.09	54.096			
1,700.00	1,631.34	1,537.08	1,517.40	9.41	6.51	-164.32	83.93	-250.05	654.25	642.44	11.81	55.414			
1,800.00	1,722.86	1,620.86	1,599.64	10.23	6.91	-164.57	89.98	-264.85	708.79	696.26	12.53	56.568			
1,900.00	1,814.39	1,704.63	1,681.87	11.05	7.32	-164.79	96.02	-279.65	763.35	750.09	13.26	57.587			
2,000.00	1,905.92	1,788.40	1,764.11	11.87	7.72	-164.98	102.07	-294.45	817.91	803.93	13.98	58.491			
2,100.00	1,997.45	1,872.18	1,846.34	12.69	8.13	-165.15	108.11	-309.25	872.48	857.77	14.71	59.299			
2,200.00	2,088.97	1,955.95	1,928.58	13.52	8.54	-165.29	114.16	-324.06	927.05	911.61	15.44	60.024			
2,300.00	2,180.50	2,039.73	2,010.81	14.35	8.94	-165.42	120.21	-338.86	981.63	965.45	16.18	60.680			
2,400.00	2,272.03	2,123.50	2,093.05	15.17	9.35	-165.54	126.25	-353.66	1,036.21	1,019.30	16.91	61.274			
2,500.00	2,363.56	2,207.28	2,175.28	16.00	9.75	-165.64	132.30	-368.46	1,090.79	1,073.14	17.65	61.815			
2,600.00	2,455.08	2,308.95	2,257.52	16.83	10.25	-165.73	138.35	-383.26	1,145.37	1,126.92	18.45	62.068			
2,700.00	2,546.61	2,374.83	2,339.75	17.66	10.57	-165.82	144.39	-398.06	1,199.96	1,180.84	19.12	62.764			
2,800.00	2,638.14	2,458.60	2,421.99	18.50	10.97	-165.90	150.44	-412.86	1,254.55	1,234.69	19.86	63.182			
2,900.00	2,729.67	2,542.38	2,504.22	19.33	11.38	-165.97	156.49	-427.66	1,309.14	1,288.54	20.59	63.568			
3,000.00	2,821.19	2,626.15	2,586.45	20.16	11.79	-166.04	162.53	-442.46	1,363.73	1,342.39	21.33	63.925			
3,100.00	2,912.72	2,709.93	2,668.69	20.99	12.19	-166.10	168.58	-457.27	1,418.32	1,396.25	22.07	64.257			
3,200.00	3,004.25	2,793.70	2,750.92	21.83	12.60	-166.15	174.63	-472.07	1,472.91	1,450.10	22.81	64.566			
3,300.00	3,095.78	2,877.47	2,833.16	22.66	13.01	-166.20	180.67	-486.87	1,527.51	1,503.95	23.55	64.853			
3,400.00	3,187.30	2,961.25	2,915.39	23.50	13.41	-166.25	186.72	-501.67	1,582.10	1,557.81	24.29	65.122			
3,500.00	3,278.83	3,045.02	2,997.63	24.33	13.82	-166.30	192.76	-516.47	1,636.70	1,611.66	25.04	65.374			
3,600.00	3,370.36	3,128.80	3,079.86	25.16	14.23	-166.34	198.81	-531.27	1,691.29	1,665.51	25.78	65.610			
3,700.00	3,461.89	3,212.57	3,162.10	26.00	14.63	-166.38	204.86	-546.07	1,745.89	1,719.37	26.52	65.832			
3,800.00	3,553.41	3,303.65	3,244.33	26.83	15.08	-166.42	210.90	-560.87	1,800.49	1,773.19	27.29	65.970			
3,900.00	3,644.94	3,380.12	3,326.57	27.67	15.45	-166.45	216.95	-575.67	1,855.08	1,827.08	28.01	66.238			
4,000.00	3,736.47	3,463.90	3,408.80	28.51	15.85	-166.49	223.00	-590.48	1,909.68	1,880.93	28.75	66.424			
4,100.00	3,828.00	3,547.67	3,491.04	29.34	16.26	-166.52	229.04	-605.28	1,964.28	1,934.79	29.49	66.600			
4,200.00	3,919.52	3,631.45	3,573.27	30.18	16.67	-166.55	235.09	-620.08	2,018.88	1,988.64	30.24	66.766			
4,300.00	4,011.05	3,715.22	3,655.51	31.01	17.07	-166.58	241.14	-634.88	2,073.48	2,042.50	30.98	66.924			
4,400.00	4,102.58	3,799.00	3,737.74	31.85	17.48	-166.60	247.18	-649.68	2,128.08	2,096.35	31.73	67.073			
4,500.00	4,194.11	3,882.77	3,819.98	32.68	17.89	-166.63	253.23	-664.48	2,182.68	2,150.21	32.47	67.215			
4,600.00	4,285.64	3,966.55	3,902.21	33.52	18.30	-166.65	259.27	-679.28	2,237.28	2,204.06	33.22	67.350			
4,700.00	4,377.16	4,050.32	3,984.45	34.36	18.70	-166.68	265.32	-694.08	2,291.88	2,257.92	33.96	67.478			
4,800.00	4,468.69	4,134.09	4,066.68	35.19	19.11	-166.70	271.37	-708.89	2,346.48	2,311.77	34.71	67.600			
4,900.00	4,560.22	4,217.87	4,148.92	36.03	19.52	-166.72	277.41	-723.69	2,401.08	2,365.63	35.46	67.717			
5,000.00	4,651.75	4,301.64	4,231.15	36.87	19.92	-166.74	283.46	-738.49	2,455.68	2,419.48	36.20	67.828			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft		
Survey Program: 0-MWD OWSG												SEC 3-T4N-R62W - STATE SEVENTY HOLES 21-24-3HN - OWB - PROPOSAL 1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor		
5,100.00	4,743.27	4,385.42	4,313.39	37.70	20.33	-166.76	289.51	-753.29	2,510.29	2,473.33	36.95	67.934			
5,200.00	4,834.80	4,469.19	4,395.62	38.54	20.74	-166.78	295.55	-768.09	2,564.89	2,527.19	37.70	68.035			
5,300.00	4,926.33	4,552.97	4,477.85	39.38	21.15	-166.79	301.60	-782.89	2,619.49	2,581.04	38.45	68.132			
5,400.00	5,017.86	4,636.74	4,560.09	40.21	21.55	-166.81	307.65	-797.69	2,674.09	2,634.90	39.20	68.224			
5,500.00	5,109.38	4,720.52	4,642.32	41.05	21.96	-166.83	313.69	-812.49	2,728.69	2,688.75	39.94	68.313			
5,600.00	5,200.91	4,804.29	4,724.56	41.89	22.37	-166.84	319.74	-827.29	2,783.30	2,742.60	40.69	68.398			
5,700.00	5,292.44	4,888.07	4,806.79	42.73	22.77	-166.86	325.78	-842.10	2,837.90	2,796.46	41.44	68.479			
5,800.00	5,383.97	4,971.84	4,889.03	43.56	23.18	-166.87	331.83	-856.90	2,892.50	2,850.31	42.19	68.557			
5,900.00	5,475.51	5,055.62	4,971.26	44.40	23.59	-171.58	337.88	-871.70	2,947.10	2,904.16	42.94	68.633			
6,000.00	5,567.37	5,138.80	5,052.92	45.19	23.99	159.18	343.88	-886.39	3,001.30	2,957.65	43.64	68.769			
6,100.00	5,657.57	5,219.17	5,131.81	45.89	24.38	134.53	349.68	-900.59	3,053.79	3,009.53	44.26	69.003			
6,200.00	5,743.38	5,305.72	5,205.54	46.48	24.81	116.86	355.10	-913.86	3,103.41	3,058.60	44.81	69.256			
6,300.00	5,822.18	5,361.84	5,271.86	46.95	25.08	104.61	359.98	-925.80	3,149.30	3,104.13	45.17	69.728			
6,400.00	5,891.60	5,419.80	5,328.76	47.31	25.36	95.98	364.16	-936.04	3,190.77	3,145.31	45.46	70.185			
6,500.00	5,949.50	5,466.41	5,374.50	47.58	25.59	89.77	367.53	-944.28	3,227.32	3,181.65	45.67	70.674			
6,600.00	5,994.15	5,500.24	5,407.71	47.76	25.75	85.27	369.97	-950.25	3,258.53	3,212.75	45.79	71.164			
6,700.00	6,024.17	5,520.26	5,427.37	47.86	25.85	82.05	371.41	-953.79	3,284.04	3,238.19	45.85	71.627			
6,800.00	6,038.67	5,541.23	5,447.97	47.91	25.95	80.16	372.64	-957.48	3,303.44	3,257.45	45.99	71.837			
6,900.00	6,040.00	6,484.40	6,040.00	47.93	27.34	90.00	-218.93	-1,033.39	3,315.92	3,265.81	50.11	66.174			
7,000.00	6,040.00	6,584.37	6,040.00	47.98	27.49	90.00	-318.79	-1,028.57	3,313.47	3,262.49	50.98	64.995			
7,100.00	6,040.00	6,684.34	6,040.00	48.09	27.77	90.00	-418.64	-1,023.76	3,311.02	3,258.94	52.08	63.578			
7,200.00	6,040.00	6,784.31	6,040.00	48.23	28.19	90.00	-518.49	-1,018.94	3,308.57	3,255.18	53.39	61.967			
7,300.00	6,040.00	6,884.28	6,040.00	48.43	28.76	90.00	-618.35	-1,014.12	3,306.12	3,251.22	54.91	60.210			
7,400.00	6,040.00	6,984.25	6,040.00	48.67	29.47	90.00	-718.20	-1,009.30	3,303.68	3,247.06	56.61	58.356			
7,500.00	6,040.00	7,084.22	6,040.00	48.97	30.29	90.00	-818.05	-1,004.48	3,301.23	3,242.74	58.48	56.447			
7,600.00	6,040.00	7,184.19	6,040.00	49.32	31.23	90.00	-917.91	-999.66	3,298.78	3,238.27	60.51	54.517			
7,700.00	6,040.00	7,284.16	6,040.00	49.73	32.25	90.00	-1,017.76	-994.84	3,296.33	3,233.66	62.67	52.596			
7,800.00	6,040.00	7,384.13	6,040.00	50.19	33.35	90.00	-1,117.62	-990.03	3,293.89	3,228.92	64.96	50.705			
7,900.00	6,040.00	7,484.10	6,040.00	50.71	34.52	90.00	-1,217.47	-985.21	3,291.44	3,224.08	67.36	48.862			
8,000.00	6,040.00	7,584.07	6,040.00	51.29	35.74	90.00	-1,317.32	-980.39	3,288.99	3,219.13	69.86	47.078			
8,100.00	6,040.00	7,684.04	6,040.00	51.93	37.01	90.00	-1,417.18	-975.57	3,286.54	3,214.09	72.45	45.361			
8,200.00	6,040.00	7,784.01	6,040.00	52.63	38.33	90.00	-1,517.03	-970.75	3,284.09	3,208.97	75.12	43.716			
8,300.00	6,040.00	7,883.98	6,040.00	53.39	39.68	90.00	-1,616.89	-965.93	3,281.65	3,203.78	77.87	42.144			
8,400.00	6,040.00	7,983.95	6,040.00	54.20	41.07	90.00	-1,716.74	-961.11	3,279.20	3,198.52	80.68	40.646			
8,500.00	6,040.00	8,083.92	6,040.00	55.07	42.49	90.00	-1,816.59	-956.30	3,276.75	3,193.21	83.54	39.222			
8,600.00	6,040.00	8,183.89	6,040.00	55.99	43.94	90.00	-1,916.45	-951.48	3,274.30	3,187.84	86.46	37.869			
8,700.00	6,040.00	8,283.86	6,040.00	56.97	45.42	90.00	-2,016.30	-946.66	3,271.85	3,182.42	89.43	36.586			
8,800.00	6,040.00	8,383.83	6,040.00	57.99	46.91	90.00	-2,116.15	-941.84	3,269.41	3,176.97	92.44	35.368			
8,900.00	6,040.00	8,483.80	6,040.00	59.06	48.43	90.00	-2,216.01	-937.02	3,266.96	3,171.47	95.49	34.213			
9,000.00	6,040.00	8,583.77	6,040.00	60.17	49.96	90.00	-2,315.86	-932.20	3,264.51	3,165.94	98.57	33.118			
9,100.00	6,040.00	8,683.74	6,040.00	61.32	51.51	90.00	-2,415.72	-927.38	3,262.06	3,160.37	101.69	32.079			
9,200.00	6,040.00	8,783.71	6,040.00	62.51	53.08	90.00	-2,515.57	-922.56	3,259.61	3,154.78	104.84	31.093			
9,300.00	6,040.00	8,883.68	6,040.00	63.73	54.66	90.00	-2,615.42	-917.75	3,257.17	3,149.16	108.01	30.157			
9,400.00	6,040.00	8,983.65	6,040.00	64.98	56.25	90.00	-2,715.28	-912.93	3,254.72	3,143.51	111.20	29.268			
9,500.00	6,040.00	9,083.62	6,040.00	66.27	57.86	90.00	-2,815.13	-908.11	3,252.27	3,137.85	114.42	28.423			
9,600.00	6,040.00	9,183.59	6,040.00	67.58	59.47	90.00	-2,914.99	-903.29	3,249.82	3,132.16	117.66	27.620			
9,700.00	6,040.00	9,283.56	6,040.00	68.92	61.10	90.00	-3,014.84	-898.47	3,247.37	3,126.45	120.92	26.855			
9,800.00	6,040.00	9,383.53	6,040.00	70.29	62.73	90.00	-3,114.69	-893.65	3,244.93	3,120.73	124.20	26.127			
9,900.00	6,040.00	9,483.50	6,040.00	71.67	64.37	90.00	-3,214.55	-888.83	3,242.48	3,114.99	127.49	25.433			
10,000.00	6,040.00	9,583.47	6,040.00	73.08	66.02	90.00	-3,314.40	-884.02	3,240.03	3,109.23	130.80	24.772			
10,100.00	6,040.00	9,683.44	6,040.00	74.51	67.68	90.00	-3,414.25	-879.20	3,237.58	3,103.47	134.12	24.140			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.00	6,040.00	9,783.41	6,040.00	75.95	69.34	90.00	-3,514.11	-874.38	3,235.13	3,097.68	137.45	23.537			
10,300.00	6,040.00	9,883.38	6,040.00	77.41	71.01	90.00	-3,613.96	-869.56	3,232.69	3,091.89	140.80	22.960			
10,400.00	6,040.00	9,983.35	6,040.00	78.89	72.69	90.00	-3,713.82	-864.74	3,230.24	3,086.09	144.15	22.409			
10,500.00	6,040.00	10,083.32	6,040.00	80.38	74.37	90.00	-3,813.67	-859.92	3,227.79	3,080.27	147.52	21.881			
10,600.00	6,040.00	10,183.29	6,040.00	81.88	76.06	90.00	-3,913.52	-855.10	3,225.34	3,074.45	150.89	21.375			
10,700.00	6,040.00	10,283.26	6,040.00	83.40	77.75	90.00	-4,013.38	-850.29	3,222.89	3,068.62	154.28	20.890			
10,800.00	6,040.00	10,383.23	6,040.00	84.93	79.44	90.00	-4,113.23	-845.47	3,220.45	3,062.77	157.67	20.425			
10,900.00	6,040.00	10,483.20	6,040.00	86.47	81.14	90.00	-4,213.08	-840.65	3,218.00	3,056.92	161.07	19.978			
11,000.00	6,040.00	10,583.17	6,040.00	88.02	82.85	90.00	-4,312.94	-835.83	3,215.55	3,051.07	164.48	19.549			
11,100.00	6,040.00	10,683.14	6,040.00	89.58	84.55	90.00	-4,412.79	-831.01	3,213.10	3,045.20	167.90	19.137			
11,200.00	6,040.00	10,783.11	6,040.00	91.15	86.26	90.00	-4,512.65	-826.19	3,210.66	3,039.33	171.32	18.741			
11,300.00	6,040.00	10,883.08	6,040.00	92.73	87.98	90.00	-4,612.50	-821.37	3,208.21	3,033.46	174.75	18.359			
11,400.00	6,040.00	10,919.17	6,040.00	94.31	88.60	90.00	-4,648.54	-819.63	3,206.40	3,029.67	176.72	18.144			
11,414.61	6,040.00	10,919.17	6,040.00	94.55	88.60	90.00	-4,648.54	-819.63	3,206.36	3,029.48	176.88	18.127			
11,500.00	6,040.00	10,919.17	6,040.00	95.91	88.60	90.00	-4,648.54	-819.63	3,207.50	3,029.75	177.75	18.045			
11,600.00	6,040.00	10,919.17	6,040.00	97.51	88.60	90.00	-4,648.54	-819.63	3,211.72	3,033.10	178.62	17.981			
11,700.00	6,040.00	10,919.17	6,040.00	99.11	88.60	90.00	-4,648.54	-819.63	3,219.04	3,039.70	179.34	17.949 SF			
11,800.00	6,040.00	10,919.17	6,040.00	100.73	88.60	90.00	-4,648.54	-819.63	3,229.44	3,049.54	179.90	17.951			
11,900.00	6,040.00	10,919.17	6,040.00	102.35	88.60	90.00	-4,648.54	-819.63	3,242.89	3,062.58	180.31	17.985			
12,000.00	6,040.00	10,919.17	6,040.00	103.97	88.60	90.00	-4,648.54	-819.63	3,259.36	3,078.79	180.57	18.050			
12,100.00	6,040.00	10,919.17	6,040.00	105.60	88.60	90.00	-4,648.54	-819.63	3,278.80	3,098.11	180.69	18.146			
12,200.00	6,040.00	10,919.17	6,040.00	107.24	88.60	90.00	-4,648.54	-819.63	3,301.15	3,120.50	180.66	18.273			
12,300.00	6,040.00	10,919.17	6,040.00	108.88	88.60	90.00	-4,648.54	-819.63	3,326.36	3,145.87	180.49	18.430			
12,400.00	6,040.00	10,919.17	6,040.00	110.53	88.60	90.00	-4,648.54	-819.63	3,354.36	3,174.17	180.19	18.616			
12,500.00	6,040.00	10,919.17	6,040.00	112.18	88.60	90.00	-4,648.54	-819.63	3,385.09	3,205.32	179.77	18.830			
12,600.00	6,040.00	10,919.17	6,040.00	113.83	88.60	90.00	-4,648.54	-819.63	3,418.47	3,239.23	179.24	19.072			
12,700.00	6,040.00	10,919.17	6,040.00	115.49	88.60	90.00	-4,648.54	-819.63	3,454.42	3,275.82	178.60	19.342			
12,800.00	6,040.00	10,919.17	6,040.00	117.16	88.60	90.00	-4,648.54	-819.63	3,492.86	3,315.00	177.86	19.638			
12,900.00	6,040.00	10,919.17	6,040.00	118.82	88.60	90.00	-4,648.54	-819.63	3,533.72	3,356.69	177.03	19.961			
13,000.00	6,040.00	10,919.17	6,040.00	120.49	88.60	90.00	-4,648.54	-819.63	3,576.90	3,400.78	176.12	20.309			
13,100.00	6,040.00	10,919.17	6,040.00	122.16	88.60	90.00	-4,648.54	-819.63	3,622.33	3,447.19	175.14	20.683			
13,200.00	6,040.00	10,919.17	6,040.00	123.84	88.60	90.00	-4,648.54	-819.63	3,669.93	3,495.84	174.09	21.080			
13,300.00	6,040.00	10,919.17	6,040.00	125.52	88.60	90.00	-4,648.54	-819.63	3,719.60	3,546.61	172.99	21.502			
13,400.00	6,040.00	10,919.17	6,040.00	127.20	88.60	90.00	-4,648.54	-819.63	3,771.28	3,599.44	171.84	21.947			
13,500.00	6,040.00	10,919.17	6,040.00	128.89	88.60	90.00	-4,648.54	-819.63	3,824.87	3,654.22	170.65	22.414			
13,600.00	6,040.00	10,919.17	6,040.00	130.58	88.60	90.00	-4,648.54	-819.63	3,880.30	3,710.88	169.42	22.904			
13,700.00	6,040.00	10,919.17	6,040.00	132.27	88.60	90.00	-4,648.54	-819.63	3,937.48	3,769.32	168.16	23.415			
13,800.00	6,040.00	10,919.17	6,040.00	133.96	88.60	90.00	-4,648.54	-819.63	3,996.35	3,829.47	166.88	23.947			
13,900.00	6,040.00	10,919.17	6,040.00	135.66	88.60	90.00	-4,648.54	-819.63	4,056.84	3,891.25	165.59	24.500			
14,000.00	6,040.00	10,919.17	6,040.00	137.35	88.60	90.00	-4,648.54	-819.63	4,118.86	3,954.58	164.28	25.072			
14,100.00	6,040.00	10,919.17	6,040.00	139.05	88.60	90.00	-4,648.54	-819.63	4,182.35	4,019.39	162.96	25.665			
14,200.00	6,040.00	10,919.17	6,040.00	140.75	88.60	90.00	-4,648.54	-819.63	4,247.25	4,085.61	161.64	26.276			
14,300.00	6,040.00	10,919.17	6,040.00	142.46	88.60	90.00	-4,648.54	-819.63	4,313.50	4,153.17	160.32	26.905			
14,400.00	6,040.00	10,919.17	6,040.00	144.17	88.60	90.00	-4,648.54	-819.63	4,381.02	4,222.01	159.00	27.553			
14,500.00	6,040.00	10,919.17	6,040.00	145.87	88.60	90.00	-4,648.54	-819.63	4,449.76	4,292.07	157.69	28.218			
14,600.00	6,040.00	10,919.17	6,040.00	147.58	88.60	90.00	-4,648.54	-819.63	4,519.68	4,363.29	156.39	28.900			
14,700.00	6,040.00	10,919.17	6,040.00	149.29	88.60	90.00	-4,648.54	-819.63	4,590.70	4,435.60	155.10	29.599			
14,800.00	6,040.00	10,919.17	6,040.00	151.01	88.60	90.00	-4,648.54	-819.63	4,662.79	4,508.97	153.82	30.313			
14,900.00	6,040.00	10,919.17	6,040.00	152.72	88.60	90.00	-4,648.54	-819.63	4,735.90	4,583.34	152.56	31.044			
15,000.00	6,040.00	10,919.17	6,040.00	154.44	88.60	90.00	-4,648.54	-819.63	4,809.97	4,658.66	151.31	31.789			
15,100.00	6,040.00	10,919.17	6,040.00	156.16	88.60	90.00	-4,648.54	-819.63	4,884.96	4,734.89	150.08	32.550			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,200.00	6,040.00	10,919.17	6,040.00	157.88	88.60	90.00	-4,648.54	-819.63	4,960.84	4,811.98	148.87	33.324			
15,300.00	6,040.00	10,919.17	6,040.00	159.60	88.60	90.00	-4,648.54	-819.63	5,037.56	4,889.89	147.67	34.113			
15,400.00	6,040.00	10,919.17	6,040.00	161.32	88.60	90.00	-4,648.54	-819.63	5,115.09	4,968.59	146.50	34.915			
15,500.00	6,040.00	10,919.17	6,040.00	163.04	88.60	90.00	-4,648.54	-819.63	5,193.38	5,048.03	145.35	35.731			
15,600.00	6,040.00	10,919.17	6,040.00	164.77	88.60	90.00	-4,648.54	-819.63	5,272.41	5,128.19	144.22	36.559			
15,700.00	6,040.00	10,919.17	6,040.00	166.49	88.60	90.00	-4,648.54	-819.63	5,352.13	5,209.03	143.11	37.399			
15,800.00	6,040.00	10,919.17	6,040.00	168.22	88.60	90.00	-4,648.54	-819.63	5,432.53	5,290.51	142.02	38.252			
15,900.00	6,040.00	10,919.17	6,040.00	169.95	88.60	90.00	-4,648.54	-819.63	5,513.57	5,372.62	140.95	39.116			
16,000.00	6,040.00	10,919.17	6,040.00	171.68	88.60	90.00	-4,648.54	-819.63	5,595.23	5,455.32	139.91	39.992			
16,100.00	6,040.00	10,919.17	6,040.00	173.41	88.60	90.00	-4,648.54	-819.63	5,677.47	5,538.58	138.89	40.879			
16,200.00	6,040.00	10,919.17	6,040.00	175.14	88.60	90.00	-4,648.54	-819.63	5,760.27	5,622.39	137.88	41.776			
16,300.00	6,040.00	10,919.17	6,040.00	176.88	88.60	90.00	-4,648.54	-819.63	5,843.61	5,706.71	136.90	42.684			
16,400.00	6,040.00	10,919.17	6,040.00	178.61	88.60	90.00	-4,648.54	-819.63	5,927.47	5,791.52	135.95	43.602			
16,500.00	6,040.00	10,919.17	6,040.00	180.34	88.60	90.00	-4,648.54	-819.63	6,011.82	5,876.81	135.01	44.529			
16,600.00	6,040.00	10,919.17	6,040.00	182.08	88.60	90.00	-4,648.54	-819.63	6,096.64	5,962.55	134.09	45.466			
16,700.00	6,040.00	10,919.17	6,040.00	183.82	88.60	90.00	-4,648.54	-819.63	6,181.92	6,048.72	133.20	46.412			
16,800.00	6,040.00	10,919.17	6,040.00	185.56	88.60	90.00	-4,648.54	-819.63	6,267.63	6,135.31	132.32	47.367			
16,865.66	6,040.00	10,919.17	6,040.00	186.70	88.60	90.00	-4,648.54	-819.63	6,324.14	6,192.38	131.76	47.999			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-30.66	30.66						
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-30.66	30.66	30.39	0.27	114.043	CC		
200.00	199.98	200.80	200.78	0.49	0.50	-163.07	1.18	-29.34	31.04	30.05	0.99	31.477	ES		
300.00	299.84	301.56	301.39	0.86	0.87	-159.34	4.71	-25.37	32.25	30.54	1.71	18.883			
400.00	399.45	402.24	401.68	1.23	1.24	-153.77	10.60	-18.77	34.55	32.10	2.44	14.138			
500.00	498.70	502.27	501.07	1.63	1.63	-148.50	18.09	-10.35	38.75	35.55	3.20	12.101			
600.00	597.47	601.99	600.15	2.05	2.03	-146.67	25.64	-1.88	46.03	42.05	3.98	11.574			
700.00	695.62	701.46	698.97	2.51	2.42	-147.31	33.16	6.56	56.24	51.48	4.76	11.816			
800.00	793.06	800.56	797.43	3.00	2.82	-149.24	40.66	14.98	69.42	63.87	5.55	12.518			
900.00	889.64	900.83	895.39	3.54	3.22	-151.64	48.12	23.35	85.68	79.35	6.34	13.521			
1,000.00	985.27	1,002.84	992.75	4.13	3.63	-154.07	55.53	31.67	105.14	98.00	7.14	14.731			
1,100.00	1,079.82	1,105.58	1,089.38	4.77	4.04	-156.32	62.89	39.92	127.86	119.92	7.94	16.099			
1,200.00	1,173.17	1,209.18	1,185.16	5.46	4.46	-158.32	70.18	48.11	153.89	145.13	8.75	17.581			
1,300.00	1,265.23	1,286.27	1,279.99	6.21	4.77	-160.09	77.40	56.21	183.19	173.72	9.47	19.344			
1,400.00	1,356.75	1,381.32	1,374.42	7.00	5.15	-161.63	84.59	64.28	213.85	203.60	10.25	20.871			
1,500.00	1,448.28	1,476.37	1,468.85	7.80	5.54	-162.78	91.78	72.35	244.62	233.59	11.03	22.183			
1,600.00	1,539.81	1,571.42	1,563.29	8.60	5.92	-163.68	98.97	80.42	275.45	263.64	11.81	23.320			
1,700.00	1,631.34	1,666.47	1,657.72	9.41	6.30	-164.39	106.16	88.49	306.34	293.74	12.60	24.314			
1,800.00	1,722.86	1,761.52	1,752.15	10.23	6.68	-164.98	113.35	96.56	337.26	323.87	13.39	25.189			
1,900.00	1,814.39	1,856.56	1,846.58	11.05	7.07	-165.46	120.54	104.63	368.20	354.02	14.18	25.964			
2,000.00	1,905.92	1,951.61	1,941.01	11.87	7.45	-165.87	127.73	112.70	399.17	384.19	14.97	26.656			
2,100.00	1,997.45	2,046.66	2,035.45	12.69	7.83	-166.22	134.92	120.77	430.15	414.38	15.77	27.277			
2,200.00	2,088.97	2,141.71	2,129.88	13.52	8.22	-166.53	142.11	128.84	461.15	444.58	16.57	27.837			
2,300.00	2,180.50	2,236.76	2,224.31	14.35	8.60	-166.79	149.30	136.91	492.15	474.79	17.36	28.344			
2,400.00	2,272.03	2,331.81	2,318.74	15.17	8.98	-167.03	156.49	144.98	523.17	505.00	18.16	28.806			
2,500.00	2,363.56	2,426.86	2,413.17	16.00	9.37	-167.24	163.67	153.05	554.19	535.23	18.96	29.228			
2,600.00	2,455.08	2,521.90	2,507.61	16.83	9.75	-167.42	170.86	161.12	585.22	565.45	19.76	29.615			
2,700.00	2,546.61	2,616.95	2,602.04	17.66	10.13	-167.59	178.05	169.19	616.25	595.69	20.56	29.971			
2,800.00	2,638.14	2,712.00	2,696.47	18.50	10.51	-167.74	185.24	177.26	647.28	625.92	21.36	30.300			
2,900.00	2,729.67	2,807.05	2,790.90	19.33	10.90	-167.88	192.43	185.33	678.32	656.16	22.16	30.605			
3,000.00	2,821.19	2,902.10	2,885.33	20.16	11.28	-168.01	199.62	193.40	709.37	686.40	22.97	30.888			
3,100.00	2,912.72	3,002.85	2,979.77	20.99	11.69	-168.12	206.81	201.47	740.41	716.62	23.79	31.123			
3,200.00	3,004.25	3,107.81	3,074.20	21.83	12.11	-168.23	214.00	209.54	771.46	746.83	24.63	31.322			
3,300.00	3,095.78	3,187.24	3,168.63	22.66	12.43	-168.32	221.19	217.61	802.51	777.14	25.37	31.627			
3,400.00	3,187.30	3,282.29	3,263.06	23.50	12.81	-168.41	228.38	225.68	833.57	807.39	26.18	31.843			
3,500.00	3,278.83	3,377.34	3,357.49	24.33	13.20	-168.50	235.57	233.75	864.62	837.64	26.98	32.045			
3,600.00	3,370.36	3,472.39	3,451.93	25.16	13.58	-168.58	242.76	241.82	895.68	867.89	27.79	32.235			
3,700.00	3,461.89	3,567.44	3,546.36	26.00	13.96	-168.65	249.95	249.89	926.73	898.14	28.59	32.415			
3,800.00	3,553.41	3,662.49	3,640.79	26.83	14.35	-168.72	257.14	257.96	957.79	928.40	29.39	32.584			
3,900.00	3,644.94	3,757.53	3,735.22	27.67	14.73	-168.78	264.33	266.03	988.85	958.65	30.20	32.745			
4,000.00	3,736.47	3,852.58	3,829.65	28.51	15.11	-168.84	271.52	274.10	1,019.91	988.91	31.00	32.896			
4,100.00	3,828.00	3,947.63	3,924.09	29.34	15.50	-168.90	278.71	282.17	1,050.97	1,019.17	31.81	33.040			
4,200.00	3,919.52	4,042.68	4,018.52	30.18	15.88	-168.95	285.90	290.24	1,082.04	1,049.42	32.61	33.177			
4,300.00	4,011.05	4,137.73	4,112.95	31.01	16.26	-169.00	293.09	298.31	1,113.10	1,079.68	33.42	33.307			
4,400.00	4,102.58	4,232.78	4,207.38	31.85	16.65	-169.05	300.28	306.38	1,144.16	1,109.94	34.23	33.430			
4,500.00	4,194.11	4,327.83	4,301.81	32.68	17.03	-169.09	307.47	314.45	1,175.23	1,140.20	35.03	33.548			
4,600.00	4,285.64	4,422.87	4,396.25	33.52	17.41	-169.14	314.66	322.52	1,206.30	1,170.46	35.84	33.661			
4,700.00	4,377.16	4,517.92	4,490.68	34.36	17.80	-169.18	321.85	330.59	1,237.36	1,200.72	36.64	33.768			
4,800.00	4,468.69	4,612.97	4,585.11	35.19	18.18	-169.21	329.04	338.66	1,268.43	1,230.98	37.45	33.870			
4,900.00	4,560.22	4,708.02	4,679.54	36.03	18.56	-169.25	336.23	346.73	1,299.49	1,261.24	38.26	33.969			
5,000.00	4,651.75	4,803.07	4,773.98	36.87	18.95	-169.29	343.42	354.80	1,330.56	1,291.50	39.06	34.063			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft				
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft			
Reference													Semi Major Axis		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning					
5,100.00	4,743.27	4,901.88	4,868.41	37.70	19.34	-169.32	350.61	362.87	1,361.63	1,321.75	39.88	34.140						
5,200.00	4,834.80	5,006.83	4,962.84	38.54	19.77	-169.35	357.80	370.94	1,392.70	1,351.97	40.73	34.195						
5,300.00	4,926.33	5,088.21	5,057.27	39.38	20.10	-169.38	364.99	379.01	1,423.77	1,382.28	41.48	34.322						
5,400.00	5,017.86	5,183.26	5,151.70	40.21	20.48	-169.41	372.18	387.08	1,454.84	1,412.55	42.29	34.400						
5,500.00	5,109.38	5,278.31	5,246.14	41.05	20.86	-169.44	379.37	395.15	1,485.91	1,442.81	43.10	34.478						
5,600.00	5,200.91	5,373.36	5,340.57	41.89	21.24	-169.47	386.56	403.22	1,516.98	1,473.07	43.90	34.552						
5,700.00	5,292.44	5,467.66	5,434.26	42.73	21.62	-169.49	393.66	411.23	1,548.05	1,503.34	44.70	34.628						
5,800.00	5,383.97	5,550.72	5,516.91	43.56	21.92	-169.77	393.11	418.63	1,579.52	1,534.18	45.34	34.836						
5,900.00	5,475.51	5,629.75	5,594.66	44.40	22.14	-174.64	381.47	426.14	1,611.86	1,566.03	45.82	35.176						
6,000.00	5,567.37	5,705.70	5,667.14	45.19	22.32	158.21	360.28	433.66	1,644.40	1,598.20	46.20	35.593						
6,100.00	5,657.57	5,780.45	5,735.10	45.89	22.44	135.31	330.21	441.21	1,675.80	1,629.30	46.50	36.039						
6,200.00	5,743.38	5,854.56	5,798.02	46.48	22.53	119.05	291.88	448.71	1,705.02	1,658.28	46.75	36.475						
6,300.00	5,822.18	5,928.46	5,855.30	46.95	22.59	107.97	245.85	456.10	1,731.11	1,684.15	46.96	36.862						
6,400.00	5,891.60	6,002.49	5,906.24	47.31	22.62	100.41	192.69	463.27	1,753.27	1,706.09	47.18	37.162						
6,500.00	5,949.50	6,076.90	5,950.10	47.58	22.63	95.29	133.04	470.13	1,770.84	1,723.40	47.43	37.335						
6,600.00	5,994.15	6,150.00	5,985.32	47.76	22.63	92.00	69.34	476.42	1,783.32	1,735.59	47.74	37.357						
6,700.00	6,024.17	6,227.50	6,013.48	47.86	22.65	90.21	-2.54	482.48	1,790.38	1,742.22	48.16	37.175						
6,800.00	6,038.67	6,303.91	6,031.51	47.91	22.76	89.72	-76.54	487.75	1,791.84	1,743.16	48.68	36.811						
6,900.00	6,040.00	6,381.34	6,039.60	47.93	23.02	89.99	-153.36	492.27	1,788.89	1,739.58	49.31	36.281						
7,000.00	6,040.00	6,475.33	6,040.00	47.98	23.50	90.00	-247.23	496.94	1,786.28	1,736.12	50.16	35.610						
7,100.00	6,040.00	6,575.30	6,040.00	48.09	24.14	90.00	-347.07	501.87	1,783.72	1,732.44	51.28	34.783						
7,200.00	6,040.00	6,675.26	6,040.00	48.23	24.89	90.00	-446.92	506.81	1,781.15	1,728.53	52.62	33.850						
7,300.00	6,040.00	6,775.23	6,040.00	48.43	25.73	90.00	-546.76	511.74	1,778.59	1,724.43	54.16	32.839						
7,400.00	6,040.00	6,875.20	6,040.00	48.67	26.67	90.00	-646.61	516.67	1,776.03	1,720.14	55.89	31.777						
7,500.00	6,040.00	6,975.16	6,040.00	48.97	27.69	90.00	-746.46	521.61	1,773.46	1,715.67	57.79	30.689						
7,600.00	6,040.00	7,075.13	6,040.00	49.32	28.77	90.00	-846.30	526.54	1,770.90	1,711.06	59.84	29.593						
7,700.00	6,040.00	7,175.10	6,040.00	49.73	29.93	90.00	-946.15	531.47	1,768.34	1,706.31	62.03	28.507						
7,800.00	6,040.00	7,275.07	6,040.00	50.19	31.14	90.00	-1,045.99	536.41	1,765.77	1,701.43	64.35	27.442						
7,900.00	6,040.00	7,375.03	6,040.00	50.71	32.41	90.00	-1,145.84	541.34	1,763.21	1,696.44	66.77	26.407						
8,000.00	6,040.00	7,475.00	6,040.00	51.29	33.72	90.00	-1,245.68	546.28	1,760.65	1,691.35	69.29	25.408						
8,100.00	6,040.00	7,574.97	6,040.00	51.93	35.08	90.00	-1,345.53	551.21	1,758.09	1,686.18	71.91	24.449						
8,200.00	6,040.00	7,674.93	6,040.00	52.63	36.47	90.00	-1,445.37	556.14	1,755.52	1,680.92	74.60	23.532						
8,300.00	6,040.00	7,774.90	6,040.00	53.39	37.89	90.00	-1,545.22	561.08	1,752.96	1,675.59	77.37	22.658						
8,400.00	6,040.00	7,874.87	6,040.00	54.20	39.35	90.00	-1,645.06	566.01	1,750.40	1,670.20	80.19	21.827						
8,500.00	6,040.00	7,974.84	6,040.00	55.07	40.83	90.00	-1,744.91	570.94	1,747.83	1,664.75	83.08	21.038						
8,600.00	6,040.00	8,074.80	6,040.00	55.99	42.33	90.00	-1,844.75	575.88	1,745.27	1,659.25	86.02	20.290						
8,700.00	6,040.00	8,174.77	6,040.00	56.97	43.86	90.00	-1,944.60	580.81	1,742.71	1,653.71	89.00	19.581						
8,800.00	6,040.00	8,274.74	6,040.00	57.99	45.40	90.00	-2,044.44	585.74	1,740.14	1,648.12	92.03	18.909						
8,900.00	6,040.00	8,374.70	6,040.00	59.06	46.96	90.00	-2,144.29	590.68	1,737.58	1,642.49	95.09	18.273						
9,000.00	6,040.00	8,474.67	6,040.00	60.17	48.54	90.00	-2,244.14	595.61	1,735.02	1,636.83	98.19	17.670						
9,100.00	6,040.00	8,574.64	6,040.00	61.32	50.14	90.00	-2,343.98	600.54	1,732.45	1,631.14	101.32	17.099						
9,200.00	6,040.00	8,674.61	6,040.00	62.51	51.74	90.00	-2,443.83	605.48	1,729.89	1,625.42	104.48	16.558						
9,300.00	6,040.00	8,774.57	6,040.00	63.73	53.36	90.00	-2,543.67	610.41	1,727.33	1,619.67	107.66	16.044						
9,400.00	6,040.00	8,874.54	6,040.00	64.98	54.99	90.00	-2,643.52	615.34	1,724.77	1,613.90	110.87	15.557						
9,500.00	6,040.00	8,974.51	6,040.00	66.27	56.63	90.00	-2,743.36	620.28	1,722.20	1,608.11	114.10	15.094						
9,600.00	6,040.00	9,074.47	6,040.00	67.58	58.27	90.00	-2,843.21	625.21	1,719.64	1,602.29	117.35	14.654						
9,700.00	6,040.00	9,174.44	6,040.00	68.92	59.93	90.00	-2,943.05	630.14	1,717.08	1,596.46	120.62	14.236						
9,800.00	6,040.00	9,274.41	6,040.00	70.29	61.59	90.00	-3,042.90	635.08	1,714.51	1,590.61	123.90	13.838						
9,900.00	6,040.00	9,374.38	6,040.00	71.67	63.26	90.00	-3,142.74	640.01	1,711.95	1,584.75	127.20	13.459						
10,000.00	6,040.00	9,474.34	6,040.00	73.08	64.94	90.00	-3,242.59	644.94	1,709.39	1,578.87	130.52	13.097						
10,100.00	6,040.00	9,574.31	6,040.00	74.51	66.62	90.00	-3,342.43	649.88	1,706.82	1,572.98	133.84	12.752						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.00	6,040.00	9,674.28	6,040.00	75.95	68.31	90.00	-3,442.28	654.81	1,704.26	1,567.07	137.19	12.423			
10,300.00	6,040.00	9,774.24	6,040.00	77.41	70.00	90.00	-3,542.12	659.75	1,701.70	1,561.16	140.54	12.108			
10,400.00	6,040.00	9,874.21	6,040.00	78.89	71.70	90.00	-3,641.97	664.68	1,699.13	1,555.23	143.90	11.808			
10,500.00	6,040.00	9,974.18	6,040.00	80.38	73.41	90.00	-3,741.82	669.61	1,696.57	1,549.30	147.27	11.520			
10,600.00	6,040.00	10,074.15	6,040.00	81.88	75.11	90.00	-3,841.66	674.55	1,694.01	1,543.35	150.66	11.244			
10,700.00	6,040.00	10,174.11	6,040.00	83.40	76.82	90.00	-3,941.51	679.48	1,691.45	1,537.40	154.05	10.980			
10,800.00	6,040.00	10,274.08	6,040.00	84.93	78.54	90.00	-4,041.35	684.41	1,688.88	1,531.43	157.45	10.727			
10,900.00	6,040.00	10,374.05	6,040.00	86.47	80.26	90.00	-4,141.20	689.35	1,686.32	1,525.46	160.86	10.483			
11,000.00	6,040.00	10,474.01	6,040.00	88.02	81.98	90.00	-4,241.04	694.28	1,683.76	1,519.49	164.27	10.250			
11,100.00	6,040.00	10,573.98	6,040.00	89.58	83.70	90.00	-4,340.89	699.21	1,681.19	1,513.50	167.69	10.026			
11,200.00	6,040.00	10,673.95	6,040.00	91.15	85.43	90.00	-4,440.73	704.15	1,678.63	1,507.51	171.12	9.810			
11,300.00	6,040.00	10,773.92	6,040.00	92.73	87.16	90.00	-4,540.58	709.08	1,676.07	1,501.52	174.55	9.602			
11,400.00	6,040.00	10,873.88	6,040.00	94.31	88.89	90.00	-4,640.42	714.01	1,673.50	1,495.52	177.99	9.402 SF			
11,436.44	6,040.00	10,867.43	6,040.00	94.89	88.78	90.00	-4,633.97	713.69	1,673.12	1,495.54	177.58	9.422			
11,500.00	6,040.00	10,867.43	6,040.00	95.91	88.78	90.00	-4,633.97	713.69	1,674.33	1,497.22	177.11	9.454			
11,600.00	6,040.00	10,867.43	6,040.00	97.51	88.78	90.00	-4,633.97	713.69	1,681.10	1,505.18	175.92	9.556			
11,700.00	6,040.00	10,867.43	6,040.00	99.11	88.78	90.00	-4,633.97	713.69	1,693.75	1,519.55	174.21	9.723			
11,800.00	6,040.00	10,867.43	6,040.00	100.73	88.78	90.00	-4,633.97	713.69	1,712.16	1,540.15	172.01	9.954			
11,900.00	6,040.00	10,867.43	6,040.00	102.35	88.78	90.00	-4,633.97	713.69	1,736.15	1,566.76	169.39	10.249			
12,000.00	6,040.00	10,867.43	6,040.00	103.97	88.78	90.00	-4,633.97	713.69	1,765.48	1,599.07	166.41	10.609			
12,100.00	6,040.00	10,867.43	6,040.00	105.60	88.78	90.00	-4,633.97	713.69	1,799.90	1,636.76	163.14	11.033			
12,200.00	6,040.00	10,867.43	6,040.00	107.24	88.78	90.00	-4,633.97	713.69	1,839.12	1,679.48	159.64	11.520			
12,300.00	6,040.00	10,867.43	6,040.00	108.88	88.78	90.00	-4,633.97	713.69	1,882.83	1,726.85	155.98	12.071			
12,400.00	6,040.00	10,867.43	6,040.00	110.53	88.78	90.00	-4,633.97	713.69	1,930.75	1,778.52	152.23	12.683			
12,500.00	6,040.00	10,867.43	6,040.00	112.18	88.78	90.00	-4,633.97	713.69	1,982.55	1,834.12	148.43	13.357			
12,600.00	6,040.00	10,867.43	6,040.00	113.83	88.78	90.00	-4,633.97	713.69	2,037.94	1,893.32	144.62	14.091			
12,700.00	6,040.00	10,867.43	6,040.00	115.49	88.78	90.00	-4,633.97	713.69	2,096.64	1,955.78	140.86	14.884			
12,800.00	6,040.00	10,867.43	6,040.00	117.16	88.78	90.00	-4,633.97	713.69	2,158.39	2,021.21	137.17	15.735			
12,900.00	6,040.00	10,867.43	6,040.00	118.82	88.78	90.00	-4,633.97	713.69	2,222.91	2,089.34	133.57	16.642			
13,000.00	6,040.00	10,867.43	6,040.00	120.49	88.78	90.00	-4,633.97	713.69	2,289.99	2,159.90	130.09	17.603			
13,100.00	6,040.00	10,867.43	6,040.00	122.16	88.78	90.00	-4,633.97	713.69	2,359.40	2,232.67	126.73	18.618			
13,200.00	6,040.00	10,867.43	6,040.00	123.84	88.78	90.00	-4,633.97	713.69	2,430.94	2,307.44	123.50	19.683			
13,300.00	6,040.00	10,867.43	6,040.00	125.52	88.78	90.00	-4,633.97	713.69	2,504.43	2,384.02	120.42	20.798			
13,400.00	6,040.00	10,867.43	6,040.00	127.20	88.78	90.00	-4,633.97	713.69	2,579.71	2,462.24	117.47	21.960			
13,500.00	6,040.00	10,867.43	6,040.00	128.89	88.78	90.00	-4,633.97	713.69	2,656.62	2,541.95	114.67	23.168			
13,600.00	6,040.00	10,867.43	6,040.00	130.58	88.78	90.00	-4,633.97	713.69	2,735.02	2,623.02	112.00	24.419			
13,700.00	6,040.00	10,867.43	6,040.00	132.27	88.78	90.00	-4,633.97	713.69	2,814.79	2,705.32	109.47	25.712			
13,800.00	6,040.00	10,867.43	6,040.00	133.96	88.78	90.00	-4,633.97	713.69	2,895.82	2,788.74	107.08	27.044			
13,900.00	6,040.00	10,867.43	6,040.00	135.66	88.78	90.00	-4,633.97	713.69	2,978.00	2,873.19	104.81	28.414			
14,000.00	6,040.00	10,867.43	6,040.00	137.35	88.78	90.00	-4,633.97	713.69	3,061.24	2,958.58	102.66	29.819			
14,100.00	6,040.00	10,867.43	6,040.00	139.05	88.78	90.00	-4,633.97	713.69	3,145.46	3,044.82	100.63	31.257			
14,200.00	6,040.00	10,867.43	6,040.00	140.75	88.78	90.00	-4,633.97	713.69	3,230.57	3,131.86	98.71	32.727			
14,300.00	6,040.00	10,867.43	6,040.00	142.46	88.78	90.00	-4,633.97	713.69	3,316.52	3,219.62	96.90	34.226			
14,400.00	6,040.00	10,867.43	6,040.00	144.17	88.78	90.00	-4,633.97	713.69	3,403.24	3,308.05	95.19	35.752			
14,500.00	6,040.00	10,867.43	6,040.00	145.87	88.78	90.00	-4,633.97	713.69	3,490.66	3,397.09	93.57	37.305			
14,600.00	6,040.00	10,867.43	6,040.00	147.58	88.78	90.00	-4,633.97	713.69	3,578.75	3,486.70	92.05	38.880			
14,700.00	6,040.00	10,867.43	6,040.00	149.29	88.78	90.00	-4,633.97	713.69	3,667.45	3,576.84	90.60	40.478			
14,800.00	6,040.00	10,867.43	6,040.00	151.01	88.78	90.00	-4,633.97	713.69	3,756.71	3,667.47	89.24	42.096			
14,900.00	6,040.00	10,867.43	6,040.00	152.72	88.78	90.00	-4,633.97	713.69	3,846.50	3,758.55	87.96	43.733			
15,000.00	6,040.00	10,867.43	6,040.00	154.44	88.78	90.00	-4,633.97	713.69	3,936.79	3,850.05	86.74	45.386			
15,100.00	6,040.00	10,867.43	6,040.00	156.16	88.78	90.00	-4,633.97	713.69	4,027.53	3,941.94	85.59	47.055			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,200.00	6,040.00	10,867.43	6,040.00	157.88	88.78	90.00	-4,633.97	713.69	4,118.70	4,034.20	84.51	48.737	
15,300.00	6,040.00	10,867.43	6,040.00	159.60	88.78	90.00	-4,633.97	713.69	4,210.28	4,126.79	83.48	50.432	
15,400.00	6,040.00	10,867.43	6,040.00	161.32	88.78	90.00	-4,633.97	713.69	4,302.23	4,219.71	82.52	52.139	
15,500.00	6,040.00	10,867.43	6,040.00	163.04	88.78	90.00	-4,633.97	713.69	4,394.53	4,312.93	81.60	53.855	
15,600.00	6,040.00	10,867.43	6,040.00	164.77	88.78	90.00	-4,633.97	713.69	4,487.16	4,406.42	80.73	55.579	
15,700.00	6,040.00	10,867.43	6,040.00	166.49	88.78	90.00	-4,633.97	713.69	4,580.10	4,500.18	79.92	57.311	
15,800.00	6,040.00	10,867.43	6,040.00	168.22	88.78	90.00	-4,633.97	713.69	4,673.33	4,594.19	79.14	59.049	
15,900.00	6,040.00	10,867.43	6,040.00	169.95	88.78	90.00	-4,633.97	713.69	4,766.83	4,688.42	78.41	60.793	
16,000.00	6,040.00	10,867.43	6,040.00	171.68	88.78	90.00	-4,633.97	713.69	4,860.60	4,782.88	77.72	62.541	
16,100.00	6,040.00	10,867.43	6,040.00	173.41	88.78	90.00	-4,633.97	713.69	4,954.61	4,877.54	77.06	64.292	
16,200.00	6,040.00	10,867.43	6,040.00	175.14	88.78	90.00	-4,633.97	713.69	5,048.85	4,972.40	76.44	66.046	
16,300.00	6,040.00	10,867.43	6,040.00	176.88	88.78	90.00	-4,633.97	713.69	5,143.30	5,067.44	75.86	67.802	
16,400.00	6,040.00	10,867.43	6,040.00	178.61	88.78	90.00	-4,633.97	713.69	5,237.96	5,162.66	75.30	69.558	
16,500.00	6,040.00	10,867.43	6,040.00	180.34	88.78	90.00	-4,633.97	713.69	5,332.82	5,258.04	74.78	71.315	
16,600.00	6,040.00	10,867.43	6,040.00	182.08	88.78	90.00	-4,633.97	713.69	5,427.86	5,353.58	74.28	73.072	
16,700.00	6,040.00	10,867.43	6,040.00	183.82	88.78	90.00	-4,633.97	713.69	5,523.08	5,449.27	73.81	74.827	
16,800.00	6,040.00	10,867.43	6,040.00	185.56	88.78	90.00	-4,633.97	713.69	5,618.46	5,545.10	73.37	76.581	
16,865.66	6,040.00	10,867.43	6,040.00	186.70	88.78	90.00	-4,633.97	713.69	5,681.18	5,608.09	73.09	77.732	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-13.94	13.94					
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-13.94	13.94	13.67	0.27	51.838	CC	
200.00	199.98	200.46	200.44	0.49	0.49	-164.03	0.56	-12.27	13.95	12.97	0.98	14.170		
300.00	299.84	300.93	300.76	0.86	0.86	-163.02	2.22	-7.25	14.01	12.30	1.70	8.228		
400.00	399.45	401.39	400.83	1.23	1.24	-161.35	4.99	1.10	14.11	11.68	2.43	5.815		
500.00	498.70	501.84	500.53	1.63	1.64	-159.05	8.87	12.77	14.26	11.10	3.16	4.514		
600.00	597.47	602.30	599.73	2.05	2.06	-156.19	13.84	27.75	14.50	10.59	3.91	3.706		
700.00	695.62	702.75	698.31	2.51	2.52	-152.83	19.91	46.02	14.83	10.14	4.70	3.158		
800.00	793.06	803.19	796.15	3.00	3.02	-149.08	27.06	67.56	15.29	9.76	5.53	2.763	ES	
900.00	889.64	903.29	893.06	3.54	3.55	-147.11	34.96	91.35	16.68	10.27	6.42	2.600	SF	
1,000.00	985.27	1,003.18	989.74	4.13	4.09	-150.66	42.88	115.19	20.97	13.73	7.23	2.898		
1,100.00	1,079.82	1,102.87	1,086.23	4.77	4.63	-156.16	50.78	138.98	28.45	20.46	8.00	3.558		
1,200.00	1,173.17	1,202.22	1,182.39	5.46	5.18	-161.10	58.65	162.69	39.37	30.62	8.75	4.498		
1,300.00	1,265.23	1,301.13	1,278.11	6.21	5.73	-164.89	66.49	186.30	53.76	44.24	9.52	5.645		
1,400.00	1,356.75	1,400.16	1,373.65	7.00	6.28	-167.37	74.31	209.86	69.59	59.28	10.31	6.747		
1,500.00	1,448.28	1,501.46	1,469.18	7.80	6.84	-168.93	82.13	233.42	85.50	74.37	11.13	7.681		
1,600.00	1,539.81	1,602.76	1,564.71	8.60	7.41	-170.00	89.95	256.97	101.45	89.49	11.96	8.483		
1,700.00	1,631.34	1,704.05	1,660.25	9.41	7.98	-170.78	97.78	280.53	117.42	104.63	12.79	9.179		
1,800.00	1,722.86	1,805.35	1,755.78	10.23	8.55	-171.37	105.60	304.09	133.41	119.78	13.63	9.787		
1,900.00	1,814.39	1,906.64	1,851.31	11.05	9.11	-171.83	113.42	327.65	149.42	134.94	14.47	10.323		
2,000.00	1,905.92	2,007.94	1,946.84	11.87	9.68	-172.21	121.24	351.20	165.43	150.11	15.32	10.799		
2,100.00	1,997.45	2,109.23	2,042.38	12.69	10.25	-172.52	129.06	374.76	181.44	165.27	16.17	11.223		
2,200.00	2,088.97	2,189.47	2,137.91	13.52	10.71	-172.78	136.89	398.32	197.46	180.53	16.93	11.663		
2,300.00	2,180.50	2,288.18	2,233.44	14.35	11.26	-173.00	144.71	421.88	213.48	195.71	17.77	12.014		
2,400.00	2,272.03	2,386.88	2,328.97	15.17	11.82	-173.19	152.53	445.43	229.51	210.90	18.61	12.332		
2,500.00	2,363.56	2,485.59	2,424.51	16.00	12.38	-173.35	160.35	468.99	245.54	226.08	19.45	12.622		
2,600.00	2,455.08	2,584.29	2,520.04	16.83	12.93	-173.49	168.18	492.55	261.57	241.27	20.30	12.888		
2,700.00	2,546.61	2,683.00	2,615.57	17.66	13.49	-173.62	176.00	516.11	277.60	256.46	21.14	13.132		
2,800.00	2,638.14	2,781.70	2,711.11	18.50	14.05	-173.74	183.82	539.67	293.63	271.65	21.98	13.357		
2,900.00	2,729.67	2,880.41	2,806.64	19.33	14.60	-173.84	191.64	563.22	309.66	286.84	22.83	13.565		
3,000.00	2,821.19	2,979.11	2,902.17	20.16	15.16	-173.93	199.46	586.78	325.70	302.02	23.67	13.757		
3,100.00	2,912.72	3,077.82	2,997.70	20.99	15.72	-174.01	207.29	610.34	341.73	317.21	24.52	13.937		
3,200.00	3,004.25	3,176.52	3,093.24	21.83	16.28	-174.09	215.11	633.90	357.77	332.40	25.37	14.104		
3,300.00	3,095.78	3,275.23	3,188.77	22.66	16.84	-174.16	222.93	657.45	373.81	347.59	26.21	14.260		
3,400.00	3,187.30	3,373.93	3,284.30	23.50	17.39	-174.22	230.75	681.01	389.84	362.78	27.06	14.406		
3,500.00	3,278.83	3,472.64	3,379.83	24.33	17.95	-174.28	238.58	704.57	405.88	377.97	27.91	14.544		
3,600.00	3,370.36	3,571.34	3,475.37	25.16	18.51	-174.33	246.40	728.13	421.92	393.16	28.76	14.673		
3,700.00	3,461.89	3,670.05	3,570.90	26.00	19.07	-174.39	254.22	751.68	437.95	408.35	29.60	14.794		
3,800.00	3,553.41	3,768.75	3,666.43	26.83	19.63	-174.43	262.04	775.24	453.99	423.54	30.45	14.909		
3,900.00	3,644.94	3,867.46	3,761.97	27.67	20.18	-174.48	269.86	798.80	470.03	438.73	31.30	15.017		
4,000.00	3,736.47	3,966.16	3,857.50	28.51	20.74	-174.52	277.69	822.36	486.07	453.92	32.15	15.120		
4,100.00	3,828.00	4,064.87	3,953.03	29.34	21.30	-174.55	285.51	845.92	502.11	469.11	33.00	15.217		
4,200.00	3,919.52	4,163.57	4,048.56	30.18	21.86	-174.59	293.33	869.47	518.15	484.30	33.85	15.309		
4,300.00	4,011.05	4,262.28	4,144.10	31.01	22.42	-174.62	301.15	893.03	534.19	499.49	34.69	15.397		
4,400.00	4,102.58	4,360.98	4,239.63	31.85	22.98	-174.65	308.98	916.59	550.23	514.68	35.54	15.481		
4,500.00	4,194.11	4,459.69	4,335.16	32.68	23.54	-174.68	316.80	940.15	566.26	529.87	36.39	15.560		
4,600.00	4,285.64	4,558.39	4,430.69	33.52	24.09	-174.71	324.62	963.70	582.30	545.06	37.24	15.636		
4,700.00	4,377.16	4,657.10	4,526.23	34.36	24.65	-174.74	332.44	987.26	598.34	560.25	38.09	15.708		
4,800.00	4,468.69	4,755.80	4,621.76	35.19	25.21	-174.76	340.26	1,010.82	614.38	575.44	38.94	15.777		
4,900.00	4,560.22	4,854.51	4,717.29	36.03	25.77	-174.79	348.09	1,034.38	630.42	590.63	39.79	15.844		
5,000.00	4,651.75	4,953.21	4,812.83	36.87	26.33	-174.81	355.91	1,057.93	646.46	605.82	40.64	15.907		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,743.27	5,051.92	4,908.36	37.70	26.89	-174.83	363.73	1,081.49	662.50	621.01	41.49	15.968			
5,200.00	4,834.80	5,150.62	5,003.89	38.54	27.45	-174.85	371.55	1,105.05	678.54	636.20	42.34	16.026			
5,300.00	4,926.33	5,249.33	5,099.42	39.38	28.00	-174.87	379.38	1,128.61	694.59	651.40	43.19	16.082			
5,400.00	5,017.86	5,348.03	5,194.96	40.21	28.56	-174.89	387.20	1,152.17	710.63	666.59	44.04	16.136			
5,500.00	5,109.38	5,446.74	5,290.49	41.05	29.12	-174.91	395.02	1,175.72	726.67	681.78	44.89	16.187			
5,600.00	5,200.91	5,545.44	5,386.02	41.89	29.68	-174.93	402.84	1,199.28	742.71	696.97	45.74	16.237			
5,700.00	5,292.44	5,638.61	5,476.24	42.73	30.20	-175.01	409.38	1,221.57	758.88	712.34	46.54	16.306			
5,800.00	5,383.97	5,720.63	5,565.61	43.56	30.63	-175.78	405.58	1,241.60	776.69	729.53	47.16	16.470			
5,900.00	5,475.51	5,797.78	5,628.97	44.40	30.98	178.77	391.39	1,260.60	796.99	749.33	47.66	16.723			
6,000.00	5,567.37	5,871.45	5,696.58	45.19	31.26	152.17	368.47	1,278.55	818.20	770.11	48.09	17.013			
6,100.00	5,657.57	5,943.57	5,759.38	45.89	31.50	129.95	337.53	1,295.66	838.46	790.00	48.46	17.301			
6,200.00	5,743.38	6,014.57	5,816.96	46.48	31.70	114.43	299.33	1,311.79	856.91	808.15	48.75	17.577			
6,300.00	5,822.18	6,084.81	5,868.91	46.95	31.86	104.11	254.56	1,326.80	872.81	823.84	48.97	17.824			
6,400.00	5,891.60	6,154.60	5,914.80	47.31	32.00	97.30	203.88	1,340.57	885.59	836.45	49.14	18.022			
6,500.00	5,949.50	6,224.19	5,954.21	47.58	32.11	92.91	147.93	1,352.94	894.85	845.53	49.32	18.145			
6,600.00	5,994.15	6,293.80	5,986.70	47.76	32.22	90.30	87.37	1,363.80	900.31	850.77	49.54	18.174			
6,700.00	6,024.17	6,363.66	6,011.85	47.86	32.31	89.14	22.91	1,372.99	901.84	851.95	49.88	18.079			
6,800.00	6,038.67	6,433.96	6,029.26	47.91	32.41	89.24	-44.76	1,380.39	899.47	849.15	50.32	17.877			
6,900.00	6,040.00	6,505.20	6,038.54	47.93	32.52	89.91	-115.13	1,385.88	894.55	843.65	50.90	17.576			
7,000.00	6,040.00	6,589.34	6,040.00	47.98	32.67	90.00	-199.14	1,390.02	891.92	840.35	51.57	17.296			
7,100.00	6,040.00	6,689.32	6,040.00	48.09	32.91	90.00	-299.01	1,394.51	889.80	837.20	52.61	16.914			
7,200.00	6,040.00	6,789.29	6,040.00	48.23	33.25	90.00	-398.89	1,399.00	887.68	833.82	53.86	16.481			
7,300.00	6,040.00	6,889.27	6,040.00	48.43	33.68	90.00	-498.76	1,403.49	885.57	830.25	55.32	16.008			
7,400.00	6,040.00	6,989.25	6,040.00	48.67	34.21	90.00	-598.64	1,407.98	883.45	826.48	56.96	15.509			
7,500.00	6,040.00	7,089.23	6,040.00	48.97	34.82	90.00	-698.52	1,412.47	881.33	822.54	58.78	14.993			
7,600.00	6,040.00	7,189.20	6,040.00	49.32	35.53	90.00	-798.39	1,416.96	879.21	818.45	60.76	14.471			
7,700.00	6,040.00	7,289.18	6,040.00	49.73	36.33	90.00	-898.27	1,421.45	877.09	814.22	62.87	13.951			
7,800.00	6,040.00	7,389.16	6,040.00	50.19	37.21	90.00	-998.15	1,425.94	874.97	809.86	65.11	13.438			
7,900.00	6,040.00	7,489.14	6,040.00	50.71	38.16	90.00	-1,098.02	1,430.44	872.85	805.38	67.47	12.937			
8,000.00	6,040.00	7,589.11	6,040.00	51.29	39.19	90.00	-1,197.90	1,434.93	870.73	800.80	69.93	12.452			
8,100.00	6,040.00	7,689.09	6,040.00	51.93	40.27	90.00	-1,297.78	1,439.42	868.61	796.13	72.48	11.984			
8,200.00	6,040.00	7,789.07	6,040.00	52.63	41.42	90.00	-1,397.65	1,443.91	866.49	791.37	75.12	11.535			
8,300.00	6,040.00	7,889.05	6,040.00	53.39	42.61	90.00	-1,497.53	1,448.40	864.37	786.54	77.83	11.106			
8,400.00	6,040.00	7,989.03	6,040.00	54.20	43.85	90.00	-1,597.41	1,452.89	862.25	781.65	80.61	10.697			
8,500.00	6,040.00	8,089.00	6,040.00	55.07	45.13	90.00	-1,697.28	1,457.38	860.14	776.69	83.45	10.308			
8,600.00	6,040.00	8,188.98	6,040.00	55.99	46.45	90.00	-1,797.16	1,461.87	858.02	771.68	86.34	9.938			
8,700.00	6,040.00	8,288.96	6,040.00	56.97	47.81	90.00	-1,897.04	1,466.36	855.90	766.61	89.28	9.586			
8,800.00	6,040.00	8,388.94	6,040.00	57.99	49.19	90.00	-1,996.91	1,470.85	853.78	761.51	92.27	9.253			
8,900.00	6,040.00	8,488.91	6,040.00	59.06	50.60	90.00	-2,096.79	1,475.34	851.66	756.36	95.30	8.937			
9,000.00	6,040.00	8,588.89	6,040.00	60.17	52.04	90.00	-2,196.67	1,479.83	849.54	751.18	98.36	8.637			
9,100.00	6,040.00	8,688.87	6,040.00	61.32	53.50	90.00	-2,296.54	1,484.32	847.42	745.96	101.46	8.352			
9,200.00	6,040.00	8,788.85	6,040.00	62.51	54.98	90.00	-2,396.42	1,488.81	845.30	740.71	104.59	8.082			
9,300.00	6,040.00	8,888.82	6,040.00	63.73	56.47	90.00	-2,496.30	1,493.30	843.18	735.44	107.74	7.826			
9,400.00	6,040.00	8,988.80	6,040.00	64.98	57.99	90.00	-2,596.17	1,497.79	841.06	730.14	110.92	7.582			
9,500.00	6,040.00	9,088.78	6,040.00	66.27	59.52	90.00	-2,696.05	1,502.28	838.94	724.82	114.13	7.351			
9,600.00	6,040.00	9,188.76	6,040.00	67.58	61.07	90.00	-2,795.93	1,506.77	836.82	719.47	117.35	7.131			
9,700.00	6,040.00	9,288.73	6,040.00	68.92	62.63	90.00	-2,895.80	1,511.27	834.71	714.11	120.60	6.921			
9,800.00	6,040.00	9,388.71	6,040.00	70.29	64.20	90.00	-2,995.68	1,515.76	832.59	708.72	123.86	6.722			
9,900.00	6,040.00	9,488.69	6,040.00	71.67	65.79	90.00	-3,095.56	1,520.25	830.47	703.32	127.14	6.532			
10,000.00	6,040.00	9,588.67	6,040.00	73.08	67.38	90.00	-3,195.43	1,524.74	828.35	697.91	130.44	6.351			
10,100.00	6,040.00	9,688.64	6,040.00	74.51	68.99	90.00	-3,295.31	1,529.23	826.23	692.48	133.75	6.178			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.00	6,040.00	9,788.62	6,040.00	75.95	70.60	90.00	-3,395.19	1,533.72	824.11	687.04	137.07	6.012			
10,300.00	6,040.00	9,888.60	6,040.00	77.41	72.22	90.00	-3,495.06	1,538.21	821.99	681.58	140.41	5.854			
10,400.00	6,040.00	9,988.58	6,040.00	78.89	73.85	90.00	-3,594.94	1,542.70	819.87	676.12	143.75	5.703			
10,500.00	6,040.00	10,088.55	6,040.00	80.38	75.49	90.00	-3,694.82	1,547.19	817.75	670.64	147.11	5.559			
10,600.00	6,040.00	10,188.53	6,040.00	81.88	77.14	90.00	-3,794.69	1,551.68	815.63	665.16	150.48	5.420			
10,700.00	6,040.00	10,288.51	6,040.00	83.40	78.79	90.00	-3,894.57	1,556.17	813.51	659.66	153.85	5.288			
10,800.00	6,040.00	10,388.49	6,040.00	84.93	80.45	90.00	-3,994.45	1,560.66	811.39	654.15	157.24	5.160			
10,900.00	6,040.00	10,488.46	6,040.00	86.47	82.11	90.00	-4,094.32	1,565.15	809.28	648.64	160.63	5.038			
11,000.00	6,040.00	10,588.44	6,040.00	88.02	83.78	90.00	-4,194.20	1,569.64	807.16	643.12	164.03	4.921			
11,100.00	6,040.00	10,688.42	6,040.00	89.58	85.45	90.00	-4,294.08	1,574.13	805.04	637.59	167.44	4.808			
11,200.00	6,040.00	10,788.40	6,040.00	91.15	87.13	90.00	-4,393.95	1,578.62	802.92	632.06	170.86	4.699			
11,300.00	6,040.00	10,888.37	6,040.00	92.73	88.81	90.00	-4,493.83	1,583.11	800.80	626.52	174.28	4.595			
11,400.00	6,040.00	10,988.35	6,040.00	94.31	90.50	90.00	-4,593.71	1,587.60	798.68	620.97	177.71	4.494			
11,449.89	6,040.00	11,021.32	6,040.00	95.11	91.06	90.00	-4,626.65	1,589.09	797.80	619.68	178.12	4.479			
11,500.00	6,040.00	11,021.32	6,040.00	95.91	91.06	90.00	-4,626.65	1,589.09	799.37	623.80	175.58	4.553			
11,600.00	6,040.00	11,021.32	6,040.00	97.51	91.06	90.00	-4,626.65	1,589.09	811.80	642.92	168.88	4.807			
11,700.00	6,040.00	11,021.32	6,040.00	99.11	91.06	90.00	-4,626.65	1,589.09	836.09	675.60	160.49	5.210			
11,800.00	6,040.00	11,021.32	6,040.00	100.73	91.06	90.00	-4,626.65	1,589.09	871.24	720.16	151.08	5.767			
11,900.00	6,040.00	11,021.32	6,040.00	102.35	91.06	90.00	-4,626.65	1,589.09	916.02	774.69	141.32	6.482			
12,000.00	6,040.00	11,021.32	6,040.00	103.97	91.06	90.00	-4,626.65	1,589.09	969.08	837.32	131.76	7.355			
12,100.00	6,040.00	11,021.32	6,040.00	105.60	91.06	90.00	-4,626.65	1,589.09	1,029.14	906.39	122.75	8.384			
12,200.00	6,040.00	11,021.32	6,040.00	107.24	91.06	90.00	-4,626.65	1,589.09	1,095.06	980.54	114.51	9.563			
12,300.00	6,040.00	11,021.32	6,040.00	108.88	91.06	90.00	-4,626.65	1,589.09	1,165.84	1,058.69	107.14	10.881			
12,400.00	6,040.00	11,021.32	6,040.00	110.53	91.06	90.00	-4,626.65	1,589.09	1,240.64	1,139.99	100.65	12.326			
12,500.00	6,040.00	11,021.32	6,040.00	112.18	91.06	90.00	-4,626.65	1,589.09	1,318.79	1,223.80	94.99	13.884			
12,600.00	6,040.00	11,021.32	6,040.00	113.83	91.06	90.00	-4,626.65	1,589.09	1,399.73	1,309.63	90.10	15.535			
12,700.00	6,040.00	11,021.32	6,040.00	115.49	91.06	90.00	-4,626.65	1,589.09	1,482.99	1,397.09	85.90	17.263			
12,800.00	6,040.00	11,021.32	6,040.00	117.16	91.06	90.00	-4,626.65	1,589.09	1,568.21	1,485.89	82.32	19.050			
12,900.00	6,040.00	11,021.32	6,040.00	118.82	91.06	90.00	-4,626.65	1,589.09	1,655.08	1,575.81	79.27	20.878			
13,000.00	6,040.00	11,021.32	6,040.00	120.49	91.06	90.00	-4,626.65	1,589.09	1,743.37	1,666.67	76.69	22.731			
13,100.00	6,040.00	11,021.32	6,040.00	122.16	91.06	90.00	-4,626.65	1,589.09	1,832.85	1,758.33	74.52	24.596			
13,200.00	6,040.00	11,021.32	6,040.00	123.84	91.06	90.00	-4,626.65	1,589.09	1,923.37	1,850.69	72.69	26.461			
13,300.00	6,040.00	11,021.32	6,040.00	125.52	91.06	90.00	-4,626.65	1,589.09	2,014.79	1,943.64	71.15	28.316			
13,400.00	6,040.00	11,021.32	6,040.00	127.20	91.06	90.00	-4,626.65	1,589.09	2,106.99	2,037.12	69.87	30.154			
13,500.00	6,040.00	11,021.32	6,040.00	128.89	91.06	90.00	-4,626.65	1,589.09	2,199.87	2,131.06	68.81	31.970			
13,600.00	6,040.00	11,021.32	6,040.00	130.58	91.06	90.00	-4,626.65	1,589.09	2,293.35	2,225.42	67.93	33.760			
13,700.00	6,040.00	11,021.32	6,040.00	132.27	91.06	90.00	-4,626.65	1,589.09	2,387.36	2,320.15	67.21	35.521			
13,800.00	6,040.00	11,021.32	6,040.00	133.96	91.06	90.00	-4,626.65	1,589.09	2,481.83	2,415.21	66.62	37.253			
13,900.00	6,040.00	11,021.32	6,040.00	135.66	91.06	90.00	-4,626.65	1,589.09	2,576.73	2,510.58	66.15	38.955			
14,000.00	6,040.00	11,021.32	6,040.00	137.35	91.06	90.00	-4,626.65	1,589.09	2,671.99	2,606.22	65.77	40.628			
14,100.00	6,040.00	11,021.32	6,040.00	139.05	91.06	90.00	-4,626.65	1,589.09	2,767.59	2,702.12	65.47	42.272			
14,200.00	6,040.00	11,021.32	6,040.00	140.75	91.06	90.00	-4,626.65	1,589.09	2,863.49	2,798.25	65.24	43.889			
14,300.00	6,040.00	11,021.32	6,040.00	142.46	91.06	90.00	-4,626.65	1,589.09	2,959.66	2,894.59	65.08	45.480			
14,400.00	6,040.00	11,021.32	6,040.00	144.17	91.06	90.00	-4,626.65	1,589.09	3,056.08	2,991.12	64.96	47.046			
14,500.00	6,040.00	11,021.32	6,040.00	145.87	91.06	90.00	-4,626.65	1,589.09	3,152.72	3,087.84	64.88	48.590			
14,600.00	6,040.00	11,021.32	6,040.00	147.58	91.06	90.00	-4,626.65	1,589.09	3,249.56	3,184.72	64.85	50.112			
14,700.00	6,040.00	11,021.32	6,040.00	149.29	91.06	90.00	-4,626.65	1,589.09	3,346.59	3,281.75	64.84	51.613			
14,800.00	6,040.00	11,021.32	6,040.00	151.01	91.06	90.00	-4,626.65	1,589.09	3,443.79	3,378.93	64.86	53.097			
14,900.00	6,040.00	11,021.32	6,040.00	152.72	91.06	90.00	-4,626.65	1,589.09	3,541.15	3,476.25	64.90	54.563			
15,000.00	6,040.00	11,021.32	6,040.00	154.44	91.06	90.00	-4,626.65	1,589.09	3,638.65	3,573.69	64.96	56.013			
15,100.00	6,040.00	11,021.32	6,040.00	156.16	91.06	90.00	-4,626.65	1,589.09	3,736.28	3,671.24	65.04	57.448			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
15,200.00	6,040.00	11,021.32	6,040.00	157.88	91.06	90.00	-4,626.65	1,589.09	3,834.03	3,768.90	65.13	58.869			
15,300.00	6,040.00	11,021.32	6,040.00	159.60	91.06	90.00	-4,626.65	1,589.09	3,931.90	3,866.67	65.23	60.278			
15,400.00	6,040.00	11,021.32	6,040.00	161.32	91.06	90.00	-4,626.65	1,589.09	4,029.87	3,964.53	65.34	61.674			
15,500.00	6,040.00	11,021.32	6,040.00	163.04	91.06	90.00	-4,626.65	1,589.09	4,127.94	4,062.48	65.46	63.060			
15,600.00	6,040.00	11,021.32	6,040.00	164.77	91.06	90.00	-4,626.65	1,589.09	4,226.10	4,160.51	65.59	64.435			
15,700.00	6,040.00	11,021.32	6,040.00	166.49	91.06	90.00	-4,626.65	1,589.09	4,324.34	4,258.62	65.72	65.800			
15,800.00	6,040.00	11,021.32	6,040.00	168.22	91.06	90.00	-4,626.65	1,589.09	4,422.66	4,356.80	65.86	67.156			
15,900.00	6,040.00	11,021.32	6,040.00	169.95	91.06	90.00	-4,626.65	1,589.09	4,521.06	4,455.06	66.00	68.504			
16,000.00	6,040.00	11,021.32	6,040.00	171.68	91.06	90.00	-4,626.65	1,589.09	4,619.52	4,553.38	66.14	69.844			
16,100.00	6,040.00	11,021.32	6,040.00	173.41	91.06	90.00	-4,626.65	1,589.09	4,718.05	4,651.76	66.29	71.176			
16,200.00	6,040.00	11,021.32	6,040.00	175.14	91.06	90.00	-4,626.65	1,589.09	4,816.64	4,750.20	66.44	72.501			
16,300.00	6,040.00	11,021.32	6,040.00	176.88	91.06	90.00	-4,626.65	1,589.09	4,915.29	4,848.70	66.59	73.819			
16,400.00	6,040.00	11,021.32	6,040.00	178.61	91.06	90.00	-4,626.65	1,589.09	5,013.99	4,947.25	66.74	75.131			
16,500.00	6,040.00	11,021.32	6,040.00	180.34	91.06	90.00	-4,626.65	1,589.09	5,112.74	5,045.85	66.89	76.437			
16,600.00	6,040.00	11,021.32	6,040.00	182.08	91.06	90.00	-4,626.65	1,589.09	5,211.54	5,144.50	67.04	77.737			
16,700.00	6,040.00	11,021.32	6,040.00	183.82	91.06	90.00	-4,626.65	1,589.09	5,310.38	5,243.19	67.19	79.032			
16,800.00	6,040.00	11,021.32	6,040.00	185.56	91.06	90.00	-4,626.65	1,589.09	5,409.27	5,341.92	67.35	80.321			
16,865.66	6,040.00	11,021.32	6,040.00	186.70	91.06	90.00	-4,626.65	1,589.09	5,474.21	5,406.77	67.45	81.164			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-58.53	58.53						
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-58.53	58.53	58.27	0.27	217.718	CC, ES		
200.00	199.98	197.90	197.88	0.49	0.48	-164.61	0.18	-60.20	61.91	60.93	0.99	62.746			
300.00	299.84	295.13	294.98	0.86	0.84	-165.18	0.74	-65.14	72.03	70.31	1.72	41.905			
400.00	399.45	391.03	390.53	1.23	1.20	-165.82	1.64	-73.21	88.81	86.37	2.45	36.293			
500.00	498.70	485.01	483.85	1.63	1.57	-166.38	2.88	-84.21	112.14	108.97	3.17	35.413			
600.00	597.47	576.48	574.29	2.05	1.96	-166.80	4.40	-97.82	141.83	137.96	3.87	36.612			
700.00	695.62	664.97	661.31	2.51	2.36	-167.08	6.19	-113.72	177.68	173.11	4.57	38.908			
800.00	793.06	750.02	744.46	3.00	2.77	-167.26	8.19	-131.51	219.41	214.17	5.24	41.858			
900.00	889.64	831.31	823.39	3.54	3.19	-167.34	10.35	-150.79	266.76	260.87	5.90	45.232			
1,000.00	985.27	908.54	897.85	4.13	3.61	-167.36	12.64	-171.17	319.42	312.89	6.53	48.904			
1,100.00	1,079.82	981.52	967.67	4.77	4.05	-167.31	15.00	-192.25	377.08	369.94	7.14	52.832			
1,200.00	1,173.17	1,050.11	1,032.79	5.46	4.48	-167.20	17.41	-213.67	439.40	431.68	7.73	56.876			
1,300.00	1,265.23	1,114.26	1,093.20	6.21	4.90	-167.09	19.81	-235.10	506.05	497.75	8.30	61.004			
1,400.00	1,356.75	1,175.18	1,150.12	7.00	5.33	-167.27	22.23	-256.70	575.24	566.42	8.82	65.241			
1,500.00	1,448.28	1,233.72	1,204.36	7.80	5.77	-167.39	24.69	-278.57	645.89	636.56	9.33	69.260			
1,600.00	1,539.81	1,289.98	1,256.05	8.60	6.20	-167.45	27.16	-300.63	717.91	708.09	9.82	73.113			
1,700.00	1,631.34	1,344.04	1,305.30	9.41	6.64	-167.48	29.65	-322.77	791.24	780.94	10.30	76.815			
1,800.00	1,722.86	1,395.99	1,352.23	10.23	7.08	-167.48	32.13	-344.91	865.78	855.01	10.77	80.415			
1,900.00	1,814.39	1,445.92	1,396.95	11.05	7.52	-167.47	34.61	-366.99	941.47	930.25	11.22	83.903			
2,000.00	1,905.92	1,493.92	1,439.56	11.87	7.96	-167.44	37.08	-388.94	1,018.24	1,006.58	11.66	87.327			
2,100.00	1,997.45	1,540.07	1,480.18	12.69	8.40	-167.40	39.52	-410.71	1,096.04	1,083.95	12.09	90.666			
2,200.00	2,088.97	1,584.45	1,518.91	13.52	8.83	-167.36	41.94	-432.26	1,174.80	1,162.30	12.50	93.959			
2,300.00	2,180.50	1,627.15	1,555.84	14.35	9.27	-167.32	44.33	-453.55	1,254.47	1,241.56	12.91	97.193			
2,400.00	2,272.03	1,668.24	1,591.08	15.17	9.70	-167.27	46.68	-474.55	1,334.99	1,321.69	13.30	100.384			
2,500.00	2,363.56	1,700.00	1,618.11	16.00	10.03	-167.22	48.54	-491.13	1,416.36	1,402.77	13.60	104.179			
2,600.00	2,455.08	1,745.88	1,656.82	16.83	10.55	-167.16	51.29	-515.60	1,498.43	1,484.38	14.05	106.650			
2,700.00	2,546.61	1,782.57	1,687.49	17.66	10.96	-167.11	53.53	-535.61	1,581.26	1,566.85	14.41	109.738			
2,800.00	2,638.14	1,817.92	1,716.79	18.50	11.37	-167.05	55.74	-555.26	1,664.78	1,650.02	14.76	112.790			
2,900.00	2,729.67	1,852.00	1,744.81	19.33	11.78	-167.00	57.90	-574.54	1,748.94	1,733.83	15.10	115.800			
3,000.00	2,821.19	1,884.87	1,771.61	20.16	12.17	-166.95	60.03	-593.44	1,833.71	1,818.28	15.43	118.811			
3,100.00	2,912.72	1,916.57	1,797.26	20.99	12.56	-166.89	62.10	-611.97	1,919.07	1,903.31	15.76	121.787			
3,200.00	3,004.25	1,955.27	1,828.32	21.83	13.05	-166.83	64.68	-634.90	2,004.94	1,988.78	16.16	124.044			
3,300.00	3,095.78	2,006.33	1,869.25	22.66	13.70	-166.75	68.08	-665.23	2,090.91	2,074.20	16.71	125.143			
3,400.00	3,187.30	2,057.39	1,910.19	23.50	14.35	-166.68	71.49	-695.56	2,176.88	2,159.63	17.26	126.151			
3,500.00	3,278.83	2,108.44	1,951.12	24.33	15.01	-166.61	74.89	-725.89	2,262.86	2,245.05	17.81	127.081			
3,600.00	3,370.36	2,159.50	1,992.05	25.16	15.66	-166.54	78.29	-756.22	2,348.83	2,330.47	18.36	127.937			
3,700.00	3,461.89	2,210.56	2,032.98	26.00	16.32	-166.49	81.70	-786.55	2,434.80	2,415.89	18.91	128.730			
3,800.00	3,553.41	2,261.62	2,073.92	26.83	16.99	-166.43	85.10	-816.87	2,520.78	2,501.31	19.47	129.461			
3,900.00	3,644.94	2,312.67	2,114.85	27.67	17.65	-166.38	88.50	-847.20	2,606.75	2,586.72	20.03	130.141			
4,000.00	3,736.47	2,363.73	2,155.78	28.51	18.32	-166.33	91.91	-877.53	2,692.73	2,672.14	20.59	130.771			
4,100.00	3,828.00	2,414.79	2,196.71	29.34	18.99	-166.29	95.31	-907.86	2,778.71	2,757.55	21.15	131.357			
4,200.00	3,919.52	2,465.85	2,237.65	30.18	19.65	-166.25	98.71	-938.19	2,864.68	2,842.96	21.72	131.901			
4,300.00	4,011.05	2,516.90	2,278.58	31.01	20.32	-166.21	102.12	-968.52	2,950.66	2,928.37	22.28	132.409			
4,400.00	4,102.58	2,567.96	2,319.51	31.85	20.99	-166.17	105.52	-998.84	3,036.64	3,013.78	22.85	132.882			
4,500.00	4,194.11	2,619.02	2,360.45	32.68	21.67	-166.13	108.92	-1,029.17	3,122.61	3,099.19	23.42	133.323			
4,600.00	4,285.64	2,670.08	2,401.38	33.52	22.34	-166.10	112.33	-1,059.50	3,208.59	3,184.60	23.99	133.735			
4,700.00	4,377.16	2,721.13	2,442.31	34.36	23.01	-166.07	115.73	-1,089.83	3,294.57	3,270.01	24.56	134.120			
4,800.00	4,468.69	2,772.19	2,483.24	35.19	23.69	-166.04	119.14	-1,120.16	3,380.55	3,355.41	25.14	134.480			
4,900.00	4,560.22	2,823.25	2,524.18	36.03	24.36	-166.01	122.54	-1,150.49	3,466.53	3,440.82	25.71	134.817			
5,000.00	4,651.75	2,874.31	2,565.11	36.87	25.04	-165.98	125.94	-1,180.81	3,552.51	3,526.22	26.29	135.131			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft						
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft					
Reference													Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning							
5,100.00	4,743.27	2,925.36	2,606.04	37.70	25.71	-165.96	129.35	-1,211.14	3,638.49	3,611.62	26.87	135.426								
5,200.00	4,834.80	2,976.42	2,646.97	38.54	26.39	-165.93	132.75	-1,241.47	3,724.47	3,697.02	27.45	135.702								
5,300.00	4,926.33	3,027.48	2,687.91	39.38	27.06	-165.91	136.15	-1,271.80	3,810.45	3,782.42	28.03	135.960								
5,400.00	5,017.86	3,078.54	2,728.84	40.21	27.74	-165.88	139.56	-1,302.13	3,896.43	3,867.82	28.61	136.201								
5,500.00	5,109.38	3,129.60	2,769.77	41.05	28.42	-165.86	142.96	-1,332.46	3,982.41	3,953.21	29.19	136.427								
5,600.00	5,200.91	3,180.65	2,810.71	41.89	29.10	-165.84	146.36	-1,362.78	4,068.39	4,038.61	29.77	136.638								
5,700.00	5,292.44	3,231.71	2,851.64	42.73	29.78	-165.82	149.77	-1,393.11	4,154.37	4,124.01	30.36	136.836								
5,800.00	5,383.97	3,282.77	2,892.57	43.56	30.45	-165.80	153.17	-1,423.44	4,240.35	4,209.40	30.95	137.020								
5,900.00	5,475.51	3,333.82	2,933.50	44.40	31.13	-172.15	156.57	-1,453.76	4,326.33	4,294.79	31.53	137.197								
6,000.00	5,567.37	3,384.12	2,973.83	45.19	31.80	148.92	159.93	-1,483.65	4,411.76	4,379.69	32.06	137.593								
6,100.00	5,657.57	3,432.12	3,012.31	45.89	32.44	116.88	163.13	-1,512.16	4,494.50	4,462.01	32.48	138.357								
6,200.00	5,743.38	3,476.36	3,047.77	46.48	33.03	94.40	166.08	-1,538.43	4,572.34	4,539.56	32.78	139.471								
6,300.00	5,822.18	3,515.49	3,079.14	46.95	33.55	79.35	168.68	-1,561.68	4,643.36	4,610.39	32.96	140.874								
6,400.00	5,891.60	3,548.32	3,105.46	47.31	33.99	69.24	170.87	-1,581.18	4,705.87	4,672.84	33.03	142.470								
6,500.00	5,949.50	3,573.85	3,125.93	47.58	34.33	62.41	172.58	-1,596.35	4,758.50	4,725.49	33.01	144.132								
6,600.00	5,994.15	3,608.68	3,139.93	47.76	34.79	57.87	173.74	-1,606.72	4,800.11	4,767.07	33.04	145.283								
6,700.00	6,024.17	3,600.18	3,147.04	47.86	34.68	55.02	174.33	-1,611.99	4,829.83	4,796.98	32.85	147.040								
6,800.00	6,038.67	3,600.18	3,147.04	47.91	34.68	53.54	174.33	-1,611.98	4,847.02	4,814.27	32.75	147.982								
6,900.00	6,040.00	3,607.16	3,141.15	47.93	34.77	53.23	173.84	-1,607.62	4,853.95	4,821.18	32.78	148.096								
7,000.00	6,040.00	3,584.77	3,134.68	47.98	34.47	53.14	173.30	-1,602.83	4,861.67	4,828.93	32.74	148.485								
7,100.00	6,040.00	3,576.69	3,128.21	48.09	34.37	53.04	172.76	-1,598.03	4,871.41	4,838.53	32.89	148.135								
7,200.00	6,040.00	3,568.62	3,121.73	48.23	34.26	52.95	172.23	-1,593.24	4,883.17	4,850.05	33.12	147.427								
7,300.00	6,040.00	3,560.54	3,115.26	48.43	34.15	52.85	171.69	-1,588.44	4,896.93	4,863.48	33.45	146.400								
7,400.00	6,040.00	3,552.47	3,108.79	48.67	34.04	52.76	171.15	-1,583.64	4,912.67	4,878.81	33.86	145.100								
7,500.00	6,040.00	3,544.39	3,102.32	48.97	33.93	52.66	170.61	-1,578.85	4,930.38	4,896.04	34.34	143.575								
7,600.00	6,040.00	3,536.32	3,095.84	49.32	33.83	52.57	170.07	-1,574.05	4,950.03	4,915.14	34.89	141.874								
7,700.00	6,040.00	3,528.25	3,089.37	49.73	33.72	52.47	169.53	-1,569.26	4,971.61	4,936.11	35.50	140.045								
7,800.00	6,040.00	3,520.17	3,082.90	50.19	33.61	52.38	169.00	-1,564.46	4,995.08	4,958.91	36.16	138.130								
7,900.00	6,040.00	3,512.10	3,076.42	50.71	33.50	52.28	168.46	-1,559.66	5,020.42	4,983.55	36.87	136.169								
8,000.00	6,040.00	3,504.02	3,069.95	51.29	33.40	52.19	167.92	-1,554.87	5,047.60	5,009.98	37.61	134.194								
8,100.00	6,040.00	3,504.05	3,063.48	51.93	33.40	52.09	167.38	-1,550.07	5,076.59	5,038.15	38.44	132.068								
8,200.00	6,040.00	3,487.88	3,057.00	52.63	33.18	52.00	166.84	-1,545.28	5,107.36	5,068.17	39.19	130.311								
8,300.00	6,040.00	3,479.80	3,050.53	53.39	33.07	51.90	166.31	-1,540.48	5,139.88	5,099.87	40.02	128.443								
8,400.00	6,040.00	3,471.73	3,044.06	54.20	32.97	51.81	165.77	-1,535.68	5,174.12	5,133.27	40.86	126.645								
8,500.00	6,040.00	3,463.65	3,037.59	55.07	32.86	51.71	165.23	-1,530.89	5,210.04	5,168.34	41.70	124.927								
8,600.00	6,040.00	3,455.58	3,031.11	55.99	32.75	51.62	164.69	-1,526.09	5,247.61	5,205.05	42.56	123.295								
8,700.00	6,040.00	3,447.50	3,024.64	56.97	32.64	51.52	164.15	-1,521.30	5,286.79	5,243.37	43.42	121.757								
8,800.00	6,040.00	3,439.43	3,018.17	57.99	32.54	51.43	163.61	-1,516.50	5,327.55	5,283.27	44.28	120.313								
8,900.00	6,040.00	3,431.36	3,011.69	59.06	32.43	51.33	163.08	-1,511.70	5,369.85	5,324.71	45.14	118.966								
9,000.00	6,040.00	3,423.28	3,005.22	60.17	32.32	51.24	162.54	-1,506.91	5,413.65	5,367.66	45.99	117.715								
9,100.00	6,040.00	3,415.21	2,998.75	61.32	32.21	51.14	162.00	-1,502.11	5,458.92	5,412.09	46.83	116.560								
9,200.00	6,040.00	3,407.13	2,992.27	62.51	32.11	51.05	161.46	-1,497.31	5,505.63	5,457.96	47.67	115.500								
9,300.00	6,040.00	3,400.94	2,985.80	63.73	32.03	50.95	160.92	-1,492.52	5,553.73	5,505.22	48.50	114.498								
9,400.00	6,040.00	3,409.01	2,979.33	64.98	32.13	50.86	160.38	-1,487.72	5,603.19	5,553.75	49.44	113.344								
9,500.00	6,040.00	3,382.91	2,972.86	66.27	31.79	50.76	159.85	-1,482.93	5,653.97	5,603.87	50.10	112.856								
9,600.00	6,040.00	3,374.84	2,966.38	67.58	31.68	50.67	159.31	-1,478.13	5,706.05	5,655.17	50.88	112.145								
9,700.00	6,040.00	3,366.76	2,959.91	68.92	31.57	50.57	158.77	-1,473.33	5,759.38	5,707.73	51.65	111.513								
9,800.00	6,040.00	3,358.69	2,953.44	70.29	31.46	50.48	158.23	-1,468.54	5,813.92	5,761.53	52.40	110.958								
9,900.00	6,040.00	3,350.62	2,946.96	71.67	31.36	50.38	157.69	-1,463.74	5,869.66	5,816.53	53.13	110.476								
10,000.00	6,040.00	10,822.74	6,040.00	73.08	88.89	90.00	-3,502.79	-3,525.82	5,888.16	5,752.48	135.68	43.397								
10,100.00	6,040.00	10,922.68	6,040.00	74.51	89.69	90.00	-3,602.56	-3,519.97	5,884.68	5,745.74	138.94	42.355								

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.00	6,040.00	11,022.62	6,040.00	75.95	90.54	90.00	-3,702.33	-3,514.13	5,881.20	5,738.99	142.21	41.356			
10,300.00	6,040.00	11,122.56	6,040.00	77.41	91.43	90.00	-3,802.10	-3,508.28	5,877.72	5,732.22	145.50	40.398			
10,400.00	6,040.00	11,222.50	6,040.00	78.89	92.37	90.00	-3,901.87	-3,502.43	5,874.24	5,725.44	148.79	39.479			
10,500.00	6,040.00	11,322.44	6,040.00	80.38	93.35	90.00	-4,001.63	-3,496.58	5,870.76	5,718.65	152.11	38.596			
10,600.00	6,040.00	11,422.38	6,040.00	81.88	94.38	90.00	-4,101.40	-3,490.73	5,867.28	5,711.85	155.43	37.748			
10,700.00	6,040.00	11,522.32	6,040.00	83.40	95.45	90.00	-4,201.17	-3,484.88	5,863.80	5,705.03	158.77	36.933			
10,800.00	6,040.00	11,622.26	6,040.00	84.93	96.56	90.00	-4,300.94	-3,479.04	5,860.32	5,698.20	162.11	36.150			
10,900.00	6,040.00	11,722.20	6,040.00	86.47	97.71	90.00	-4,400.71	-3,473.19	5,856.84	5,691.37	165.47	35.396			
11,000.00	6,040.00	11,822.13	6,040.00	88.02	98.90	90.00	-4,500.47	-3,467.34	5,853.35	5,684.52	168.83	34.670			
11,100.00	6,040.00	11,922.07	6,040.00	89.58	100.12	90.00	-4,600.24	-3,461.49	5,849.87	5,677.67	172.21	33.970			
11,200.00	6,040.00	11,999.42	6,040.00	91.15	101.09	90.00	-4,677.46	-3,456.97	5,846.44	5,671.21	175.23	33.365			
11,300.00	6,040.00	11,999.42	6,040.00	92.73	101.09	90.00	-4,677.46	-3,456.97	5,844.20	5,667.19	177.00	33.017			
11,380.92	6,040.00	11,999.42	6,040.00	94.01	101.09	90.00	-4,677.46	-3,456.97	5,843.64	5,665.22	178.42	32.752			
11,400.00	6,040.00	11,999.42	6,040.00	94.31	101.09	90.00	-4,677.46	-3,456.97	5,843.67	5,664.92	178.75	32.691			
11,500.00	6,040.00	11,999.42	6,040.00	95.91	101.09	90.00	-4,677.46	-3,456.97	5,844.85	5,664.38	180.47	32.387			
11,600.00	6,040.00	11,999.42	6,040.00	97.51	101.09	90.00	-4,677.46	-3,456.97	5,847.74	5,665.58	182.16	32.103			
11,700.00	6,040.00	11,999.42	6,040.00	99.11	101.09	90.00	-4,677.46	-3,456.97	5,852.34	5,668.53	183.81	31.839			
11,800.00	6,040.00	11,999.42	6,040.00	100.73	101.09	90.00	-4,677.46	-3,456.97	5,858.65	5,673.22	185.43	31.595			
11,900.00	6,040.00	11,999.42	6,040.00	102.35	101.09	90.00	-4,677.46	-3,456.97	5,866.65	5,679.64	187.01	31.371			
12,000.00	6,040.00	11,999.42	6,040.00	103.97	101.09	90.00	-4,677.46	-3,456.97	5,876.34	5,687.79	188.55	31.166			
12,100.00	6,040.00	11,999.42	6,040.00	105.60	101.09	90.00	-4,677.46	-3,456.97	5,887.71	5,697.66	190.05	30.979			
12,200.00	6,040.00	11,999.42	6,040.00	107.24	101.09	90.00	-4,677.46	-3,456.97	5,900.76	5,709.25	191.51	30.811			
12,300.00	6,040.00	11,999.42	6,040.00	108.88	101.09	90.00	-4,677.46	-3,456.97	5,915.47	5,722.54	192.93	30.661			
12,400.00	6,040.00	11,999.42	6,040.00	110.53	101.09	90.00	-4,677.46	-3,456.97	5,931.83	5,737.52	194.31	30.528			
12,500.00	6,040.00	11,999.42	6,040.00	112.18	101.09	90.00	-4,677.46	-3,456.97	5,949.83	5,754.19	195.64	30.412			
12,600.00	6,040.00	11,999.42	6,040.00	113.83	101.09	90.00	-4,677.46	-3,456.97	5,969.44	5,772.52	196.93	30.313			
12,700.00	6,040.00	11,999.42	6,040.00	115.49	101.09	90.00	-4,677.46	-3,456.97	5,990.66	5,792.50	198.17	30.230			
12,800.00	6,040.00	11,999.42	6,040.00	117.16	101.09	90.00	-4,677.46	-3,456.97	6,013.48	5,814.11	199.36	30.163			
12,900.00	6,040.00	11,999.42	6,040.00	118.82	101.09	90.00	-4,677.46	-3,456.97	6,037.86	5,837.34	200.52	30.112			
13,000.00	6,040.00	11,999.42	6,040.00	120.49	101.09	90.00	-4,677.46	-3,456.97	6,063.79	5,862.17	201.62	30.075			
13,100.00	6,040.00	11,999.42	6,040.00	122.16	101.09	90.00	-4,677.46	-3,456.97	6,091.25	5,888.57	202.68	30.053			
13,200.00	6,040.00	11,999.42	6,040.00	123.84	101.09	90.00	-4,677.46	-3,456.97	6,120.22	5,916.53	203.70	30.046 SF			
13,300.00	6,040.00	11,999.42	6,040.00	125.52	101.09	90.00	-4,677.46	-3,456.97	6,150.69	5,946.02	204.67	30.052			
13,400.00	6,040.00	11,999.42	6,040.00	127.20	101.09	90.00	-4,677.46	-3,456.97	6,182.62	5,977.03	205.59	30.073			
13,500.00	6,040.00	11,999.42	6,040.00	128.89	101.09	90.00	-4,677.46	-3,456.97	6,216.00	6,009.52	206.47	30.106			
13,600.00	6,040.00	11,999.42	6,040.00	130.58	101.09	90.00	-4,677.46	-3,456.97	6,250.79	6,043.49	207.31	30.152			
13,700.00	6,040.00	11,999.42	6,040.00	132.27	101.09	90.00	-4,677.46	-3,456.97	6,286.99	6,078.89	208.10	30.211			
13,800.00	6,040.00	11,999.42	6,040.00	133.96	101.09	90.00	-4,677.46	-3,456.97	6,324.56	6,115.71	208.85	30.282			
13,900.00	6,040.00	11,999.42	6,040.00	135.66	101.09	90.00	-4,677.46	-3,456.97	6,363.48	6,153.92	209.56	30.366			
14,000.00	6,040.00	11,999.42	6,040.00	137.35	101.09	90.00	-4,677.46	-3,456.97	6,403.72	6,193.49	210.23	30.460			
14,100.00	6,040.00	11,999.42	6,040.00	139.05	101.09	90.00	-4,677.46	-3,456.97	6,445.27	6,234.41	210.86	30.567			
14,200.00	6,040.00	11,999.42	6,040.00	140.75	101.09	90.00	-4,677.46	-3,456.97	6,488.09	6,276.64	211.45	30.684			
14,300.00	6,040.00	11,999.42	6,040.00	142.46	101.09	90.00	-4,677.46	-3,456.97	6,532.16	6,320.16	212.00	30.812			
14,400.00	6,040.00	11,999.42	6,040.00	144.17	101.09	90.00	-4,677.46	-3,456.97	6,577.46	6,364.94	212.52	30.950			
14,500.00	6,040.00	11,999.42	6,040.00	145.87	101.09	90.00	-4,677.46	-3,456.97	6,623.95	6,410.96	213.00	31.099			
14,600.00	6,040.00	11,999.42	6,040.00	147.58	101.09	90.00	-4,677.46	-3,456.97	6,671.62	6,458.18	213.44	31.257			
14,700.00	6,040.00	11,999.42	6,040.00	149.29	101.09	90.00	-4,677.46	-3,456.97	6,720.45	6,506.59	213.85	31.425			
14,800.00	6,040.00	11,999.42	6,040.00	151.01	101.09	90.00	-4,677.46	-3,456.97	6,770.39	6,556.16	214.23	31.603			
14,900.00	6,040.00	11,999.42	6,040.00	152.72	101.09	90.00	-4,677.46	-3,456.97	6,821.44	6,606.86	214.58	31.790			
15,000.00	6,040.00	11,999.42	6,040.00	154.44	101.09	90.00	-4,677.46	-3,456.97	6,873.56	6,658.67	214.90	31.986			
15,100.00	6,040.00	11,999.42	6,040.00	156.16	101.09	90.00	-4,677.46	-3,456.97	6,926.73	6,711.55	215.18	32.190			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft			
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft		
Reference				Offset				Semi Major Axis				Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
15,200.00	6,040.00	11,999.42	6,040.00	157.88	101.09	90.00	-4,677.46	-3,456.97	6,980.94	6,765.49	215.44	32.403					
15,300.00	6,040.00	11,999.42	6,040.00	159.60	101.09	90.00	-4,677.46	-3,456.97	7,036.14	6,820.47	215.67	32.624					
15,400.00	6,040.00	11,999.42	6,040.00	161.32	101.09	90.00	-4,677.46	-3,456.97	7,092.33	6,876.45	215.88	32.853					
15,500.00	6,040.00	11,999.42	6,040.00	163.04	101.09	90.00	-4,677.46	-3,456.97	7,149.47	6,933.41	216.06	33.090					
15,600.00	6,040.00	11,999.42	6,040.00	164.77	101.09	90.00	-4,677.46	-3,456.97	7,207.55	6,991.33	216.22	33.335					
15,700.00	6,040.00	11,999.42	6,040.00	166.49	101.09	90.00	-4,677.46	-3,456.97	7,266.54	7,050.18	216.35	33.586					
15,800.00	6,040.00	11,999.42	6,040.00	168.22	101.09	90.00	-4,677.46	-3,456.97	7,326.42	7,109.95	216.47	33.846					
15,900.00	6,040.00	11,999.42	6,040.00	169.95	101.09	90.00	-4,677.46	-3,456.97	7,387.16	7,170.61	216.56	34.112					
16,000.00	6,040.00	11,999.42	6,040.00	171.68	101.09	90.00	-4,677.46	-3,456.97	7,448.76	7,232.13	216.63	34.385					
16,100.00	6,040.00	11,999.42	6,040.00	173.41	101.09	90.00	-4,677.46	-3,456.97	7,511.18	7,294.50	216.68	34.664					
16,200.00	6,040.00	11,999.42	6,040.00	175.14	101.09	90.00	-4,677.46	-3,456.97	7,574.41	7,357.69	216.72	34.951					
16,300.00	6,040.00	11,999.42	6,040.00	176.88	101.09	90.00	-4,677.46	-3,456.97	7,638.42	7,421.68	216.74	35.243					
16,400.00	6,040.00	11,999.42	6,040.00	178.61	101.09	90.00	-4,677.46	-3,456.97	7,703.20	7,486.46	216.74	35.542					
16,500.00	6,040.00	11,999.42	6,040.00	180.34	101.09	90.00	-4,677.46	-3,456.97	7,768.72	7,552.00	216.72	35.846					
16,600.00	6,040.00	11,999.42	6,040.00	182.08	101.09	90.00	-4,677.46	-3,456.97	7,834.98	7,618.28	216.69	36.157					
16,700.00	6,040.00	11,999.42	6,040.00	183.82	101.09	90.00	-4,677.46	-3,456.97	7,901.94	7,685.29	216.65	36.473					
16,800.00	6,040.00	11,999.42	6,040.00	185.56	101.09	90.00	-4,677.46	-3,456.97	7,969.60	7,753.00	216.60	36.795					
16,865.66	6,040.00	11,999.42	6,040.00	186.70	101.09	90.00	-4,677.46	-3,456.97	8,014.39	7,797.84	216.55	37.009					

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	16.72	16.72						
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	16.72	16.72	16.46	0.27	62.205			
200.00	199.98	199.66	199.64	0.49	0.48	22.64	-1.49	17.61	16.05	15.08	0.97	16.509			
272.09	271.98	271.35	271.24	0.76	0.74	37.54	-4.40	19.35	15.51	14.02	1.49	10.420	CC		
300.00	299.84	299.05	298.89	0.86	0.84	45.53	-5.94	20.26	15.66	13.98	1.69	9.286			
400.00	399.45	397.91	397.37	1.23	1.21	76.56	-13.30	24.64	20.06	17.63	2.43	8.264			
500.00	498.70	495.98	494.72	1.63	1.61	97.45	-23.48	30.70	31.48	28.28	3.20	9.838			
600.00	597.47	593.03	590.60	2.05	2.02	108.21	-36.36	38.38	48.70	44.70	4.00	12.172			
700.00	695.62	688.81	684.68	2.51	2.46	113.91	-51.81	47.58	70.69	65.86	4.83	14.623			
800.00	793.06	783.13	776.67	3.00	2.93	117.15	-69.65	58.20	96.97	91.26	5.70	16.999			
900.00	889.64	875.78	866.33	3.54	3.42	119.08	-89.70	70.14	127.27	120.65	6.61	19.242			
1,000.00	985.27	966.59	953.44	4.13	3.95	120.26	-111.76	83.28	161.41	153.84	7.56	21.338			
1,100.00	1,079.82	1,055.42	1,037.80	4.77	4.49	120.96	-135.62	97.49	199.24	190.68	8.56	23.278			
1,200.00	1,173.17	1,142.12	1,119.29	5.46	5.07	121.33	-161.07	112.64	240.62	231.02	9.60	25.070			
1,300.00	1,265.23	1,226.61	1,197.79	6.21	5.66	121.57	-187.89	128.61	285.39	274.71	10.68	26.720			
1,400.00	1,356.75	1,309.34	1,273.74	7.00	6.28	122.12	-216.08	145.40	332.44	320.66	11.78	28.223			
1,500.00	1,448.28	1,390.58	1,347.37	7.80	6.92	122.21	-245.58	162.96	381.03	368.14	12.89	29.554			
1,600.00	1,539.81	1,470.25	1,418.60	8.60	7.59	122.01	-276.23	181.22	431.11	417.10	14.02	30.756			
1,700.00	1,631.34	1,548.26	1,487.36	9.41	8.28	121.62	-307.89	200.07	482.65	467.51	15.14	31.870			
1,800.00	1,722.86	1,624.56	1,553.61	10.23	8.99	121.10	-340.40	219.43	535.64	519.37	16.27	32.925			
1,900.00	1,814.39	1,699.10	1,617.35	11.05	9.71	120.49	-373.61	239.21	590.04	572.66	17.39	33.939			
2,000.00	1,905.92	1,771.84	1,678.55	11.87	10.45	119.83	-407.38	259.32	645.87	627.37	18.50	34.910			
2,100.00	1,997.45	1,842.76	1,737.24	12.69	11.20	119.15	-441.58	279.68	703.09	683.49	19.60	35.870			
2,200.00	2,088.97	1,911.83	1,793.44	13.52	11.95	118.45	-476.08	300.23	761.68	741.00	20.68	36.829			
2,300.00	2,180.50	1,979.06	1,847.19	14.35	12.72	117.75	-510.77	320.89	821.63	799.88	21.75	37.780			
2,400.00	2,272.03	2,044.44	1,898.55	15.17	13.49	117.05	-545.54	341.59	882.91	860.11	22.79	38.735			
2,500.00	2,363.56	2,107.99	1,947.56	16.00	14.26	116.36	-580.28	362.28	945.48	921.67	23.81	39.706			
2,600.00	2,455.08	2,169.72	1,994.31	16.83	15.03	115.69	-614.92	382.91	1,009.32	984.51	24.81	40.677			
2,700.00	2,546.61	2,229.65	2,038.85	17.66	15.80	115.04	-649.37	403.42	1,074.40	1,048.61	25.79	41.666			
2,800.00	2,638.14	2,287.81	2,081.26	18.50	16.57	114.40	-683.56	423.78	1,140.67	1,113.94	26.73	42.673			
2,900.00	2,729.67	2,344.23	2,121.63	19.33	17.34	113.79	-717.43	443.95	1,208.11	1,180.45	27.65	43.687			
3,000.00	2,821.19	2,400.00	2,160.76	20.16	18.10	113.18	-751.57	464.28	1,276.67	1,248.10	28.57	44.693			
3,100.00	2,912.72	2,452.00	2,196.54	20.99	18.84	112.62	-783.99	483.59	1,346.31	1,316.90	29.41	45.771			
3,200.00	3,004.25	2,500.00	2,228.95	21.83	19.53	112.11	-814.41	501.70	1,417.02	1,386.85	30.17	46.962			
3,300.00	3,095.78	2,553.27	2,264.23	22.66	20.32	111.54	-848.71	522.13	1,488.73	1,457.66	31.07	47.920			
3,400.00	3,187.30	2,600.00	2,294.55	23.50	21.01	111.05	-879.25	540.31	1,561.42	1,529.60	31.81	49.079			
3,500.00	3,278.83	2,648.38	2,325.34	24.33	21.76	110.54	-911.32	559.41	1,635.04	1,602.43	32.62	50.131			
3,600.00	3,370.36	2,700.00	2,357.48	25.16	22.55	110.01	-946.02	580.07	1,709.59	1,676.11	33.49	51.052			
3,700.00	3,461.89	2,743.05	2,383.77	26.00	23.23	109.57	-975.31	597.52	1,784.96	1,750.78	34.18	52.224			
3,800.00	3,553.41	2,807.08	2,422.72	26.83	24.24	108.95	-1,018.97	623.52	1,860.64	1,825.29	35.35	52.642			
3,900.00	3,644.94	2,871.12	2,461.68	27.67	25.25	108.38	-1,062.64	649.52	1,936.41	1,899.90	36.51	53.031			
4,000.00	3,736.47	2,935.15	2,500.64	28.51	26.27	107.85	-1,106.30	675.52	2,012.26	1,974.57	37.69	53.397			
4,100.00	3,828.00	3,000.81	2,539.60	29.34	27.32	107.36	-1,149.97	701.53	2,088.18	2,049.30	38.88	53.715			
4,200.00	3,919.52	3,063.22	2,578.55	30.18	28.32	106.90	-1,193.63	727.53	2,164.16	2,124.13	40.03	54.061			
4,300.00	4,011.05	3,127.26	2,617.51	31.01	29.34	106.47	-1,237.30	753.53	2,240.20	2,198.99	41.21	54.365			
4,400.00	4,102.58	3,208.71	2,656.47	31.85	30.65	106.07	-1,280.96	779.53	2,316.29	2,273.72	42.58	54.405			
4,500.00	4,194.11	3,255.33	2,695.43	32.68	31.40	105.69	-1,324.63	805.54	2,392.43	2,348.86	43.56	54.921			
4,600.00	4,285.64	3,319.36	2,734.38	33.52	32.43	105.34	-1,368.30	831.54	2,468.60	2,423.86	44.74	55.176			
4,700.00	4,377.16	3,383.40	2,773.34	34.36	33.46	105.01	-1,411.96	857.54	2,544.82	2,498.90	45.92	55.418			
4,800.00	4,468.69	3,447.43	2,812.30	35.19	34.49	104.69	-1,455.63	883.54	2,621.07	2,573.97	47.10	55.647			
4,900.00	4,560.22	3,511.47	2,851.26	36.03	35.52	104.40	-1,499.29	909.55	2,697.35	2,649.07	48.28	55.864			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
SEC 3-T4N-R62W - STATE SEVENTY HOLES Y-E-10HNRXL - OWB - PROPOSAL 1														
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,651.75	3,575.50	2,890.21	36.87	36.56	104.12	-1,542.96	935.55	2,773.66	2,724.19	49.47	56.071		
5,100.00	4,743.27	3,639.54	2,929.17	37.70	37.59	103.85	-1,586.62	961.55	2,850.00	2,799.35	50.65	56.267		
5,200.00	4,834.80	3,703.57	2,968.13	38.54	38.63	103.60	-1,630.29	987.56	2,926.36	2,874.52	51.84	56.454		
5,300.00	4,926.33	3,767.61	3,007.09	39.38	39.66	103.36	-1,673.95	1,013.56	3,002.75	2,949.72	53.02	56.632		
5,400.00	5,017.86	3,831.64	3,046.04	40.21	40.70	103.13	-1,717.62	1,039.56	3,079.15	3,024.94	54.21	56.802		
5,500.00	5,109.38	3,904.32	3,085.00	41.05	41.88	102.92	-1,761.28	1,065.56	3,155.58	3,100.09	55.49	56.869		
5,600.00	5,200.91	3,959.71	3,123.96	41.89	42.78	102.71	-1,804.95	1,091.57	3,232.02	3,175.44	56.58	57.120		
5,700.00	5,292.44	4,023.75	3,162.91	42.73	43.82	102.51	-1,848.62	1,117.57	3,308.48	3,250.71	57.77	57.268		
5,800.00	5,383.97	4,087.78	3,201.87	43.56	44.86	102.32	-1,892.28	1,143.57	3,384.96	3,326.00	58.96	57.410		
5,900.00	5,475.51	4,151.99	3,240.93	44.40	45.90	98.53	-1,936.06	1,169.64	3,461.30	3,401.15	60.15	57.542		
6,000.00	5,567.37	4,224.25	3,284.90	45.19	47.07	75.45	-1,985.34	1,198.99	3,529.78	3,468.31	61.47	57.425		
6,100.00	5,657.57	4,307.21	3,335.37	45.89	48.42	56.23	-2,041.91	1,232.67	3,584.63	3,521.69	62.94	56.954		
6,200.00	5,743.38	4,401.66	3,390.81	46.48	49.96	43.18	-2,104.05	1,269.68	3,624.18	3,559.63	64.54	56.151		
6,300.00	5,822.18	4,494.86	3,449.53	46.95	51.48	34.77	-2,169.87	1,308.88	3,647.23	3,581.11	66.12	55.162		
6,400.00	5,891.60	4,606.14	3,509.76	47.31	53.29	29.28	-2,237.38	1,349.07	3,653.11	3,585.26	67.85	53.840		
6,500.00	5,949.50	4,707.68	3,569.66	47.58	54.94	25.61	-2,304.52	1,389.06	3,641.62	3,572.20	69.43	52.453		
6,600.00	5,994.15	4,787.25	3,627.41	47.76	56.24	23.11	-2,369.25	1,427.60	3,613.13	3,542.43	70.70	51.105		
6,700.00	6,024.17	4,875.76	3,681.26	47.86	57.68	21.40	-2,429.60	1,463.55	3,568.51	3,496.51	71.99	49.568		
6,800.00	6,038.67	4,955.17	3,729.57	47.91	58.98	20.24	-2,483.75	1,495.79	3,509.09	3,435.99	73.10	48.002		
6,900.00	6,040.00	5,025.31	3,772.24	47.93	60.12	19.72	-2,531.58	1,524.27	3,438.75	3,364.71	74.04	46.446		
7,000.00	6,040.00	5,105.55	3,814.30	47.98	61.43	19.45	-2,578.73	1,552.35	3,367.41	3,292.35	75.06	44.865		
7,100.00	6,040.00	5,163.58	3,856.36	48.09	62.38	19.17	-2,625.87	1,580.42	3,296.11	3,220.27	75.84	43.463		
7,200.00	6,040.00	5,232.72	3,898.42	48.23	63.51	18.87	-2,673.01	1,608.49	3,224.85	3,148.12	76.73	42.030		
7,300.00	6,040.00	5,301.85	3,940.48	48.43	64.64	18.56	-2,720.16	1,636.57	3,153.64	3,076.03	77.61	40.636		
7,400.00	6,040.00	5,370.99	3,982.54	48.67	65.76	18.24	-2,767.30	1,664.64	3,082.47	3,004.00	78.48	39.279		
7,500.00	6,040.00	5,440.12	4,024.60	48.97	66.89	17.91	-2,814.44	1,692.71	3,011.36	2,932.03	79.33	37.959		
7,600.00	6,040.00	5,509.26	4,066.66	49.32	68.02	17.55	-2,861.58	1,720.79	2,940.30	2,860.13	80.17	36.674		
7,700.00	6,040.00	5,578.39	4,108.72	49.73	69.15	17.19	-2,908.73	1,748.86	2,869.30	2,788.30	81.00	35.424		
7,800.00	6,040.00	5,647.53	4,150.78	50.19	70.28	16.80	-2,955.87	1,776.93	2,798.37	2,716.56	81.81	34.207		
7,900.00	6,040.00	5,716.66	4,192.84	50.71	71.41	16.39	-3,003.01	1,805.01	2,727.50	2,644.91	82.59	33.023		
8,000.00	6,040.00	5,785.79	4,234.90	51.29	72.54	15.97	-3,050.16	1,833.08	2,656.71	2,573.36	83.36	31.872		
8,100.00	6,040.00	5,854.93	4,276.96	51.93	73.67	15.52	-3,097.30	1,861.15	2,586.01	2,501.91	84.09	30.751		
8,200.00	6,040.00	5,924.06	4,319.02	52.63	74.80	15.04	-3,144.44	1,889.23	2,515.38	2,430.58	84.80	29.661		
8,300.00	6,040.00	6,006.80	4,361.08	53.39	76.15	14.55	-3,191.58	1,917.30	2,444.86	2,359.24	85.62	28.556		
8,400.00	6,040.00	6,062.33	4,403.14	54.20	77.06	14.02	-3,238.73	1,945.38	2,374.44	2,288.31	86.12	27.570		
8,500.00	6,040.00	6,131.47	4,445.20	55.07	78.19	13.46	-3,285.87	1,973.45	2,304.13	2,217.40	86.73	26.568		
8,600.00	6,040.00	6,200.60	4,487.26	55.99	79.32	12.87	-3,333.01	2,001.52	2,233.94	2,146.65	87.29	25.593		
8,700.00	6,040.00	6,269.74	4,529.32	56.97	80.45	12.24	-3,380.15	2,029.60	2,163.90	2,076.09	87.80	24.645		
8,800.00	6,040.00	6,338.87	4,571.38	57.99	81.58	11.58	-3,427.30	2,057.67	2,094.00	2,005.73	88.27	23.723		
8,900.00	6,040.00	6,408.01	4,613.44	59.06	82.71	10.87	-3,474.44	2,085.74	2,024.26	1,935.59	88.68	22.828		
9,000.00	6,040.00	6,477.14	4,655.50	60.17	83.85	10.11	-3,521.58	2,113.82	1,954.71	1,865.69	89.02	21.957		
9,100.00	6,040.00	6,546.27	4,697.56	61.32	84.98	9.31	-3,568.73	2,141.89	1,885.37	1,796.06	89.30	21.112		
9,200.00	6,040.00	6,615.41	4,739.62	62.51	86.11	8.45	-3,615.87	2,169.96	1,816.25	1,726.73	89.51	20.291		
9,300.00	6,040.00	6,684.54	4,781.68	63.73	87.24	7.52	-3,663.01	2,198.04	1,747.38	1,657.74	89.64	19.493		
9,400.00	6,040.00	6,753.68	4,823.74	64.98	88.37	6.53	-3,710.15	2,226.11	1,678.80	1,589.11	89.68	18.719		
9,500.00	6,040.00	6,822.81	4,865.80	66.27	89.50	5.46	-3,757.30	2,254.18	1,610.53	1,520.90	89.63	17.968		
9,600.00	6,040.00	6,908.05	4,907.86	67.58	90.90	4.31	-3,804.44	2,282.26	1,542.64	1,453.01	89.63	17.212		
9,700.00	6,040.00	6,961.08	4,949.92	68.92	91.76	3.06	-3,851.58	2,310.33	1,475.15	1,385.91	89.24	16.531		
9,800.00	6,040.00	7,030.22	4,991.98	70.29	92.90	1.72	-3,898.73	2,338.40	1,408.14	1,319.26	88.88	15.843		
9,900.00	6,040.00	7,099.35	5,034.04	71.67	94.03	0.25	-3,945.87	2,366.48	1,341.67	1,253.25	88.42	15.174		
10,000.00	6,040.00	7,168.49	5,076.10	73.08	95.16	-1.34	-3,993.01	2,394.55	1,275.84	1,187.98	87.86	14.521		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,100.00	6,040.00	7,237.62	5,118.16	74.51	96.29	-3.07	-4,040.15	2,422.62	1,210.73	1,123.52	87.21	13.882			
10,200.00	6,040.00	7,306.75	5,160.22	75.95	97.42	-4.96	-4,087.30	2,450.70	1,146.48	1,059.97	86.51	13.253			
10,300.00	6,040.00	7,375.89	5,202.28	77.41	98.55	-7.03	-4,134.44	2,478.77	1,083.24	997.44	85.80	12.625			
10,400.00	6,040.00	7,445.02	5,244.34	78.89	99.69	-9.30	-4,181.58	2,506.84	1,021.20	936.03	85.16	11.991			
10,500.00	6,040.00	7,514.16	5,286.40	80.38	100.82	-11.78	-4,228.73	2,534.92	960.58	875.85	84.73	11.337			
10,600.00	6,040.00	7,583.29	5,328.46	81.88	101.95	-14.51	-4,275.87	2,562.99	901.68	816.98	84.70	10.645			
10,700.00	6,040.00	7,652.43	5,370.52	83.40	103.08	-17.50	-4,323.01	2,591.06	844.86	759.50	85.36	9.897			
10,800.00	6,040.00	7,721.56	5,412.58	84.93	104.21	-20.78	-4,370.15	2,619.14	790.56	703.46	87.10	9.076			
10,900.00	6,040.00	7,790.70	5,454.64	86.47	105.35	-24.36	-4,417.30	2,647.21	739.34	648.92	90.41	8.177			
11,000.00	6,040.00	7,859.83	5,496.70	88.02	106.48	-28.25	-4,464.44	2,675.28	691.88	596.05	95.83	7.220			
11,100.00	6,040.00	8,007.26	5,589.55	89.58	108.72	-36.69	-4,568.67	2,721.51	645.93	543.79	102.14	6.324			
11,200.00	6,040.00	8,197.08	5,714.92	91.15	110.79	-46.08	-4,709.96	2,726.70	591.04	490.19	100.85	5.861			
11,300.00	6,040.00	8,368.69	5,823.46	92.73	111.85	-52.88	-4,832.81	2,678.16	523.96	431.56	92.40	5.670			
11,400.00	6,040.00	8,501.45	5,897.89	94.31	112.25	-56.47	-4,917.41	2,608.53	446.36	362.00	84.36	5.291			
11,500.00	6,040.00	8,597.53	5,944.03	95.91	112.36	-56.96	-4,970.07	2,542.88	361.60	280.91	80.69	4.481			
11,600.00	6,040.00	8,666.69	5,972.37	97.51	112.39	-53.91	-5,002.55	2,488.85	272.42	191.38	81.04	3.361			
11,700.00	6,040.00	8,717.49	5,990.31	99.11	112.38	-44.90	-5,023.19	2,446.07	180.83	96.17	84.66	2.136			
11,800.00	6,040.00	8,755.82	6,002.13	100.73	112.38	-22.15	-5,036.85	2,412.27	89.41	-4.80	94.21	0.949	Level 1		
11,887.34	6,040.00	8,782.15	6,009.37	102.14	112.36	15.78	-5,045.24	2,388.39	31.83	-62.91	94.74	0.336	Level 1, ES, SF		
11,900.00	6,040.00	8,785.53	6,010.24	102.35	112.36	21.60	-5,046.26	2,385.29	34.08	-41.50	75.58	0.451	Level 1		
12,000.00	6,040.00	8,809.11	6,016.01	103.97	112.35	54.63	-5,052.98	2,363.43	113.36	44.49	68.87	1.646			
12,100.00	6,040.00	8,828.22	6,020.25	105.60	112.34	69.15	-5,057.93	2,345.47	208.51	132.10	76.41	2.729			
12,200.00	6,040.00	8,844.00	6,023.44	107.24	112.33	76.11	-5,061.68	2,330.48	305.49	225.25	80.23	3.808			
12,300.00	6,040.00	8,857.22	6,025.91	108.88	112.32	79.97	-5,064.58	2,317.82	403.20	320.37	82.83	4.868			
12,400.00	6,040.00	8,868.45	6,027.85	110.53	112.32	82.35	-5,066.88	2,307.00	501.36	416.54	84.82	5.911			
12,500.00	6,040.00	8,878.10	6,029.40	112.18	112.31	83.94	-5,068.72	2,297.66	599.82	513.37	86.45	6.938			
12,600.00	6,040.00	8,886.47	6,030.66	113.83	112.31	85.06	-5,070.22	2,289.51	698.51	610.69	87.82	7.953			
12,700.00	6,040.00	8,900.00	6,032.54	115.49	112.30	86.48	-5,072.47	2,276.31	797.43	709.24	88.19	9.042			
12,800.00	6,040.00	8,900.00	6,032.54	117.16	112.30	86.48	-5,072.47	2,276.31	896.39	806.30	90.09	9.950			
12,900.00	6,040.00	8,900.00	6,032.54	118.82	112.30	86.48	-5,072.47	2,276.31	995.56	903.89	91.67	10.860			
13,000.00	6,040.00	8,900.00	6,032.54	120.49	112.30	86.48	-5,072.47	2,276.31	1,094.88	1,001.88	93.00	11.773			
13,100.00	6,040.00	8,915.84	6,034.47	122.16	112.29	87.69	-5,074.79	2,260.76	1,194.04	1,101.47	92.57	12.898			
13,200.00	6,040.00	8,920.03	6,034.93	123.84	112.29	87.94	-5,075.36	2,256.63	1,293.41	1,200.15	93.26	13.869			
13,300.00	6,040.00	8,923.84	6,035.33	125.52	112.28	88.15	-5,075.85	2,252.87	1,392.84	1,298.96	93.88	14.836			
13,400.00	6,040.00	8,927.32	6,035.69	127.20	112.28	88.33	-5,076.28	2,249.44	1,492.32	1,397.87	94.45	15.799			
13,500.00	6,040.00	8,930.51	6,036.00	128.89	112.28	88.49	-5,076.66	2,246.29	1,591.85	1,496.87	94.98	16.759			
13,600.00	6,040.00	8,933.44	6,036.27	130.58	112.28	88.62	-5,077.00	2,243.39	1,691.41	1,595.94	95.47	17.716			
13,700.00	6,040.00	8,950.00	6,037.65	132.27	112.27	89.21	-5,078.72	2,226.98	1,791.19	1,696.22	94.97	18.860			
13,800.00	6,040.00	8,950.00	6,037.65	133.96	112.27	89.21	-5,078.72	2,226.98	1,890.76	1,795.16	95.60	19.777			
13,900.00	6,040.00	8,950.00	6,037.65	135.66	112.27	89.21	-5,078.72	2,226.98	1,990.37	1,894.19	96.18	20.695			
14,000.00	6,040.00	8,950.00	6,037.65	137.35	112.27	89.21	-5,078.72	2,226.98	2,090.02	1,993.32	96.70	21.613			
14,100.00	6,040.00	8,950.00	6,037.65	139.05	112.27	89.21	-5,078.72	2,226.98	2,189.70	2,092.51	97.19	22.530			
14,200.00	6,040.00	8,950.00	6,037.65	140.75	112.27	89.21	-5,078.72	2,226.98	2,289.41	2,191.77	97.64	23.448			
14,300.00	6,040.00	8,950.00	6,037.65	142.46	112.27	89.21	-5,078.72	2,226.98	2,389.14	2,291.09	98.05	24.366			
14,400.00	6,040.00	8,950.00	6,037.65	144.17	112.27	89.21	-5,078.72	2,226.98	2,488.90	2,390.46	98.44	25.283			
14,500.00	6,040.00	8,950.00	6,037.65	145.87	112.27	89.21	-5,078.72	2,226.98	2,588.67	2,489.87	98.80	26.201			
14,600.00	6,040.00	8,950.00	6,037.65	147.58	112.27	89.21	-5,078.72	2,226.98	2,688.46	2,589.32	99.14	27.118			
14,700.00	6,040.00	8,950.00	6,037.65	149.29	112.27	89.21	-5,078.72	2,226.98	2,788.26	2,688.81	99.46	28.034			
14,800.00	6,040.00	8,950.00	6,037.65	151.01	112.27	89.21	-5,078.72	2,226.98	2,888.08	2,788.32	99.76	28.951			
14,900.00	6,040.00	8,950.00	6,037.65	152.72	112.27	89.21	-5,078.72	2,226.98	2,987.91	2,887.87	100.04	29.866			
15,000.00	6,040.00	8,950.00	6,037.65	154.44	112.27	89.21	-5,078.72	2,226.98	3,087.76	2,987.44	100.31	30.782			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft	
Survey Program: 0-MWD OWSG												Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,100.00	6,040.00	8,950.00	6,037.65	156.16	112.27	89.21	-5,078.72	2,226.98	3,187.61	3,087.04	100.57	31.697		
15,200.00	6,040.00	8,950.00	6,037.65	157.88	112.27	89.21	-5,078.72	2,226.98	3,287.47	3,186.66	100.81	32.611		
15,300.00	6,040.00	8,950.00	6,037.65	159.60	112.27	89.21	-5,078.72	2,226.98	3,387.34	3,286.30	101.04	33.525		
15,400.00	6,040.00	8,950.00	6,037.65	161.32	112.27	89.21	-5,078.72	2,226.98	3,487.21	3,385.95	101.26	34.438		
15,500.00	6,040.00	8,950.00	6,037.65	163.04	112.27	89.21	-5,078.72	2,226.98	3,587.10	3,485.62	101.47	35.350		
15,600.00	6,040.00	8,950.00	6,037.65	164.77	112.27	89.21	-5,078.72	2,226.98	3,686.99	3,585.31	101.68	36.262		
15,700.00	6,040.00	8,950.00	6,037.65	166.49	112.27	89.21	-5,078.72	2,226.98	3,786.88	3,685.01	101.87	37.174		
15,800.00	6,040.00	8,950.00	6,037.65	168.22	112.27	89.21	-5,078.72	2,226.98	3,886.78	3,784.72	102.06	38.084		
15,900.00	6,040.00	8,950.00	6,037.65	169.95	112.27	89.21	-5,078.72	2,226.98	3,986.69	3,884.45	102.24	38.994		
16,000.00	6,040.00	8,950.00	6,037.65	171.68	112.27	89.21	-5,078.72	2,226.98	4,086.60	3,984.19	102.41	39.903		
16,100.00	6,040.00	8,950.00	6,037.65	173.41	112.27	89.21	-5,078.72	2,226.98	4,186.51	4,083.93	102.58	40.812		
16,200.00	6,040.00	8,950.00	6,037.65	175.14	112.27	89.21	-5,078.72	2,226.98	4,286.43	4,183.69	102.74	41.719		
16,300.00	6,040.00	8,950.00	6,037.65	176.88	112.27	89.21	-5,078.72	2,226.98	4,386.35	4,283.45	102.90	42.626		
16,400.00	6,040.00	8,950.00	6,037.65	178.61	112.27	89.21	-5,078.72	2,226.98	4,486.28	4,383.22	103.06	43.532		
16,500.00	6,040.00	8,971.05	6,038.95	180.34	112.26	89.69	-5,080.38	2,206.03	4,585.87	4,483.34	102.53	44.726		
16,600.00	6,040.00	8,971.64	6,038.98	182.08	112.25	89.69	-5,080.42	2,205.45	4,685.79	4,583.11	102.67	45.639		
16,700.00	6,040.00	8,972.20	6,039.00	183.82	112.25	89.70	-5,080.46	2,204.89	4,785.70	4,682.90	102.81	46.551		
16,800.00	6,040.00	8,972.75	6,039.03	185.56	112.25	89.71	-5,080.49	2,204.34	4,885.62	4,782.68	102.94	47.462		
16,865.66	6,040.00	8,973.10	6,039.05	186.70	112.25	89.72	-5,080.51	2,204.00	4,951.23	4,848.21	103.02	48.059		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 156-MWD OWSG, 1664-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	16,204.00	6,154.76	0.00	284.69	9.82	342.64	59.29	6,179.55				
100.00	100.00	16,204.00	6,154.76	0.13	284.69	9.82	342.64	59.29	6,079.71	5,995.86	83.85	72.506	
200.00	199.98	16,204.00	6,154.76	0.49	284.69	-100.95	342.64	59.29	5,979.85	5,895.95	83.90	71.273	
300.00	299.84	16,204.00	6,154.76	0.86	284.69	-130.42	342.64	59.29	5,880.04	5,796.08	83.95	70.039	
400.00	399.45	16,224.95	6,154.44	1.23	285.25	-145.51	343.38	80.22	5,780.31	5,696.16	84.15	68.691	
500.00	498.70	16,230.11	6,154.37	1.63	285.39	-154.44	343.55	85.38	5,680.92	5,596.68	84.24	67.437	
600.00	597.47	16,237.04	6,154.29	2.05	285.58	-159.79	343.78	92.31	5,581.94	5,497.59	84.35	66.180	
700.00	695.62	16,245.76	6,154.20	2.51	285.82	-163.30	344.05	101.02	5,483.50	5,399.04	84.46	64.921	
800.00	793.06	16,256.32	6,154.12	3.00	286.10	-165.77	344.36	111.58	5,385.74	5,301.14	84.60	63.662	
900.00	889.64	16,268.74	6,154.04	3.54	286.44	-167.60	344.70	123.99	5,288.80	5,204.05	84.75	62.406	
1,000.00	985.27	16,293.00	6,153.98	4.13	287.10	-169.04	345.31	148.24	5,192.84	5,107.86	84.98	61.105	
1,100.00	1,079.82	16,302.47	6,153.98	4.77	287.35	-170.16	345.53	157.72	5,097.95	5,012.82	85.13	59.887	
1,200.00	1,173.17	16,329.67	6,154.00	5.46	288.09	-171.11	346.29	184.90	5,004.27	4,918.88	85.40	58.601	
1,300.00	1,265.23	16,359.57	6,154.06	6.21	288.90	-171.83	347.31	214.78	4,911.92	4,826.23	85.69	57.323	
1,400.00	1,356.75	16,396.49	6,154.18	7.00	289.90	-171.95	348.77	251.67	4,820.14	4,734.06	86.07	56.001	
1,500.00	1,448.28	16,447.97	6,154.32	7.80	291.29	-172.13	350.12	303.13	4,728.30	4,641.75	86.55	54.630	
1,600.00	1,539.81	16,496.80	6,154.37	8.60	292.62	-172.34	350.64	351.96	4,636.38	4,549.37	87.01	53.285	
1,700.00	1,631.34	16,543.77	6,154.31	9.41	293.89	-172.54	351.52	398.92	4,544.39	4,456.92	87.47	51.956	
1,800.00	1,722.86	16,583.39	6,154.19	10.23	294.96	-172.70	352.62	438.53	4,452.36	4,364.47	87.89	50.659	
1,900.00	1,814.39	16,618.95	6,154.10	11.05	295.93	-172.85	353.73	474.07	4,360.35	4,272.06	88.29	49.385	
2,000.00	1,905.92	16,654.02	6,154.03	11.87	296.88	-173.00	354.90	509.12	4,268.39	4,179.69	88.70	48.122	
2,100.00	1,997.45	16,685.09	6,154.01	12.69	297.72	-173.13	355.98	540.17	4,176.48	4,087.39	89.09	46.879	
2,200.00	2,088.97	16,716.44	6,154.05	13.52	298.57	-173.27	357.07	571.50	4,084.66	3,995.17	89.49	45.644	
2,300.00	2,180.50	16,750.36	6,154.16	14.35	299.48	-173.43	358.27	605.40	3,992.91	3,903.01	89.90	44.413	
2,400.00	2,272.03	16,790.09	6,154.31	15.17	300.56	-173.63	359.63	645.10	3,901.19	3,810.84	90.35	43.177	
2,500.00	2,363.56	16,829.79	6,154.45	16.00	301.64	-173.83	360.93	684.78	3,809.47	3,718.67	90.80	41.953	
2,600.00	2,455.08	16,867.85	6,154.59	16.83	302.67	-174.04	362.26	722.83	3,717.77	3,626.52	91.25	40.743	
2,700.00	2,546.61	16,906.11	6,154.74	17.66	303.70	-174.25	363.78	761.05	3,626.09	3,534.40	91.70	39.544	
2,800.00	2,638.14	16,944.48	6,154.90	18.50	304.74	-174.46	365.50	799.38	3,534.44	3,442.29	92.15	38.354	
2,900.00	2,729.67	16,982.96	6,155.06	19.33	305.78	-174.67	367.41	837.82	3,442.80	3,350.19	92.61	37.175	
3,000.00	2,821.19	17,041.24	6,155.21	20.16	307.35	-175.00	370.76	896.00	3,351.14	3,257.99	93.15	35.974	
3,100.00	2,912.72	17,110.04	6,154.70	20.99	309.21	-175.37	375.75	964.62	3,259.08	3,165.35	93.73	34.770	
3,200.00	3,004.25	17,150.83	6,154.25	21.83	310.31	-175.64	378.18	1,005.33	3,166.89	3,072.69	94.20	33.620	
3,300.00	3,095.78	17,191.20	6,153.81	22.66	311.40	-175.96	379.68	1,045.67	3,074.68	2,980.03	94.65	32.484	
3,400.00	3,187.30	17,213.38	6,153.64	23.50	312.00	-176.15	380.28	1,067.84	2,982.60	2,887.54	95.06	31.375	
3,500.00	3,278.83	17,238.83	6,153.56	24.33	312.69	-176.39	380.86	1,093.28	2,890.71	2,795.22	95.49	30.272	
3,600.00	3,370.36	17,273.00	6,153.63	25.16	313.62	-176.73	381.46	1,127.45	2,799.03	2,703.08	95.95	29.172	
3,700.00	3,461.89	17,294.69	6,153.76	26.00	314.21	-176.97	381.75	1,149.13	2,707.50	2,611.11	96.39	28.088	
3,800.00	3,553.41	17,326.56	6,154.04	26.83	315.07	-177.33	382.11	1,181.00	2,616.14	2,519.27	96.87	27.007	
3,900.00	3,644.94	17,358.82	6,154.42	27.67	315.95	-177.72	382.39	1,213.26	2,524.93	2,427.57	97.36	25.933	
4,000.00	3,736.47	17,435.32	6,154.91	28.51	318.02	-178.75	382.84	1,289.76	2,433.55	2,335.63	97.92	24.852	
4,100.00	3,828.00	17,526.87	6,153.75	29.34	320.51	179.85	384.07	1,381.28	2,341.47	2,243.02	98.45	23.783	
4,200.00	3,919.52	17,606.60	6,151.04	30.18	322.67	178.45	385.70	1,460.95	2,248.63	2,149.69	98.94	22.726	
4,300.00	4,011.05	17,662.26	6,148.32	31.01	324.17	177.23	385.73	1,516.54	2,155.31	2,055.85	99.46	21.670	
4,400.00	4,102.58	17,708.30	6,145.74	31.85	325.42	176.08	385.44	1,562.51	2,061.82	1,961.80	100.02	20.614	
4,500.00	4,194.11	17,759.84	6,142.48	32.68	326.81	174.63	385.16	1,613.95	1,968.16	1,867.55	100.60	19.563	
4,600.00	4,285.64	17,811.19	6,138.73	33.52	328.20	173.04	385.58	1,665.16	1,874.24	1,773.02	101.23	18.515	
4,700.00	4,377.17	17,830.74	6,137.29	34.36	328.73	172.37	385.73	1,684.65	1,780.38	1,678.33	102.05	17.446	
4,800.00	4,468.69	17,852.68	6,135.79	35.19	329.32	171.56	385.68	1,706.54	1,686.81	1,583.82	102.99	16.379	
4,900.00	4,560.22	17,928.58	6,134.84	36.03	331.38	171.07	385.78	1,719.25	1,593.46	1,488.86	104.60	15.233	
5,000.00	4,651.75	17,898.84	6,133.03	36.87	330.57	169.60	384.76	1,752.60	1,500.68	1,395.30	105.38	14.240	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 5-T4N-R62W - STATE SEVENTY HOLES 34-32-34XRLN - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 156-MWD OWSG, 1664-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,743.27	17,932.25	6,131.21	37.70	331.48	167.97	383.73	1,785.95	1,408.09	1,301.16	106.93	13.169		
5,200.00	4,834.80	17,965.67	6,129.40	38.54	332.38	166.17	382.70	1,819.31	1,315.74	1,206.92	108.82	12.090		
5,300.00	4,926.33	17,999.09	6,127.59	39.38	333.29	164.18	381.67	1,852.66	1,223.68	1,112.49	111.19	11.005		
5,400.00	5,017.86	18,032.51	6,125.78	40.21	334.19	161.95	380.64	1,886.01	1,131.98	1,017.79	114.19	9.913		
5,500.00	5,109.38	18,065.93	6,123.96	41.05	335.10	159.46	379.62	1,919.37	1,040.73	922.69	118.04	8.816		
5,600.00	5,200.91	18,099.34	6,122.15	41.89	336.01	156.68	378.59	1,952.72	950.07	826.99	123.08	7.719		
5,700.00	5,292.44	18,132.76	6,120.34	42.73	336.91	153.55	377.56	1,986.07	860.19	730.44	129.75	6.630		
5,800.00	5,383.97	18,166.18	6,118.52	43.56	337.82	150.05	376.53	2,019.43	771.34	632.64	138.70	5.561		
5,900.00	5,475.51	18,199.62	6,116.71	44.40	338.72	144.48	375.50	2,052.80	683.87	533.06	150.81	4.535		
6,000.00	5,567.37	18,233.78	6,114.86	45.19	339.65	132.48	374.45	2,086.90	594.42	431.58	162.84	3.650		
6,100.00	5,657.57	18,231.00	6,115.01	45.89	339.57	133.92	374.54	2,084.12	503.24	333.92	169.32	2.972		
6,200.00	5,743.38	18,231.00	6,115.01	46.48	339.57	140.68	374.54	2,084.12	414.02	247.40	166.62	2.485		
6,300.00	5,822.18	18,231.00	6,115.01	46.95	339.57	146.43	374.54	2,084.12	332.16	183.96	148.19	2.241		
6,400.00	5,891.60	18,231.00	6,115.01	47.31	339.57	148.90	374.54	2,084.12	268.04	153.15	114.89	2.333		
6,500.00	5,949.50	18,231.00	6,115.01	47.58	339.57	148.17	374.54	2,084.12	239.02	98.44	140.58	1.700		
6,510.78	5,954.98	18,231.00	6,115.01	47.59	339.57	147.90	374.54	2,084.12	238.72	88.80	149.92	1.592 CC		
6,600.00	5,994.15	18,231.00	6,115.01	47.76	339.57	144.22	374.54	2,084.12	258.14	23.05	235.09	1.098 Level 2		
6,700.00	6,024.17	18,231.00	6,115.01	47.86	339.57	136.32	374.54	2,084.12	316.34	15.12	301.22	1.050 Level 2, ES, SF		
6,800.00	6,038.67	18,231.00	6,115.01	47.91	339.57	123.12	374.54	2,084.12	395.50	60.16	335.34	1.179 Level 2		
6,900.00	6,040.00	18,231.00	6,115.01	47.93	339.57	116.04	374.54	2,084.12	483.73	130.61	353.12	1.370 Level 3		
7,000.00	6,040.00	18,231.00	6,115.01	47.98	339.57	116.04	374.54	2,084.12	575.87	212.70	363.17	1.586		
7,100.00	6,040.00	18,231.00	6,115.01	48.09	339.57	116.04	374.54	2,084.12	670.26	300.97	369.29	1.815		
7,200.00	6,040.00	18,231.00	6,115.01	48.23	339.57	116.04	374.54	2,084.12	766.08	392.82	373.26	2.052		
7,300.00	6,040.00	18,231.00	6,115.01	48.43	339.57	116.04	374.54	2,084.12	862.85	486.89	375.96	2.295		
7,400.00	6,040.00	18,231.00	6,115.01	48.67	339.57	116.04	374.54	2,084.12	960.28	582.40	377.87	2.541		
7,500.00	6,040.00	18,231.00	6,115.01	48.97	339.57	116.04	374.54	2,084.12	1,058.19	678.91	379.28	2.790		
7,600.00	6,040.00	18,231.00	6,115.01	49.32	339.57	116.04	374.54	2,084.12	1,156.45	776.12	380.33	3.041		
7,700.00	6,040.00	18,231.00	6,115.01	49.73	339.57	116.04	374.54	2,084.12	1,254.99	873.85	381.15	3.293		
7,800.00	6,040.00	18,231.00	6,115.01	50.19	339.57	116.04	374.54	2,084.12	1,353.75	971.96	381.79	3.546		
7,900.00	6,040.00	18,231.00	6,115.01	50.71	339.57	116.04	374.54	2,084.12	1,452.68	1,070.37	382.30	3.800		
8,000.00	6,040.00	18,231.00	6,115.01	51.29	339.57	116.04	374.54	2,084.12	1,551.74	1,169.02	382.72	4.055		
8,100.00	6,040.00	18,231.00	6,115.01	51.93	339.57	116.04	374.54	2,084.12	1,650.92	1,267.85	383.06	4.310		
8,200.00	6,040.00	18,231.00	6,115.01	52.63	339.57	116.04	374.54	2,084.12	1,750.19	1,366.84	383.35	4.566		
8,300.00	6,040.00	18,231.00	6,115.01	53.39	339.57	116.04	374.54	2,084.12	1,849.53	1,465.94	383.59	4.822		
8,400.00	6,040.00	18,231.00	6,115.01	54.20	339.57	116.04	374.54	2,084.12	1,948.95	1,565.15	383.80	5.078		
8,500.00	6,040.00	18,231.00	6,115.01	55.07	339.57	116.04	374.54	2,084.12	2,048.42	1,664.45	383.97	5.335		
8,600.00	6,040.00	18,231.00	6,115.01	55.99	339.57	116.04	374.54	2,084.12	2,147.94	1,763.81	384.13	5.592		
8,700.00	6,040.00	18,231.00	6,115.01	56.97	339.57	116.04	374.54	2,084.12	2,247.51	1,863.24	384.26	5.849		
8,800.00	6,040.00	18,231.00	6,115.01	57.99	339.57	116.04	374.54	2,084.12	2,347.11	1,962.72	384.38	6.106		
8,900.00	6,040.00	18,231.00	6,115.01	59.06	339.57	116.04	374.54	2,084.12	2,446.74	2,062.25	384.49	6.364		
9,000.00	6,040.00	18,231.00	6,115.01	60.17	339.57	116.04	374.54	2,084.12	2,546.40	2,161.82	384.58	6.621		
9,100.00	6,040.00	18,231.00	6,115.01	61.32	339.57	116.04	374.54	2,084.12	2,646.09	2,261.42	384.67	6.879		
9,200.00	6,040.00	18,231.00	6,115.01	62.51	339.57	116.04	374.54	2,084.12	2,745.80	2,361.06	384.75	7.137		
9,300.00	6,040.00	18,231.00	6,115.01	63.73	339.57	116.04	374.54	2,084.12	2,845.53	2,460.72	384.82	7.395		
9,400.00	6,040.00	18,231.00	6,115.01	64.98	339.57	116.04	374.54	2,084.12	2,945.28	2,560.40	384.88	7.652		
9,500.00	6,040.00	18,231.00	6,115.01	66.27	339.57	116.04	374.54	2,084.12	3,045.05	2,660.10	384.94	7.910		
9,600.00	6,040.00	18,231.00	6,115.01	67.58	339.57	116.04	374.54	2,084.12	3,144.83	2,759.83	385.00	8.168		
9,700.00	6,040.00	18,231.00	6,115.01	68.92	339.57	116.04	374.54	2,084.12	3,244.62	2,859.57	385.05	8.427		
9,800.00	6,040.00	18,231.00	6,115.01	70.29	339.57	116.04	374.54	2,084.12	3,344.43	2,959.33	385.10	8.685		
9,900.00	6,040.00	18,231.00	6,115.01	71.67	339.57	116.04	374.54	2,084.12	3,444.24	3,059.10	385.14	8.943		
10,000.00	6,040.00	18,231.00	6,115.01	73.08	339.57	116.04	374.54	2,084.12	3,544.07	3,158.88	385.19	9.201		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 5-T4N-R62W - STATE SEVENTY HOLES 34-32-34XRLN - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 156-MWD OWSG, 1664-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.00	6,040.00	18,231.00	6,115.01	74.51	339.57	116.04	374.54	2,084.12	3,643.91	3,258.68	385.23	9.459		
10,200.00	6,040.00	18,231.00	6,115.01	75.95	339.57	116.04	374.54	2,084.12	3,743.75	3,358.49	385.27	9.717		
10,300.00	6,040.00	18,231.00	6,115.01	77.41	339.57	116.04	374.54	2,084.12	3,843.61	3,458.30	385.31	9.975		
10,400.00	6,040.00	18,231.00	6,115.01	78.89	339.57	116.04	374.54	2,084.12	3,943.47	3,558.13	385.34	10.234		
10,500.00	6,040.00	18,231.00	6,115.01	80.38	339.57	116.04	374.54	2,084.12	4,043.34	3,657.96	385.38	10.492		
10,600.00	6,040.00	18,231.00	6,115.01	81.88	339.57	116.04	374.54	2,084.12	4,143.21	3,757.80	385.41	10.750		
10,700.00	6,040.00	18,231.00	6,115.01	83.40	339.57	116.04	374.54	2,084.12	4,243.09	3,857.64	385.45	11.008		
10,800.00	6,040.00	18,231.00	6,115.01	84.93	339.57	116.04	374.54	2,084.12	4,342.98	3,957.50	385.48	11.266		
10,900.00	6,040.00	18,231.00	6,115.01	86.47	339.57	116.04	374.54	2,084.12	4,442.87	4,057.36	385.51	11.525		
11,000.00	6,040.00	18,231.00	6,115.01	88.02	339.57	116.04	374.54	2,084.12	4,542.76	4,157.22	385.55	11.783		
11,100.00	6,040.00	18,231.00	6,115.01	89.58	339.57	116.04	374.54	2,084.12	4,642.66	4,257.09	385.58	12.041		
11,200.00	6,040.00	18,231.00	6,115.01	91.15	339.57	116.04	374.54	2,084.12	4,742.57	4,356.96	385.61	12.299		
11,300.00	6,040.00	18,231.00	6,115.01	92.73	339.57	116.04	374.54	2,084.12	4,842.48	4,456.84	385.64	12.557		
11,400.00	6,040.00	18,231.00	6,115.01	94.31	339.57	116.04	374.54	2,084.12	4,942.39	4,556.72	385.67	12.815		
11,500.00	6,040.00	18,231.00	6,115.01	95.91	339.57	116.04	374.54	2,084.12	5,042.31	4,656.60	385.70	13.073		
11,600.00	6,040.00	18,231.00	6,115.01	97.51	339.57	116.04	374.54	2,084.12	5,142.22	4,756.49	385.73	13.331		
11,700.00	6,040.00	18,231.00	6,115.01	99.11	339.57	116.04	374.54	2,084.12	5,242.15	4,856.39	385.76	13.589		
11,800.00	6,040.00	18,231.00	6,115.01	100.73	339.57	116.04	374.54	2,084.12	5,342.07	4,956.28	385.79	13.847		
11,900.00	6,040.00	18,231.00	6,115.01	102.35	339.57	116.04	374.54	2,084.12	5,442.00	5,056.18	385.82	14.105		
12,000.00	6,040.00	18,231.00	6,115.01	103.97	339.57	116.04	374.54	2,084.12	5,541.93	5,156.08	385.85	14.363		
12,100.00	6,040.00	18,231.00	6,115.01	105.60	339.57	116.04	374.54	2,084.12	5,641.86	5,255.98	385.88	14.621		
12,200.00	6,040.00	18,231.00	6,115.01	107.24	339.57	116.04	374.54	2,084.12	5,741.80	5,355.88	385.91	14.878		
12,300.00	6,040.00	18,231.00	6,115.01	108.88	339.57	116.04	374.54	2,084.12	5,841.73	5,455.79	385.94	15.136		
12,400.00	6,040.00	18,231.00	6,115.01	110.53	339.57	116.04	374.54	2,084.12	5,941.67	5,555.70	385.97	15.394		
12,500.00	6,040.00	18,231.00	6,115.01	112.18	339.57	116.04	374.54	2,084.12	6,041.62	5,655.61	386.00	15.652		
12,600.00	6,040.00	18,231.00	6,115.01	113.83	339.57	116.04	374.54	2,084.12	6,141.56	5,755.52	386.04	15.909		
12,700.00	6,040.00	18,231.00	6,115.01	115.49	339.57	116.04	374.54	2,084.12	6,241.50	5,855.44	386.07	16.167		
12,800.00	6,040.00	18,231.00	6,115.01	117.16	339.57	116.04	374.54	2,084.12	6,341.45	5,955.35	386.10	16.424		
12,900.00	6,040.00	18,231.00	6,115.01	118.82	339.57	116.04	374.54	2,084.12	6,441.40	6,055.27	386.13	16.682		
13,000.00	6,040.00	18,231.00	6,115.01	120.49	339.57	116.04	374.54	2,084.12	6,541.35	6,155.19	386.16	16.939		
13,100.00	6,040.00	18,231.00	6,115.01	122.16	339.57	116.04	374.54	2,084.12	6,641.30	6,255.11	386.19	17.197		
13,200.00	6,040.00	18,231.00	6,115.01	123.84	339.57	116.04	374.54	2,084.12	6,741.25	6,355.03	386.23	17.454		
13,300.00	6,040.00	18,231.00	6,115.01	125.52	339.57	116.04	374.54	2,084.12	6,841.21	6,454.95	386.26	17.711		
13,400.00	6,040.00	18,231.00	6,115.01	127.20	339.57	116.04	374.54	2,084.12	6,941.16	6,554.87	386.29	17.969		
13,500.00	6,040.00	18,231.00	6,115.01	128.89	339.57	116.04	374.54	2,084.12	7,041.12	6,654.80	386.32	18.226		
13,600.00	6,040.00	18,231.00	6,115.01	130.58	339.57	116.04	374.54	2,084.12	7,141.08	6,754.72	386.36	18.483		
13,700.00	6,040.00	18,231.00	6,115.01	132.27	339.57	116.04	374.54	2,084.12	7,241.04	6,854.65	386.39	18.740		
13,800.00	6,040.00	18,231.00	6,115.01	133.96	339.57	116.04	374.54	2,084.12	7,341.00	6,954.57	386.43	18.997		
13,900.00	6,040.00	18,231.00	6,115.01	135.66	339.57	116.04	374.54	2,084.12	7,440.96	7,054.50	386.46	19.254		
14,000.00	6,040.00	18,231.00	6,115.01	137.35	339.57	116.04	374.54	2,084.12	7,540.92	7,154.43	386.49	19.511		
14,100.00	6,040.00	18,231.00	6,115.01	139.05	339.57	116.04	374.54	2,084.12	7,640.89	7,254.36	386.53	19.768		
14,200.00	6,040.00	18,231.00	6,115.01	140.75	339.57	116.04	374.54	2,084.12	7,740.85	7,354.29	386.57	20.025		
14,300.00	6,040.00	18,231.00	6,115.01	142.46	339.57	116.04	374.54	2,084.12	7,840.82	7,454.22	386.60	20.281		
14,400.00	6,040.00	18,231.00	6,115.01	144.17	339.57	116.04	374.54	2,084.12	7,940.78	7,554.15	386.64	20.538		
14,500.00	6,040.00	18,231.00	6,115.01	145.87	339.57	116.04	374.54	2,084.12	8,040.75	7,654.08	386.67	20.795		
14,600.00	6,040.00	18,231.00	6,115.01	147.58	339.57	116.04	374.54	2,084.12	8,140.72	7,754.01	386.71	21.051		
14,700.00	6,040.00	18,231.00	6,115.01	149.29	339.57	116.04	374.54	2,084.12	8,240.69	7,853.94	386.75	21.308		
14,800.00	6,040.00	18,231.00	6,115.01	151.01	339.57	116.04	374.54	2,084.12	8,340.66	7,953.87	386.78	21.564		
14,900.00	6,040.00	18,231.00	6,115.01	152.72	339.57	116.04	374.54	2,084.12	8,440.63	8,053.80	386.82	21.820		
15,000.00	6,040.00	18,231.00	6,115.01	154.44	339.57	116.04	374.54	2,084.12	8,540.60	8,153.74	386.86	22.077		
15,100.00	6,040.00	18,231.00	6,115.01	156.16	339.57	116.04	374.54	2,084.12	8,640.57	8,253.67	386.90	22.333		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
SEC 5-T4N-R62W - STATE SEVENTY HOLES 34-32-34XRLN - OWB - FINAL SURVEY													Offset Well Error:	0.00 usft
Survey Program: 156-MWD OWSG, 1664-MWD OWSG														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,200.00	6,040.00	18,231.00	6,115.01	157.88	339.57	116.04	374.54	2,084.12	8,740.54	8,353.60	386.94	22.589		
15,300.00	6,040.00	18,231.00	6,115.01	159.60	339.57	116.04	374.54	2,084.12	8,840.51	8,453.54	386.98	22.845		
15,400.00	6,040.00	18,231.00	6,115.01	161.32	339.57	116.04	374.54	2,084.12	8,940.49	8,553.47	387.02	23.101		
15,500.00	6,040.00	18,231.00	6,115.01	163.04	339.57	116.04	374.54	2,084.12	9,040.46	8,653.41	387.06	23.357		
15,600.00	6,040.00	18,231.00	6,115.01	164.77	339.57	116.04	374.54	2,084.12	9,140.44	8,753.34	387.10	23.613		
15,700.00	6,040.00	18,231.00	6,115.01	166.49	339.57	116.04	374.54	2,084.12	9,240.41	8,853.27	387.14	23.869		
15,800.00	6,040.00	18,231.00	6,115.01	168.22	339.57	116.04	374.54	2,084.12	9,340.39	8,953.21	387.18	24.124		
15,900.00	6,040.00	18,231.00	6,115.01	169.95	339.57	116.04	374.54	2,084.12	9,440.36	9,053.14	387.22	24.380		
16,000.00	6,040.00	18,231.00	6,115.01	171.68	339.57	116.04	374.54	2,084.12	9,540.34	9,153.08	387.26	24.635		
16,100.00	6,040.00	18,231.00	6,115.01	173.41	339.57	116.04	374.54	2,084.12	9,640.32	9,253.01	387.30	24.891		
16,200.00	6,040.00	18,231.00	6,115.01	175.14	339.57	116.04	374.54	2,084.12	9,740.29	9,352.95	387.34	25.146		
16,300.00	6,040.00	18,231.00	6,115.01	176.88	339.57	116.04	374.54	2,084.12	9,840.27	9,452.88	387.39	25.402		
16,400.00	6,040.00	18,231.00	6,115.01	178.61	339.57	116.04	374.54	2,084.12	9,940.25	9,552.82	387.43	25.657		

# Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNRXL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNRXL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC SEC 9-T4N-R62W - ABND VERT STATE 1-10 - OWB - Design #1													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	169.37	-9,779.39	1,835.36	9,951.19					
100.00	100.00	0.00	0.00	0.13	0.00	169.37	-9,779.39	1,835.36	9,950.23	9,950.10	0.13	N/A		
135.63	135.63	9.97	-9.97	0.26	0.12	95.00	-9,779.39	1,835.36	9,950.15	9,949.77	0.38	N/A		
200.00	199.98	54.38	54.38	0.49	0.65	95.01	-9,779.39	1,835.36	9,950.28	9,949.14	1.14	8,717.504		
300.00	299.84	154.24	154.24	0.86	2.44	95.03	-9,779.39	1,835.36	9,950.74	9,947.45	3.29	3,021.960		
400.00	399.45	253.85	253.85	1.23	4.61	95.06	-9,779.39	1,835.36	9,951.51	9,945.67	5.84	1,704.704		
500.00	498.70	353.10	353.10	1.63	6.65	95.11	-9,779.39	1,835.36	9,952.60	9,944.32	8.28	1,202.094		
600.00	597.47	451.87	451.87	2.05	8.66	95.17	-9,779.39	1,835.36	9,954.02	9,943.30	10.71	929.063		
700.00	695.62	550.02	550.02	2.51	10.65	95.24	-9,779.39	1,835.36	9,955.78	9,942.62	13.16	756.556		
800.00	793.06	647.46	647.46	3.00	12.62	95.33	-9,779.39	1,835.36	9,957.91	9,942.28	15.62	637.387		
900.00	889.64	744.04	744.04	3.54	14.57	95.42	-9,779.39	1,835.36	9,960.42	9,942.31	18.11	550.001		
1,000.00	985.27	839.67	839.67	4.13	16.50	95.52	-9,779.39	1,835.36	9,963.33	9,942.71	20.62	483.117		
1,100.00	1,079.82	934.22	934.22	4.77	18.40	95.63	-9,779.39	1,835.36	9,966.67	9,943.51	23.17	430.246		
1,200.00	1,173.17	1,027.57	1,027.57	5.46	20.28	95.75	-9,779.39	1,835.36	9,970.48	9,944.74	25.74	387.386		
1,300.00	1,265.23	1,119.63	1,119.63	6.21	22.14	95.88	-9,779.39	1,835.36	9,974.77	9,946.43	28.34	351.949		
1,400.00	1,356.75	1,211.15	1,211.15	7.00	23.98	96.09	-9,779.39	1,835.36	9,979.35	9,948.38	30.97	322.261		
1,500.00	1,448.28	1,302.68	1,302.68	7.80	25.82	96.30	-9,779.39	1,835.36	9,984.09	9,950.49	33.60	297.131		
1,600.00	1,539.81	1,405.79	1,394.21	8.60	27.90	96.51	-9,779.39	1,835.36	9,989.00	9,952.52	36.48	273.845		
1,700.00	1,631.34	1,485.74	1,485.74	9.41	29.51	96.72	-9,779.39	1,835.36	9,994.06	9,955.17	38.89	256.979		
1,800.00	1,722.86	1,577.26	1,577.26	10.23	31.35	96.93	-9,779.39	1,835.36	9,999.28	9,957.74	41.54	240.709		
6,700.00	6,024.17	5,878.57	5,878.57	47.86	117.86	36.71	-9,779.39	1,835.36	9,928.06	9,762.55	165.51	59.985		
6,800.00	6,038.67	5,906.93	5,893.07	47.91	118.43	55.96	-9,779.39	1,835.36	9,830.08	9,663.84	166.24	59.132		
6,900.00	6,040.00	5,905.60	5,894.40	47.93	118.40	90.00	-9,779.39	1,835.36	9,730.39	9,564.09	166.30	58.510		
7,000.00	6,040.00	5,905.60	5,894.40	47.98	118.40	90.00	-9,779.39	1,835.36	9,630.64	9,464.25	166.39	57.881		
7,100.00	6,040.00	5,905.60	5,894.40	48.09	118.40	90.00	-9,779.39	1,835.36	9,530.88	9,364.41	166.47	57.251		
7,200.00	6,040.00	5,905.60	5,894.40	48.23	118.40	90.00	-9,779.39	1,835.36	9,431.14	9,264.57	166.56	56.622		
7,300.00	6,040.00	5,905.60	5,894.40	48.43	118.40	90.00	-9,779.39	1,835.36	9,331.40	9,164.74	166.66	55.992		
7,400.00	6,040.00	5,905.60	5,894.40	48.67	118.40	90.00	-9,779.39	1,835.36	9,231.66	9,064.91	166.75	55.362		
7,500.00	6,040.00	5,905.60	5,894.40	48.97	118.40	90.00	-9,779.39	1,835.36	9,131.93	8,965.08	166.85	54.733		
7,600.00	6,040.00	5,905.60	5,894.40	49.32	118.40	90.00	-9,779.39	1,835.36	9,032.21	8,865.26	166.95	54.103		
7,700.00	6,040.00	5,905.60	5,894.40	49.73	118.40	90.00	-9,779.39	1,835.36	8,932.49	8,765.44	167.05	53.473		
7,800.00	6,040.00	5,905.60	5,894.40	50.19	118.40	90.00	-9,779.39	1,835.36	8,832.78	8,665.62	167.15	52.842		
7,900.00	6,040.00	5,905.60	5,894.40	50.71	118.40	90.00	-9,779.39	1,835.36	8,733.07	8,565.81	167.26	52.212		
8,000.00	6,040.00	5,905.60	5,894.40	51.29	118.40	90.00	-9,779.39	1,835.36	8,633.37	8,466.00	167.37	51.582		
8,100.00	6,040.00	5,905.60	5,894.40	51.93	118.40	90.00	-9,779.39	1,835.36	8,533.68	8,366.19	167.49	50.951		
8,200.00	6,040.00	5,905.60	5,894.40	52.63	118.40	90.00	-9,779.39	1,835.36	8,434.00	8,266.39	167.60	50.321		
8,300.00	6,040.00	5,905.60	5,894.40	53.39	118.40	90.00	-9,779.39	1,835.36	8,334.32	8,166.60	167.72	49.690		
8,400.00	6,040.00	5,905.60	5,894.40	54.20	118.40	90.00	-9,779.39	1,835.36	8,234.65	8,066.80	167.85	49.060		
8,500.00	6,040.00	5,905.60	5,894.40	55.07	118.40	90.00	-9,779.39	1,835.36	8,134.99	7,967.01	167.98	48.429		
8,600.00	6,040.00	5,905.60	5,894.40	55.99	118.40	90.00	-9,779.39	1,835.36	8,035.34	7,867.23	168.11	47.799		
8,700.00	6,040.00	5,905.60	5,894.40	56.97	118.40	90.00	-9,779.39	1,835.36	7,935.70	7,767.45	168.24	47.168		
8,800.00	6,040.00	5,905.60	5,894.40	57.99	118.40	90.00	-9,779.39	1,835.36	7,836.06	7,667.68	168.38	46.537		
8,900.00	6,040.00	5,905.60	5,894.40	59.06	118.40	90.00	-9,779.39	1,835.36	7,736.44	7,567.91	168.53	45.907		
9,000.00	6,040.00	5,905.60	5,894.40	60.17	118.40	90.00	-9,779.39	1,835.36	7,636.82	7,468.15	168.67	45.276		
9,100.00	6,040.00	5,905.60	5,894.40	61.32	118.40	90.00	-9,779.39	1,835.36	7,537.22	7,368.39	168.82	44.645		
9,200.00	6,040.00	5,905.60	5,894.40	62.51	118.40	90.00	-9,779.39	1,835.36	7,437.62	7,268.64	168.98	44.015		
9,300.00	6,040.00	5,905.60	5,894.40	63.73	118.40	90.00	-9,779.39	1,835.36	7,338.04	7,168.90	169.14	43.384		
9,400.00	6,040.00	5,905.60	5,894.40	64.98	118.40	90.00	-9,779.39	1,835.36	7,238.47	7,069.16	169.31	42.753		
9,500.00	6,040.00	5,905.60	5,894.40	66.27	118.40	90.00	-9,779.39	1,835.36	7,138.91	6,969.43	169.48	42.123		
9,600.00	6,040.00	5,905.60	5,894.40	67.58	118.40	90.00	-9,779.39	1,835.36	7,039.36	6,869.71	169.66	41.492		
9,700.00	6,040.00	5,905.60	5,894.40	68.92	118.40	90.00	-9,779.39	1,835.36	6,939.83	6,769.99	169.84	40.862		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft		
Survey Program: 0-INC													SEC 9-T4N-R62W - ABND VERT STATE 1-10 - OWB - Design #1		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,800.00	6,040.00	5,905.60	5,894.40	70.29	118.40	90.00	-9,779.39	1,835.36	6,840.31	6,670.28	170.03	40.231				
9,900.00	6,040.00	5,905.60	5,894.40	71.67	118.40	90.00	-9,779.39	1,835.36	6,740.80	6,570.58	170.22	39.601				
10,000.00	6,040.00	5,905.60	5,894.40	73.08	118.40	90.00	-9,779.39	1,835.36	6,641.31	6,470.89	170.42	38.970				
10,100.00	6,040.00	5,905.60	5,894.40	74.51	118.40	90.00	-9,779.39	1,835.36	6,541.83	6,371.21	170.63	38.340				
10,200.00	6,040.00	5,905.60	5,894.40	75.95	118.40	90.00	-9,779.39	1,835.36	6,442.37	6,271.53	170.84	37.710				
10,300.00	6,040.00	5,905.60	5,894.40	77.41	118.40	90.00	-9,779.39	1,835.36	6,342.93	6,171.87	171.06	37.080				
10,400.00	6,040.00	5,905.60	5,894.40	78.89	118.40	90.00	-9,779.39	1,835.36	6,243.51	6,072.22	171.29	36.450				
10,500.00	6,040.00	5,905.60	5,894.40	80.38	118.40	90.00	-9,779.39	1,835.36	6,144.10	5,972.57	171.52	35.821				
10,600.00	6,040.00	5,905.60	5,894.40	81.88	118.40	90.00	-9,779.39	1,835.36	6,044.71	5,872.94	171.77	35.191				
10,700.00	6,040.00	5,905.60	5,894.40	83.40	118.40	90.00	-9,779.39	1,835.36	5,945.35	5,773.32	172.02	34.562				
10,800.00	6,040.00	5,905.60	5,894.40	84.93	118.40	90.00	-9,779.39	1,835.36	5,846.00	5,673.72	172.28	33.932				
10,900.00	6,040.00	5,905.60	5,894.40	86.47	118.40	90.00	-9,779.39	1,835.36	5,746.68	5,574.12	172.56	33.303				
11,000.00	6,040.00	5,905.60	5,894.40	88.02	118.40	90.00	-9,779.39	1,835.36	5,647.38	5,474.54	172.84	32.674				
11,100.00	6,040.00	5,905.60	5,894.40	89.58	118.40	90.00	-9,779.39	1,835.36	5,548.11	5,374.98	173.13	32.046				
11,200.00	6,040.00	5,905.60	5,894.40	91.15	118.40	90.00	-9,779.39	1,835.36	5,448.86	5,275.43	173.43	31.417				
11,300.00	6,040.00	5,905.60	5,894.40	92.73	118.40	90.00	-9,779.39	1,835.36	5,349.65	5,175.90	173.75	30.789				
11,400.00	6,040.00	5,905.60	5,894.40	94.31	118.40	90.00	-9,779.39	1,835.36	5,250.46	5,076.38	174.08	30.162				
11,500.00	6,040.00	5,905.60	5,894.40	95.91	118.40	90.00	-9,779.39	1,835.36	5,151.30	4,976.88	174.42	29.534				
11,600.00	6,040.00	5,905.60	5,894.40	97.51	118.40	90.00	-9,779.39	1,835.36	5,052.18	4,877.40	174.78	28.907				
11,700.00	6,040.00	5,905.60	5,894.40	99.11	118.40	90.00	-9,779.39	1,835.36	4,953.09	4,777.94	175.15	28.280				
11,800.00	6,040.00	5,905.60	5,894.40	100.73	118.40	90.00	-9,779.39	1,835.36	4,854.04	4,678.50	175.53	27.653				
11,900.00	6,040.00	5,905.60	5,894.40	102.35	118.40	90.00	-9,779.39	1,835.36	4,755.03	4,579.09	175.94	27.027				
12,000.00	6,040.00	5,905.60	5,894.40	103.97	118.40	90.00	-9,779.39	1,835.36	4,656.06	4,479.70	176.36	26.401				
12,100.00	6,040.00	5,905.60	5,894.40	105.60	118.40	90.00	-9,779.39	1,835.36	4,557.13	4,380.34	176.80	25.776				
12,200.00	6,040.00	5,905.60	5,894.40	107.24	118.40	90.00	-9,779.39	1,835.36	4,458.26	4,281.00	177.26	25.151				
12,300.00	6,040.00	5,905.60	5,894.40	108.88	118.40	90.00	-9,779.39	1,835.36	4,359.43	4,181.69	177.74	24.527				
12,400.00	6,040.00	5,905.60	5,894.40	110.53	118.40	90.00	-9,779.39	1,835.36	4,260.66	4,082.41	178.25	23.903				
12,500.00	6,040.00	5,905.60	5,894.40	112.18	118.40	90.00	-9,779.39	1,835.36	4,161.95	3,983.17	178.78	23.280				
12,600.00	6,040.00	5,905.60	5,894.40	113.83	118.40	90.00	-9,779.39	1,835.36	4,063.30	3,883.97	179.34	22.657				
12,700.00	6,040.00	5,905.60	5,894.40	115.49	118.40	90.00	-9,779.39	1,835.36	3,964.72	3,784.80	179.92	22.035				
12,800.00	6,040.00	5,905.60	5,894.40	117.16	118.40	90.00	-9,779.39	1,835.36	3,866.21	3,685.67	180.54	21.414				
12,900.00	6,040.00	5,905.60	5,894.40	118.82	118.40	90.00	-9,779.39	1,835.36	3,767.79	3,586.59	181.20	20.794				
13,000.00	6,040.00	5,905.60	5,894.40	120.49	118.40	90.00	-9,779.39	1,835.36	3,669.44	3,487.56	181.88	20.175				
13,100.00	6,040.00	5,905.60	5,894.40	122.16	118.40	90.00	-9,779.39	1,835.36	3,571.19	3,388.58	182.61	19.556				
13,200.00	6,040.00	5,905.60	5,894.40	123.84	118.40	90.00	-9,779.39	1,835.36	3,473.04	3,289.65	183.38	18.939				
13,300.00	6,040.00	5,905.60	5,894.40	125.52	118.40	90.00	-9,779.39	1,835.36	3,374.99	3,190.79	184.20	18.322				
13,400.00	6,040.00	5,905.60	5,894.40	127.20	118.40	90.00	-9,779.39	1,835.36	3,277.07	3,092.00	185.07	17.707				
13,500.00	6,040.00	5,905.60	5,894.40	128.89	118.40	90.00	-9,779.39	1,835.36	3,179.27	2,993.28	185.99	17.094				
13,600.00	6,040.00	5,905.60	5,894.40	130.58	118.40	90.00	-9,779.39	1,835.36	3,081.62	2,894.64	186.98	16.481				
13,700.00	6,040.00	5,905.60	5,894.40	132.27	118.40	90.00	-9,779.39	1,835.36	2,984.12	2,796.09	188.03	15.871				
13,800.00	6,040.00	5,905.60	5,894.40	133.96	118.40	90.00	-9,779.39	1,835.36	2,886.79	2,697.64	189.15	15.262				
13,900.00	6,040.00	5,905.60	5,894.40	135.66	118.40	90.00	-9,779.39	1,835.36	2,789.65	2,599.30	190.35	14.655				
14,000.00	6,040.00	5,905.60	5,894.40	137.35	118.40	90.00	-9,779.39	1,835.36	2,692.72	2,501.08	191.64	14.051				
14,100.00	6,040.00	5,905.60	5,894.40	139.05	118.40	90.00	-9,779.39	1,835.36	2,596.02	2,402.99	193.03	13.449				
14,200.00	6,040.00	5,905.60	5,894.40	140.75	118.40	90.00	-9,779.39	1,835.36	2,499.59	2,305.06	194.53	12.849				
14,300.00	6,040.00	5,905.60	5,894.40	142.46	118.40	90.00	-9,779.39	1,835.36	2,403.44	2,207.29	196.15	12.253				
14,400.00	6,040.00	5,905.60	5,894.40	144.17	118.40	90.00	-9,779.39	1,835.36	2,307.62	2,109.72	197.90	11.660				
14,500.00	6,040.00	5,905.60	5,894.40	145.87	118.40	90.00	-9,779.39	1,835.36	2,212.17	2,012.37	199.81	11.071				
14,600.00	6,040.00	5,905.60	5,894.40	147.58	118.40	90.00	-9,779.39	1,835.36	2,117.15	1,915.26	201.88	10.487				
14,700.00	6,040.00	5,905.60	5,894.40	149.29	118.40	90.00	-9,779.39	1,835.36	2,022.60	1,818.45	204.15	9.908				
14,800.00	6,040.00	5,905.60	5,894.40	151.01	118.40	90.00	-9,779.39	1,835.36	1,928.60	1,721.97	206.63	9.334				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-INC													Offset Well Error:		0.00 usft
SEC 9-T4N-R62W - ABND VERT STATE 1-10 - OWB - Design #1															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,900.00	6,040.00	5,905.60	5,894.40	152.72	118.40	90.00	-9,779.39	1,835.36	1,835.24	1,625.89	209.35	8.766			
15,000.00	6,040.00	5,905.60	5,894.40	154.44	118.40	90.00	-9,779.39	1,835.36	1,742.61	1,530.26	212.35	8.206			
15,100.00	6,040.00	5,905.60	5,894.40	156.16	118.40	90.00	-9,779.39	1,835.36	1,650.84	1,435.18	215.66	7.655			
15,200.00	6,040.00	5,905.60	5,894.40	157.88	118.40	90.00	-9,779.39	1,835.36	1,560.09	1,340.77	219.32	7.113			
15,300.00	6,040.00	5,905.60	5,894.40	159.60	118.40	90.00	-9,779.39	1,835.36	1,470.53	1,247.15	223.38	6.583			
15,400.00	6,040.00	5,905.60	5,894.40	161.32	118.40	90.00	-9,779.39	1,835.36	1,382.41	1,154.51	227.90	6.066			
15,500.00	6,040.00	5,905.60	5,894.40	163.04	118.40	90.00	-9,779.39	1,835.36	1,296.02	1,063.10	232.92	5.564			
15,600.00	6,040.00	5,905.60	5,894.40	164.77	118.40	90.00	-9,779.39	1,835.36	1,211.71	973.22	238.50	5.081			
15,700.00	6,040.00	5,905.60	5,894.40	166.49	118.40	90.00	-9,779.39	1,835.36	1,129.98	885.29	244.68	4.618			
15,800.00	6,040.00	5,905.60	5,894.40	168.22	118.40	90.00	-9,779.39	1,835.36	1,051.40	799.90	251.50	4.181			
15,900.00	6,040.00	5,905.60	5,894.40	169.95	118.40	90.00	-9,779.39	1,835.36	976.75	717.83	258.92	3.772			
16,000.00	6,040.00	5,905.60	5,894.40	171.68	118.40	90.00	-9,779.39	1,835.36	906.99	640.13	266.85	3.399			
16,100.00	6,040.00	5,905.60	5,894.40	173.41	118.40	90.00	-9,779.39	1,835.36	843.34	568.27	275.07	3.066			
16,200.00	6,040.00	5,905.60	5,894.40	175.14	118.40	90.00	-9,779.39	1,835.36	787.28	504.14	283.14	2.781			
16,300.00	6,040.00	5,905.60	5,894.40	176.88	118.40	90.00	-9,779.39	1,835.36	740.55	450.15	290.39	2.550			
16,400.00	6,040.00	5,905.60	5,894.40	178.61	118.40	90.00	-9,779.39	1,835.36	704.98	409.07	295.91	2.382			
16,500.00	6,040.00	5,905.60	5,894.40	180.34	118.40	90.00	-9,779.39	1,835.36	682.35	383.65	298.70	2.284			
16,600.00	6,040.00	5,905.60	5,894.40	182.08	118.40	90.00	-9,779.39	1,835.36	673.94	375.96	297.98	2.262	ES, SF		
16,607.03	6,040.00	5,905.60	5,894.40	182.20	118.40	90.00	-9,779.39	1,835.36	673.90	376.11	297.79	2.263	CC		
16,700.00	6,040.00	5,905.60	5,894.40	183.82	118.40	90.00	-9,779.39	1,835.36	680.28	386.74	293.55	2.317			
16,800.00	6,040.00	5,905.60	5,894.40	185.56	118.40	90.00	-9,779.39	1,835.36	700.98	415.10	285.88	2.452			
16,865.66	6,040.00	5,905.60	5,894.40	186.70	118.40	90.00	-9,779.39	1,835.36	721.82	442.26	279.56	2.582			

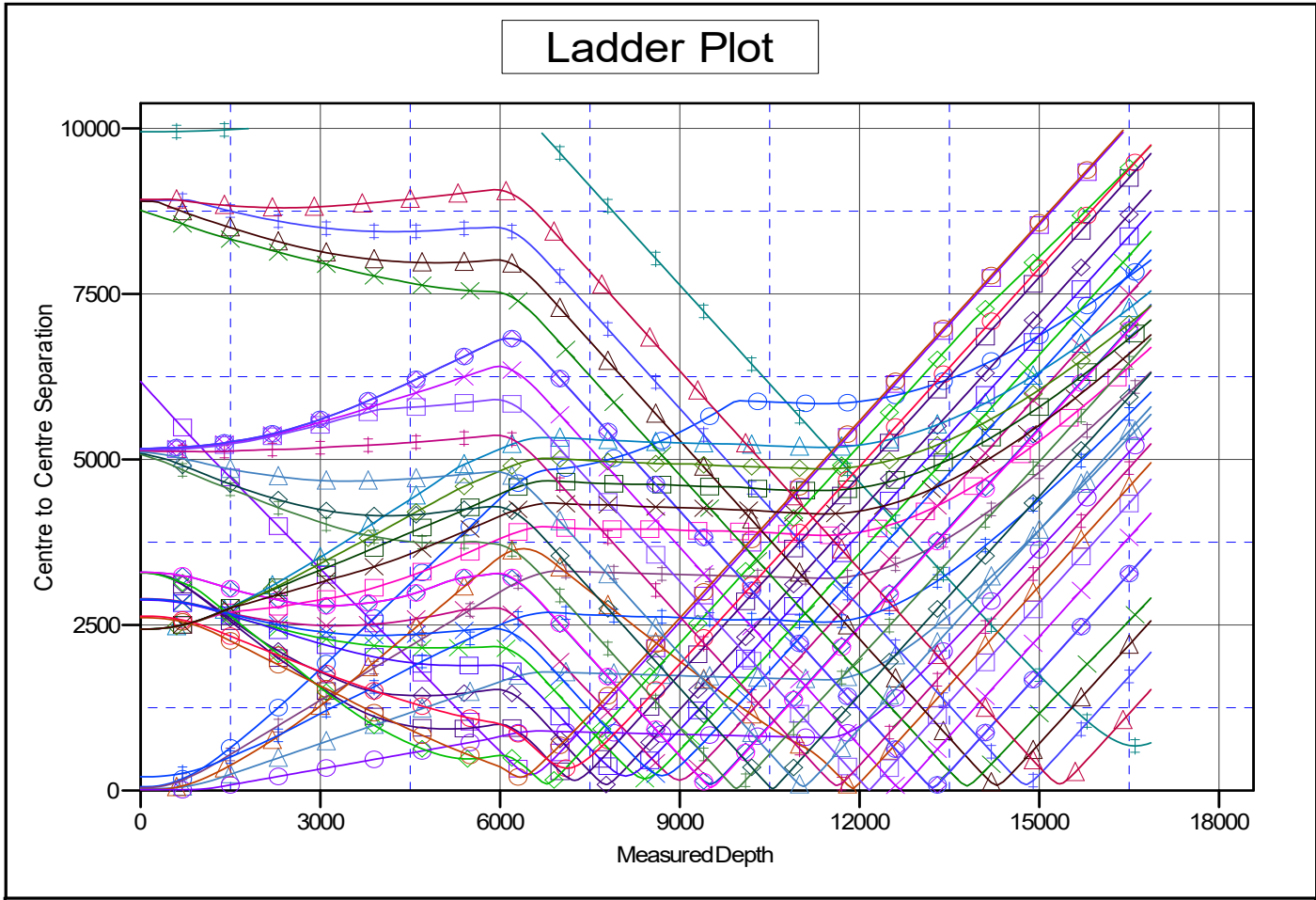
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 4574.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: STATE SEVENTY HOLES U-Y-10HNXRL  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.77°



### LEGEND

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> STATE SEVENTYHOLES 34-32-34XRLN OWB, FINAL SURVEY V0</li> <li><span style="color: green;">■</span> ABND VERT STATE 1-10, OWB, Design# 1 V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES P41-T 44-4HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CS, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ STATE 4-62-2-3228CH2, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES P31-T 34-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: blue;">■</span> STATE SEVENTYHOLES 21-24-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: green;">■</span> EXIST HZ STATESEVENTY HOLES F-J-3HNB, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-2-330C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-609CN, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ STATE 4-62-2-172CH2, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES Y-E-10HNXRL, OWB, PROPOSAL 1 V0</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-340C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-2-1609CN, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES P41-T 44-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: blue;">■</span> EXIST HZ ANSCHUTZ STATE 4-62-2-172BH2, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-2-0108C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-2-330C, STK 1, STK 1 V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-609CS, STK 1, STK 1 V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ STATE 4-62-2-3228BH2, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-325C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ STATESEVENTY HOLES K-O-3HNB, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-724C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ STATESEVENTY HOLES A-E-3HNB, OWB, F. FINAL SURVEY V0</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-02-841CN, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-0108C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ ANSCHUTZ WINDMILL 10-3H, OWB, F. FINAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ STATESEVENTY HOLES A-11-142HNB, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ STATESEVENTY HOLES A-11-E-143HNC, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-609CS, OWB, F. FINAL SURVEY V0</li> <li><span style="color: blue;">■</span> ABND VERT STATE #1, OWB, Design# V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-02-841CS, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ STATESEVENTY HOLES F-11-J-3HNC, OWB, F. FINAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-11-841CN, OWB, F. FINAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-02-857C, OWB, F. FINAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ FED 4-62-02-856C, OWB, F. FINAL SURVEY V0</li> </ul> |
|---|--|--|

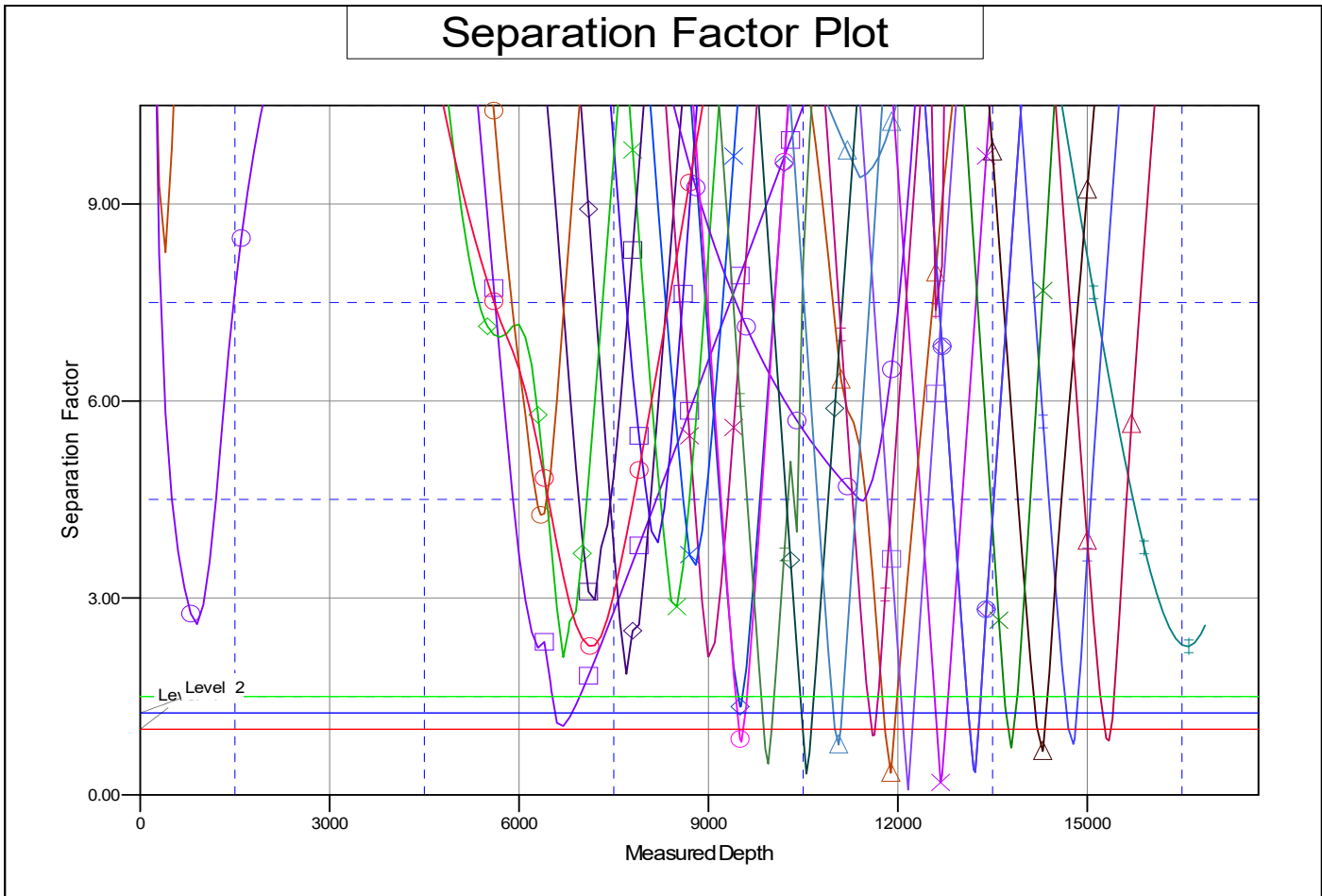
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE SEVENTY HOLES U-Y-10HNXRL
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4574.00usft
<b>Reference Site:</b>	SEC 3-T4N-R62W	<b>MD Reference:</b>	KB 25' @ 4574.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	STATE SEVENTY HOLES U-Y-10HNXRL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OWB	<b>Database:</b>	EDT_32Bit_ODBC
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 4574.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: STATE SEVENTY HOLES U-Y-10HNXRL  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.77°



### LEGEND

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| <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> STATE SEVENTYHOLES 34-32-34XRUN, OWB, FINAL SURVEY V0</li> <li><span style="color: green;">■</span> ABND VERT STATE 1-10, OWB, Design#1 V0</li> <li><span style="color: blue;">■</span> STATE SEVENTYHOLES P41-T 44-4HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-2-1699CS, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ ANSCHUTZ Z STATE 4-62-2-3228CH2, OWB, F INAL SURVEY V0</li> <li><span style="color: brown;">■</span> STATE SEVENTYHOLES P31-T 34-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: grey;">■</span> STATE SEVENTYHOLES 21-24-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: pink;">■</span> EXIST HZ STATE SEVENTY HOLES F-J-3HNB, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-2-3300C, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-609CN, OWB, F INAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ Z STATE 4-62-2-1728H2, OWB, F INAL SURVEY V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES Y-E-10HNXRL, OWB, PROPOSAL 1 V0</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-340C, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-2-1699CN, OWB, F INAL SURVEY V0</li> <li><span style="color: red;">■</span> STATE SEVENTYHOLES P41-T 44-3HN, OWB, PROPOSAL 1 V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ Z STATE 4-62-2-1728H2, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-2-0108C, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-2-3300C, STK 1, STK 1 V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-6099CS, STK 1, STK 1 V0</li> <li><span style="color: green;">■</span> EXIST HZ ANSCHUTZ Z STATE 4-62-2-3228H2, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-3255C, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ STATE SEVENTY HOLES K-O-3HNB, OWB, F INAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-924C, OWB, F INAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ STATE SEVENTY HOLES A-E-3HNB, OWB, F INAL SURVEY V0</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: green;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-02-841CN, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-008C, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ ANSCHUTZ Z WINDMILL 1034H, OWB, F INAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ STATE SEVENTY HOLES 11-148HNB, OWB, F INAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ STATE SEVENTY HOLES A11-E143HNC, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-6099CS, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> ABND VERT STATE #1, OWB, Design# V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-02-841CS, OWB, F INAL SURVEY V0</li> <li><span style="color: green;">■</span> EXIST HZ STATE SEVENTY HOLES F11-JW-3HNC, OWB, F INAL SURVEY V0</li> <li><span style="color: blue;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-11-841CN, OWB, F INAL SURVEY V0</li> <li><span style="color: purple;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-02-857C, OWB, F INAL SURVEY V0</li> <li><span style="color: red;">■</span> EXIST HZ RSU ANSCHUTZ Z FED 4-62-02-866C, OWB, F INAL SURVEY V0</li> </ul> |
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation