

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 5-T5N-R61W**

**PRONGHORN K-5 FED 32N-20-06**

**OWB**

**PROPOSAL 1**

## **Anticollision Report**

**22 July, 2024**

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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>	Unknown AC limit!	<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>	<b>Date</b>	7/22/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,028.23	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

<b>Summary</b>						
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 5-T5N-R61W						
ABND VERT BOWMAN 32-1 - OWB - Design #1	200.00	135.00	2,789.29	2,786.66	1,061.808	CC
ABND VERT BOWMAN 32-1 - OWB - Design #1	300.00	234.98	2,790.50	2,785.30	536.927	ES
ABND VERT BOWMAN 32-1 - OWB - Design #1	7,300.00	6,018.00	3,099.37	2,944.74	20.043	SF
ABND VERT FURROW 1 - OWB - Design #1	13,167.74	6,093.00	1,694.81	1,438.88	6.622	CC
ABND VERT FURROW 1 - OWB - Design #1	13,200.00	6,093.00	1,695.11	1,438.75	6.612	ES
ABND VERT FURROW 1 - OWB - Design #1	13,300.00	6,093.00	1,699.96	1,442.55	6.604	SF
ABND VERT PRONGHORN 32-5 - OWB - GYRO	200.00	153.36	1,737.13	1,736.16	1,788.050	CC
ABND VERT PRONGHORN 32-5 - OWB - GYRO	204.45	157.56	1,737.13	1,736.13	1,733.653	ES
ABND VERT PRONGHORN 32-5 - OWB - GYRO	5,600.00	5,400.00	2,003.81	1,964.50	50.981	SF
ABND VERT PRONGHORN 41-6 - OWB - Design #1	200.00	124.00	3,947.41	3,945.06	1,679.852	CC
ABND VERT PRONGHORN 41-6 - OWB - Design #1	300.00	223.98	3,949.05	3,944.10	798.043	ES
ABND VERT PRONGHORN 41-6 - OWB - Design #1	6,400.00	6,006.38	4,470.96	4,326.41	30.931	SF
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,571.86	10,624.00	2,378.80	2,329.74	48.489	CC
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,600.00	10,624.00	2,378.97	2,329.47	48.061	ES
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	8,600.00	10,624.00	3,126.03	2,996.43	24.120	SF
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	206.16	140.52	2,799.37	2,798.47	3,132.220	CC, ES
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	7,800.00	5,638.00	3,831.12	3,777.38	71.296	SF
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	5,928.94	10,762.00	2,305.73	2,204.58	22.796	CC, ES, SF
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	5,819.00	16,154.00	1,743.90	1,554.74	9.219	CC, ES, SF
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	5,764.03	16,242.00	3,680.43	3,481.86	18.534	CC
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	5,800.00	16,242.00	3,680.74	3,481.84	18.505	ES
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	6,000.00	16,242.00	3,693.45	3,493.04	18.429	SF
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,789.21	16,091.00	2,453.52	2,258.16	12.559	CC
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,800.00	16,091.00	2,453.57	2,258.13	12.554	ES
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,900.00	16,091.00	2,458.22	2,262.32	12.549	SF
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	220.11	211.89	176.00	174.94	165.112	CC, ES
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	5,700.00	5,703.00	979.43	939.90	24.774	SF
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	5,737.04	16,045.00	4,987.63	4,791.54	25.435	CC, ES
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	6,000.00	16,045.00	4,999.39	4,801.92	25.318	SF
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,710.03	10,650.00	4,657.97	4,466.24	24.294	CC
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,800.00	10,650.00	4,658.84	4,465.62	24.111	ES
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	16,028.23	6,361.00	4,750.22	4,545.34	23.185	SF
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	13,631.51	8,782.89	4,159.34	3,966.52	21.571	CC
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	16,028.23	5,976.00	4,166.85	3,962.73	20.414	ES, SF
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	311.78	311.00	75.05	73.00	36.635	CC, ES
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	13,100.00	13,152.35	3,224.62	2,966.54	12.495	SF
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	299.41	299.65	58.45	56.69	33.218	CC

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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 Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 5-T5N-R61W						
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	300.00	300.22	58.45	56.68	33.141	ES
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	16,028.23	16,318.96	2,299.55	1,931.76	6.252	SF
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	469.53	468.95	41.19	38.21	13.819	CC, ES
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	16,028.23	16,161.74	1,724.65	1,356.93	4.690	SF
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	495.35	495.18	22.95	19.80	7.287	CC, ES
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	16,028.23	16,063.34	1,149.77	782.07	3.127	SF
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	394.65	394.50	13.40	10.76	5.066	CC
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	400.00	399.84	13.41	10.72	4.995	ES
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	16,028.23	16,013.13	574.88	207.22	1.564	SF
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	220.40	220.47	14.62	13.22	10.467	CC
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	300.00	300.00	15.15	13.19	7.708	ES
PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL	16,028.23	16,094.59	574.85	206.67	1.561	SF
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	220.90	221.02	29.63	28.23	21.161	CC
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	300.00	300.07	30.10	28.13	15.311	ES
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	16,028.23	16,218.62	1,149.71	781.30	3.121	SF

Offset Design													SEC 5-T5N-R61W - ABND VERT BOWMAN 32-1 - 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										
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				
100.00	100.00	35.00	35.00	0.27	0.42	-70.08	950.28	-2,622.42	2,789.29	2,788.60	0.69	4,052.835					
200.00	200.00	135.00	135.00	0.63	2.00	-70.08	950.28	-2,622.42	2,789.29	2,786.66	2.63	1,061.808	CC				
300.00	299.98	234.98	234.98	0.98	4.21	-133.83	950.28	-2,622.42	2,790.50	2,785.30	5.20	536.927	ES				
400.00	399.84	334.84	334.84	1.34	6.28	-133.85	950.28	-2,622.42	2,794.13	2,786.51	7.62	366.775					
500.00	499.55	434.55	434.55	1.71	8.31	-133.95	950.28	-2,622.42	2,799.40	2,789.39	10.01	279.594					
600.00	599.25	534.25	534.25	2.08	10.33	-134.06	950.28	-2,622.42	2,804.74	2,792.34	12.40	226.258					
700.00	698.96	633.96	633.96	2.45	12.35	-134.18	950.28	-2,622.42	2,810.08	2,795.31	14.78	190.171					
800.00	798.67	733.67	733.67	2.83	14.36	-134.29	950.28	-2,622.42	2,815.44	2,798.29	17.16	164.116					
900.00	898.37	833.37	833.37	3.21	16.37	-134.40	950.28	-2,622.42	2,820.81	2,801.28	19.53	144.415					
1,000.00	998.08	933.08	933.08	3.58	18.38	-134.51	950.28	-2,622.42	2,826.19	2,804.28	21.91	128.995					
1,100.00	1,097.78	1,032.78	1,032.78	3.96	20.39	-134.62	950.28	-2,622.42	2,831.57	2,807.29	24.29	116.596					
1,200.00	1,197.49	1,132.49	1,132.49	4.34	22.40	-134.73	950.28	-2,622.42	2,836.97	2,810.31	26.66	106.409					
1,300.00	1,297.19	1,232.19	1,232.19	4.72	24.40	-134.84	950.28	-2,622.42	2,842.38	2,813.35	29.04	97.890					
1,400.00	1,396.90	1,331.90	1,331.90	5.10	26.41	-134.95	950.28	-2,622.42	2,847.80	2,816.39	31.41	90.661					
1,500.00	1,496.60	1,431.60	1,431.60	5.47	28.42	-135.06	950.28	-2,622.42	2,853.23	2,819.45	33.79	84.449					
1,600.00	1,596.31	1,531.31	1,531.31	5.85	30.42	-135.17	950.28	-2,622.42	2,858.67	2,822.51	36.16	79.054					
1,700.00	1,696.02	1,631.02	1,631.02	6.23	32.43	-135.27	950.28	-2,622.42	2,864.12	2,825.59	38.54	74.324					
1,800.00	1,795.72	1,730.72	1,730.72	6.61	34.44	-135.38	950.28	-2,622.42	2,869.59	2,828.68	40.91	70.144					
1,900.00	1,895.43	1,830.43	1,830.43	6.99	36.44	-135.49	950.28	-2,622.42	2,875.06	2,831.77	43.28	66.423					
2,000.00	1,995.13	1,930.13	1,930.13	7.37	38.45	-135.60	950.28	-2,622.42	2,880.54	2,834.88	45.66	63.089					
2,100.00	2,094.84	2,029.84	2,029.84	7.75	40.45	-135.70	950.28	-2,622.42	2,886.03	2,838.00	48.03	60.085					
2,200.00	2,194.54	2,129.54	2,129.54	8.13	42.46	-135.81	950.28	-2,622.42	2,891.53	2,841.12	50.41	57.365					
2,300.00	2,294.25	2,229.25	2,229.25	8.51	44.47	-135.91	950.28	-2,622.42	2,897.04	2,844.26	52.78	54.889					
2,400.00	2,393.95	2,328.95	2,328.95	8.89	46.47	-136.02	950.28	-2,622.42	2,902.56	2,847.41	55.15	52.627					
2,500.00	2,493.66	2,428.66	2,428.66	9.26	48.48	-136.12	950.28	-2,622.42	2,908.09	2,850.56	57.53	50.552					
2,600.00	2,593.37	2,528.37	2,528.37	9.64	50.48	-136.23	950.28	-2,622.42	2,913.63	2,853.73	59.90	48.641					
2,700.00	2,693.07	2,628.07	2,628.07	10.02	52.49	-136.33	950.28	-2,622.42	2,919.18	2,856.90	62.27	46.876					
2,800.00	2,792.78	2,727.78	2,727.78	10.40	54.49	-136.44	950.28	-2,622.42	2,924.74	2,860.09	64.65	45.241					

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT BOWMAN 32-1 - 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)	Separation Factor		
2,900.00	2,892.48	2,827.48	2,827.48	10.78	56.50	-136.54	950.28	-2,622.42	2,930.31	2,863.29	67.02	43.722		
3,000.00	2,992.19	2,927.19	2,927.19	11.16	58.50	-136.64	950.28	-2,622.42	2,935.88	2,866.49	69.39	42.307		
3,100.00	3,091.89	3,026.89	3,026.89	11.54	60.51	-136.74	950.28	-2,622.42	2,941.47	2,869.70	71.77	40.986		
3,200.00	3,191.60	3,126.60	3,126.60	11.92	62.51	-136.85	950.28	-2,622.42	2,947.07	2,872.93	74.14	39.750		
3,300.00	3,291.31	3,226.31	3,226.31	12.30	64.52	-136.95	950.28	-2,622.42	2,952.67	2,876.16	76.51	38.590		
3,400.00	3,391.01	3,326.01	3,326.01	12.68	66.53	-137.05	950.28	-2,622.42	2,958.29	2,879.40	78.89	37.501		
3,500.00	3,490.72	3,425.72	3,425.72	13.06	68.53	-137.15	950.28	-2,622.42	2,963.91	2,882.65	81.26	36.475		
3,600.00	3,590.42	3,525.42	3,525.42	13.44	70.54	-137.25	950.28	-2,622.42	2,969.55	2,885.92	83.63	35.507		
3,700.00	3,690.13	3,625.13	3,625.13	13.82	72.54	-137.35	950.28	-2,622.42	2,975.19	2,889.19	86.00	34.593		
3,800.00	3,789.83	3,724.83	3,724.83	14.19	74.55	-137.45	950.28	-2,622.42	2,980.84	2,892.46	88.38	33.729		
3,900.00	3,889.54	3,824.54	3,824.54	14.57	76.55	-137.55	950.28	-2,622.42	2,986.50	2,895.75	90.75	32.909		
4,000.00	3,989.24	3,924.24	3,924.24	14.95	78.56	-137.65	950.28	-2,622.42	2,992.17	2,899.05	93.12	32.132		
4,100.00	4,088.95	4,023.95	4,023.95	15.33	80.56	-137.75	950.28	-2,622.42	2,997.85	2,902.36	95.49	31.393		
4,200.00	4,188.66	4,123.66	4,123.66	15.71	82.57	-137.84	950.28	-2,622.42	3,003.54	2,905.67	97.87	30.690		
4,300.00	4,288.36	4,223.36	4,223.36	16.09	84.57	-137.94	950.28	-2,622.42	3,009.23	2,908.99	100.24	30.020		
4,400.00	4,388.07	4,323.07	4,323.07	16.47	86.58	-138.04	950.28	-2,622.42	3,014.94	2,912.33	102.61	29.382		
4,500.00	4,487.77	4,422.77	4,422.77	16.85	88.58	-138.14	950.28	-2,622.42	3,020.65	2,915.67	104.98	28.772		
4,600.00	4,587.48	4,522.48	4,522.48	17.23	90.59	-138.23	950.28	-2,622.42	3,026.37	2,919.02	107.36	28.190		
4,700.00	4,687.18	4,622.18	4,622.18	17.61	92.59	-138.33	950.28	-2,622.42	3,032.11	2,922.38	109.73	27.633		
4,800.00	4,786.89	4,721.89	4,721.89	17.99	94.60	-138.43	950.28	-2,622.42	3,037.85	2,925.74	112.10	27.099		
4,900.00	4,886.59	4,821.59	4,821.59	18.37	96.60	-138.52	950.28	-2,622.42	3,043.59	2,929.12	114.47	26.588		
5,000.00	4,986.30	4,921.30	4,921.30	18.75	98.61	-138.62	950.28	-2,622.42	3,049.35	2,932.50	116.85	26.097		
5,100.00	5,086.01	5,021.01	5,021.01	19.13	100.61	-138.71	950.28	-2,622.42	3,055.11	2,935.90	119.22	25.626		
5,200.00	5,185.71	5,120.71	5,120.71	19.51	102.62	-138.81	950.28	-2,622.42	3,060.89	2,939.30	121.59	25.174		
5,300.00	5,285.42	5,220.42	5,220.42	19.89	104.62	-138.90	950.28	-2,622.42	3,066.67	2,942.71	123.96	24.739		
5,400.00	5,385.12	5,320.12	5,320.12	20.26	106.63	-139.00	950.28	-2,622.42	3,072.46	2,946.13	126.33	24.320		
5,500.00	5,484.83	5,419.83	5,419.83	20.64	108.63	-139.09	950.28	-2,622.42	3,078.26	2,949.55	128.70	23.917		
5,600.00	5,584.37	5,519.37	5,519.37	21.03	110.64	-103.71	950.28	-2,622.42	3,083.43	2,952.35	131.08	23.524		
5,700.00	5,681.71	5,616.71	5,616.71	21.43	112.59	-88.66	950.28	-2,622.42	3,084.76	2,951.32	133.44	23.117		
5,800.00	5,773.87	5,708.87	5,708.87	21.85	114.45	-85.09	950.28	-2,622.42	3,082.10	2,946.36	135.73	22.707		
5,900.00	5,858.06	5,793.06	5,793.06	22.29	116.14	-84.46	950.28	-2,622.42	3,076.09	2,938.18	137.91	22.305		
6,000.00	5,931.71	5,866.71	5,866.71	22.78	117.62	-85.09	950.28	-2,622.42	3,067.66	2,927.74	139.92	21.924		
6,100.00	5,992.59	5,927.59	5,927.59	23.33	118.85	-86.29	950.28	-2,622.42	3,057.88	2,916.14	141.74	21.573		
6,200.00	6,038.86	5,973.86	5,973.86	23.96	119.78	-87.65	950.28	-2,622.42	3,047.85	2,904.51	143.34	21.263		
6,300.00	6,069.09	6,004.09	6,004.09	24.69	120.38	-88.89	950.28	-2,622.42	3,038.56	2,893.89	144.68	21.003		
6,400.00	6,082.38	6,017.38	6,017.38	25.49	120.65	-89.82	950.28	-2,622.42	3,030.79	2,885.07	145.72	20.798		
6,500.00	6,083.00	6,018.00	6,018.00	26.37	120.66	-90.00	950.28	-2,622.42	3,025.34	2,878.77	146.57	20.641		
6,600.00	6,083.00	6,018.00	6,018.00	27.33	120.66	-90.00	950.28	-2,622.42	3,023.13	2,875.67	147.46	20.501		
6,616.59	6,083.00	6,018.00	6,018.00	27.50	120.66	-90.00	950.28	-2,622.42	3,023.09	2,875.47	147.62	20.479		
6,700.00	6,083.00	6,018.00	6,018.00	28.37	120.66	-90.00	950.28	-2,622.42	3,024.24	2,875.83	148.41	20.377		
6,800.00	6,083.00	6,018.00	6,018.00	29.48	120.66	-90.00	950.28	-2,622.42	3,028.65	2,879.25	149.40	20.272		
6,900.00	6,083.00	6,018.00	6,018.00	30.66	120.66	-90.00	950.28	-2,622.42	3,036.34	2,885.92	150.42	20.185		
7,000.00	6,083.00	6,018.00	6,018.00	31.89	120.66	-90.00	950.28	-2,622.42	3,047.31	2,895.84	151.47	20.118		
7,100.00	6,083.00	6,018.00	6,018.00	33.17	120.66	-90.00	950.28	-2,622.42	3,061.49	2,908.97	152.52	20.072		
7,200.00	6,083.00	6,018.00	6,018.00	34.49	120.66	-90.00	950.28	-2,622.42	3,078.87	2,925.29	153.58	20.047		
7,300.00	6,083.00	6,018.00	6,018.00	35.85	120.66	-90.00	950.28	-2,622.42	3,099.37	2,944.74	154.64	20.043 SF		
7,400.00	6,083.00	6,018.00	6,018.00	37.25	120.66	-90.00	950.28	-2,622.42	3,122.95	2,967.27	155.68	20.060		
7,500.00	6,083.00	6,018.00	6,018.00	38.67	120.66	-90.00	950.28	-2,622.42	3,149.52	2,992.82	156.70	20.099		
7,600.00	6,083.00	6,018.00	6,018.00	40.13	120.66	-90.00	950.28	-2,622.42	3,179.02	3,021.31	157.70	20.158		
7,700.00	6,083.00	6,018.00	6,018.00	41.61	120.66	-90.00	950.28	-2,622.42	3,211.36	3,052.68	158.68	20.238		
7,800.00	6,083.00	6,018.00	6,018.00	43.11	120.66	-90.00	950.28	-2,622.42	3,246.46	3,086.84	159.63	20.338		
7,900.00	6,083.00	6,018.00	6,018.00	44.63	120.66	-90.00	950.28	-2,622.42	3,284.24	3,123.69	160.54	20.457		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT BOWMAN 32-1 - 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)	Separation Factor		
8,000.00	6,083.00	6,018.00	6,018.00	46.17	120.66	-90.00	950.28	-2,622.42	3,324.59	3,163.17	161.42	20.596		
8,100.00	6,083.00	6,018.00	6,018.00	47.73	120.66	-90.00	950.28	-2,622.42	3,367.43	3,205.16	162.27	20.752		
8,200.00	6,083.00	6,018.00	6,018.00	49.30	120.66	-90.00	950.28	-2,622.42	3,412.66	3,249.58	163.08	20.927		
8,300.00	6,083.00	6,018.00	6,018.00	50.88	120.66	-90.00	950.28	-2,622.42	3,460.19	3,296.34	163.85	21.118		
8,400.00	6,083.00	6,018.00	6,018.00	52.48	120.66	-90.00	950.28	-2,622.42	3,509.93	3,345.35	164.59	21.326		
8,500.00	6,083.00	6,018.00	6,018.00	54.09	120.66	-90.00	950.28	-2,622.42	3,561.78	3,396.50	165.29	21.549		
8,600.00	6,083.00	6,018.00	6,018.00	55.70	120.66	-90.00	950.28	-2,622.42	3,615.66	3,449.71	165.95	21.788		
8,700.00	6,083.00	6,018.00	6,018.00	57.33	120.66	-90.00	950.28	-2,622.42	3,671.47	3,504.89	166.58	22.040		
8,800.00	6,083.00	6,018.00	6,018.00	58.96	120.66	-90.00	950.28	-2,622.42	3,729.12	3,561.95	167.18	22.307		
8,900.00	6,083.00	6,018.00	6,018.00	60.61	120.66	-90.00	950.28	-2,622.42	3,788.54	3,620.80	167.74	22.586		
9,000.00	6,083.00	6,018.00	6,018.00	62.26	120.66	-90.00	950.28	-2,622.42	3,849.64	3,681.37	168.27	22.877		
9,100.00	6,083.00	6,018.00	6,018.00	63.91	120.66	-90.00	950.28	-2,622.42	3,912.34	3,743.56	168.77	23.181		
9,200.00	6,083.00	6,018.00	6,018.00	65.58	120.66	-90.00	950.28	-2,622.42	3,976.57	3,807.32	169.25	23.495		
9,300.00	6,083.00	6,018.00	6,018.00	67.24	120.66	-90.00	950.28	-2,622.42	4,042.25	3,872.55	169.70	23.821		
9,400.00	6,083.00	6,018.00	6,018.00	68.92	120.66	-90.00	950.28	-2,622.42	4,109.31	3,939.20	170.12	24.156		
9,500.00	6,083.00	6,018.00	6,018.00	70.60	120.66	-90.00	950.28	-2,622.42	4,177.69	4,007.18	170.51	24.501		
9,600.00	6,083.00	6,018.00	6,018.00	72.28	120.66	-90.00	950.28	-2,622.42	4,247.33	4,076.44	170.89	24.855		
9,700.00	6,083.00	6,018.00	6,018.00	73.97	120.66	-90.00	950.28	-2,622.42	4,318.16	4,146.92	171.24	25.218		
9,800.00	6,083.00	6,018.00	6,018.00	75.66	120.66	-90.00	950.28	-2,622.42	4,390.12	4,218.56	171.57	25.588		
9,900.00	6,083.00	6,018.00	6,018.00	77.35	120.66	-90.00	950.28	-2,622.42	4,463.17	4,291.29	171.88	25.967		
10,000.00	6,083.00	6,018.00	6,018.00	79.05	120.66	-90.00	950.28	-2,622.42	4,537.24	4,365.07	172.17	26.353		
10,100.00	6,083.00	6,018.00	6,018.00	80.75	120.66	-90.00	950.28	-2,622.42	4,612.29	4,439.84	172.45	26.746		
10,200.00	6,083.00	6,018.00	6,018.00	82.46	120.66	-90.00	950.28	-2,622.42	4,688.27	4,515.57	172.71	27.146		
10,300.00	6,083.00	6,018.00	6,018.00	84.17	120.66	-90.00	950.28	-2,622.42	4,765.14	4,592.19	172.95	27.552		
10,400.00	6,083.00	6,018.00	6,018.00	85.88	120.66	-90.00	950.28	-2,622.42	4,842.86	4,669.68	173.18	27.964		
10,500.00	6,083.00	6,018.00	6,018.00	87.59	120.66	-90.00	950.28	-2,622.42	4,921.38	4,747.98	173.40	28.382		
10,600.00	6,083.00	6,018.00	6,018.00	89.30	120.66	-90.00	950.28	-2,622.42	5,000.66	4,827.06	173.60	28.805		
10,700.00	6,083.00	6,018.00	6,018.00	91.02	120.66	-90.00	950.28	-2,622.42	5,080.68	4,906.88	173.80	29.233		
10,800.00	6,083.00	6,018.00	6,018.00	92.74	120.66	-90.00	950.28	-2,622.42	5,161.40	4,987.42	173.98	29.667		
10,900.00	6,083.00	6,018.00	6,018.00	94.46	120.66	-90.00	950.28	-2,622.42	5,242.77	5,068.62	174.15	30.105		
11,000.00	6,083.00	6,018.00	6,018.00	96.19	120.66	-90.00	950.28	-2,622.42	5,324.79	5,150.47	174.32	30.547		
11,100.00	6,083.00	6,018.00	6,018.00	97.91	120.66	-90.00	950.28	-2,622.42	5,407.41	5,232.94	174.47	30.993		
11,200.00	6,083.00	6,018.00	6,018.00	99.64	120.66	-90.00	950.28	-2,622.42	5,490.60	5,315.99	174.62	31.444		
11,300.00	6,083.00	6,018.00	6,018.00	101.37	120.66	-90.00	950.28	-2,622.42	5,574.35	5,399.60	174.75	31.898		
11,400.00	6,083.00	6,018.00	6,018.00	103.10	120.66	-90.00	950.28	-2,622.42	5,658.63	5,483.75	174.88	32.356		
11,500.00	6,083.00	6,018.00	6,018.00	104.83	120.66	-90.00	950.28	-2,622.42	5,743.41	5,568.40	175.01	32.818		
11,600.00	6,083.00	6,018.00	6,018.00	106.56	120.66	-90.00	950.28	-2,622.42	5,828.68	5,653.55	175.13	33.283		
11,700.00	6,083.00	6,018.00	6,018.00	108.30	120.66	-90.00	950.28	-2,622.42	5,914.40	5,739.16	175.24	33.751		
11,800.00	6,083.00	6,018.00	6,018.00	110.03	120.66	-90.00	950.28	-2,622.42	6,000.57	5,825.22	175.34	34.222		
11,900.00	6,083.00	6,018.00	6,018.00	111.77	120.66	-90.00	950.28	-2,622.42	6,087.16	5,911.71	175.45	34.695		
12,000.00	6,083.00	6,018.00	6,018.00	113.51	120.66	-90.00	950.28	-2,622.42	6,174.15	5,998.61	175.54	35.172		
12,100.00	6,083.00	6,018.00	6,018.00	115.24	120.66	-90.00	950.28	-2,622.42	6,261.54	6,085.90	175.64	35.651		
12,200.00	6,083.00	6,018.00	6,018.00	116.98	120.66	-90.00	950.28	-2,622.42	6,349.30	6,173.57	175.72	36.132		
12,300.00	6,083.00	6,018.00	6,018.00	118.73	120.66	-90.00	950.28	-2,622.42	6,437.41	6,261.60	175.81	36.616		
12,400.00	6,083.00	6,018.00	6,018.00	120.47	120.66	-90.00	950.28	-2,622.42	6,525.87	6,349.98	175.89	37.102		
12,500.00	6,083.00	6,018.00	6,018.00	122.21	120.66	-90.00	950.28	-2,622.42	6,614.65	6,438.68	175.97	37.591		
12,600.00	6,083.00	6,018.00	6,018.00	123.95	120.66	-90.00	950.28	-2,622.42	6,703.75	6,527.71	176.04	38.081		
12,700.00	6,083.00	6,018.00	6,018.00	125.70	120.66	-90.00	950.28	-2,622.42	6,793.16	6,617.04	176.11	38.573		
12,800.00	6,083.00	6,018.00	6,018.00	127.44	120.66	-90.00	950.28	-2,622.42	6,882.85	6,706.67	176.18	39.067		
12,900.00	6,083.00	6,018.00	6,018.00	129.19	120.66	-90.00	950.28	-2,622.42	6,972.83	6,796.58	176.25	39.563		
13,000.00	6,083.00	6,018.00	6,018.00	130.94	120.66	-90.00	950.28	-2,622.42	7,063.07	6,886.76	176.31	40.061		
13,100.00	6,083.00	6,018.00	6,018.00	132.68	120.66	-90.00	950.28	-2,622.42	7,153.58	6,977.21	176.37	40.560		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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
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	
13,200.00	6,083.00	6,018.00	6,018.00	134.43	120.66	-90.00	950.28	-2,622.42	7,244.33	7,067.90	176.43	41.061	
13,300.00	6,083.00	6,018.00	6,018.00	136.18	120.66	-90.00	950.28	-2,622.42	7,335.33	7,158.84	176.49	41.563	
13,400.00	6,083.00	6,018.00	6,018.00	137.93	120.66	-90.00	950.28	-2,622.42	7,426.56	7,250.01	176.54	42.066	
13,500.00	6,083.00	6,018.00	6,018.00	139.68	120.66	-90.00	950.28	-2,622.42	7,518.01	7,341.41	176.60	42.571	
13,600.00	6,083.00	6,018.00	6,018.00	141.43	120.66	-90.00	950.28	-2,622.42	7,609.67	7,433.02	176.65	43.078	
13,700.00	6,083.00	6,018.00	6,018.00	143.18	120.66	-90.00	950.28	-2,622.42	7,701.54	7,524.84	176.70	43.585	
13,800.00	6,083.00	6,018.00	6,018.00	144.94	120.66	-90.00	950.28	-2,622.42	7,793.62	7,616.87	176.75	44.094	
13,900.00	6,083.00	6,018.00	6,018.00	146.69	120.66	-90.00	950.28	-2,622.42	7,885.88	7,709.08	176.80	44.603	
14,000.00	6,083.00	6,018.00	6,018.00	148.44	120.66	-90.00	950.28	-2,622.42	7,978.34	7,801.49	176.85	45.114	
14,100.00	6,083.00	6,018.00	6,018.00	150.20	120.66	-90.00	950.28	-2,622.42	8,070.97	7,894.07	176.89	45.626	
14,200.00	6,083.00	6,018.00	6,018.00	151.95	120.66	-90.00	950.28	-2,622.42	8,163.77	7,986.83	176.94	46.139	
14,300.00	6,083.00	6,018.00	6,018.00	153.70	120.66	-90.00	950.28	-2,622.42	8,256.75	8,079.76	176.98	46.652	
14,400.00	6,083.00	6,018.00	6,018.00	155.46	120.66	-90.00	950.28	-2,622.42	8,349.88	8,172.86	177.03	47.167	
14,500.00	6,083.00	6,018.00	6,018.00	157.21	120.66	-90.00	950.28	-2,622.42	8,443.18	8,266.11	177.07	47.682	
14,600.00	6,083.00	6,018.00	6,018.00	158.97	120.66	-90.00	950.28	-2,622.42	8,536.62	8,359.51	177.11	48.199	
14,700.00	6,083.00	6,018.00	6,018.00	160.73	120.66	-90.00	950.28	-2,622.42	8,630.22	8,453.06	177.16	48.715	
14,800.00	6,083.00	6,018.00	6,018.00	162.48	120.66	-90.00	950.28	-2,622.42	8,723.95	8,546.75	177.20	49.233	
14,900.00	6,083.00	6,018.00	6,018.00	164.24	120.66	-90.00	950.28	-2,622.42	8,817.82	8,640.58	177.24	49.751	
15,000.00	6,083.00	6,018.00	6,018.00	166.00	120.66	-90.00	950.28	-2,622.42	8,911.83	8,734.55	177.28	50.270	
15,100.00	6,083.00	6,018.00	6,018.00	167.75	120.66	-90.00	950.28	-2,622.42	9,005.96	8,828.64	177.32	50.790	
15,200.00	6,083.00	6,018.00	6,018.00	169.51	120.66	-90.00	950.28	-2,622.42	9,100.22	8,922.86	177.36	51.310	
15,300.00	6,083.00	6,018.00	6,018.00	171.27	120.66	-90.00	950.28	-2,622.42	9,194.60	9,017.21	177.40	51.831	
15,400.00	6,083.00	6,018.00	6,018.00	173.03	120.66	-90.00	950.28	-2,622.42	9,289.10	9,111.66	177.44	52.352	
15,500.00	6,083.00	6,018.00	6,018.00	174.79	120.66	-90.00	950.28	-2,622.42	9,383.71	9,206.24	177.47	52.874	
15,600.00	6,083.00	6,018.00	6,018.00	176.55	120.66	-90.00	950.28	-2,622.42	9,478.44	9,300.92	177.51	53.396	
15,700.00	6,083.00	6,018.00	6,018.00	178.31	120.66	-90.00	950.28	-2,622.42	9,573.27	9,395.72	177.55	53.918	
15,800.00	6,083.00	6,018.00	6,018.00	180.07	120.66	-90.00	950.28	-2,622.42	9,668.20	9,490.61	177.59	54.441	
15,900.00	6,083.00	6,018.00	6,018.00	181.83	120.66	-90.00	950.28	-2,622.42	9,763.24	9,585.61	177.63	54.965	
16,000.00	6,083.00	6,018.00	6,018.00	183.59	120.66	-90.00	950.28	-2,622.42	9,858.37	9,680.71	177.67	55.488	
16,028.23	6,083.00	6,018.00	6,018.00	184.08	120.66	-90.00	950.28	-2,622.42	9,885.24	9,707.57	177.68	55.636	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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
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	10.00	10.00	0.00	0.12	-9.63	7,496.91	-1,272.04	7,604.06					
100.00	100.00	110.00	110.00	0.27	1.43	-9.63	7,496.91	-1,272.04	7,604.06	7,602.36	1.70	4,483.416		
200.00	200.00	210.00	210.00	0.63	3.70	-9.63	7,496.91	-1,272.04	7,604.06	7,599.73	4.32	1,758.965		
300.00	299.98	309.98	309.98	0.98	5.77	-73.39	7,496.91	-1,272.04	7,603.56	7,596.81	6.75	1,126.045		
400.00	399.84	409.84	409.84	1.34	7.81	-73.46	7,496.91	-1,272.04	7,602.06	7,592.91	9.15	830.893		
500.00	499.55	509.55	509.55	1.71	9.83	-73.52	7,496.91	-1,272.04	7,599.90	7,588.36	11.54	658.602		
600.00	599.25	609.25	609.25	2.08	11.85	-73.58	7,496.91	-1,272.04	7,597.72	7,583.79	13.93	545.525		
700.00	698.96	708.96	708.96	2.45	13.86	-73.63	7,496.91	-1,272.04	7,595.55	7,579.24	16.31	465.580		
800.00	798.67	808.67	808.67	2.83	15.87	-73.69	7,496.91	-1,272.04	7,593.39	7,574.69	18.70	406.058		
900.00	898.37	908.37	908.37	3.21	17.88	-73.74	7,496.91	-1,272.04	7,591.23	7,570.15	21.09	360.015		
1,000.00	998.08	1,008.08	1,008.08	3.58	19.89	-73.80	7,496.91	-1,272.04	7,589.08	7,565.61	23.47	323.337		
1,100.00	1,097.78	1,107.78	1,107.78	3.96	21.90	-73.85	7,496.91	-1,272.04	7,586.94	7,561.08	25.86	293.429		
1,200.00	1,197.49	1,207.49	1,207.49	4.34	23.91	-73.91	7,496.91	-1,272.04	7,584.81	7,556.56	28.24	268.574		
1,300.00	1,297.19	1,307.19	1,307.19	4.72	25.91	-73.96	7,496.91	-1,272.04	7,582.68	7,552.05	30.63	247.592		
1,400.00	1,396.90	1,406.90	1,406.90	5.10	27.92	-74.02	7,496.91	-1,272.04	7,580.56	7,547.55	33.01	229.642		
1,500.00	1,496.60	1,506.60	1,506.60	5.47	29.93	-74.07	7,496.91	-1,272.04	7,578.44	7,543.05	35.39	214.112		
1,600.00	1,596.31	1,606.31	1,606.31	5.85	31.93	-74.13	7,496.91	-1,272.04	7,576.34	7,538.56	37.78	200.542		
1,700.00	1,696.02	1,706.02	1,706.02	6.23	33.94	-74.19	7,496.91	-1,272.04	7,574.24	7,534.08	40.16	188.585		
1,800.00	1,795.72	1,805.72	1,805.72	6.61	35.94	-74.24	7,496.91	-1,272.04	7,572.15	7,529.60	42.55	177.967		
1,900.00	1,895.43	1,905.43	1,905.43	6.99	37.95	-74.30	7,496.91	-1,272.04	7,570.06	7,525.13	44.93	168.477		
2,000.00	1,995.13	2,005.13	2,005.13	7.37	39.96	-74.35	7,496.91	-1,272.04	7,567.99	7,520.67	47.32	159.944		
2,100.00	2,094.84	2,104.84	2,104.84	7.75	41.96	-74.41	7,496.91	-1,272.04	7,565.92	7,516.22	49.70	152.229		
2,200.00	2,194.54	2,204.54	2,204.54	8.13	43.97	-74.46	7,496.91	-1,272.04	7,563.85	7,511.77	52.08	145.221		
2,300.00	2,294.25	2,304.25	2,304.25	8.51	45.97	-74.52	7,496.91	-1,272.04	7,561.80	7,507.33	54.47	138.827		
2,400.00	2,393.95	2,403.95	2,403.95	8.89	47.98	-74.58	7,496.91	-1,272.04	7,559.75	7,502.90	56.85	132.969		
2,500.00	2,493.66	2,503.66	2,503.66	9.26	49.99	-74.63	7,496.91	-1,272.04	7,557.71	7,498.47	59.24	127.583		
2,600.00	2,593.37	2,603.37	2,603.37	9.64	51.99	-74.69	7,496.91	-1,272.04	7,555.67	7,494.05	61.62	122.614		
2,700.00	2,693.07	2,703.07	2,703.07	10.02	54.00	-74.74	7,496.91	-1,272.04	7,553.65	7,489.64	64.01	118.015		
2,800.00	2,792.78	2,802.78	2,802.78	10.40	56.00	-74.80	7,496.91	-1,272.04	7,551.63	7,485.24	66.39	113.746		
2,900.00	2,892.48	2,902.48	2,902.48	10.78	58.01	-74.86	7,496.91	-1,272.04	7,549.62	7,480.84	68.77	109.774		
3,000.00	2,992.19	3,002.19	3,002.19	11.16	60.01	-74.91	7,496.91	-1,272.04	7,547.61	7,476.45	71.16	106.068		
3,100.00	3,091.89	3,101.89	3,101.89	11.54	62.02	-74.97	7,496.91	-1,272.04	7,545.61	7,472.07	73.54	102.602		
3,200.00	3,191.60	3,201.60	3,201.60	11.92	64.02	-75.02	7,496.91	-1,272.04	7,543.62	7,467.69	75.93	99.354		
3,300.00	3,291.31	3,301.31	3,301.31	12.30	66.03	-75.08	7,496.91	-1,272.04	7,541.64	7,463.33	78.31	96.304		
3,400.00	3,391.01	3,401.01	3,401.01	12.68	68.03	-75.14	7,496.91	-1,272.04	7,539.66	7,458.97	80.70	93.434		
3,500.00	3,490.72	3,500.72	3,500.72	13.06	70.04	-75.19	7,496.91	-1,272.04	7,537.69	7,454.61	83.08	90.729		
3,600.00	3,590.42	3,600.42	3,600.42	13.44	72.04	-75.25	7,496.91	-1,272.04	7,535.73	7,450.27	85.46	88.175		
3,700.00	3,690.13	3,700.13	3,700.13	13.82	74.05	-75.30	7,496.91	-1,272.04	7,533.78	7,445.93	87.85	85.759		
3,800.00	3,789.83	3,799.83	3,799.83	14.19	76.05	-75.36	7,496.91	-1,272.04	7,531.83	7,441.60	90.23	83.472		
3,900.00	3,889.54	3,899.54	3,899.54	14.57	78.06	-75.42	7,496.91	-1,272.04	7,529.89	7,437.28	92.62	81.302		
4,000.00	3,989.24	3,999.24	3,999.24	14.95	80.07	-75.47	7,496.91	-1,272.04	7,527.96	7,432.96	95.00	79.241		
4,100.00	4,088.95	4,098.95	4,098.95	15.33	82.07	-75.53	7,496.91	-1,272.04	7,526.03	7,428.65	97.38	77.281		
4,200.00	4,188.66	4,198.66	4,198.66	15.71	84.08	-75.59	7,496.91	-1,272.04	7,524.12	7,424.35	99.77	75.415		
4,300.00	4,288.36	4,298.36	4,298.36	16.09	86.08	-75.64	7,496.91	-1,272.04	7,522.21	7,420.05	102.15	73.636		
4,400.00	4,388.07	4,398.07	4,398.07	16.47	88.09	-75.70	7,496.91	-1,272.04	7,520.30	7,415.77	104.54	71.939		
4,500.00	4,487.77	4,497.77	4,497.77	16.85	90.09	-75.76	7,496.91	-1,272.04	7,518.41	7,411.49	106.92	70.317		
4,600.00	4,587.48	4,597.48	4,597.48	17.23	92.10	-75.81	7,496.91	-1,272.04	7,516.52	7,407.21	109.31	68.766		
4,700.00	4,687.18	4,697.18	4,697.18	17.61	94.10	-75.87	7,496.91	-1,272.04	7,514.64	7,402.95	111.69	67.281		
4,800.00	4,786.89	4,796.89	4,796.89	17.99	96.11	-75.93	7,496.91	-1,272.04	7,512.77	7,398.69	114.07	65.858		
4,900.00	4,886.59	4,896.59	4,896.59	18.37	98.11	-75.98	7,496.91	-1,272.04	7,510.90	7,394.44	116.46	64.494		
5,000.00	4,986.30	4,996.30	4,996.30	18.75	100.12	-76.04	7,496.91	-1,272.04	7,509.04	7,390.20	118.84	63.184		
5,100.00	5,086.01	5,096.01	5,096.01	19.13	102.12	-76.10	7,496.91	-1,272.04	7,507.19	7,385.96	121.23	61.926		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT FURROW 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)	Separation Factor		
5,200.00	5,185.71	5,195.71	5,195.71	19.51	104.13	-76.15	7,496.91	-1,272.04	7,505.35	7,381.73	123.61	60.717		
5,300.00	5,285.42	5,295.42	5,295.42	19.89	106.13	-76.21	7,496.91	-1,272.04	7,503.51	7,377.51	126.00	59.553		
5,400.00	5,385.12	5,395.12	5,395.12	20.26	108.14	-76.27	7,496.91	-1,272.04	7,501.68	7,373.30	128.38	58.433		
5,500.00	5,484.83	5,494.83	5,494.83	20.64	110.14	-76.32	7,496.91	-1,272.04	7,499.86	7,369.09	130.76	57.354		
5,600.00	5,584.37	5,594.37	5,594.37	21.03	112.14	-41.18	7,496.91	-1,272.04	7,495.59	7,362.44	133.15	56.295		
5,700.00	5,681.71	5,691.71	5,691.71	21.43	114.10	-26.39	7,496.91	-1,272.04	7,476.27	7,340.78	135.50	55.177		
5,800.00	5,773.87	5,783.87	5,783.87	21.85	115.96	-22.95	7,496.91	-1,272.04	7,440.71	7,302.97	137.74	54.021		
5,900.00	5,858.06	5,868.06	5,868.06	22.29	117.65	-22.61	7,496.91	-1,272.04	7,389.98	7,250.18	139.80	52.861		
6,000.00	5,931.71	5,941.71	5,941.71	22.78	119.13	-24.22	7,496.91	-1,272.04	7,325.66	7,184.04	141.62	51.726		
6,100.00	5,992.59	6,002.59	6,002.59	23.33	120.35	-28.02	7,496.91	-1,272.04	7,249.72	7,106.56	143.16	50.642		
6,200.00	6,038.86	6,048.86	6,048.86	23.96	121.28	-35.44	7,496.91	-1,272.04	7,164.48	7,020.12	144.35	49.631		
6,300.00	6,069.09	6,079.09	6,079.09	24.69	121.89	-50.26	7,496.91	-1,272.04	7,072.54	6,927.35	145.19	48.712		
6,400.00	6,082.38	6,092.38	6,092.38	25.49	122.16	-79.64	7,496.91	-1,272.04	6,976.70	6,831.04	145.66	47.898		
6,500.00	6,083.00	6,093.00	6,093.00	26.37	122.17	-90.00	7,496.91	-1,272.04	6,879.76	6,733.91	145.85	47.170		
6,600.00	6,083.00	6,093.00	6,093.00	27.33	122.17	-90.00	7,496.91	-1,272.04	6,782.88	6,636.84	146.04	46.445		
6,700.00	6,083.00	6,093.00	6,093.00	28.37	122.17	-90.00	7,496.91	-1,272.04	6,686.10	6,539.86	146.25	45.718		
6,800.00	6,083.00	6,093.00	6,093.00	29.48	122.17	-90.00	7,496.91	-1,272.04	6,589.42	6,442.95	146.47	44.988		
6,900.00	6,083.00	6,093.00	6,093.00	30.66	122.17	-90.00	7,496.91	-1,272.04	6,492.83	6,346.12	146.71	44.257		
7,000.00	6,083.00	6,093.00	6,093.00	31.89	122.17	-90.00	7,496.91	-1,272.04	6,396.35	6,249.39	146.96	43.523		
7,100.00	6,083.00	6,093.00	6,093.00	33.17	122.17	-90.00	7,496.91	-1,272.04	6,299.98	6,152.75	147.24	42.788		
7,200.00	6,083.00	6,093.00	6,093.00	34.49	122.17	-90.00	7,496.91	-1,272.04	6,203.73	6,056.20	147.53	42.051		
7,300.00	6,083.00	6,093.00	6,093.00	35.85	122.17	-90.00	7,496.91	-1,272.04	6,107.59	5,959.75	147.84	41.312		
7,400.00	6,083.00	6,093.00	6,093.00	37.25	122.17	-90.00	7,496.91	-1,272.04	6,011.58	5,863.41	148.17	40.571		
7,500.00	6,083.00	6,093.00	6,093.00	38.67	122.17	-90.00	7,496.91	-1,272.04	5,915.71	5,767.18	148.53	39.829		
7,600.00	6,083.00	6,093.00	6,093.00	40.13	122.17	-90.00	7,496.91	-1,272.04	5,819.97	5,671.07	148.90	39.085		
7,700.00	6,083.00	6,093.00	6,093.00	41.61	122.17	-90.00	7,496.91	-1,272.04	5,724.38	5,575.07	149.30	38.340		
7,800.00	6,083.00	6,093.00	6,093.00	43.11	122.17	-90.00	7,496.91	-1,272.04	5,628.94	5,479.21	149.73	37.594		
7,900.00	6,083.00	6,093.00	6,093.00	44.63	122.17	-90.00	7,496.91	-1,272.04	5,533.66	5,383.48	150.18	36.847		
8,000.00	6,083.00	6,093.00	6,093.00	46.17	122.17	-90.00	7,496.91	-1,272.04	5,438.55	5,287.90	150.66	36.099		
8,100.00	6,083.00	6,093.00	6,093.00	47.73	122.17	-90.00	7,496.91	-1,272.04	5,343.62	5,192.46	151.17	35.350		
8,200.00	6,083.00	6,093.00	6,093.00	49.30	122.17	-90.00	7,496.91	-1,272.04	5,248.88	5,097.18	151.70	34.600		
8,300.00	6,083.00	6,093.00	6,093.00	50.88	122.17	-90.00	7,496.91	-1,272.04	5,154.34	5,002.07	152.27	33.850		
8,400.00	6,083.00	6,093.00	6,093.00	52.48	122.17	-90.00	7,496.91	-1,272.04	5,060.01	4,907.13	152.87	33.099		
8,500.00	6,083.00	6,093.00	6,093.00	54.09	122.17	-90.00	7,496.91	-1,272.04	4,965.90	4,812.39	153.51	32.349		
8,600.00	6,083.00	6,093.00	6,093.00	55.70	122.17	-90.00	7,496.91	-1,272.04	4,872.02	4,717.84	154.18	31.599		
8,700.00	6,083.00	6,093.00	6,093.00	57.33	122.17	-90.00	7,496.91	-1,272.04	4,778.39	4,623.50	154.90	30.849		
8,800.00	6,083.00	6,093.00	6,093.00	58.96	122.17	-90.00	7,496.91	-1,272.04	4,685.03	4,529.38	155.65	30.100		
8,900.00	6,083.00	6,093.00	6,093.00	60.61	122.17	-90.00	7,496.91	-1,272.04	4,591.94	4,435.50	156.44	29.352		
9,000.00	6,083.00	6,093.00	6,093.00	62.26	122.17	-90.00	7,496.91	-1,272.04	4,499.15	4,341.87	157.28	28.606		
9,100.00	6,083.00	6,093.00	6,093.00	63.91	122.17	-90.00	7,496.91	-1,272.04	4,406.68	4,248.52	158.17	27.861		
9,200.00	6,083.00	6,093.00	6,093.00	65.58	122.17	-90.00	7,496.91	-1,272.04	4,314.55	4,155.44	159.10	27.118		
9,300.00	6,083.00	6,093.00	6,093.00	67.24	122.17	-90.00	7,496.91	-1,272.04	4,222.77	4,062.68	160.09	26.378		
9,400.00	6,083.00	6,093.00	6,093.00	68.92	122.17	-90.00	7,496.91	-1,272.04	4,131.37	3,970.24	161.13	25.640		
9,500.00	6,083.00	6,093.00	6,093.00	70.60	122.17	-90.00	7,496.91	-1,272.04	4,040.38	3,878.15	162.23	24.905		
9,600.00	6,083.00	6,093.00	6,093.00	72.28	122.17	-90.00	7,496.91	-1,272.04	3,949.82	3,786.43	163.39	24.174		
9,700.00	6,083.00	6,093.00	6,093.00	73.97	122.17	-90.00	7,496.91	-1,272.04	3,859.74	3,695.12	164.62	23.447		
9,800.00	6,083.00	6,093.00	6,093.00	75.66	122.17	-90.00	7,496.91	-1,272.04	3,770.15	3,604.24	165.91	22.724		
9,900.00	6,083.00	6,093.00	6,093.00	77.35	122.17	-90.00	7,496.91	-1,272.04	3,681.10	3,513.83	167.27	22.007		
10,000.00	6,083.00	6,093.00	6,093.00	79.05	122.17	-90.00	7,496.91	-1,272.04	3,592.62	3,423.91	168.71	21.295		
10,100.00	6,083.00	6,093.00	6,093.00	80.75	122.17	-90.00	7,496.91	-1,272.04	3,504.76	3,334.54	170.23	20.589		
10,200.00	6,083.00	6,093.00	6,093.00	82.46	122.17	-90.00	7,496.91	-1,272.04	3,417.58	3,245.75	171.83	19.890		
10,300.00	6,083.00	6,093.00	6,093.00	84.17	122.17	-90.00	7,496.91	-1,272.04	3,331.11	3,157.59	173.52	19.198		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT FURROW 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)	Separation Factor		
10,400.00	6,083.00	6,093.00	6,093.00	85.88	122.17	-90.00	7,496.91	-1,272.04	3,245.42	3,070.12	175.30	18.514		
10,500.00	6,083.00	6,093.00	6,093.00	87.59	122.17	-90.00	7,496.91	-1,272.04	3,160.57	2,983.39	177.18	17.839		
10,600.00	6,083.00	6,093.00	6,093.00	89.30	122.17	-90.00	7,496.91	-1,272.04	3,076.63	2,897.47	179.16	17.173		
10,700.00	6,083.00	6,093.00	6,093.00	91.02	122.17	-90.00	7,496.91	-1,272.04	2,993.68	2,812.43	181.24	16.517		
10,800.00	6,083.00	6,093.00	6,093.00	92.74	122.17	-90.00	7,496.91	-1,272.04	2,911.79	2,728.35	183.45	15.873		
10,900.00	6,083.00	6,093.00	6,093.00	94.46	122.17	-90.00	7,496.91	-1,272.04	2,831.08	2,645.31	185.76	15.240		
11,000.00	6,083.00	6,093.00	6,093.00	96.19	122.17	-90.00	7,496.91	-1,272.04	2,751.63	2,563.43	188.20	14.621		
11,100.00	6,083.00	6,093.00	6,093.00	97.91	122.17	-90.00	7,496.91	-1,272.04	2,673.56	2,482.79	190.77	14.015		
11,200.00	6,083.00	6,093.00	6,093.00	99.64	122.17	-90.00	7,496.91	-1,272.04	2,596.99	2,403.53	193.46	13.424		
11,300.00	6,083.00	6,093.00	6,093.00	101.37	122.17	-90.00	7,496.91	-1,272.04	2,522.06	2,325.78	196.28	12.849		
11,400.00	6,083.00	6,093.00	6,093.00	103.10	122.17	-90.00	7,496.91	-1,272.04	2,448.93	2,249.69	199.24	12.291		
11,500.00	6,083.00	6,093.00	6,093.00	104.83	122.17	-90.00	7,496.91	-1,272.04	2,377.75	2,175.42	202.33	11.752		
11,600.00	6,083.00	6,093.00	6,093.00	106.56	122.17	-90.00	7,496.91	-1,272.04	2,308.72	2,103.16	205.55	11.232		
11,700.00	6,083.00	6,093.00	6,093.00	108.30	122.17	-90.00	7,496.91	-1,272.04	2,242.01	2,033.12	208.90	10.733		
11,800.00	6,083.00	6,093.00	6,093.00	110.03	122.17	-90.00	7,496.91	-1,272.04	2,177.86	1,965.50	212.36	10.256		
11,900.00	6,083.00	6,093.00	6,093.00	111.77	122.17	-90.00	7,496.91	-1,272.04	2,116.49	1,900.57	215.92	9.802		
12,000.00	6,083.00	6,093.00	6,093.00	113.51	122.17	-90.00	7,496.91	-1,272.04	2,058.15	1,838.58	219.57	9.374		
12,100.00	6,083.00	6,093.00	6,093.00	115.24	122.17	-90.00	7,496.91	-1,272.04	2,003.11	1,779.82	223.28	8.971		
12,200.00	6,083.00	6,093.00	6,093.00	116.98	122.17	-90.00	7,496.91	-1,272.04	1,951.64	1,724.60	227.03	8.596		
12,300.00	6,083.00	6,093.00	6,093.00	118.73	122.17	-90.00	7,496.91	-1,272.04	1,904.03	1,673.25	230.78	8.250		
12,400.00	6,083.00	6,093.00	6,093.00	120.47	122.17	-90.00	7,496.91	-1,272.04	1,860.59	1,626.10	234.49	7.935		
12,500.00	6,083.00	6,093.00	6,093.00	122.21	122.17	-90.00	7,496.91	-1,272.04	1,821.60	1,583.50	238.10	7.651		
12,600.00	6,083.00	6,093.00	6,093.00	123.95	122.17	-90.00	7,496.91	-1,272.04	1,787.37	1,545.80	241.57	7.399		
12,700.00	6,083.00	6,093.00	6,093.00	125.70	122.17	-90.00	7,496.91	-1,272.04	1,758.17	1,513.32	244.85	7.181		
12,800.00	6,083.00	6,093.00	6,093.00	127.44	122.17	-90.00	7,496.91	-1,272.04	1,734.24	1,486.38	247.87	6.997		
12,900.00	6,083.00	6,093.00	6,093.00	129.19	122.17	-90.00	7,496.91	-1,272.04	1,715.82	1,465.25	250.57	6.848		
13,000.00	6,083.00	6,093.00	6,093.00	130.94	122.17	-90.00	7,496.91	-1,272.04	1,703.09	1,450.17	252.92	6.734		
13,100.00	6,083.00	6,093.00	6,093.00	132.68	122.17	-90.00	7,496.91	-1,272.04	1,696.16	1,441.30	254.86	6.655		
13,167.74	6,083.00	6,093.00	6,093.00	133.87	122.17	-90.00	7,496.91	-1,272.04	1,694.81	1,438.88	255.93	6.622 CC		
13,200.00	6,083.00	6,093.00	6,093.00	134.43	122.17	-90.00	7,496.91	-1,272.04	1,695.11	1,438.75	256.36	6.612 ES		
13,300.00	6,083.00	6,093.00	6,093.00	136.18	122.17	-90.00	7,496.91	-1,272.04	1,699.96	1,442.55	257.41	6.604 SF		
13,400.00	6,083.00	6,093.00	6,093.00	137.93	122.17	-90.00	7,496.91	-1,272.04	1,710.65	1,452.64	258.01	6.630		
13,500.00	6,083.00	6,093.00	6,093.00	139.68	122.17	-90.00	7,496.91	-1,272.04	1,727.07	1,468.91	258.16	6.690		
13,600.00	6,083.00	6,093.00	6,093.00	141.43	122.17	-90.00	7,496.91	-1,272.04	1,749.06	1,491.17	257.89	6.782		
13,700.00	6,083.00	6,093.00	6,093.00	143.18	122.17	-90.00	7,496.91	-1,272.04	1,776.42	1,519.19	257.24	6.906		
13,800.00	6,083.00	6,093.00	6,093.00	144.94	122.17	-90.00	7,496.91	-1,272.04	1,808.90	1,552.67	256.23	7.060		
13,900.00	6,083.00	6,093.00	6,093.00	146.69	122.17	-90.00	7,496.91	-1,272.04	1,846.23	1,591.31	254.93	7.242		
14,000.00	6,083.00	6,093.00	6,093.00	148.44	122.17	-90.00	7,496.91	-1,272.04	1,888.13	1,634.76	253.37	7.452		
14,100.00	6,083.00	6,093.00	6,093.00	150.20	122.17	-90.00	7,496.91	-1,272.04	1,934.29	1,682.69	251.60	7.688		
14,200.00	6,083.00	6,093.00	6,093.00	151.95	122.17	-90.00	7,496.91	-1,272.04	1,984.42	1,734.75	249.68	7.948		
14,300.00	6,083.00	6,093.00	6,093.00	153.70	122.17	-90.00	7,496.91	-1,272.04	2,038.23	1,790.60	247.63	8.231		
14,400.00	6,083.00	6,093.00	6,093.00	155.46	122.17	-90.00	7,496.91	-1,272.04	2,095.43	1,849.93	245.50	8.535		
14,500.00	6,083.00	6,093.00	6,093.00	157.21	122.17	-90.00	7,496.91	-1,272.04	2,155.76	1,912.44	243.32	8.860		
14,600.00	6,083.00	6,093.00	6,093.00	158.97	122.17	-90.00	7,496.91	-1,272.04	2,218.95	1,977.84	241.11	9.203		
14,700.00	6,083.00	6,093.00	6,093.00	160.73	122.17	-90.00	7,496.91	-1,272.04	2,284.78	2,045.87	238.91	9.563		
14,800.00	6,083.00	6,093.00	6,093.00	162.48	122.17	-90.00	7,496.91	-1,272.04	2,353.01	2,116.30	236.71	9.940		
14,900.00	6,083.00	6,093.00	6,093.00	164.24	122.17	-90.00	7,496.91	-1,272.04	2,423.45	2,188.90	234.55	10.332		
15,000.00	6,083.00	6,093.00	6,093.00	166.00	122.17	-90.00	7,496.91	-1,272.04	2,495.91	2,263.48	232.43	10.738		
15,100.00	6,083.00	6,093.00	6,093.00	167.75	122.17	-90.00	7,496.91	-1,272.04	2,570.22	2,339.86	230.36	11.157		
15,200.00	6,083.00	6,093.00	6,093.00	169.51	122.17	-90.00	7,496.91	-1,272.04	2,646.22	2,417.87	228.35	11.589		
15,300.00	6,083.00	6,093.00	6,093.00	171.27	122.17	-90.00	7,496.91	-1,272.04	2,723.77	2,497.37	226.40	12.031		
15,400.00	6,083.00	6,093.00	6,093.00	173.03	122.17	-90.00	7,496.91	-1,272.04	2,802.74	2,578.24	224.51	12.484		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - ABND VERT FURROW 1 - OWB - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	6,093.00	6,093.00	174.79	122.17	-90.00	7,496.91	-1,272.04	2,883.02	2,660.34	222.68	12.947	
15,600.00	6,083.00	6,093.00	6,093.00	176.55	122.17	-90.00	7,496.91	-1,272.04	2,964.50	2,743.58	220.93	13.419	
15,700.00	6,083.00	6,093.00	6,093.00	178.31	122.17	-90.00	7,496.91	-1,272.04	3,047.09	2,827.85	219.23	13.899	
15,800.00	6,083.00	6,093.00	6,093.00	180.07	122.17	-90.00	7,496.91	-1,272.04	3,130.68	2,913.08	217.61	14.387	
15,900.00	6,083.00	6,093.00	6,093.00	181.83	122.17	-90.00	7,496.91	-1,272.04	3,215.22	2,999.17	216.05	14.882	
16,000.00	6,083.00	6,093.00	6,093.00	183.59	122.17	-90.00	7,496.91	-1,272.04	3,300.62	3,086.07	214.55	15.384	
16,028.23	6,083.00	6,093.00	6,093.00	184.08	122.17	-90.00	7,496.91	-1,272.04	3,324.87	3,110.74	214.13	15.527	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													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		
100.00	100.00	54.94	54.94	0.27	0.09	-179.03	-1,737.01	-29.54	1,737.26	1,736.90	0.36	4,886.190		
200.00	200.00	153.36	153.36	0.63	0.34	-179.02	-1,736.87	-29.74	1,737.13	1,736.16	0.97	1,788.050 CC		
204.45	204.45	157.56	157.56	0.64	0.36	117.24	-1,736.87	-29.75	1,737.13	1,736.13	1.00	1,733.653 ES		
300.00	299.98	252.41	252.41	0.98	0.69	117.29	-1,736.94	-30.01	1,738.00	1,736.33	1.67	1,038.923		
400.00	399.84	356.40	356.40	1.34	1.06	117.42	-1,736.85	-30.44	1,740.33	1,737.93	2.40	726.448		
500.00	499.55	459.63	459.63	1.71	1.42	117.66	-1,736.51	-31.01	1,743.53	1,740.41	3.12	558.102		
600.00	599.25	556.14	556.13	2.08	1.76	117.90	-1,736.12	-31.76	1,746.73	1,742.90	3.83	455.785		
700.00	698.96	651.31	651.30	2.45	2.09	118.14	-1,736.04	-32.66	1,750.28	1,745.75	4.54	385.702		
800.00	798.67	751.20	751.19	2.83	2.44	118.39	-1,736.07	-33.58	1,753.99	1,748.73	5.26	333.418		
900.00	898.37	851.77	851.75	3.21	2.79	118.64	-1,736.01	-34.64	1,757.64	1,751.65	5.99	293.569		
1,000.00	998.08	949.94	949.91	3.58	3.14	118.91	-1,735.95	-36.22	1,761.35	1,754.64	6.71	262.629		
1,100.00	1,097.78	1,051.93	1,051.89	3.96	3.50	119.18	-1,735.94	-37.71	1,765.15	1,757.71	7.44	237.246		
1,200.00	1,197.49	1,156.85	1,156.78	4.34	3.87	119.47	-1,735.58	-39.76	1,768.68	1,760.49	8.19	216.084		
1,300.00	1,297.19	1,256.60	1,256.52	4.72	4.22	119.76	-1,735.06	-41.82	1,772.08	1,763.16	8.91	198.823		
1,400.00	1,396.90	1,357.48	1,357.36	5.10	4.58	120.06	-1,734.55	-44.43	1,775.57	1,765.92	9.65	184.054		
1,500.00	1,496.60	1,459.77	1,459.59	5.47	4.95	120.38	-1,733.80	-47.70	1,778.92	1,768.53	10.39	171.238		
1,600.00	1,596.31	1,563.49	1,563.25	5.85	5.32	120.71	-1,732.88	-50.95	1,782.18	1,771.05	11.13	160.067		
1,700.00	1,696.02	1,662.47	1,662.19	6.23	5.67	121.01	-1,731.85	-53.54	1,785.30	1,773.44	11.86	150.545		
1,800.00	1,795.72	1,753.84	1,753.54	6.61	5.99	121.27	-1,731.17	-55.61	1,788.73	1,776.17	12.55	142.485		
1,900.00	1,895.43	1,849.88	1,849.56	6.99	6.32	121.52	-1,730.97	-57.21	1,792.67	1,779.41	13.26	135.165		
2,000.00	1,995.13	1,956.78	1,956.46	7.37	6.69	121.78	-1,730.62	-58.24	1,796.47	1,782.47	14.01	128.236		
2,100.00	2,094.84	2,059.63	2,059.31	7.75	7.05	122.02	-1,729.91	-59.00	1,799.91	1,785.17	14.74	122.103		
2,200.00	2,194.54	2,165.50	2,165.17	8.13	7.42	122.25	-1,729.08	-59.50	1,803.27	1,787.79	15.48	116.466		
2,300.00	2,294.25	2,262.88	2,262.54	8.51	7.76	122.46	-1,728.05	-59.66	1,806.35	1,790.16	16.20	111.533		
2,400.00	2,393.95	2,365.03	2,364.69	8.89	8.11	122.68	-1,727.20	-59.96	1,809.70	1,792.77	16.93	106.923		
2,500.00	2,493.66	2,463.24	2,462.90	9.26	8.45	122.89	-1,726.17	-59.98	1,812.82	1,795.18	17.64	102.762		
2,600.00	2,593.37	2,560.65	2,560.30	9.64	8.79	123.08	-1,725.43	-59.78	1,816.22	1,797.87	18.35	98.956		
2,700.00	2,693.07	2,659.43	2,659.08	10.02	9.14	123.27	-1,724.75	-59.17	1,819.66	1,800.59	19.07	95.411		
2,800.00	2,792.78	2,755.04	2,754.68	10.40	9.47	123.42	-1,724.32	-57.77	1,823.26	1,803.48	19.78	92.181		
2,900.00	2,892.48	2,845.60	2,845.23	10.78	9.79	123.56	-1,724.23	-56.44	1,827.22	1,806.75	20.47	89.275		
3,000.00	2,992.19	2,937.26	2,936.89	11.16	10.10	123.72	-1,724.60	-55.83	1,831.78	1,810.62	21.16	86.577		
3,100.00	3,091.89	3,031.63	3,031.25	11.54	10.43	123.90	-1,725.10	-55.72	1,836.58	1,814.72	21.86	84.025		
3,200.00	3,191.60	3,118.24	3,117.86	11.92	10.73	124.09	-1,725.97	-56.45	1,841.98	1,819.45	22.53	81.766		
3,300.00	3,291.31	3,205.74	3,205.34	12.30	11.04	124.30	-1,727.38	-57.62	1,848.08	1,824.88	23.20	79.659		
3,400.00	3,391.01	3,294.39	3,293.95	12.68	11.35	124.51	-1,729.29	-59.28	1,854.82	1,830.95	23.88	77.686		
3,500.00	3,490.72	3,384.63	3,384.13	13.06	11.66	124.75	-1,731.62	-61.66	1,862.14	1,837.58	24.56	75.824		
3,600.00	3,590.42	3,466.09	3,465.50	13.44	11.95	124.98	-1,734.21	-64.30	1,870.18	1,844.97	25.20	74.199		
3,700.00	3,690.13	3,552.98	3,552.26	13.82	12.27	125.22	-1,737.76	-67.34	1,879.18	1,853.31	25.87	72.634		
3,800.00	3,789.83	3,643.82	3,642.95	14.19	12.60	125.48	-1,741.84	-70.79	1,888.67	1,862.11	26.56	71.122		
3,900.00	3,889.54	3,740.49	3,739.42	14.57	12.95	125.75	-1,746.54	-74.74	1,898.62	1,871.36	27.26	69.639		
4,000.00	3,989.24	3,854.72	3,853.44	14.95	13.36	126.08	-1,751.66	-79.29	1,908.24	1,880.19	28.05	68.032		
4,100.00	4,088.95	3,968.07	3,966.67	15.33	13.77	126.36	-1,755.96	-82.47	1,917.00	1,888.17	28.83	66.499		
4,200.00	4,188.66	4,070.16	4,068.67	15.71	14.13	126.60	-1,759.44	-85.03	1,925.37	1,895.82	29.56	65.140		
4,300.00	4,288.36	4,181.96	4,180.38	16.09	14.52	126.87	-1,762.95	-87.91	1,933.54	1,903.21	30.33	63.755		
4,400.00	4,388.07	4,298.39	4,296.74	16.47	14.93	127.16	-1,765.59	-90.89	1,940.88	1,909.76	31.12	62.375		
4,500.00	4,487.77	4,419.62	4,417.93	16.85	15.36	127.44	-1,767.19	-93.44	1,947.24	1,915.31	31.92	61.002		
4,600.00	4,587.48	4,529.65	4,527.94	17.23	15.74	127.69	-1,767.71	-95.53	1,952.74	1,920.06	32.68	59.753		
4,700.00	4,687.18	4,630.69	4,628.95	17.61	16.09	127.94	-1,767.88	-97.89	1,958.09	1,924.69	33.41	58.617		
4,800.00	4,786.89	4,736.69	4,734.91	17.99	16.46	128.21	-1,767.75	-100.65	1,963.26	1,929.11	34.15	57.491		
4,900.00	4,886.59	4,848.04	4,846.24	18.37	16.85	128.48	-1,767.24	-103.11	1,968.04	1,933.13	34.91	56.372		
5,000.00	4,986.30	4,965.53	4,963.70	18.75	17.26	128.74	-1,765.86	-105.08	1,972.05	1,936.35	35.70	55.247		
5,100.00	5,086.01	5,071.05	5,069.19	19.13	17.62	128.97	-1,763.99	-106.33	1,975.39	1,938.96	36.43	54.219		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO													Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD													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		
5,200.00	5,185.71	5,168.27	5,166.41	19.51	17.96	129.16	-1,762.44	-106.63	1,978.75	1,941.60	37.14	53.275		
5,300.00	5,285.42	5,256.20	5,254.33	19.89	18.27	129.30	-1,761.53	-105.97	1,982.43	1,944.62	37.82	52.420		
5,400.00	5,385.12	5,345.16	5,343.27	20.26	18.58	129.40	-1,761.51	-104.28	1,986.84	1,948.34	38.50	51.609		
5,500.00	5,484.83	5,400.00	5,398.09	20.64	18.77	129.46	-1,761.73	-102.91	1,992.01	1,952.97	39.04	51.024		
5,600.00	5,584.37	5,400.00	5,398.09	21.03	18.77	164.92	-1,761.73	-102.91	2,003.81	1,964.50	39.30	50.981 SF		
5,700.00	5,681.71	5,400.00	5,398.09	21.43	18.77	-178.97	-1,761.73	-102.91	2,035.07	1,995.58	39.48	51.542		
5,800.00	5,773.87	5,400.00	5,398.09	21.85	18.77	-172.98	-1,761.73	-102.91	2,085.73	2,046.16	39.58	52.697		
5,900.00	5,858.06	5,400.00	5,398.09	22.29	18.77	-168.27	-1,761.73	-102.91	2,152.97	2,113.36	39.61	54.354		
6,000.00	5,931.71	5,400.00	5,398.09	22.78	18.77	-162.35	-1,761.73	-102.91	2,233.33	2,193.73	39.60	56.399		
6,100.00	5,992.59	5,400.00	5,398.09	23.33	18.77	-152.03	-1,761.73	-102.91	2,323.17	2,283.60	39.57	58.716		
6,200.00	6,038.86	5,400.00	5,398.09	23.96	18.77	-128.49	-1,761.73	-102.91	2,418.85	2,379.31	39.53	61.185		
6,300.00	6,069.09	5,400.00	5,398.09	24.69	18.77	-79.46	-1,761.73	-102.91	2,516.97	2,477.45	39.52	63.696		
6,400.00	6,082.38	5,400.00	5,398.09	25.49	18.77	-43.03	-1,761.73	-102.91	2,614.44	2,574.91	39.53	66.143		
6,500.00	6,083.00	5,400.00	5,398.09	26.37	18.77	-37.78	-1,761.73	-102.91	2,709.88	2,670.31	39.57	68.480		
6,600.00	6,083.00	5,400.00	5,398.09	27.33	18.77	-37.78	-1,761.73	-102.91	2,805.50	2,765.88	39.62	70.808		
6,700.00	6,083.00	5,400.00	5,398.09	28.37	18.77	-37.78	-1,761.73	-102.91	2,901.42	2,861.75	39.67	73.138		
6,800.00	6,083.00	5,400.00	5,398.09	29.48	18.77	-37.78	-1,761.73	-102.91	2,997.60	2,957.88	39.72	75.470		
6,900.00	6,083.00	5,400.00	5,398.09	30.66	18.77	-37.78	-1,761.73	-102.91	3,094.02	3,054.26	39.77	77.803		
7,000.00	6,083.00	5,400.00	5,398.09	31.89	18.77	-37.78	-1,761.73	-102.91	3,190.67	3,150.85	39.81	80.138		
7,100.00	6,083.00	5,400.00	5,398.09	33.17	18.77	-37.78	-1,761.73	-102.91	3,287.51	3,247.65	39.86	82.473		
7,200.00	6,083.00	5,400.00	5,398.09	34.49	18.77	-37.78	-1,761.73	-102.91	3,384.54	3,344.63	39.91	84.808		
7,300.00	6,083.00	5,400.00	5,398.09	35.85	18.77	-37.78	-1,761.73	-102.91	3,481.74	3,441.78	39.95	87.142		
7,400.00	6,083.00	5,400.00	5,398.09	37.25	18.77	-37.78	-1,761.73	-102.91	3,579.09	3,539.09	40.00	89.476		
7,500.00	6,083.00	5,400.00	5,398.09	38.67	18.77	-37.78	-1,761.73	-102.91	3,676.58	3,636.54	40.05	91.808		
7,600.00	6,083.00	5,400.00	5,398.09	40.13	18.77	-37.78	-1,761.73	-102.91	3,774.21	3,734.12	40.09	94.139		
7,700.00	6,083.00	5,400.00	5,398.09	41.61	18.77	-37.78	-1,761.73	-102.91	3,871.95	3,831.82	40.14	96.468		
7,800.00	6,083.00	5,400.00	5,398.09	43.11	18.77	-37.78	-1,761.73	-102.91	3,969.81	3,929.63	40.18	98.794		
7,900.00	6,083.00	5,400.00	5,398.09	44.63	18.77	-37.78	-1,761.73	-102.91	4,067.77	4,027.55	40.23	101.118		
8,000.00	6,083.00	5,400.00	5,398.09	46.17	18.77	-37.78	-1,761.73	-102.91	4,165.83	4,125.56	40.27	103.439		
8,100.00	6,083.00	5,400.00	5,398.09	47.73	18.77	-37.78	-1,761.73	-102.91	4,263.98	4,223.66	40.32	105.757		
8,200.00	6,083.00	5,400.00	5,398.09	49.30	18.77	-37.78	-1,761.73	-102.91	4,362.22	4,321.85	40.36	108.071		
8,300.00	6,083.00	5,400.00	5,398.09	50.88	18.77	-37.78	-1,761.73	-102.91	4,460.53	4,420.12	40.41	110.382		
8,400.00	6,083.00	5,400.00	5,398.09	52.48	18.77	-37.78	-1,761.73	-102.91	4,558.91	4,518.46	40.46	112.689		
8,500.00	6,083.00	5,400.00	5,398.09	54.09	18.77	-37.78	-1,761.73	-102.91	4,657.37	4,616.87	40.50	114.992		
8,600.00	6,083.00	5,400.00	5,398.09	55.70	18.77	-37.78	-1,761.73	-102.91	4,755.89	4,715.34	40.55	117.290		
8,700.00	6,083.00	5,400.00	5,398.09	57.33	18.77	-37.78	-1,761.73	-102.91	4,854.47	4,813.87	40.59	119.584		
8,800.00	6,083.00	5,400.00	5,398.09	58.96	18.77	-37.78	-1,761.73	-102.91	4,953.10	4,912.46	40.64	121.873		
8,900.00	6,083.00	5,400.00	5,398.09	60.61	18.77	-37.78	-1,761.73	-102.91	5,051.79	5,011.10	40.69	124.157		
9,000.00	6,083.00	5,400.00	5,398.09	62.26	18.77	-37.78	-1,761.73	-102.91	5,150.53	5,109.80	40.74	126.436		
9,100.00	6,083.00	5,400.00	5,398.09	63.91	18.77	-37.78	-1,761.73	-102.91	5,249.32	5,208.54	40.78	128.710		
9,200.00	6,083.00	5,400.00	5,398.09	65.58	18.77	-37.78	-1,761.73	-102.91	5,348.15	5,307.32	40.83	130.978		
9,300.00	6,083.00	5,400.00	5,398.09	67.24	18.77	-37.78	-1,761.73	-102.91	5,447.03	5,406.15	40.88	133.241		
9,400.00	6,083.00	5,400.00	5,398.09	68.92	18.77	-37.78	-1,761.73	-102.91	5,545.94	5,505.01	40.93	135.498		
9,500.00	6,083.00	5,400.00	5,398.09	70.60	18.77	-37.78	-1,761.73	-102.91	5,644.90	5,603.92	40.98	137.749		
9,600.00	6,083.00	5,400.00	5,398.09	72.28	18.77	-37.78	-1,761.73	-102.91	5,743.89	5,702.86	41.03	139.994		
9,700.00	6,083.00	5,400.00	5,398.09	73.97	18.77	-37.78	-1,761.73	-102.91	5,842.91	5,801.83	41.08	142.232		
9,800.00	6,083.00	5,400.00	5,398.09	75.66	18.77	-37.78	-1,761.73	-102.91	5,941.97	5,900.84	41.13	144.465		
9,900.00	6,083.00	5,400.00	5,398.09	77.35	18.77	-37.78	-1,761.73	-102.91	6,041.06	5,999.88	41.18	146.690		
10,000.00	6,083.00	5,400.00	5,398.09	79.05	18.77	-37.78	-1,761.73	-102.91	6,140.18	6,098.94	41.23	148.910		
10,100.00	6,083.00	5,400.00	5,398.09	80.75	18.77	-37.78	-1,761.73	-102.91	6,239.32	6,198.04	41.29	151.122		
10,200.00	6,083.00	5,400.00	5,398.09	82.46	18.77	-37.78	-1,761.73	-102.91	6,338.50	6,297.16	41.34	153.327		
10,300.00	6,083.00	5,400.00	5,398.09	84.17	18.77	-37.78	-1,761.73	-102.91	6,437.70	6,396.30	41.39	155.526		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 32-5 - OWB - GYRO												Offset Site Error:	0.00 usft
Survey Program: 100-GYRO-MWD												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	
10,400.00	6,083.00	5,400.00	5,398.09	85.88	18.77	-37.78	-1,761.73	-102.91	6,536.92	6,495.47	41.45	157.717	
10,500.00	6,083.00	5,400.00	5,398.09	87.59	18.77	-37.78	-1,761.73	-102.91	6,636.17	6,594.66	41.50	159.901	
10,600.00	6,083.00	5,400.00	5,398.09	89.30	18.77	-37.78	-1,761.73	-102.91	6,735.43	6,693.88	41.56	162.078	
10,700.00	6,083.00	5,400.00	5,398.09	91.02	18.77	-37.78	-1,761.73	-102.91	6,834.72	6,793.11	41.61	164.247	
10,800.00	6,083.00	5,400.00	5,398.09	92.74	18.77	-37.78	-1,761.73	-102.91	6,934.03	6,892.37	41.67	166.409	
10,900.00	6,083.00	5,400.00	5,398.09	94.46	18.77	-37.78	-1,761.73	-102.91	7,033.36	6,991.64	41.73	168.563	
11,000.00	6,083.00	5,400.00	5,398.09	96.19	18.77	-37.78	-1,761.73	-102.91	7,132.71	7,090.93	41.78	170.709	
11,100.00	6,083.00	5,400.00	5,398.09	97.91	18.77	-37.78	-1,761.73	-102.91	7,232.08	7,190.24	41.84	172.848	
11,200.00	6,083.00	5,400.00	5,398.09	99.64	18.77	-37.78	-1,761.73	-102.91	7,331.46	7,289.56	41.90	174.979	
11,300.00	6,083.00	5,400.00	5,398.09	101.37	18.77	-37.78	-1,761.73	-102.91	7,430.86	7,388.91	41.96	177.101	
11,400.00	6,083.00	5,400.00	5,398.09	103.10	18.77	-37.78	-1,761.73	-102.91	7,530.28	7,488.26	42.02	179.216	
11,500.00	6,083.00	5,400.00	5,398.09	104.83	18.77	-37.78	-1,761.73	-102.91	7,629.71	7,587.63	42.08	181.323	
11,600.00	6,083.00	5,400.00	5,398.09	106.56	18.77	-37.78	-1,761.73	-102.91	7,729.16	7,687.02	42.14	183.421	
11,700.00	6,083.00	5,400.00	5,398.09	108.30	18.77	-37.78	-1,761.73	-102.91	7,828.62	7,786.42	42.20	185.511	
11,800.00	6,083.00	5,400.00	5,398.09	110.03	18.77	-37.78	-1,761.73	-102.91	7,928.09	7,885.83	42.26	187.593	
11,900.00	6,083.00	5,400.00	5,398.09	111.77	18.77	-37.78	-1,761.73	-102.91	8,027.58	7,985.25	42.32	189.666	
12,000.00	6,083.00	5,400.00	5,398.09	113.51	18.77	-37.78	-1,761.73	-102.91	8,127.08	8,084.69	42.39	191.731	
12,100.00	6,083.00	5,400.00	5,398.09	115.24	18.77	-37.78	-1,761.73	-102.91	8,226.59	8,184.14	42.45	193.787	
12,200.00	6,083.00	5,400.00	5,398.09	116.98	18.77	-37.78	-1,761.73	-102.91	8,326.11	8,283.60	42.52	195.835	
12,300.00	6,083.00	5,400.00	5,398.09	118.73	18.77	-37.78	-1,761.73	-102.91	8,425.65	8,383.07	42.58	197.874	
12,400.00	6,083.00	5,400.00	5,398.09	120.47	18.77	-37.78	-1,761.73	-102.91	8,525.19	8,482.55	42.65	199.904	
12,500.00	6,083.00	5,400.00	5,398.09	122.21	18.77	-37.78	-1,761.73	-102.91	8,624.75	8,582.04	42.71	201.926	
12,600.00	6,083.00	5,400.00	5,398.09	123.95	18.77	-37.78	-1,761.73	-102.91	8,724.32	8,681.54	42.78	203.939	
12,700.00	6,083.00	5,400.00	5,398.09	125.70	18.77	-37.78	-1,761.73	-102.91	8,823.89	8,781.05	42.85	205.943	
12,800.00	6,083.00	5,400.00	5,398.09	127.44	18.77	-37.78	-1,761.73	-102.91	8,923.48	8,880.56	42.91	207.938	
12,900.00	6,083.00	5,400.00	5,398.09	129.19	18.77	-37.78	-1,761.73	-102.91	9,023.07	8,980.09	42.98	209.924	
13,000.00	6,083.00	5,400.00	5,398.09	130.94	18.77	-37.78	-1,761.73	-102.91	9,122.68	9,079.62	43.05	211.901	
13,100.00	6,083.00	5,400.00	5,398.09	132.68	18.77	-37.78	-1,761.73	-102.91	9,222.29	9,179.17	43.12	213.869	
13,200.00	6,083.00	5,400.00	5,398.09	134.43	18.77	-37.78	-1,761.73	-102.91	9,321.91	9,278.72	43.19	215.829	
13,300.00	6,083.00	5,400.00	5,398.09	136.18	18.77	-37.78	-1,761.73	-102.91	9,421.54	9,378.27	43.26	217.779	
13,400.00	6,083.00	5,400.00	5,398.09	137.93	18.77	-37.78	-1,761.73	-102.91	9,521.17	9,477.84	43.33	219.720	
13,500.00	6,083.00	5,400.00	5,398.09	139.68	18.77	-37.78	-1,761.73	-102.91	9,620.82	9,577.41	43.40	221.652	
13,600.00	6,083.00	5,400.00	5,398.09	141.43	18.77	-37.78	-1,761.73	-102.91	9,720.47	9,676.99	43.48	223.575	
13,700.00	6,083.00	5,400.00	5,398.09	143.18	18.77	-37.78	-1,761.73	-102.91	9,820.13	9,776.58	43.55	225.489	
13,800.00	6,083.00	5,400.00	5,398.09	144.94	18.77	-37.78	-1,761.73	-102.91	9,919.79	9,876.17	43.62	227.394	
13,900.00	6,083.00	5,400.00	5,398.09	146.69	18.77	-37.78	-1,761.73	-102.91	10,019.46	9,975.77	43.70	229.289	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 41-6 - 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)	Separation Factor		
100.00	100.00	24.00	24.00	0.27	0.28	-95.86	-403.34	-3,926.75	3,947.41	3,946.86	0.55	7,176.637		
200.00	200.00	124.00	124.00	0.63	1.72	-95.86	-403.34	-3,926.75	3,947.41	3,945.06	2.35	1,679.852	CC	
300.00	299.98	223.98	223.98	0.98	3.97	-159.60	-403.34	-3,926.75	3,949.05	3,944.10	4.95	798.043	ES	
400.00	399.84	323.84	323.84	1.34	6.03	-159.59	-403.34	-3,926.75	3,953.96	3,946.58	7.37	536.143		
500.00	499.55	423.55	423.55	1.71	8.07	-159.62	-403.34	-3,926.75	3,961.08	3,951.31	9.77	405.507		
600.00	599.25	523.25	523.25	2.08	10.09	-159.66	-403.34	-3,926.75	3,968.27	3,956.13	12.15	326.689		
700.00	698.96	622.96	622.96	2.45	12.10	-159.70	-403.34	-3,926.75	3,975.47	3,960.94	14.52	273.759		
800.00	798.67	722.67	722.67	2.83	14.12	-159.74	-403.34	-3,926.75	3,982.66	3,965.77	16.89	235.737		
900.00	898.37	822.37	822.37	3.21	16.13	-159.78	-403.34	-3,926.75	3,989.86	3,970.59	19.27	207.094		
1,000.00	998.08	922.08	922.08	3.58	18.14	-159.81	-403.34	-3,926.75	3,997.05	3,975.42	21.64	184.736		
1,100.00	1,097.78	1,021.78	1,021.78	3.96	20.15	-159.85	-403.34	-3,926.75	4,004.25	3,980.25	24.01	166.798		
1,200.00	1,197.49	1,121.49	1,121.49	4.34	22.15	-159.89	-403.34	-3,926.75	4,011.46	3,985.08	26.38	152.087		
1,300.00	1,297.19	1,221.19	1,221.19	4.72	24.16	-159.93	-403.34	-3,926.75	4,018.66	3,989.91	28.75	139.802		
1,400.00	1,396.90	1,320.90	1,320.90	5.10	26.17	-159.96	-403.34	-3,926.75	4,025.87	3,994.75	31.11	129.389		
1,500.00	1,496.60	1,420.60	1,420.60	5.47	28.18	-160.00	-403.34	-3,926.75	4,033.07	3,999.59	33.48	120.450		
1,600.00	1,596.31	1,520.31	1,520.31	5.85	30.18	-160.04	-403.34	-3,926.75	4,040.28	4,004.43	35.85	112.693		
1,700.00	1,696.02	1,620.02	1,620.02	6.23	32.19	-160.08	-403.34	-3,926.75	4,047.49	4,009.27	38.22	105.898		
1,800.00	1,795.72	1,719.72	1,719.72	6.61	34.19	-160.11	-403.34	-3,926.75	4,054.70	4,014.11	40.59	99.896		
1,900.00	1,895.43	1,819.43	1,819.43	6.99	36.20	-160.15	-403.34	-3,926.75	4,061.92	4,018.96	42.96	94.557		
2,000.00	1,995.13	1,919.13	1,919.13	7.37	38.21	-160.19	-403.34	-3,926.75	4,069.13	4,023.81	45.33	89.775		
2,100.00	2,094.84	2,018.84	2,018.84	7.75	40.21	-160.22	-403.34	-3,926.75	4,076.35	4,028.65	47.69	85.469		
2,200.00	2,194.54	2,118.54	2,118.54	8.13	42.22	-160.26	-403.34	-3,926.75	4,083.57	4,033.51	50.06	81.570		
2,300.00	2,294.25	2,218.25	2,218.25	8.51	44.22	-160.29	-403.34	-3,926.75	4,090.79	4,038.36	52.43	78.023		
2,400.00	2,393.95	2,317.95	2,317.95	8.89	46.23	-160.33	-403.34	-3,926.75	4,098.01	4,043.21	54.80	74.783		
2,500.00	2,493.66	2,417.66	2,417.66	9.26	48.24	-160.37	-403.34	-3,926.75	4,105.23	4,048.07	57.17	71.812		
2,600.00	2,593.37	2,517.37	2,517.37	9.64	50.24	-160.40	-403.34	-3,926.75	4,112.46	4,052.92	59.53	69.077		
2,700.00	2,693.07	2,617.07	2,617.07	10.02	52.25	-160.44	-403.34	-3,926.75	4,119.68	4,057.78	61.90	66.551		
2,800.00	2,792.78	2,716.78	2,716.78	10.40	54.25	-160.47	-403.34	-3,926.75	4,126.91	4,062.64	64.27	64.212		
2,900.00	2,892.48	2,816.48	2,816.48	10.78	56.26	-160.51	-403.34	-3,926.75	4,134.14	4,067.50	66.64	62.038		
3,000.00	2,992.19	2,916.19	2,916.19	11.16	58.26	-160.55	-403.34	-3,926.75	4,141.37	4,072.37	69.01	60.014		
3,100.00	3,091.89	3,015.89	3,015.89	11.54	60.27	-160.58	-403.34	-3,926.75	4,148.61	4,077.23	71.37	58.125		
3,200.00	3,191.60	3,115.60	3,115.60	11.92	62.27	-160.62	-403.34	-3,926.75	4,155.84	4,082.10	73.74	56.356		
3,300.00	3,291.31	3,215.31	3,215.31	12.30	64.28	-160.65	-403.34	-3,926.75	4,163.08	4,086.97	76.11	54.698		
3,400.00	3,391.01	3,315.01	3,315.01	12.68	66.28	-160.69	-403.34	-3,926.75	4,170.32	4,091.84	78.48	53.140		
3,500.00	3,490.72	3,414.72	3,414.72	13.06	68.29	-160.72	-403.34	-3,926.75	4,177.55	4,096.71	80.85	51.673		
3,600.00	3,590.42	3,514.42	3,514.42	13.44	70.29	-160.75	-403.34	-3,926.75	4,184.80	4,101.58	83.21	50.290		
3,700.00	3,690.13	3,614.13	3,614.13	13.82	72.30	-160.79	-403.34	-3,926.75	4,192.04	4,106.46	85.58	48.983		
3,800.00	3,789.83	3,713.83	3,713.83	14.19	74.31	-160.82	-403.34	-3,926.75	4,199.28	4,111.33	87.95	47.747		
3,900.00	3,889.54	3,813.54	3,813.54	14.57	76.31	-160.86	-403.34	-3,926.75	4,206.53	4,116.21	90.32	46.575		
4,000.00	3,989.24	3,913.24	3,913.24	14.95	78.32	-160.89	-403.34	-3,926.75	4,213.77	4,121.09	92.68	45.464		
4,100.00	4,088.95	4,012.95	4,012.95	15.33	80.32	-160.93	-403.34	-3,926.75	4,221.02	4,125.97	95.05	44.407		
4,200.00	4,188.66	4,112.66	4,112.66	15.71	82.33	-160.96	-403.34	-3,926.75	4,228.27	4,130.85	97.42	43.402		
4,300.00	4,288.36	4,212.36	4,212.36	16.09	84.33	-160.99	-403.34	-3,926.75	4,235.52	4,135.73	99.79	42.445		
4,400.00	4,388.07	4,312.07	4,312.07	16.47	86.34	-161.03	-403.34	-3,926.75	4,242.77	4,140.62	102.16	41.533		
4,500.00	4,487.77	4,411.77	4,411.77	16.85	88.34	-161.06	-403.34	-3,926.75	4,250.03	4,145.51	104.52	40.661		
4,600.00	4,587.48	4,511.48	4,511.48	17.23	90.35	-161.09	-403.34	-3,926.75	4,257.28	4,150.39	106.89	39.828		
4,700.00	4,687.18	4,611.18	4,611.18	17.61	92.35	-161.13	-403.34	-3,926.75	4,264.54	4,155.28	109.26	39.032		
4,800.00	4,786.89	4,710.89	4,710.89	17.99	94.36	-161.16	-403.34	-3,926.75	4,271.80	4,160.17	111.63	38.269		
4,900.00	4,886.59	4,810.59	4,810.59	18.37	96.36	-161.19	-403.34	-3,926.75	4,279.06	4,165.07	113.99	37.538		
5,000.00	4,986.30	4,910.30	4,910.30	18.75	98.37	-161.23	-403.34	-3,926.75	4,286.32	4,169.96	116.36	36.836		
5,100.00	5,086.01	5,010.01	5,010.01	19.13	100.37	-161.26	-403.34	-3,926.75	4,293.58	4,174.85	118.73	36.163		
5,200.00	5,185.71	5,109.71	5,109.71	19.51	102.38	-161.29	-403.34	-3,926.75	4,300.85	4,179.75	121.10	35.516		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 41-6 - 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)	Separation Factor		
5,300.00	5,285.42	5,209.42	5,209.42	19.89	104.38	-161.33	-403.34	-3,926.75	4,308.11	4,184.65	123.46	34.894		
5,400.00	5,385.12	5,309.12	5,309.12	20.26	106.39	-161.36	-403.34	-3,926.75	4,315.38	4,189.55	125.83	34.295		
5,500.00	5,484.83	5,408.83	5,408.83	20.64	108.39	-161.39	-403.34	-3,926.75	4,322.65	4,194.45	128.20	33.718		
5,600.00	5,584.37	5,508.37	5,508.37	21.03	110.40	-125.76	-403.34	-3,926.75	4,330.25	4,199.69	130.57	33.165		
5,700.00	5,681.71	5,605.71	5,605.71	21.43	112.35	-109.73	-403.34	-3,926.75	4,339.89	4,206.99	132.90	32.654		
5,800.00	5,773.87	5,697.87	5,697.87	21.85	114.21	-104.51	-403.34	-3,926.75	4,351.76	4,216.60	135.16	32.198		
5,900.00	5,858.06	5,782.06	5,782.06	22.29	115.90	-101.62	-403.34	-3,926.75	4,365.89	4,228.61	137.28	31.804		
6,000.00	5,931.71	5,855.71	5,855.71	22.78	117.38	-99.48	-403.34	-3,926.75	4,382.36	4,243.14	139.22	31.478		
6,100.00	5,992.59	5,916.59	5,916.59	23.33	118.60	-97.52	-403.34	-3,926.75	4,401.23	4,260.28	140.95	31.226		
6,200.00	6,038.86	5,962.86	5,962.86	23.96	119.53	-95.48	-403.34	-3,926.75	4,422.45	4,280.02	142.43	31.050		
6,300.00	6,069.09	5,993.09	5,993.09	24.69	120.14	-93.22	-403.34	-3,926.75	4,445.83	4,302.19	143.64	30.951		
6,400.00	6,082.38	6,006.38	6,006.38	25.49	120.41	-90.71	-403.34	-3,926.75	4,470.96	4,326.41	144.55	30.931 SF		
6,500.00	6,083.00	6,007.00	6,007.00	26.37	120.42	-90.00	-403.34	-3,926.75	4,497.57	4,352.33	145.24	30.967		
6,600.00	6,083.00	6,007.00	6,007.00	27.33	120.42	-90.00	-403.34	-3,926.75	4,526.19	4,380.21	145.98	31.007		
6,700.00	6,083.00	6,007.00	6,007.00	28.37	120.42	-90.00	-403.34	-3,926.75	4,556.83	4,410.06	146.77	31.048		
6,800.00	6,083.00	6,007.00	6,007.00	29.48	120.42	-90.00	-403.34	-3,926.75	4,589.44	4,441.84	147.60	31.094		
6,900.00	6,083.00	6,007.00	6,007.00	30.66	120.42	-90.00	-403.34	-3,926.75	4,623.99	4,475.52	148.46	31.146		
7,000.00	6,083.00	6,007.00	6,007.00	31.89	120.42	-90.00	-403.34	-3,926.75	4,660.42	4,511.07	149.35	31.204		
7,100.00	6,083.00	6,007.00	6,007.00	33.17	120.42	-90.00	-403.34	-3,926.75	4,698.70	4,548.44	150.26	31.271		
7,200.00	6,083.00	6,007.00	6,007.00	34.49	120.42	-90.00	-403.34	-3,926.75	4,738.79	4,587.61	151.18	31.345		
7,300.00	6,083.00	6,007.00	6,007.00	35.85	120.42	-90.00	-403.34	-3,926.75	4,780.63	4,628.52	152.11	31.429		
7,400.00	6,083.00	6,007.00	6,007.00	37.25	120.42	-90.00	-403.34	-3,926.75	4,824.17	4,671.14	153.04	31.523		
7,500.00	6,083.00	6,007.00	6,007.00	38.67	120.42	-90.00	-403.34	-3,926.75	4,869.39	4,715.42	153.97	31.626		
7,600.00	6,083.00	6,007.00	6,007.00	40.13	120.42	-90.00	-403.34	-3,926.75	4,916.22	4,761.33	154.89	31.739		
7,700.00	6,083.00	6,007.00	6,007.00	41.61	120.42	-90.00	-403.34	-3,926.75	4,964.63	4,808.82	155.81	31.863		
7,800.00	6,083.00	6,007.00	6,007.00	43.11	120.42	-90.00	-403.34	-3,926.75	5,014.56	4,857.84	156.72	31.997		
7,900.00	6,083.00	6,007.00	6,007.00	44.63	120.42	-90.00	-403.34	-3,926.75	5,065.97	4,908.36	157.62	32.141		
8,000.00	6,083.00	6,007.00	6,007.00	46.17	120.42	-90.00	-403.34	-3,926.75	5,118.82	4,960.33	158.50	32.296		
8,100.00	6,083.00	6,007.00	6,007.00	47.73	120.42	-90.00	-403.34	-3,926.75	5,173.07	5,013.70	159.37	32.460		
8,200.00	6,083.00	6,007.00	6,007.00	49.30	120.42	-90.00	-403.34	-3,926.75	5,228.66	5,068.45	160.22	32.635		
8,300.00	6,083.00	6,007.00	6,007.00	50.88	120.42	-90.00	-403.34	-3,926.75	5,285.57	5,124.52	161.05	32.819		
8,400.00	6,083.00	6,007.00	6,007.00	52.48	120.42	-90.00	-403.34	-3,926.75	5,343.74	5,181.87	161.87	33.013		
8,500.00	6,083.00	6,007.00	6,007.00	54.09	120.42	-90.00	-403.34	-3,926.75	5,403.13	5,240.46	162.67	33.216		
8,600.00	6,083.00	6,007.00	6,007.00	55.70	120.42	-90.00	-403.34	-3,926.75	5,463.71	5,300.26	163.45	33.428		
8,700.00	6,083.00	6,007.00	6,007.00	57.33	120.42	-90.00	-403.34	-3,926.75	5,525.43	5,361.22	164.21	33.649		
8,800.00	6,083.00	6,007.00	6,007.00	58.96	120.42	-90.00	-403.34	-3,926.75	5,588.26	5,423.31	164.95	33.878		
8,900.00	6,083.00	6,007.00	6,007.00	60.61	120.42	-90.00	-403.34	-3,926.75	5,652.16	5,486.48	165.68	34.115		
9,000.00	6,083.00	6,007.00	6,007.00	62.26	120.42	-90.00	-403.34	-3,926.75	5,717.10	5,550.71	166.38	34.361		
9,100.00	6,083.00	6,007.00	6,007.00	63.91	120.42	-90.00	-403.34	-3,926.75	5,783.04	5,615.96	167.07	34.614		
9,200.00	6,083.00	6,007.00	6,007.00	65.58	120.42	-90.00	-403.34	-3,926.75	5,849.94	5,682.20	167.74	34.875		
9,300.00	6,083.00	6,007.00	6,007.00	67.24	120.42	-90.00	-403.34	-3,926.75	5,917.78	5,749.38	168.39	35.143		
9,400.00	6,083.00	6,007.00	6,007.00	68.92	120.42	-90.00	-403.34	-3,926.75	5,986.51	5,817.49	169.02	35.418		
9,500.00	6,083.00	6,007.00	6,007.00	70.60	120.42	-90.00	-403.34	-3,926.75	6,056.12	5,886.48	169.64	35.700		
9,600.00	6,083.00	6,007.00	6,007.00	72.28	120.42	-90.00	-403.34	-3,926.75	6,126.57	5,956.34	170.24	35.988		
9,700.00	6,083.00	6,007.00	6,007.00	73.97	120.42	-90.00	-403.34	-3,926.75	6,197.84	6,027.02	170.82	36.283		
9,800.00	6,083.00	6,007.00	6,007.00	75.66	120.42	-90.00	-403.34	-3,926.75	6,269.89	6,098.50	171.38	36.584		
9,900.00	6,083.00	6,007.00	6,007.00	77.35	120.42	-90.00	-403.34	-3,926.75	6,342.69	6,170.76	171.93	36.890		
10,000.00	6,083.00	6,007.00	6,007.00	79.05	120.42	-90.00	-403.34	-3,926.75	6,416.23	6,243.77	172.47	37.203		
10,100.00	6,083.00	6,007.00	6,007.00	80.75	120.42	-90.00	-403.34	-3,926.75	6,490.48	6,317.49	172.99	37.520		
10,200.00	6,083.00	6,007.00	6,007.00	82.46	120.42	-90.00	-403.34	-3,926.75	6,565.41	6,391.92	173.49	37.843		
10,300.00	6,083.00	6,007.00	6,007.00	84.17	120.42	-90.00	-403.34	-3,926.75	6,641.00	6,467.02	173.98	38.171		
10,400.00	6,083.00	6,007.00	6,007.00	85.88	120.42	-90.00	-403.34	-3,926.75	6,717.23	6,542.78	174.46	38.504		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - ABND VERT PRONGHORN 41-6 - 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)	Separation Factor		
10,500.00	6,083.00	6,007.00	6,007.00	87.59	120.42	-90.00	-403.34	-3,926.75	6,794.08	6,619.16	174.92	38.841		
10,600.00	6,083.00	6,007.00	6,007.00	89.30	120.42	-90.00	-403.34	-3,926.75	6,871.52	6,696.15	175.37	39.184		
10,700.00	6,083.00	6,007.00	6,007.00	91.02	120.42	-90.00	-403.34	-3,926.75	6,949.54	6,773.73	175.80	39.530		
10,800.00	6,083.00	6,007.00	6,007.00	92.74	120.42	-90.00	-403.34	-3,926.75	7,028.11	6,851.88	176.23	39.881		
10,900.00	6,083.00	6,007.00	6,007.00	94.46	120.42	-90.00	-403.34	-3,926.75	7,107.22	6,930.58	176.64	40.235		
11,000.00	6,083.00	6,007.00	6,007.00	96.19	120.42	-90.00	-403.34	-3,926.75	7,186.86	7,009.81	177.04	40.594		
11,100.00	6,083.00	6,007.00	6,007.00	97.91	120.42	-90.00	-403.34	-3,926.75	7,266.99	7,089.56	177.43	40.956		
11,200.00	6,083.00	6,007.00	6,007.00	99.64	120.42	-90.00	-403.34	-3,926.75	7,347.62	7,169.80	177.81	41.322		
11,300.00	6,083.00	6,007.00	6,007.00	101.37	120.42	-90.00	-403.34	-3,926.75	7,428.71	7,250.53	178.18	41.691		
11,400.00	6,083.00	6,007.00	6,007.00	103.10	120.42	-90.00	-403.34	-3,926.75	7,510.26	7,331.72	178.54	42.064		
11,500.00	6,083.00	6,007.00	6,007.00	104.83	120.42	-90.00	-403.34	-3,926.75	7,592.25	7,413.36	178.89	42.440		
11,600.00	6,083.00	6,007.00	6,007.00	106.56	120.42	-90.00	-403.34	-3,926.75	7,674.67	7,495.44	179.23	42.820		
11,700.00	6,083.00	6,007.00	6,007.00	108.30	120.42	-90.00	-403.34	-3,926.75	7,757.51	7,577.94	179.56	43.202		
11,800.00	6,083.00	6,007.00	6,007.00	110.03	120.42	-90.00	-403.34	-3,926.75	7,840.74	7,660.85	179.89	43.587		
11,900.00	6,083.00	6,007.00	6,007.00	111.77	120.42	-90.00	-403.34	-3,926.75	7,924.36	7,744.16	180.20	43.975		
12,000.00	6,083.00	6,007.00	6,007.00	113.51	120.42	-90.00	-403.34	-3,926.75	8,008.35	7,827.85	180.51	44.366		
12,100.00	6,083.00	6,007.00	6,007.00	115.24	120.42	-90.00	-403.34	-3,926.75	8,092.71	7,911.91	180.81	44.759		
12,200.00	6,083.00	6,007.00	6,007.00	116.98	120.42	-90.00	-403.34	-3,926.75	8,177.43	7,996.33	181.10	45.155		
12,300.00	6,083.00	6,007.00	6,007.00	118.73	120.42	-90.00	-403.34	-3,926.75	8,262.48	8,081.10	181.38	45.553		
12,400.00	6,083.00	6,007.00	6,007.00	120.47	120.42	-90.00	-403.34	-3,926.75	8,347.87	8,166.21	181.66	45.954		
12,500.00	6,083.00	6,007.00	6,007.00	122.21	120.42	-90.00	-403.34	-3,926.75	8,433.57	8,251.65	181.93	46.357		
12,600.00	6,083.00	6,007.00	6,007.00	123.95	120.42	-90.00	-403.34	-3,926.75	8,519.59	8,337.40	182.19	46.762		
12,700.00	6,083.00	6,007.00	6,007.00	125.70	120.42	-90.00	-403.34	-3,926.75	8,605.91	8,423.46	182.45	47.169		
12,800.00	6,083.00	6,007.00	6,007.00	127.44	120.42	-90.00	-403.34	-3,926.75	8,692.53	8,509.83	182.70	47.578		
12,900.00	6,083.00	6,007.00	6,007.00	129.19	120.42	-90.00	-403.34	-3,926.75	8,779.43	8,596.48	182.94	47.990		
13,000.00	6,083.00	6,007.00	6,007.00	130.94	120.42	-90.00	-403.34	-3,926.75	8,866.60	8,683.42	183.18	48.403		
13,100.00	6,083.00	6,007.00	6,007.00	132.68	120.42	-90.00	-403.34	-3,926.75	8,954.04	8,770.62	183.42	48.818		
13,200.00	6,083.00	6,007.00	6,007.00	134.43	120.42	-90.00	-403.34	-3,926.75	9,041.75	8,858.10	183.65	49.235		
13,300.00	6,083.00	6,007.00	6,007.00	136.18	120.42	-90.00	-403.34	-3,926.75	9,129.70	8,945.83	183.87	49.653		
13,400.00	6,083.00	6,007.00	6,007.00	137.93	120.42	-90.00	-403.34	-3,926.75	9,217.90	9,033.81	184.09	50.073		
13,500.00	6,083.00	6,007.00	6,007.00	139.68	120.42	-90.00	-403.34	-3,926.75	9,306.34	9,122.04	184.30	50.495		
13,600.00	6,083.00	6,007.00	6,007.00	141.43	120.42	-90.00	-403.34	-3,926.75	9,395.01	9,210.50	184.51	50.918		
13,700.00	6,083.00	6,007.00	6,007.00	143.18	120.42	-90.00	-403.34	-3,926.75	9,483.91	9,299.20	184.72	51.343		
13,800.00	6,083.00	6,007.00	6,007.00	144.94	120.42	-90.00	-403.34	-3,926.75	9,573.03	9,388.11	184.92	51.770		
13,900.00	6,083.00	6,007.00	6,007.00	146.69	120.42	-90.00	-403.34	-3,926.75	9,662.36	9,477.24	185.11	52.197		
14,000.00	6,083.00	6,007.00	6,007.00	148.44	120.42	-90.00	-403.34	-3,926.75	9,751.89	9,566.59	185.30	52.626		
14,100.00	6,083.00	6,007.00	6,007.00	150.20	120.42	-90.00	-403.34	-3,926.75	9,841.63	9,656.14	185.49	53.057		
14,200.00	6,083.00	6,007.00	6,007.00	151.95	120.42	-90.00	-403.34	-3,926.75	9,931.57	9,745.89	185.68	53.488		
14,300.00	6,083.00	6,007.00	6,007.00	153.70	120.42	-90.00	-403.34	-3,926.75	10,021.69	9,835.83	185.86	53.921		
14,400.00	6,083.00	6,007.00	6,007.00	155.46	120.42	-90.00	-403.34	-3,926.75	10,112.00	9,925.97	186.04	54.355		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 146-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	10,624.00	6,231.41	0.00	121.87	72.28	887.32	2,777.08	6,838.04					
100.00	100.00	10,624.00	6,231.41	0.27	121.87	72.28	887.32	2,777.08	6,747.72	6,709.10	38.62	174.709		
200.00	200.00	10,624.00	6,231.41	0.63	121.87	72.28	887.32	2,777.08	6,657.68	6,619.03	38.65	172.265		
300.00	299.98	10,624.00	6,231.41	0.98	121.87	9.20	887.32	2,777.08	6,567.17	6,528.47	38.70	169.676		
400.00	399.84	10,624.00	6,231.41	1.34	121.87	9.96	887.32	2,777.08	6,475.51	6,436.72	38.79	166.957		
500.00	499.55	10,624.00	6,231.41	1.71	121.87	10.13	887.32	2,777.08	6,383.16	6,344.29	38.87	164.238		
600.00	599.25	10,624.00	6,231.41	2.08	121.87	10.13	887.32	2,777.08	6,291.02	6,252.08	38.94	161.565		
700.00	698.96	10,624.00	6,231.41	2.45	121.87	10.13	887.32	2,777.08	6,199.12	6,160.09	39.02	158.853		
800.00	798.67	10,624.00	6,231.41	2.83	121.87	10.13	887.32	2,777.08	6,107.48	6,068.35	39.12	156.107		
900.00	898.37	10,624.00	6,231.41	3.21	121.87	10.13	887.32	2,777.08	6,016.10	5,976.86	39.24	153.332		
1,000.00	998.08	10,624.00	6,231.41	3.58	121.87	10.13	887.32	2,777.08	5,925.00	5,885.64	39.36	150.533		
1,100.00	1,097.78	10,624.00	6,231.41	3.96	121.87	10.13	887.32	2,777.08	5,834.19	5,794.70	39.50	147.716		
1,200.00	1,197.49	10,624.00	6,231.41	4.34	121.87	10.13	887.32	2,777.08	5,743.69	5,704.05	39.64	144.884		
1,300.00	1,297.19	10,624.00	6,231.41	4.72	121.87	10.13	887.32	2,777.08	5,653.51	5,613.71	39.80	142.042		
1,400.00	1,396.90	10,624.00	6,231.41	5.10	121.87	10.13	887.32	2,777.08	5,563.67	5,523.70	39.97	139.194		
1,500.00	1,496.60	10,624.00	6,231.41	5.47	121.87	10.13	887.32	2,777.08	5,474.17	5,434.02	40.15	136.344		
1,600.00	1,596.31	10,624.00	6,231.41	5.85	121.87	10.13	887.32	2,777.08	5,385.05	5,344.71	40.34	133.494		
1,700.00	1,696.02	10,624.00	6,231.41	6.23	121.87	10.13	887.32	2,777.08	5,296.31	5,255.77	40.54	130.648		
1,800.00	1,795.72	10,624.00	6,231.41	6.61	121.87	10.13	887.32	2,777.08	5,207.99	5,167.24	40.75	127.808		
1,900.00	1,895.43	10,624.00	6,231.41	6.99	121.87	10.13	887.32	2,777.08	5,120.09	5,079.12	40.97	124.978		
2,000.00	1,995.13	10,624.00	6,231.41	7.37	121.87	10.13	887.32	2,777.08	5,032.64	4,991.45	41.20	122.158		
2,100.00	2,094.84	10,624.00	6,231.41	7.75	121.87	10.13	887.32	2,777.08	4,945.67	4,904.24	41.44	119.352		
2,200.00	2,194.54	10,624.00	6,231.41	8.13	121.87	10.13	887.32	2,777.08	4,859.20	4,817.52	41.69	116.561		
2,300.00	2,294.25	10,624.00	6,231.41	8.51	121.87	10.13	887.32	2,777.08	4,773.26	4,731.32	41.95	113.788		
2,400.00	2,393.95	10,624.00	6,231.41	8.89	121.87	10.13	887.32	2,777.08	4,687.88	4,645.66	42.22	111.033		
2,500.00	2,493.66	10,624.00	6,231.41	9.26	121.87	10.13	887.32	2,777.08	4,603.09	4,560.59	42.50	108.299		
2,600.00	2,593.37	10,624.00	6,231.41	9.64	121.87	10.13	887.32	2,777.08	4,518.92	4,476.12	42.80	105.588		
2,700.00	2,693.07	10,624.00	6,231.41	10.02	121.87	10.13	887.32	2,777.08	4,435.40	4,392.30	43.10	102.902		
2,800.00	2,792.78	10,624.00	6,231.41	10.40	121.87	10.13	887.32	2,777.08	4,352.58	4,309.16	43.42	100.241		
2,900.00	2,892.48	10,624.00	6,231.41	10.78	121.87	10.13	887.32	2,777.08	4,270.50	4,226.75	43.75	97.607		
3,000.00	2,992.19	10,624.00	6,231.41	11.16	121.87	10.13	887.32	2,777.08	4,189.20	4,145.10	44.10	95.003		
3,100.00	3,091.89	10,624.00	6,231.41	11.54	121.87	10.13	887.32	2,777.08	4,108.72	4,064.26	44.45	92.430		
3,200.00	3,191.60	10,624.00	6,231.41	11.92	121.87	10.13	887.32	2,777.08	4,029.11	3,984.29	44.82	89.890		
3,300.00	3,291.31	10,624.00	6,231.41	12.30	121.87	10.13	887.32	2,777.08	3,950.43	3,905.23	45.21	87.384		
3,400.00	3,391.01	10,624.00	6,231.41	12.68	121.87	10.13	887.32	2,777.08	3,872.74	3,827.13	45.61	84.914		
3,500.00	3,490.72	10,624.00	6,231.41	13.06	121.87	10.13	887.32	2,777.08	3,796.09	3,750.07	46.02	82.483		
3,600.00	3,590.42	10,624.00	6,231.41	13.44	121.87	10.13	887.32	2,777.08	3,720.55	3,674.09	46.45	80.092		
3,700.00	3,690.13	10,624.00	6,231.41	13.82	121.87	10.13	887.32	2,777.08	3,646.19	3,599.28	46.90	77.743		
3,800.00	3,789.83	10,624.00	6,231.41	14.19	121.87	10.13	887.32	2,777.08	3,573.07	3,525.71	47.36	75.438		
3,900.00	3,889.54	10,624.00	6,231.41	14.57	121.87	10.13	887.32	2,777.08	3,501.29	3,453.45	47.84	73.180		
4,000.00	3,989.24	10,624.00	6,231.41	14.95	121.87	10.13	887.32	2,777.08	3,430.92	3,382.58	48.34	70.971		
4,100.00	4,088.95	10,624.00	6,231.41	15.33	121.87	10.13	887.32	2,777.08	3,362.05	3,313.20	48.86	68.813		
4,200.00	4,188.66	10,624.00	6,231.41	15.71	121.87	10.13	887.32	2,777.08	3,294.78	3,245.39	49.39	66.708		
4,300.00	4,288.36	10,624.00	6,231.41	16.09	121.87	10.13	887.32	2,777.08	3,229.21	3,179.27	49.94	64.660		
4,400.00	4,388.07	10,624.00	6,231.41	16.47	121.87	10.13	887.32	2,777.08	3,165.43	3,114.92	50.51	62.670		
4,500.00	4,487.77	10,624.00	6,231.41	16.85	121.87	10.13	887.32	2,777.08	3,103.57	3,052.48	51.10	60.741		
4,600.00	4,587.48	10,624.00	6,231.41	17.23	121.87	10.13	887.32	2,777.08	3,043.74	2,992.04	51.70	58.876		
4,700.00	4,687.18	10,624.00	6,231.41	17.61	121.87	10.13	887.32	2,777.08	2,986.06	2,933.74	52.32	57.078		
4,800.00	4,786.89	10,624.00	6,231.41	17.99	121.87	10.13	887.32	2,777.08	2,930.65	2,877.70	52.95	55.350		
4,900.00	4,886.59	10,624.00	6,231.41	18.37	121.87	10.13	887.32	2,777.08	2,877.66	2,824.06	53.59	53.693		
5,000.00	4,986.30	10,624.00	6,231.41	18.75	121.87	10.13	887.32	2,777.08	2,827.21	2,772.95	54.25	52.112		
5,100.00	5,086.01	10,624.00	6,231.41	19.13	121.87	10.13	887.32	2,777.08	2,779.44	2,724.52	54.92	50.609		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 146-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		
5,200.00	5,185.71	10,624.00	6,231.41	19.51	121.87	10.13	887.32	2,777.08	2,734.50	2,678.90	55.60	49.186		
5,300.00	5,285.42	10,624.00	6,231.41	19.89	121.87	10.13	887.32	2,777.08	2,692.52	2,636.24	56.28	47.846		
5,400.00	5,385.12	10,624.00	6,231.41	20.26	121.87	10.13	887.32	2,777.08	2,653.65	2,596.69	56.96	46.591		
5,500.00	5,484.83	10,624.00	6,231.41	20.64	121.87	10.13	887.32	2,777.08	2,618.02	2,560.38	57.63	45.424		
5,600.00	5,584.37	10,624.00	6,231.41	21.03	121.87	47.19	887.32	2,777.08	2,585.12	2,526.90	58.22	44.403		
5,700.00	5,681.71	10,624.00	6,231.41	21.43	121.87	65.94	887.32	2,777.08	2,552.07	2,493.83	58.25	43.816		
5,800.00	5,773.87	10,624.00	6,231.41	21.85	121.87	73.84	887.32	2,777.08	2,519.36	2,461.71	57.65	43.704		
5,900.00	5,858.06	10,624.00	6,231.41	22.29	121.87	79.17	887.32	2,777.08	2,488.00	2,431.52	56.48	44.054		
6,000.00	5,931.71	10,624.00	6,231.41	22.78	121.87	83.32	887.32	2,777.08	2,459.03	2,404.18	54.85	44.830		
6,100.00	5,992.59	10,624.00	6,231.41	23.33	121.87	86.64	887.32	2,777.08	2,433.42	2,380.47	52.95	45.956		
6,200.00	6,038.86	10,624.00	6,231.41	23.96	121.87	89.24	887.32	2,777.08	2,412.07	2,361.05	51.02	47.275		
6,300.00	6,069.09	10,624.00	6,231.41	24.69	121.87	91.12	887.32	2,777.08	2,395.76	2,346.38	49.38	48.518		
6,400.00	6,082.38	10,624.00	6,231.41	25.49	121.87	92.28	887.32	2,777.08	2,385.07	2,336.70	48.37	49.306		
6,500.00	6,083.00	10,624.00	6,231.41	26.37	121.87	92.47	887.32	2,777.08	2,379.89	2,331.55	48.34	49.233		
6,571.86	6,083.00	10,624.00	6,231.41	27.06	121.87	92.47	887.32	2,777.08	2,378.80	2,329.74	49.06	48.489 CC		
6,600.00	6,083.00	10,624.00	6,231.41	27.33	121.87	92.47	887.32	2,777.08	2,378.97	2,329.47	49.50	48.061 ES		
6,700.00	6,083.00	10,624.00	6,231.41	28.37	121.87	92.47	887.32	2,777.08	2,382.25	2,330.43	51.82	45.969		
6,800.00	6,083.00	10,624.00	6,231.41	29.48	121.87	92.47	887.32	2,777.08	2,389.72	2,334.59	55.13	43.347		
6,900.00	6,083.00	10,624.00	6,231.41	30.66	121.87	92.47	887.32	2,777.08	2,401.33	2,342.16	59.16	40.587		
7,000.00	6,083.00	10,624.00	6,231.41	31.89	121.87	92.47	887.32	2,777.08	2,417.03	2,353.34	63.69	37.952		
7,100.00	6,083.00	10,624.00	6,231.41	33.17	121.87	92.47	887.32	2,777.08	2,436.73	2,368.23	68.50	35.573		
7,200.00	6,083.00	10,624.00	6,231.41	34.49	121.87	92.47	887.32	2,777.08	2,460.34	2,386.88	73.46	33.493		
7,300.00	6,083.00	10,624.00	6,231.41	35.85	121.87	92.47	887.32	2,777.08	2,487.75	2,409.30	78.45	31.711		
7,400.00	6,083.00	10,624.00	6,231.41	37.25	121.87	92.47	887.32	2,777.08	2,518.83	2,435.43	83.40	30.200		
7,500.00	6,083.00	10,624.00	6,231.41	38.67	121.87	92.47	887.32	2,777.08	2,553.46	2,465.20	88.26	28.931		
7,600.00	6,083.00	10,624.00	6,231.41	40.13	121.87	92.47	887.32	2,777.08	2,591.48	2,498.51	92.98	27.872		
7,700.00	6,083.00	10,624.00	6,231.41	41.61	121.87	92.47	887.32	2,777.08	2,632.76	2,535.23	97.53	26.995		
7,800.00	6,083.00	10,624.00	6,231.41	43.11	121.87	92.47	887.32	2,777.08	2,677.13	2,575.24	101.89	26.274		
7,900.00	6,083.00	10,624.00	6,231.41	44.63	121.87	92.47	887.32	2,777.08	2,724.46	2,618.40	106.06	25.687		
8,000.00	6,083.00	10,624.00	6,231.41	46.17	121.87	92.47	887.32	2,777.08	2,774.58	2,664.55	110.03	25.217		
8,100.00	6,083.00	10,624.00	6,231.41	47.73	121.87	92.47	887.32	2,777.08	2,827.35	2,713.57	113.79	24.848		
8,200.00	6,083.00	10,624.00	6,231.41	49.30	121.87	92.47	887.32	2,777.08	2,882.63	2,765.29	117.34	24.567		
8,300.00	6,083.00	10,624.00	6,231.41	50.88	121.87	92.47	887.32	2,777.08	2,940.27	2,819.58	120.69	24.362		
8,400.00	6,083.00	10,624.00	6,231.41	52.48	121.87	92.47	887.32	2,777.08	3,000.14	2,876.29	123.85	24.224		
8,500.00	6,083.00	10,624.00	6,231.41	54.09	121.87	92.47	887.32	2,777.08	3,062.10	2,935.28	126.82	24.146		
8,600.00	6,083.00	10,624.00	6,231.41	55.70	121.87	92.47	887.32	2,777.08	3,126.03	2,996.43	129.61	24.120 SF		
8,700.00	6,083.00	10,624.00	6,231.41	57.33	121.87	92.47	887.32	2,777.08	3,191.82	3,059.60	132.22	24.140		
8,800.00	6,083.00	10,624.00	6,231.41	58.96	121.87	92.47	887.32	2,777.08	3,259.35	3,124.67	134.68	24.201		
8,900.00	6,083.00	10,624.00	6,231.41	60.61	121.87	92.47	887.32	2,777.08	3,328.51	3,191.53	136.97	24.300		
9,000.00	6,083.00	10,624.00	6,231.41	62.26	121.87	92.47	887.32	2,777.08	3,399.20	3,260.07	139.13	24.432		
9,100.00	6,083.00	10,624.00	6,231.41	63.91	121.87	92.47	887.32	2,777.08	3,471.34	3,330.19	141.15	24.594		
9,200.00	6,083.00	10,624.00	6,231.41	65.58	121.87	92.47	887.32	2,777.08	3,544.83	3,401.80	143.04	24.782		
9,300.00	6,083.00	10,624.00	6,231.41	67.24	121.87	92.47	887.32	2,777.08	3,619.60	3,474.79	144.81	24.996		
9,400.00	6,083.00	10,624.00	6,231.41	68.92	121.87	92.47	887.32	2,777.08	3,695.55	3,549.08	146.47	25.231		
9,500.00	6,083.00	10,624.00	6,231.41	70.60	121.87	92.47	887.32	2,777.08	3,772.63	3,624.60	148.03	25.486		
9,600.00	6,083.00	10,624.00	6,231.41	72.28	121.87	92.47	887.32	2,777.08	3,850.76	3,701.28	149.48	25.760		
9,700.00	6,083.00	10,624.00	6,231.41	73.97	121.87	92.47	887.32	2,777.08	3,929.88	3,779.03	150.85	26.051		
9,800.00	6,083.00	10,624.00	6,231.41	75.66	121.87	92.47	887.32	2,777.08	4,009.94	3,857.80	152.14	26.357		
9,900.00	6,083.00	10,624.00	6,231.41	77.35	121.87	92.47	887.32	2,777.08	4,090.87	3,937.53	153.34	26.678		
10,000.00	6,083.00	10,624.00	6,231.41	79.05	121.87	92.47	887.32	2,777.08	4,172.63	4,018.16	154.48	27.011		
10,100.00	6,083.00	10,624.00	6,231.41	80.75	121.87	92.47	887.32	2,777.08	4,255.17	4,099.63	155.54	27.357		
10,200.00	6,083.00	10,624.00	6,231.41	82.46	121.87	92.47	887.32	2,777.08	4,338.45	4,181.90	156.54	27.714		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft		
Survey Program: 146-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			
10,300.00	6,083.00	10,624.00	6,231.41	84.17	121.87	92.47	887.32	2,777.08	4,422.42	4,264.93	157.49	28.081			
10,400.00	6,083.00	10,624.00	6,231.41	85.88	121.87	92.47	887.32	2,777.08	4,507.04	4,348.66	158.38	28.458			
10,500.00	6,083.00	10,624.00	6,231.41	87.59	121.87	92.47	887.32	2,777.08	4,592.28	4,433.06	159.21	28.843			
10,600.00	6,083.00	10,624.00	6,231.41	89.30	121.87	92.47	887.32	2,777.08	4,678.10	4,518.10	160.01	29.237			
10,700.00	6,083.00	10,624.00	6,231.41	91.02	121.87	92.47	887.32	2,777.08	4,764.48	4,603.73	160.75	29.639			
10,800.00	6,083.00	10,624.00	6,231.41	92.74	121.87	92.47	887.32	2,777.08	4,851.38	4,689.93	161.46	30.048			
10,900.00	6,083.00	10,624.00	6,231.41	94.46	121.87	92.47	887.32	2,777.08	4,938.78	4,776.66	162.12	30.463			
11,000.00	6,083.00	10,624.00	6,231.41	96.19	121.87	92.47	887.32	2,777.08	5,026.65	4,863.89	162.75	30.885			
11,100.00	6,083.00	10,624.00	6,231.41	97.91	121.87	92.47	887.32	2,777.08	5,114.96	4,951.61	163.35	31.313			
11,200.00	6,083.00	10,624.00	6,231.41	99.64	121.87	92.47	887.32	2,777.08	5,203.69	5,039.78	163.92	31.746			
11,300.00	6,083.00	10,624.00	6,231.41	101.37	121.87	92.47	887.32	2,777.08	5,292.83	5,128.38	164.45	32.184			
11,400.00	6,083.00	10,624.00	6,231.41	103.10	121.87	92.47	887.32	2,777.08	5,382.35	5,217.39	164.96	32.627			
11,500.00	6,083.00	10,624.00	6,231.41	104.83	121.87	92.47	887.32	2,777.08	5,472.23	5,306.78	165.45	33.075			
11,600.00	6,083.00	10,624.00	6,231.41	106.56	121.87	92.47	887.32	2,777.08	5,562.46	5,396.55	165.91	33.527			
11,700.00	6,083.00	10,624.00	6,231.41	108.30	121.87	92.47	887.32	2,777.08	5,653.01	5,486.67	166.35	33.983			
11,800.00	6,083.00	10,624.00	6,231.41	110.03	121.87	92.47	887.32	2,777.08	5,743.88	5,577.12	166.76	34.443			
11,900.00	6,083.00	10,624.00	6,231.41	111.77	121.87	92.47	887.32	2,777.08	5,835.05	5,667.89	167.16	34.907			
12,000.00	6,083.00	10,624.00	6,231.41	113.51	121.87	92.47	887.32	2,777.08	5,926.50	5,758.97	167.54	35.374			
12,100.00	6,083.00	10,624.00	6,231.41	115.24	121.87	92.47	887.32	2,777.08	6,018.23	5,850.33	167.90	35.844			
12,200.00	6,083.00	10,624.00	6,231.41	116.98	121.87	92.47	887.32	2,777.08	6,110.21	5,941.97	168.25	36.317			
12,300.00	6,083.00	10,624.00	6,231.41	118.73	121.87	92.47	887.32	2,777.08	6,202.45	6,033.87	168.58	36.793			
12,400.00	6,083.00	10,624.00	6,231.41	120.47	121.87	92.47	887.32	2,777.08	6,294.92	6,126.02	168.89	37.272			
12,500.00	6,083.00	10,624.00	6,231.41	122.21	121.87	92.47	887.32	2,777.08	6,387.61	6,218.42	169.19	37.753			
12,600.00	6,083.00	10,624.00	6,231.41	123.95	121.87	92.47	887.32	2,777.08	6,480.53	6,311.04	169.48	38.237			
12,700.00	6,083.00	10,624.00	6,231.41	125.70	121.87	92.47	887.32	2,777.08	6,573.65	6,403.89	169.76	38.723			
12,800.00	6,083.00	10,624.00	6,231.41	127.44	121.87	92.47	887.32	2,777.08	6,666.97	6,496.94	170.03	39.211			
12,900.00	6,083.00	10,624.00	6,231.41	129.19	121.87	92.47	887.32	2,777.08	6,760.48	6,590.20	170.28	39.702			
13,000.00	6,083.00	10,624.00	6,231.41	130.94	121.87	92.47	887.32	2,777.08	6,854.18	6,683.65	170.53	40.194			
13,100.00	6,083.00	10,624.00	6,231.41	132.68	121.87	92.47	887.32	2,777.08	6,948.05	6,777.28	170.76	40.688			
13,200.00	6,083.00	10,624.00	6,231.41	134.43	121.87	92.47	887.32	2,777.08	7,042.09	6,871.10	170.99	41.184			
13,300.00	6,083.00	10,624.00	6,231.41	136.18	121.87	92.47	887.32	2,777.08	7,136.29	6,965.08	171.21	41.681			
13,400.00	6,083.00	10,624.00	6,231.41	137.93	121.87	92.47	887.32	2,777.08	7,230.65	7,059.23	171.42	42.180			
13,500.00	6,083.00	10,624.00	6,231.41	139.68	121.87	92.47	887.32	2,777.08	7,325.15	7,153.53	171.63	42.681			
13,600.00	6,083.00	10,624.00	6,231.41	141.43	121.87	92.47	887.32	2,777.08	7,419.81	7,247.98	171.82	43.183			
13,700.00	6,083.00	10,624.00	6,231.41	143.18	121.87	92.47	887.32	2,777.08	7,514.60	7,342.58	172.01	43.687			
13,800.00	6,083.00	10,624.00	6,231.41	144.94	121.87	92.47	887.32	2,777.08	7,609.52	7,437.32	172.19	44.191			
13,900.00	6,083.00	10,624.00	6,231.41	146.69	121.87	92.47	887.32	2,777.08	7,704.57	7,532.20	172.37	44.697			
14,000.00	6,083.00	10,624.00	6,231.41	148.44	121.87	92.47	887.32	2,777.08	7,799.75	7,627.20	172.54	45.205			
14,100.00	6,083.00	10,624.00	6,231.41	150.20	121.87	92.47	887.32	2,777.08	7,895.04	7,722.33	172.71	45.713			
14,200.00	6,083.00	10,624.00	6,231.41	151.95	121.87	92.47	887.32	2,777.08	7,990.45	7,817.58	172.87	46.222			
14,300.00	6,083.00	10,624.00	6,231.41	153.70	121.87	92.47	887.32	2,777.08	8,085.97	7,912.94	173.03	46.732			
14,400.00	6,083.00	10,624.00	6,231.41	155.46	121.87	92.47	887.32	2,777.08	8,181.60	8,008.42	173.18	47.244			
14,500.00	6,083.00	10,624.00	6,231.41	157.21	121.87	92.47	887.32	2,777.08	8,277.33	8,104.00	173.33	47.756			
14,600.00	6,083.00	10,624.00	6,231.41	158.97	121.87	92.47	887.32	2,777.08	8,373.16	8,199.69	173.47	48.269			
14,700.00	6,083.00	10,624.00	6,231.41	160.73	121.87	92.47	887.32	2,777.08	8,469.09	8,295.48	173.61	48.783			
14,800.00	6,083.00	10,624.00	6,231.41	162.48	121.87	92.47	887.32	2,777.08	8,565.11	8,391.36	173.74	49.297			
14,900.00	6,083.00	10,624.00	6,231.41	164.24	121.87	92.47	887.32	2,777.08	8,661.22	8,487.34	173.88	49.812			
15,000.00	6,083.00	10,624.00	6,231.41	166.00	121.87	92.47	887.32	2,777.08	8,757.42	8,583.41	174.01	50.328			
15,100.00	6,083.00	10,624.00	6,231.41	167.75	121.87	92.47	887.32	2,777.08	8,853.70	8,679.57	174.13	50.845			
15,200.00	6,083.00	10,624.00	6,231.41	169.51	121.87	92.47	887.32	2,777.08	8,950.06	8,775.81	174.25	51.362			
15,300.00	6,083.00	10,624.00	6,231.41	171.27	121.87	92.47	887.32	2,777.08	9,046.50	8,872.13	174.37	51.880			
15,400.00	6,083.00	10,624.00	6,231.41	173.03	121.87	92.47	887.32	2,777.08	9,143.02	8,968.53	174.49	52.398			

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 146-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	10,624.00	6,231.41	174.79	121.87	92.47	887.32	2,777.08	9,239.61	9,065.01	174.60	52.917	
15,600.00	6,083.00	10,624.00	6,231.41	176.55	121.87	92.47	887.32	2,777.08	9,336.28	9,161.56	174.72	53.437	
15,700.00	6,083.00	10,624.00	6,231.41	178.31	121.87	92.47	887.32	2,777.08	9,433.01	9,258.19	174.83	53.956	
15,800.00	6,083.00	10,624.00	6,231.41	180.07	121.87	92.47	887.32	2,777.08	9,529.81	9,354.88	174.93	54.477	
15,900.00	6,083.00	10,624.00	6,231.41	181.83	121.87	92.47	887.32	2,777.08	9,626.68	9,451.64	175.04	54.997	
16,000.00	6,083.00	10,624.00	6,231.41	183.59	121.87	92.47	887.32	2,777.08	9,723.61	9,548.47	175.14	55.518	
16,028.23	6,083.00	10,624.00	6,231.41	184.08	121.87	92.47	887.32	2,777.08	9,750.99	9,575.81	175.17	55.665	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 511-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		
100.00	100.00	30.15	30.15	0.27	0.05	-89.31	33.68	-2,799.28	2,799.48	2,799.16	0.32	8,712.452		
200.00	200.00	134.12	134.12	0.63	0.23	-89.31	33.69	-2,799.16	2,799.37	2,798.51	0.86	3,252.429		
206.16	206.16	140.52	140.52	0.65	0.24	-153.05	33.69	-2,799.15	2,799.37	2,798.47	0.89	3,132.220	CC, ES	
300.00	299.98	238.07	238.07	0.98	0.41	-153.05	33.70	-2,798.90	2,800.67	2,799.28	1.40	2,005.316		
400.00	399.84	341.92	341.92	1.34	0.60	-153.07	33.72	-2,798.49	2,804.95	2,803.01	1.94	1,449.035		
500.00	499.55	445.64	445.63	1.71	0.78	-153.13	33.75	-2,797.93	2,811.19	2,808.71	2.48	1,135.182		
600.00	599.25	550.94	550.93	2.08	1.03	-153.20	33.81	-2,797.21	2,817.35	2,814.26	3.09	911.346		
700.00	698.96	658.97	658.95	2.45	1.42	-153.27	34.15	-2,796.17	2,823.25	2,819.41	3.84	735.563		
800.00	798.67	748.26	748.24	2.83	1.74	-153.32	34.61	-2,795.34	2,829.17	2,824.65	4.52	626.275		
900.00	898.37	840.35	840.33	3.21	2.07	-153.38	35.12	-2,794.85	2,835.49	2,830.29	5.21	544.545		
1,000.00	998.08	951.13	951.11	3.58	2.46	-153.44	35.70	-2,794.12	2,841.70	2,835.74	5.96	476.437		
1,100.00	1,097.78	1,035.79	1,035.77	3.96	2.76	-153.49	36.08	-2,793.53	2,847.89	2,841.27	6.62	430.109		
1,200.00	1,197.49	1,112.81	1,112.78	4.34	3.02	-153.54	36.31	-2,793.59	2,854.84	2,847.59	7.25	393.867		
1,300.00	1,297.19	1,218.97	1,218.94	4.72	3.39	-153.61	36.61	-2,794.10	2,862.19	2,854.22	7.98	358.834		
1,400.00	1,396.90	1,322.97	1,322.94	5.10	3.74	-153.67	37.09	-2,794.17	2,869.13	2,860.43	8.70	329.841		
1,500.00	1,496.60	1,411.27	1,411.24	5.47	4.05	-153.72	37.45	-2,794.44	2,876.31	2,866.94	9.37	307.050		
1,600.00	1,596.31	1,522.62	1,522.59	5.85	4.44	-153.79	37.72	-2,794.89	2,883.61	2,873.49	10.12	284.981		
1,700.00	1,696.02	1,631.17	1,631.14	6.23	4.81	-153.86	37.73	-2,794.70	2,890.31	2,879.45	10.86	266.161		
1,800.00	1,795.72	1,721.96	1,721.93	6.61	5.13	-153.92	37.70	-2,794.64	2,897.14	2,885.60	11.54	251.141		
1,900.00	1,895.43	1,827.98	1,827.95	6.99	5.49	-154.00	37.57	-2,794.70	2,904.09	2,891.82	12.26	236.788		
2,000.00	1,995.13	1,936.03	1,936.00	7.37	5.87	-154.08	37.03	-2,794.37	2,910.68	2,897.68	13.00	223.876		
2,100.00	2,094.84	2,038.71	2,038.67	7.75	6.22	-154.16	36.36	-2,793.90	2,917.13	2,903.41	13.72	212.592		
2,200.00	2,194.54	2,126.93	2,126.89	8.13	6.53	-154.24	35.52	-2,793.58	2,923.69	2,909.30	14.39	203.177		
2,300.00	2,294.25	2,215.07	2,215.01	8.51	6.83	-154.32	34.09	-2,793.68	2,930.72	2,915.66	15.06	194.637		
2,400.00	2,393.95	2,324.69	2,324.63	8.89	7.21	-154.42	32.42	-2,793.78	2,937.75	2,921.95	15.80	185.900		
2,500.00	2,493.66	2,433.66	2,433.59	9.26	7.60	-154.52	31.34	-2,793.53	2,944.46	2,927.91	16.55	177.925		
2,600.00	2,593.37	2,538.74	2,538.67	9.64	7.96	-154.60	30.59	-2,792.99	2,950.88	2,933.60	17.28	170.745		
2,700.00	2,693.07	2,635.24	2,635.16	10.02	8.31	-154.67	29.91	-2,792.49	2,957.32	2,939.33	17.99	164.425		
2,800.00	2,792.78	2,728.96	2,728.88	10.40	8.63	-154.74	29.38	-2,792.15	2,963.90	2,945.22	18.68	158.695		
2,900.00	2,892.48	2,822.35	2,822.26	10.78	8.96	-154.80	29.54	-2,792.04	2,970.72	2,951.35	19.37	153.404		
3,000.00	2,992.19	2,942.01	2,941.91	11.16	9.38	-154.84	31.29	-2,791.65	2,977.30	2,957.15	20.15	147.768		
3,100.00	3,091.89	3,037.06	3,036.92	11.54	9.71	-154.86	33.67	-2,790.99	2,983.52	2,962.67	20.84	143.144		
3,200.00	3,191.60	3,131.00	3,130.86	11.92	10.04	-154.89	35.05	-2,790.76	2,990.18	2,968.64	21.53	138.864		
3,300.00	3,291.31	3,226.41	3,226.27	12.30	10.37	-154.93	35.92	-2,790.68	2,997.01	2,974.78	22.23	134.819		
3,400.00	3,391.01	3,322.50	3,322.35	12.68	10.71	-154.97	36.90	-2,790.47	3,003.73	2,980.80	22.93	131.003		
3,500.00	3,490.72	3,405.05	3,404.89	13.06	10.99	-155.00	38.03	-2,790.67	3,010.89	2,987.31	23.58	127.706		
3,600.00	3,590.42	3,507.62	3,507.44	13.44	11.35	-155.03	39.67	-2,791.32	3,018.44	2,994.14	24.30	124.217		
3,700.00	3,690.13	3,623.09	3,622.90	13.82	11.76	-155.08	40.92	-2,791.45	3,025.47	3,000.40	25.07	120.672		
3,800.00	3,789.83	3,725.48	3,725.29	14.19	12.12	-155.12	42.24	-2,791.31	3,032.26	3,006.47	25.80	117.545		
3,900.00	3,889.54	3,839.85	3,839.64	14.57	12.52	-155.15	44.40	-2,790.90	3,038.83	3,012.26	26.57	114.383		
4,000.00	3,989.24	3,948.72	3,948.47	14.95	12.91	-155.16	47.09	-2,789.95	3,044.85	3,017.53	27.32	111.461		
4,100.00	4,088.95	4,042.20	4,041.91	15.33	13.24	-155.17	49.49	-2,789.18	3,050.92	3,022.91	28.01	108.918		
4,200.00	4,188.66	4,140.34	4,140.03	15.71	13.59	-155.19	51.78	-2,788.52	3,057.15	3,028.42	28.72	106.438		
4,300.00	4,288.36	4,248.74	4,248.41	16.09	13.97	-155.22	53.53	-2,787.73	3,063.36	3,033.88	29.47	103.941		
4,400.00	4,388.07	4,398.50	4,398.14	16.47	14.50	-155.30	54.59	-2,785.02	3,068.50	3,038.12	30.37	101.028		
4,500.00	4,487.77	4,454.09	4,453.73	16.85	14.69	-155.33	54.63	-2,784.16	3,073.75	3,042.82	30.92	99.403		
4,600.00	4,587.48	4,536.00	4,535.63	17.23	14.98	-155.38	54.39	-2,783.71	3,080.12	3,048.55	31.57	97.577		
4,700.00	4,687.18	4,606.13	4,605.76	17.61	15.22	-155.43	54.17	-2,783.87	3,087.22	3,055.06	32.16	95.991		
4,800.00	4,786.89	4,692.00	4,691.63	17.99	15.51	-155.48	54.28	-2,784.27	3,094.67	3,061.86	32.82	94.306		
4,900.00	4,886.59	4,771.80	4,771.42	18.37	15.79	-155.51	54.77	-2,785.09	3,102.67	3,069.23	33.45	92.765		
5,000.00	4,986.30	4,847.00	4,846.60	18.75	16.05	-155.54	55.59	-2,786.48	3,111.47	3,077.41	34.06	91.357		
5,100.00	5,086.01	4,962.10	4,961.67	19.13	16.45	-155.59	56.37	-2,788.77	3,120.41	3,085.59	34.83	89.598		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 511-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		
5,200.00	5,185.71	5,075.61	5,075.17	19.51	16.84	-155.66	56.11	-2,790.44	3,128.87	3,093.28	35.59	87.918		
5,300.00	5,285.42	5,186.33	5,185.89	19.89	17.22	-155.72	56.35	-2,791.63	3,136.93	3,100.59	36.34	86.322		
5,400.00	5,385.12	5,291.75	5,291.30	20.26	17.59	-155.78	56.63	-2,792.50	3,144.74	3,107.66	37.07	84.829		
5,500.00	5,484.83	5,398.57	5,398.12	20.64	17.96	-155.84	56.65	-2,793.16	3,152.35	3,114.54	37.81	83.379		
5,600.00	5,584.37	5,500.08	5,499.63	21.03	18.31	-120.26	56.34	-2,793.55	3,159.84	3,121.31	38.53	82.020		
5,700.00	5,681.71	5,575.00	5,574.54	21.43	18.57	-104.39	55.50	-2,794.01	3,168.20	3,129.04	39.16	80.905		
5,800.00	5,773.87	5,762.00	5,755.39	21.85	19.20	-100.99	13.35	-2,791.27	3,176.89	3,136.67	40.22	78.993		
5,900.00	5,858.06	5,824.00	5,810.39	22.29	19.41	-98.95	-15.03	-2,788.29	3,186.44	3,145.60	40.85	78.007		
6,000.00	5,931.71	5,844.65	5,828.07	22.78	19.48	-96.90	-25.64	-2,787.12	3,199.13	3,157.76	41.36	77.341		
6,100.00	5,992.59	5,856.00	5,837.72	23.33	19.52	-94.80	-31.58	-2,786.52	3,215.27	3,173.39	41.88	76.773		
6,200.00	6,038.86	5,846.96	5,830.03	23.96	19.49	-92.28	-26.84	-2,787.00	3,234.39	3,192.02	42.36	76.352		
6,300.00	6,069.09	5,835.50	5,820.26	24.69	19.45	-89.65	-20.91	-2,787.63	3,255.83	3,212.95	42.88	75.925		
6,400.00	6,082.38	5,807.69	5,796.25	25.49	19.35	-86.76	-6.96	-2,789.19	3,278.72	3,235.33	43.39	75.572		
6,500.00	6,083.00	5,780.04	5,771.73	26.37	19.26	-85.69	5.76	-2,790.48	3,302.60	3,258.67	43.93	75.170		
6,600.00	6,083.00	5,762.00	5,755.39	27.33	19.20	-85.40	13.35	-2,791.27	3,328.99	3,284.41	44.58	74.677		
6,700.00	6,083.00	5,762.00	5,755.39	28.37	19.20	-85.40	13.35	-2,791.27	3,358.03	3,312.69	45.34	74.068		
6,800.00	6,083.00	5,743.88	5,738.72	29.48	19.14	-85.10	20.40	-2,792.11	3,389.56	3,343.51	46.05	73.599		
6,900.00	6,083.00	5,730.00	5,725.79	30.66	19.09	-84.87	25.42	-2,792.83	3,423.70	3,376.89	46.81	73.137		
7,000.00	6,083.00	5,719.46	5,715.90	31.89	19.06	-84.70	29.00	-2,793.37	3,460.26	3,412.66	47.60	72.699		
7,100.00	6,083.00	5,692.78	5,690.53	33.17	18.97	-84.25	37.21	-2,794.35	3,499.08	3,450.75	48.32	72.410		
7,200.00	6,083.00	5,669.00	5,667.58	34.49	18.89	-83.84	43.42	-2,794.76	3,540.12	3,491.06	49.06	72.160		
7,300.00	6,083.00	5,669.00	5,667.58	35.85	18.89	-83.84	43.42	-2,794.76	3,583.38	3,533.48	49.89	71.820		
7,400.00	6,083.00	5,657.75	5,656.63	37.25	18.85	-83.65	45.94	-2,794.81	3,628.82	3,578.15	50.67	71.616		
7,500.00	6,083.00	5,652.33	5,651.31	38.67	18.84	-83.55	47.05	-2,794.82	3,676.39	3,624.93	51.46	71.442		
7,600.00	6,083.00	5,638.00	5,637.22	40.13	18.79	-83.30	49.62	-2,794.75	3,726.07	3,673.87	52.19	71.389		
7,700.00	6,083.00	5,638.00	5,637.22	41.61	18.79	-83.30	49.62	-2,794.75	3,777.63	3,724.66	52.97	71.310		
7,800.00	6,083.00	5,638.00	5,637.22	43.11	18.79	-83.30	49.62	-2,794.75	3,831.12	3,777.38	53.74	71.296 SF		
7,900.00	6,083.00	5,638.00	5,637.22	44.63	18.79	-83.30	49.62	-2,794.75	3,886.44	3,831.96	54.48	71.343		
8,000.00	6,083.00	5,638.00	5,637.22	46.17	18.79	-83.30	49.62	-2,794.75	3,943.51	3,888.32	55.19	71.450		
8,100.00	6,083.00	5,638.00	5,637.22	47.73	18.79	-83.30	49.62	-2,794.75	4,002.28	3,946.39	55.89	71.613		
8,200.00	6,083.00	5,638.00	5,637.22	49.30	18.79	-83.30	49.62	-2,794.75	4,062.66	4,006.10	56.56	71.831		
8,300.00	6,083.00	5,638.00	5,637.22	50.88	18.79	-83.30	49.62	-2,794.75	4,124.57	4,067.37	57.21	72.099		
8,400.00	6,083.00	5,638.00	5,637.22	52.48	18.79	-83.30	49.62	-2,794.75	4,187.96	4,130.13	57.83	72.416		
8,500.00	6,083.00	5,622.99	5,622.36	54.09	18.73	-83.04	51.78	-2,794.60	4,252.57	4,194.20	58.37	72.855		
8,600.00	6,083.00	5,621.25	5,620.64	55.70	18.73	-83.01	52.00	-2,794.58	4,318.66	4,259.72	58.94	73.268		
8,700.00	6,083.00	5,607.00	5,606.47	57.33	18.68	-82.76	53.51	-2,794.40	4,386.17	4,326.73	59.44	73.794		
8,800.00	6,083.00	5,607.00	5,606.47	58.96	18.68	-82.76	53.51	-2,794.40	4,454.73	4,394.76	59.98	74.276		
8,900.00	6,083.00	5,607.00	5,606.47	60.61	18.68	-82.76	53.51	-2,794.40	4,524.46	4,463.97	60.49	74.795		
9,000.00	6,083.00	5,607.00	5,606.47	62.26	18.68	-82.76	53.51	-2,794.40	4,595.32	4,534.33	60.99	75.349		
9,100.00	6,083.00	5,607.00	5,606.47	63.91	18.68	-82.76	53.51	-2,794.40	4,667.23	4,605.77	61.46	75.935		
9,200.00	6,083.00	5,607.00	5,606.47	65.58	18.68	-82.76	53.51	-2,794.40	4,740.17	4,678.25	61.92	76.552		
9,300.00	6,083.00	5,607.00	5,606.47	67.24	18.68	-82.76	53.51	-2,794.40	4,814.08	4,751.72	62.36	77.199		
9,400.00	6,083.00	5,607.00	5,606.47	68.92	18.68	-82.76	53.51	-2,794.40	4,888.92	4,826.14	62.78	77.873		
9,500.00	6,083.00	5,607.00	5,606.47	70.60	18.68	-82.76	53.51	-2,794.40	4,964.64	4,901.46	63.19	78.572		
9,600.00	6,083.00	5,607.00	5,606.47	72.28	18.68	-82.76	53.51	-2,794.40	5,041.21	4,977.64	63.57	79.296		
9,700.00	6,083.00	5,607.00	5,606.47	73.97	18.68	-82.76	53.51	-2,794.40	5,118.59	5,054.64	63.95	80.044		
9,800.00	6,083.00	5,607.00	5,606.47	75.66	18.68	-82.76	53.51	-2,794.40	5,196.74	5,132.44	64.31	80.813		
9,900.00	6,083.00	5,607.00	5,606.47	77.35	18.68	-82.76	53.51	-2,794.40	5,275.63	5,210.98	64.65	81.602		
10,000.00	6,083.00	5,607.00	5,606.47	79.05	18.68	-82.76	53.51	-2,794.40	5,355.23	5,290.24	64.98	82.411		
10,100.00	6,083.00	5,607.00	5,606.47	80.75	18.68	-82.76	53.51	-2,794.40	5,435.49	5,370.19	65.30	83.238		
10,200.00	6,083.00	5,607.00	5,606.47	82.46	18.68	-82.76	53.51	-2,794.40	5,516.41	5,450.80	65.61	84.083		
10,300.00	6,083.00	5,607.00	5,606.47	84.17	18.68	-82.76	53.51	-2,794.40	5,597.94	5,532.04	65.90	84.944		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 511-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		
10,400.00	6,083.00	5,607.00	5,606.47	85.88	18.68	-82.76	53.51	-2,794.40	5,680.06	5,613.87	66.19	85.821		
10,500.00	6,083.00	5,607.00	5,606.47	87.59	18.68	-82.76	53.51	-2,794.40	5,762.74	5,696.28	66.46	86.712		
10,600.00	6,083.00	5,607.00	5,606.47	89.30	18.68	-82.76	53.51	-2,794.40	5,845.97	5,779.25	66.72	87.618		
10,700.00	6,083.00	5,607.00	5,606.47	91.02	18.68	-82.76	53.51	-2,794.40	5,929.71	5,862.74	66.98	88.536		
10,800.00	6,083.00	5,607.00	5,606.47	92.74	18.68	-82.76	53.51	-2,794.40	6,013.95	5,946.74	67.22	89.467		
10,900.00	6,083.00	5,607.00	5,606.47	94.46	18.68	-82.76	53.51	-2,794.40	6,098.67	6,031.22	67.46	90.410		
11,000.00	6,083.00	5,607.00	5,606.47	96.19	18.68	-82.76	53.51	-2,794.40	6,183.85	6,116.16	67.68	91.364		
11,100.00	6,083.00	5,607.00	5,606.47	97.91	18.68	-82.76	53.51	-2,794.40	6,269.46	6,201.55	67.90	92.329		
11,200.00	6,083.00	5,607.00	5,606.47	99.64	18.68	-82.76	53.51	-2,794.40	6,355.49	6,287.37	68.12	93.304		
11,300.00	6,083.00	5,607.00	5,606.47	101.37	18.68	-82.76	53.51	-2,794.40	6,441.93	6,373.60	68.32	94.288		
11,400.00	6,083.00	5,607.00	5,606.47	103.10	18.68	-82.76	53.51	-2,794.40	6,528.75	6,460.23	68.52	95.282		
11,500.00	6,083.00	5,607.00	5,606.47	104.83	18.68	-82.76	53.51	-2,794.40	6,615.94	6,547.23	68.71	96.284		
11,600.00	6,083.00	5,592.38	5,591.89	106.56	18.63	-82.50	54.64	-2,794.21	6,703.32	6,634.47	68.84	97.372		
11,700.00	6,083.00	5,591.81	5,591.33	108.30	18.63	-82.49	54.67	-2,794.21	6,791.20	6,722.18	69.02	98.393		
11,800.00	6,083.00	5,591.27	5,590.79	110.03	18.63	-82.48	54.71	-2,794.20	6,879.41	6,810.22	69.19	99.422		
11,900.00	6,083.00	5,590.73	5,590.26	111.77	18.62	-82.47	54.74	-2,794.19	6,967.94	6,898.58	69.36	100.458		
12,000.00	6,083.00	5,590.22	5,589.74	113.51	18.62	-82.46	54.77	-2,794.19	7,056.78	6,987.25	69.53	101.500		
12,100.00	6,083.00	5,589.72	5,589.24	115.24	18.62	-82.46	54.80	-2,794.18	7,145.91	7,076.22	69.68	102.548		
12,200.00	6,083.00	5,575.00	5,574.54	116.98	18.57	-82.20	55.50	-2,794.01	7,235.49	7,165.71	69.78	103.689		
12,300.00	6,083.00	5,575.00	5,574.54	118.73	18.57	-82.20	55.50	-2,794.01	7,325.17	7,255.24	69.93	104.746		
12,400.00	6,083.00	5,575.00	5,574.54	120.47	18.57	-82.20	55.50	-2,794.01	7,415.11	7,345.03	70.08	105.809		
12,500.00	6,083.00	5,575.00	5,574.54	122.21	18.57	-82.20	55.50	-2,794.01	7,505.31	7,435.08	70.22	106.877		
12,600.00	6,083.00	5,575.00	5,574.54	123.95	18.57	-82.20	55.50	-2,794.01	7,595.75	7,525.38	70.36	107.950		
12,700.00	6,083.00	5,575.00	5,574.54	125.70	18.57	-82.20	55.50	-2,794.01	7,686.43	7,615.93	70.50	109.027		
12,800.00	6,083.00	5,575.00	5,574.54	127.44	18.57	-82.20	55.50	-2,794.01	7,777.33	7,706.70	70.63	110.109		
12,900.00	6,083.00	5,575.00	5,574.54	129.19	18.57	-82.20	55.50	-2,794.01	7,868.46	7,797.70	70.76	111.195		
13,000.00	6,083.00	5,575.00	5,574.54	130.94	18.57	-82.20	55.50	-2,794.01	7,959.80	7,888.91	70.89	112.285		
13,100.00	6,083.00	5,575.00	5,574.54	132.68	18.57	-82.20	55.50	-2,794.01	8,051.34	7,980.33	71.01	113.378		
13,200.00	6,083.00	5,575.00	5,574.54	134.43	18.57	-82.20	55.50	-2,794.01	8,143.09	8,071.96	71.13	114.475		
13,300.00	6,083.00	5,575.00	5,574.54	136.18	18.57	-82.20	55.50	-2,794.01	8,235.03	8,163.77	71.25	115.576		
13,400.00	6,083.00	5,575.00	5,574.54	137.93	18.57	-82.20	55.50	-2,794.01	8,327.15	8,255.78	71.37	116.679		
13,500.00	6,083.00	5,575.00	5,574.54	139.68	18.57	-82.20	55.50	-2,794.01	8,419.45	8,347.97	71.48	117.785		
13,600.00	6,083.00	5,575.00	5,574.54	141.43	18.57	-82.20	55.50	-2,794.01	8,511.93	8,440.34	71.59	118.894		
13,700.00	6,083.00	5,575.00	5,574.54	143.18	18.57	-82.20	55.50	-2,794.01	8,604.57	8,532.87	71.70	120.006		
13,800.00	6,083.00	5,575.00	5,574.54	144.94	18.57	-82.20	55.50	-2,794.01	8,697.38	8,625.57	71.81	121.120		
13,900.00	6,083.00	5,575.00	5,574.54	146.69	18.57	-82.20	55.50	-2,794.01	8,790.35	8,718.43	71.91	122.237		
14,000.00	6,083.00	5,575.00	5,574.54	148.44	18.57	-82.20	55.50	-2,794.01	8,883.46	8,811.45	72.02	123.355		
14,100.00	6,083.00	5,575.00	5,574.54	150.20	18.57	-82.20	55.50	-2,794.01	8,976.73	8,904.61	72.12	124.476		
14,200.00	6,083.00	5,575.00	5,574.54	151.95	18.57	-82.20	55.50	-2,794.01	9,070.14	8,997.92	72.22	125.598		
14,300.00	6,083.00	5,575.00	5,574.54	153.70	18.57	-82.20	55.50	-2,794.01	9,163.69	9,091.38	72.31	126.723		
14,400.00	6,083.00	5,575.00	5,574.54	155.46	18.57	-82.20	55.50	-2,794.01	9,257.37	9,184.96	72.41	127.849		
14,500.00	6,083.00	5,575.00	5,574.54	157.21	18.57	-82.20	55.50	-2,794.01	9,351.19	9,278.68	72.50	128.976		
14,600.00	6,083.00	5,575.00	5,574.54	158.97	18.57	-82.20	55.50	-2,794.01	9,445.13	9,372.53	72.60	130.105		
14,700.00	6,083.00	5,575.00	5,574.54	160.73	18.57	-82.20	55.50	-2,794.01	9,539.19	9,466.50	72.69	131.235		
14,800.00	6,083.00	5,575.00	5,574.54	162.48	18.57	-82.20	55.50	-2,794.01	9,633.38	9,560.60	72.78	132.366		
14,900.00	6,083.00	5,575.00	5,574.54	164.24	18.57	-82.20	55.50	-2,794.01	9,727.68	9,654.81	72.87	133.499		
15,000.00	6,083.00	5,575.00	5,574.54	166.00	18.57	-82.20	55.50	-2,794.01	9,822.09	9,749.13	72.96	134.632		
15,100.00	6,083.00	5,575.00	5,574.54	167.75	18.57	-82.20	55.50	-2,794.01	9,916.61	9,843.57	73.04	135.766		
15,200.00	6,083.00	5,575.00	5,574.54	169.51	18.57	-82.20	55.50	-2,794.01	10,011.24	9,938.11	73.13	136.901		

Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-06
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 468-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		
100.00	100.00	76.00	76.00	0.27	0.13	142.71	-4,651.29	3,542.65	5,846.78	5,846.38	0.40	N/A		
200.00	200.00	176.00	176.00	0.63	0.30	142.71	-4,651.29	3,542.65	5,846.78	5,845.85	0.93	6,277.939		
300.00	299.98	275.98	275.98	0.98	0.48	78.99	-4,651.29	3,542.65	5,846.45	5,844.99	1.46	4,007.720		
400.00	399.84	375.84	375.84	1.34	0.65	79.06	-4,651.29	3,542.65	5,845.45	5,843.46	1.99	2,938.688		
500.00	499.55	475.55	475.55	1.71	0.84	79.14	-4,651.29	3,542.65	5,844.01	5,841.47	2.54	2,298.934		
600.00	599.25	928.00	926.95	2.08	2.47	79.66	-4,651.97	3,518.73	5,839.32	5,834.78	4.54	1,287.535		
700.00	698.96	966.02	964.61	2.45	2.62	79.74	-4,653.11	3,513.63	5,832.37	5,827.31	5.05	1,153.816		
800.00	798.67	1,021.00	1,018.98	2.83	2.83	79.86	-4,656.10	3,506.03	5,826.77	5,821.12	5.64	1,032.539		
900.00	898.37	1,037.37	1,035.14	3.21	2.90	79.89	-4,657.26	3,503.71	5,822.03	5,815.95	6.09	956.663		
1,000.00	998.08	10,762.00	6,125.90	3.58	84.61	36.39	-193.91	2,617.78	5,761.52	5,705.16	56.36	102.226		
1,100.00	1,097.78	10,762.00	6,125.90	3.96	84.61	36.39	-193.91	2,617.78	5,669.56	5,612.79	56.77	99.873		
1,200.00	1,197.49	10,762.00	6,125.90	4.34	84.61	36.39	-193.91	2,617.78	5,577.88	5,520.68	57.20	97.523		
1,300.00	1,297.19	10,762.00	6,125.90	4.72	84.61	36.39	-193.91	2,617.78	5,486.48	5,428.84	57.64	95.180		
1,400.00	1,396.90	10,762.00	6,125.90	5.10	84.61	36.39	-193.91	2,617.78	5,395.39	5,337.28	58.11	92.844		
1,500.00	1,496.60	10,762.00	6,125.90	5.47	84.61	36.39	-193.91	2,617.78	5,304.63	5,246.03	58.60	90.520		
1,600.00	1,596.31	10,762.00	6,125.90	5.85	84.61	36.39	-193.91	2,617.78	5,214.20	5,155.09	59.11	88.208		
1,700.00	1,696.02	10,762.00	6,125.90	6.23	84.61	36.39	-193.91	2,617.78	5,124.13	5,064.48	59.64	85.911		
1,800.00	1,795.72	10,762.00	6,125.90	6.61	84.61	36.39	-193.91	2,617.78	5,034.43	4,974.23	60.20	83.630		
1,900.00	1,895.43	10,762.00	6,125.90	6.99	84.61	36.39	-193.91	2,617.78	4,945.12	4,884.35	60.78	81.367		
2,000.00	1,995.13	10,762.00	6,125.90	7.37	84.61	36.39	-193.91	2,617.78	4,856.24	4,794.86	61.37	79.125		
2,100.00	2,094.84	10,762.00	6,125.90	7.75	84.61	36.39	-193.91	2,617.78	4,767.79	4,705.80	62.00	76.903		
2,200.00	2,194.54	10,762.00	6,125.90	8.13	84.61	36.39	-193.91	2,617.78	4,679.81	4,617.17	62.64	74.704		
2,300.00	2,294.25	10,762.00	6,125.90	8.51	84.61	36.39	-193.91	2,617.78	4,592.32	4,529.01	63.32	72.530		
2,400.00	2,393.95	10,762.00	6,125.90	8.89	84.61	36.39	-193.91	2,617.78	4,505.36	4,441.34	64.01	70.381		
2,500.00	2,493.66	10,762.00	6,125.90	9.26	84.61	36.39	-193.91	2,617.78	4,418.94	4,354.20	64.74	68.259		
2,600.00	2,593.37	10,762.00	6,125.90	9.64	84.61	36.39	-193.91	2,617.78	4,333.11	4,267.62	65.49	66.165		
2,700.00	2,693.07	10,762.00	6,125.90	10.02	84.61	36.39	-193.91	2,617.78	4,247.90	4,181.63	66.27	64.101		
2,800.00	2,792.78	10,762.00	6,125.90	10.40	84.61	36.39	-193.91	2,617.78	4,163.34	4,096.26	67.08	62.068		
2,900.00	2,892.48	10,762.00	6,125.90	10.78	84.61	36.39	-193.91	2,617.78	4,079.49	4,011.57	67.92	60.067		
3,000.00	2,992.19	10,762.00	6,125.90	11.16	84.61	36.39	-193.91	2,617.78	3,996.37	3,927.59	68.78	58.100		
3,100.00	3,091.89	10,762.00	6,125.90	11.54	84.61	36.39	-193.91	2,617.78	3,914.05	3,844.37	69.68	56.168		
3,200.00	3,191.60	10,762.00	6,125.90	11.92	84.61	36.39	-193.91	2,617.78	3,832.57	3,761.95	70.62	54.272		
3,300.00	3,291.31	10,762.00	6,125.90	12.30	84.61	36.39	-193.91	2,617.78	3,751.98	3,680.40	71.58	52.414		
3,400.00	3,391.01	10,762.00	6,125.90	12.68	84.61	36.39	-193.91	2,617.78	3,672.35	3,599.77	72.58	50.596		
3,500.00	3,490.72	10,762.00	6,125.90	13.06	84.61	36.39	-193.91	2,617.78	3,593.74	3,520.13	73.62	48.818		
3,600.00	3,590.42	10,762.00	6,125.90	13.44	84.61	36.39	-193.91	2,617.78	3,516.21	3,441.53	74.68	47.082		
3,700.00	3,690.13	10,762.00	6,125.90	13.82	84.61	36.39	-193.91	2,617.78	3,439.85	3,364.06	75.79	45.389		
3,800.00	3,789.83	10,762.00	6,125.90	14.19	84.61	36.39	-193.91	2,617.78	3,364.72	3,287.80	76.92	43.742		
3,900.00	3,889.54	10,762.00	6,125.90	14.57	84.61	36.39	-193.91	2,617.78	3,290.92	3,212.83	78.09	42.142		
4,000.00	3,989.24	10,762.00	6,125.90	14.95	84.61	36.39	-193.91	2,617.78	3,218.53	3,139.24	79.29	40.590		
4,100.00	4,088.95	10,762.00	6,125.90	15.33	84.61	36.39	-193.91	2,617.78	3,147.66	3,067.13	80.53	39.087		
4,200.00	4,188.66	10,762.00	6,125.90	15.71	84.61	36.39	-193.91	2,617.78	3,078.40	2,996.61	81.79	37.636		
4,300.00	4,288.36	10,762.00	6,125.90	16.09	84.61	36.39	-193.91	2,617.78	3,010.87	2,927.78	83.08	36.238		
4,400.00	4,388.07	10,762.00	6,125.90	16.47	84.61	36.39	-193.91	2,617.78	2,945.19	2,860.79	84.40	34.895		
4,500.00	4,487.77	10,762.00	6,125.90	16.85	84.61	36.39	-193.91	2,617.78	2,881.48	2,795.74	85.74	33.608		
4,600.00	4,587.48	10,762.00	6,125.90	17.23	84.61	36.39	-193.91	2,617.78	2,819.88	2,732.79	87.09	32.379		
4,700.00	4,687.18	10,762.00	6,125.90	17.61	84.61	36.39	-193.91	2,617.78	2,760.53	2,672.08	88.45	31.210		
4,800.00	4,786.89	10,762.00	6,125.90	17.99	84.61	36.39	-193.91	2,617.78	2,703.57	2,613.76	89.82	30.101		
4,900.00	4,886.59	10,762.00	6,125.90	18.37	84.61	36.39	-193.91	2,617.78	2,649.17	2,557.99	91.18	29.056		
5,000.00	4,986.30	10,762.00	6,125.90	18.75	84.61	36.39	-193.91	2,617.78	2,597.48	2,504.96	92.52	28.074		
5,100.00	5,086.01	10,762.00	6,125.90	19.13	84.61	36.39	-193.91	2,617.78	2,548.66	2,454.82	93.84	27.159		
5,200.00	5,185.71	10,762.00	6,125.90	19.51	84.61	36.39	-193.91	2,617.78	2,502.90	2,407.77	95.13	26.310		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 468-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		
5,300.00	5,285.42	10,762.00	6,125.90	19.89	84.61	36.39	-193.91	2,617.78	2,460.34	2,363.97	96.37	25.531		
5,400.00	5,385.12	10,762.00	6,125.90	20.26	84.61	36.39	-193.91	2,617.78	2,421.17	2,323.63	97.55	24.821		
5,500.00	5,484.83	10,762.00	6,125.90	20.64	84.61	36.39	-193.91	2,617.78	2,385.55	2,286.91	98.65	24.183		
5,600.00	5,584.37	10,762.00	6,125.90	21.03	84.61	73.34	-193.91	2,617.78	2,354.09	2,254.45	99.64	23.625		
5,700.00	5,681.71	10,762.00	6,125.90	21.43	84.61	91.13	-193.91	2,617.78	2,329.62	2,229.21	100.41	23.202		
5,800.00	5,773.87	10,762.00	6,125.90	21.85	84.61	97.20	-193.91	2,617.78	2,313.40	2,212.50	100.90	22.927		
5,900.00	5,858.06	10,762.00	6,125.90	22.29	84.61	99.96	-193.91	2,617.78	2,306.12	2,204.99	101.12	22.805		
5,928.94	5,880.56	10,762.00	6,125.90	22.43	84.61	100.39	-193.91	2,617.78	2,305.73	2,204.58	101.15	22.796	CC, ES, SF	
6,000.00	5,931.71	10,762.00	6,125.90	22.78	84.61	100.90	-193.91	2,617.78	2,308.07	2,206.98	101.09	22.831		
6,100.00	5,992.59	10,762.00	6,125.90	23.33	84.61	100.49	-193.91	2,617.78	2,319.17	2,218.33	100.84	22.997		
6,200.00	6,038.86	10,762.00	6,125.90	23.96	84.61	98.94	-193.91	2,617.78	2,338.97	2,238.54	100.43	23.290		
6,300.00	6,069.09	10,762.00	6,125.90	24.69	84.61	96.35	-193.91	2,617.78	2,366.65	2,266.76	99.89	23.692		
6,400.00	6,082.38	10,762.00	6,125.90	25.49	84.61	92.81	-193.91	2,617.78	2,401.11	2,301.83	99.28	24.186		
6,500.00	6,083.00	10,762.00	6,125.90	26.37	84.61	91.73	-193.91	2,617.78	2,440.70	2,342.07	98.62	24.747		
6,600.00	6,083.00	10,762.00	6,125.90	27.33	84.61	91.73	-193.91	2,617.78	2,483.74	2,385.78	97.97	25.353		
6,700.00	6,083.00	10,762.00	6,125.90	28.37	84.61	91.73	-193.91	2,617.78	2,530.01	2,432.71	97.30	26.002		
6,800.00	6,083.00	10,762.00	6,125.90	29.48	84.61	91.73	-193.91	2,617.78	2,579.33	2,482.71	96.62	26.694		
6,900.00	6,083.00	10,762.00	6,125.90	30.66	84.61	91.73	-193.91	2,617.78	2,631.53	2,535.59	95.94	27.429		
7,000.00	6,083.00	10,762.00	6,125.90	31.89	84.61	91.73	-193.91	2,617.78	2,686.43	2,591.19	95.24	28.206		
7,100.00	6,083.00	10,762.00	6,125.90	33.17	84.61	91.73	-193.91	2,617.78	2,743.88	2,649.34	94.54	29.023		
7,200.00	6,083.00	10,762.00	6,125.90	34.49	84.61	91.73	-193.91	2,617.78	2,803.72	2,709.89	93.84	29.878		
7,300.00	6,083.00	10,762.00	6,125.90	35.85	84.61	91.73	-193.91	2,617.78	2,865.81	2,772.67	93.13	30.771		
7,400.00	6,083.00	10,762.00	6,125.90	37.25	84.61	91.73	-193.91	2,617.78	2,929.99	2,837.56	92.43	31.699		
7,500.00	6,083.00	10,762.00	6,125.90	38.67	84.61	91.73	-193.91	2,617.78	2,996.13	2,904.40	91.73	32.662		
7,600.00	6,083.00	10,762.00	6,125.90	40.13	84.61	91.73	-193.91	2,617.78	3,064.11	2,973.07	91.04	33.656		
7,700.00	6,083.00	10,762.00	6,125.90	41.61	84.61	91.73	-193.91	2,617.78	3,133.81	3,043.45	90.36	34.681		
7,800.00	6,083.00	10,762.00	6,125.90	43.11	84.61	91.73	-193.91	2,617.78	3,205.12	3,115.42	89.69	35.734		
7,900.00	6,083.00	10,762.00	6,125.90	44.63	84.61	91.73	-193.91	2,617.78	3,277.92	3,188.88	89.04	36.814		
8,000.00	6,083.00	10,762.00	6,125.90	46.17	84.61	91.73	-193.91	2,617.78	3,352.12	3,263.72	88.40	37.920		
8,100.00	6,083.00	10,762.00	6,125.90	47.73	84.61	91.73	-193.91	2,617.78	3,427.64	3,339.86	87.78	39.050		
8,200.00	6,083.00	10,762.00	6,125.90	49.30	84.61	91.73	-193.91	2,617.78	3,504.38	3,417.21	87.17	40.201		
8,300.00	6,083.00	10,762.00	6,125.90	50.88	84.61	91.73	-193.91	2,617.78	3,582.27	3,495.69	86.58	41.374		
8,400.00	6,083.00	10,762.00	6,125.90	52.48	84.61	91.73	-193.91	2,617.78	3,661.24	3,575.22	86.01	42.566		
8,500.00	6,083.00	10,762.00	6,125.90	54.09	84.61	91.73	-193.91	2,617.78	3,741.21	3,655.74	85.46	43.776		
8,600.00	6,083.00	10,762.00	6,125.90	55.70	84.61	91.73	-193.91	2,617.78	3,822.12	3,737.19	84.93	45.002		
8,700.00	6,083.00	10,762.00	6,125.90	57.33	84.61	91.73	-193.91	2,617.78	3,903.92	3,819.50	84.42	46.244		
8,800.00	6,083.00	10,762.00	6,125.90	58.96	84.61	91.73	-193.91	2,617.78	3,986.55	3,902.62	83.93	47.500		
8,900.00	6,083.00	10,762.00	6,125.90	60.61	84.61	91.73	-193.91	2,617.78	4,069.96	3,986.51	83.45	48.769		
9,000.00	6,083.00	10,762.00	6,125.90	62.26	84.61	91.73	-193.91	2,617.78	4,154.10	4,071.10	83.00	50.050		
9,100.00	6,083.00	10,762.00	6,125.90	63.91	84.61	91.73	-193.91	2,617.78	4,238.93	4,156.37	82.56	51.342		
9,200.00	6,083.00	10,762.00	6,125.90	65.58	84.61	91.73	-193.91	2,617.78	4,324.41	4,242.26	82.14	52.644		
9,300.00	6,083.00	10,762.00	6,125.90	67.24	84.61	91.73	-193.91	2,617.78	4,410.50	4,328.75	81.74	53.955		
9,400.00	6,083.00	10,762.00	6,125.90	68.92	84.61	91.73	-193.91	2,617.78	4,497.16	4,415.80	81.36	55.274		
9,500.00	6,083.00	10,762.00	6,125.90	70.60	84.61	91.73	-193.91	2,617.78	4,584.37	4,503.38	80.99	56.601		
9,600.00	6,083.00	10,762.00	6,125.90	72.28	84.61	91.73	-193.91	2,617.78	4,672.09	4,591.45	80.65	57.934		
9,700.00	6,083.00	10,762.00	6,125.90	73.97	84.61	91.73	-193.91	2,617.78	4,760.30	4,679.98	80.31	59.273		
9,800.00	6,083.00	10,762.00	6,125.90	75.66	84.61	91.73	-193.91	2,617.78	4,848.96	4,768.96	79.99	60.617		
9,900.00	6,083.00	10,762.00	6,125.90	77.35	84.61	91.73	-193.91	2,617.78	4,938.05	4,858.36	79.69	61.965		
10,000.00	6,083.00	10,762.00	6,125.90	79.05	84.61	91.73	-193.91	2,617.78	5,027.56	4,948.16	79.40	63.317		
10,100.00	6,083.00	10,762.00	6,125.90	80.75	84.61	91.73	-193.91	2,617.78	5,117.45	5,038.33	79.13	64.673		
10,200.00	6,083.00	10,762.00	6,125.90	82.46	84.61	91.73	-193.91	2,617.78	5,207.72	5,128.85	78.87	66.031		
10,300.00	6,083.00	10,762.00	6,125.90	84.17	84.61	91.73	-193.91	2,617.78	5,298.33	5,219.71	78.62	67.392		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 468-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		
10,400.00	6,083.00	10,762.00	6,125.90	85.88	84.61	91.73	-193.91	2,617.78	5,389.27	5,310.89	78.38	68.755		
10,500.00	6,083.00	10,762.00	6,125.90	87.59	84.61	91.73	-193.91	2,617.78	5,480.54	5,402.37	78.16	70.119		
10,600.00	6,083.00	10,762.00	6,125.90	89.30	84.61	91.73	-193.91	2,617.78	5,572.10	5,494.15	77.95	71.484		
10,700.00	6,083.00	10,762.00	6,125.90	91.02	84.61	91.73	-193.91	2,617.78	5,663.94	5,586.19	77.75	72.849		
10,800.00	6,083.00	10,762.00	6,125.90	92.74	84.61	91.73	-193.91	2,617.78	5,756.06	5,678.50	77.56	74.215		
10,900.00	6,083.00	10,762.00	6,125.90	94.46	84.61	91.73	-193.91	2,617.78	5,848.44	5,771.06	77.38	75.581		
11,000.00	6,083.00	10,762.00	6,125.90	96.19	84.61	91.73	-193.91	2,617.78	5,941.06	5,863.85	77.21	76.947		
11,100.00	6,083.00	10,762.00	6,125.90	97.91	84.61	91.73	-193.91	2,617.78	6,033.92	5,956.87	77.05	78.312		
11,200.00	6,083.00	10,762.00	6,125.90	99.64	84.61	91.73	-193.91	2,617.78	6,127.00	6,050.10	76.90	79.676		
11,300.00	6,083.00	10,762.00	6,125.90	101.37	84.61	91.73	-193.91	2,617.78	6,220.30	6,143.54	76.76	81.039		
11,400.00	6,083.00	10,762.00	6,125.90	103.10	84.61	91.73	-193.91	2,617.78	6,313.80	6,237.18	76.62	82.400		
11,500.00	6,083.00	10,762.00	6,125.90	104.83	84.61	91.73	-193.91	2,617.78	6,407.50	6,331.00	76.50	83.761		
11,600.00	6,083.00	10,762.00	6,125.90	106.56	84.61	91.73	-193.91	2,617.78	6,501.39	6,425.01	76.38	85.119		
11,700.00	6,083.00	10,762.00	6,125.90	108.30	84.61	91.73	-193.91	2,617.78	6,595.46	6,519.19	76.27	86.476		
11,800.00	6,083.00	10,762.00	6,125.90	110.03	84.61	91.73	-193.91	2,617.78	6,689.70	6,613.53	76.17	87.831		
11,900.00	6,083.00	10,762.00	6,125.90	111.77	84.61	91.73	-193.91	2,617.78	6,784.10	6,708.03	76.07	89.183		
12,000.00	6,083.00	10,762.00	6,125.90	113.51	84.61	91.73	-193.91	2,617.78	6,878.66	6,802.68	75.98	90.534		
12,100.00	6,083.00	10,762.00	6,125.90	115.24	84.61	91.73	-193.91	2,617.78	6,973.38	6,897.48	75.90	91.882		
12,200.00	6,083.00	10,762.00	6,125.90	116.98	84.61	91.73	-193.91	2,617.78	7,068.24	6,992.42	75.82	93.227		
12,300.00	6,083.00	10,762.00	6,125.90	118.73	84.61	91.73	-193.91	2,617.78	7,163.23	7,087.49	75.75	94.570		
12,400.00	6,083.00	10,762.00	6,125.90	120.47	84.61	91.73	-193.91	2,617.78	7,258.37	7,182.69	75.68	95.911		
12,500.00	6,083.00	10,762.00	6,125.90	122.21	84.61	91.73	-193.91	2,617.78	7,353.63	7,278.01	75.62	97.248		
12,600.00	6,083.00	10,762.00	6,125.90	123.95	84.61	91.73	-193.91	2,617.78	7,449.02	7,373.46	75.56	98.583		
12,700.00	6,083.00	10,762.00	6,125.90	125.70	84.61	91.73	-193.91	2,617.78	7,544.53	7,469.02	75.51	99.915		
12,800.00	6,083.00	10,762.00	6,125.90	127.44	84.61	91.73	-193.91	2,617.78	7,640.15	7,564.68	75.46	101.244		
12,900.00	6,083.00	10,762.00	6,125.90	129.19	84.61	91.73	-193.91	2,617.78	7,735.88	7,660.46	75.42	102.570		
13,000.00	6,083.00	10,762.00	6,125.90	130.94	84.61	91.73	-193.91	2,617.78	7,831.72	7,756.34	75.38	103.893		
13,100.00	6,083.00	10,762.00	6,125.90	132.68	84.61	91.73	-193.91	2,617.78	7,927.66	7,852.31	75.35	105.214		
13,200.00	6,083.00	10,762.00	6,125.90	134.43	84.61	91.73	-193.91	2,617.78	8,023.70	7,948.38	75.32	106.531		
13,300.00	6,083.00	10,762.00	6,125.90	136.18	84.61	91.73	-193.91	2,617.78	8,119.84	8,044.54	75.29	107.845		
13,400.00	6,083.00	10,762.00	6,125.90	137.93	84.61	91.73	-193.91	2,617.78	8,216.07	8,140.80	75.27	109.156		
13,500.00	6,083.00	10,762.00	6,125.90	139.68	84.61	91.73	-193.91	2,617.78	8,312.38	8,237.13	75.25	110.463		
13,600.00	6,083.00	10,762.00	6,125.90	141.43	84.61	91.73	-193.91	2,617.78	8,408.79	8,333.55	75.23	111.768		
13,700.00	6,083.00	10,762.00	6,125.90	143.18	84.61	91.73	-193.91	2,617.78	8,505.27	8,430.05	75.22	113.069		
13,800.00	6,083.00	10,762.00	6,125.90	144.94	84.61	91.73	-193.91	2,617.78	8,601.84	8,526.63	75.21	114.368		
13,900.00	6,083.00	10,762.00	6,125.90	146.69	84.61	91.73	-193.91	2,617.78	8,698.48	8,623.28	75.21	115.663		
14,000.00	6,083.00	10,762.00	6,125.90	148.44	84.61	91.73	-193.91	2,617.78	8,795.20	8,720.00	75.20	116.955		
14,100.00	6,083.00	10,762.00	6,125.90	150.20	84.61	91.73	-193.91	2,617.78	8,892.00	8,816.80	75.20	118.244		
14,200.00	6,083.00	10,762.00	6,125.90	151.95	84.61	91.73	-193.91	2,617.78	8,988.86	8,913.66	75.20	119.529		
14,300.00	6,083.00	10,762.00	6,125.90	153.70	84.61	91.73	-193.91	2,617.78	9,085.79	9,010.58	75.21	120.812		
14,400.00	6,083.00	10,762.00	6,125.90	155.46	84.61	91.73	-193.91	2,617.78	9,182.79	9,107.57	75.21	122.091		
14,500.00	6,083.00	10,762.00	6,125.90	157.21	84.61	91.73	-193.91	2,617.78	9,279.85	9,204.62	75.22	123.367		
14,600.00	6,083.00	10,762.00	6,125.90	158.97	84.61	91.73	-193.91	2,617.78	9,376.97	9,301.73	75.23	124.640		
14,700.00	6,083.00	10,762.00	6,125.90	160.73	84.61	91.73	-193.91	2,617.78	9,474.15	9,398.90	75.25	125.910		
14,800.00	6,083.00	10,762.00	6,125.90	162.48	84.61	91.73	-193.91	2,617.78	9,571.39	9,496.13	75.26	127.176		
14,900.00	6,083.00	10,762.00	6,125.90	164.24	84.61	91.73	-193.91	2,617.78	9,668.68	9,593.41	75.28	128.440		
15,000.00	6,083.00	10,762.00	6,125.90	166.00	84.61	91.73	-193.91	2,617.78	9,766.03	9,690.74	75.30	129.700		
15,100.00	6,083.00	10,762.00	6,125.90	167.75	84.61	91.73	-193.91	2,617.78	9,863.44	9,788.12	75.32	130.957		
15,200.00	6,083.00	10,762.00	6,125.90	169.51	84.61	91.73	-193.91	2,617.78	9,960.89	9,885.55	75.34	132.211		
15,300.00	6,083.00	10,762.00	6,125.90	171.27	84.61	91.73	-193.91	2,617.78	10,058.40	9,983.03	75.37	133.462		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													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		
0.00	0.00	16,154.00	6,092.23	0.00	178.30	-98.26	-184.63	-1,271.67	6,284.02					
100.00	100.00	16,154.00	6,092.23	0.27	178.30	-98.26	-184.63	-1,271.67	6,186.17	6,095.72	90.45	68.394		
200.00	200.00	16,154.00	6,092.23	0.63	178.30	-98.26	-184.63	-1,271.67	6,088.38	5,997.72	90.66	67.153		
300.00	299.98	16,154.00	6,092.23	0.98	178.30	-164.45	-184.63	-1,271.67	5,991.05	5,900.14	90.90	65.905		
400.00	399.84	16,154.00	6,092.23	1.34	178.30	-166.29	-184.63	-1,271.67	5,894.65	5,803.46	91.18	64.645		
500.00	499.55	16,154.00	6,092.23	1.71	178.30	-166.60	-184.63	-1,271.67	5,799.02	5,707.50	91.52	63.367		
600.00	599.25	16,154.00	6,092.23	2.08	178.30	-166.60	-184.63	-1,271.67	5,703.56	5,611.67	91.89	62.072		
700.00	698.96	16,154.00	6,092.23	2.45	178.30	-166.60	-184.63	-1,271.67	5,608.25	5,515.97	92.28	60.772		
800.00	798.67	16,154.00	6,092.23	2.83	178.30	-166.60	-184.63	-1,271.67	5,513.12	5,420.41	92.71	59.467		
900.00	898.37	16,154.00	6,092.23	3.21	178.30	-166.60	-184.63	-1,271.67	5,418.16	5,324.99	93.16	58.158		
1,000.00	998.08	16,154.00	6,092.23	3.58	178.30	-166.60	-184.63	-1,271.67	5,323.38	5,229.74	93.65	56.846		
1,100.00	1,097.78	16,154.00	6,092.23	3.96	178.30	-166.60	-184.63	-1,271.67	5,228.80	5,134.64	94.16	55.532		
1,200.00	1,197.49	16,154.00	6,092.23	4.34	178.30	-166.60	-184.63	-1,271.67	5,134.42	5,039.72	94.70	54.216		
1,300.00	1,297.19	16,154.00	6,092.23	4.72	178.30	-166.60	-184.63	-1,271.67	5,040.26	4,944.98	95.28	52.900		
1,400.00	1,396.90	16,154.00	6,092.23	5.10	178.30	-166.60	-184.63	-1,271.67	4,946.33	4,850.44	95.89	51.583		
1,500.00	1,496.60	16,154.00	6,092.23	5.47	178.30	-166.60	-184.63	-1,271.67	4,852.64	4,756.11	96.54	50.268		
1,600.00	1,596.31	16,154.00	6,092.23	5.85	178.30	-166.60	-184.63	-1,271.67	4,759.21	4,662.00	97.22	48.954		
1,700.00	1,696.02	16,154.00	6,092.23	6.23	178.30	-166.60	-184.63	-1,271.67	4,666.06	4,568.12	97.94	47.642		
1,800.00	1,795.72	16,154.00	6,092.23	6.61	178.30	-166.60	-184.63	-1,271.67	4,573.19	4,474.48	98.70	46.333		
1,900.00	1,895.43	16,154.00	6,092.23	6.99	178.30	-166.60	-184.63	-1,271.67	4,480.62	4,381.12	99.51	45.028		
2,000.00	1,995.13	16,154.00	6,092.23	7.37	178.30	-166.60	-184.63	-1,271.67	4,388.39	4,288.03	100.36	43.727		
2,100.00	2,094.84	16,154.00	6,092.23	7.75	178.30	-166.60	-184.63	-1,271.67	4,296.50	4,195.24	101.26	42.432		
2,200.00	2,194.54	16,154.00	6,092.23	8.13	178.30	-166.60	-184.63	-1,271.67	4,204.98	4,102.77	102.20	41.143		
2,300.00	2,294.25	16,154.00	6,092.23	8.51	178.30	-166.60	-184.63	-1,271.67	4,113.86	4,010.65	103.21	39.860		
2,400.00	2,393.95	16,154.00	6,092.23	8.89	178.30	-166.60	-184.63	-1,271.67	4,023.15	3,918.89	104.26	38.586		
2,500.00	2,493.66	16,154.00	6,092.23	9.26	178.30	-166.60	-184.63	-1,271.67	3,932.90	3,827.52	105.38	37.320		
2,600.00	2,593.37	16,154.00	6,092.23	9.64	178.30	-166.60	-184.63	-1,271.67	3,843.13	3,736.57	106.57	36.063		
2,700.00	2,693.07	16,154.00	6,092.23	10.02	178.30	-166.60	-184.63	-1,271.67	3,753.88	3,646.06	107.82	34.817		
2,800.00	2,792.78	16,154.00	6,092.23	10.40	178.30	-166.60	-184.63	-1,271.67	3,665.19	3,556.05	109.14	33.582		
2,900.00	2,892.48	16,154.00	6,092.23	10.78	178.30	-166.60	-184.63	-1,271.67	3,577.09	3,466.55	110.54	32.360		
3,000.00	2,992.19	16,154.00	6,092.23	11.16	178.30	-166.60	-184.63	-1,271.67	3,489.63	3,377.61	112.02	31.152		
3,100.00	3,091.89	16,154.00	6,092.23	11.54	178.30	-166.60	-184.63	-1,271.67	3,402.86	3,289.27	113.59	29.958		
3,200.00	3,191.60	16,154.00	6,092.23	11.92	178.30	-166.60	-184.63	-1,271.67	3,316.84	3,201.59	115.25	28.780		
3,300.00	3,291.31	16,154.00	6,092.23	12.30	178.30	-166.60	-184.63	-1,271.67	3,231.62	3,114.62	117.00	27.620		
3,400.00	3,391.01	16,154.00	6,092.23	12.68	178.30	-166.60	-184.63	-1,271.67	3,147.27	3,028.41	118.86	26.479		
3,500.00	3,490.72	16,154.00	6,092.23	13.06	178.30	-166.60	-184.63	-1,271.67	3,063.87	2,943.04	120.83	25.357		
3,600.00	3,590.42	16,154.00	6,092.23	13.44	178.30	-166.60	-184.63	-1,271.67	2,981.48	2,858.57	122.91	24.258		
3,700.00	3,690.13	16,154.00	6,092.23	13.82	178.30	-166.60	-184.63	-1,271.67	2,900.20	2,775.10	125.11	23.181		
3,800.00	3,789.83	16,154.00	6,092.23	14.19	178.30	-166.60	-184.63	-1,271.67	2,820.13	2,692.70	127.43	22.130		
3,900.00	3,889.54	16,154.00	6,092.23	14.57	178.30	-166.60	-184.63	-1,271.67	2,741.37	2,611.48	129.89	21.105		
4,000.00	3,989.24	16,154.00	6,092.23	14.95	178.30	-166.60	-184.63	-1,271.67	2,664.03	2,531.55	132.48	20.109		
4,100.00	4,088.95	16,154.00	6,092.23	15.33	178.30	-166.60	-184.63	-1,271.67	2,588.24	2,453.04	135.21	19.143		
4,200.00	4,188.66	16,154.00	6,092.23	15.71	178.30	-166.60	-184.63	-1,271.67	2,514.15	2,376.08	138.07	18.209		
4,300.00	4,288.36	16,154.00	6,092.23	16.09	178.30	-166.60	-184.63	-1,271.67	2,441.91	2,300.83	141.08	17.309		
4,400.00	4,388.07	16,154.00	6,092.23	16.47	178.30	-166.60	-184.63	-1,271.67	2,371.68	2,227.46	144.22	16.445		
4,500.00	4,487.77	16,154.00	6,092.23	16.85	178.30	-166.60	-184.63	-1,271.67	2,303.66	2,156.16	147.50	15.619		
4,600.00	4,587.48	16,154.00	6,092.23	17.23	178.30	-166.60	-184.63	-1,271.67	2,238.03	2,087.14	150.89	14.832		
4,700.00	4,687.18	16,154.00	6,092.23	17.61	178.30	-166.60	-184.63	-1,271.67	2,175.03	2,020.62	154.40	14.087		
4,800.00	4,786.89	16,154.00	6,092.23	17.99	178.30	-166.60	-184.63	-1,271.67	2,114.88	1,956.87	158.01	13.385		
4,900.00	4,886.59	16,154.00	6,092.23	18.37	178.30	-166.60	-184.63	-1,271.67	2,057.83	1,896.15	161.68	12.728		
5,000.00	4,986.30	16,154.00	6,092.23	18.75	178.30	-166.60	-184.63	-1,271.67	2,004.15	1,838.76	165.39	12.118		
5,100.00	5,086.01	16,154.00	6,092.23	19.13	178.30	-166.60	-184.63	-1,271.67	1,954.11	1,785.02	169.09	11.556		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													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		
5,200.00	5,185.71	16,154.00	6,092.23	19.51	178.30	-166.60	-184.63	-1,271.67	1,908.01	1,735.26	172.76	11.044		
5,300.00	5,285.42	16,154.00	6,092.23	19.89	178.30	-166.60	-184.63	-1,271.67	1,866.14	1,689.81	176.33	10.583		
5,400.00	5,385.12	16,154.00	6,092.23	20.26	178.30	-166.60	-184.63	-1,271.67	1,828.78	1,649.04	179.74	10.175		
5,500.00	5,484.83	16,154.00	6,092.23	20.64	178.30	-166.60	-184.63	-1,271.67	1,796.21	1,613.28	182.94	9.819		
5,600.00	5,584.37	16,154.00	6,092.23	21.03	178.30	-132.69	-184.63	-1,271.67	1,769.28	1,583.49	185.79	9.523		
5,700.00	5,681.71	16,154.00	6,092.23	21.43	178.30	-119.10	-184.63	-1,271.67	1,751.50	1,563.61	187.89	9.322		
5,800.00	5,773.87	16,154.00	6,092.23	21.85	178.30	-115.33	-184.63	-1,271.67	1,744.10	1,555.05	189.05	9.225		
5,819.00	5,790.56	16,154.00	6,092.23	21.93	178.30	-114.85	-184.63	-1,271.67	1,743.90	1,554.74	189.16	9.219	CC, ES, SF	
5,900.00	5,858.06	16,154.00	6,092.23	22.29	178.30	-112.96	-184.63	-1,271.67	1,747.43	1,558.23	189.19	9.236		
6,000.00	5,931.71	16,154.00	6,092.23	22.78	178.30	-110.48	-184.63	-1,271.67	1,761.33	1,573.01	188.32	9.353		
6,100.00	5,992.59	16,154.00	6,092.23	23.33	178.30	-107.43	-184.63	-1,271.67	1,785.14	1,598.62	186.52	9.571		
6,200.00	6,038.86	16,154.00	6,092.23	23.96	178.30	-103.63	-184.63	-1,271.67	1,817.76	1,633.82	183.95	9.882		
6,300.00	6,069.09	16,154.00	6,092.23	24.69	178.30	-99.06	-184.63	-1,271.67	1,857.78	1,677.00	180.78	10.276		
6,400.00	6,082.38	16,154.00	6,092.23	25.49	178.30	-93.83	-184.63	-1,271.67	1,903.54	1,726.33	177.22	10.741		
6,500.00	6,083.00	16,154.00	6,092.23	26.37	178.30	-92.34	-184.63	-1,271.67	1,953.53	1,780.06	173.46	11.262		
6,600.00	6,083.00	16,154.00	6,092.23	27.33	178.30	-92.34	-184.63	-1,271.67	2,007.24	1,837.58	169.67	11.831		
6,700.00	6,083.00	16,154.00	6,092.23	28.37	178.30	-92.34	-184.63	-1,271.67	2,064.41	1,898.54	165.86	12.447		
6,800.00	6,083.00	16,154.00	6,092.23	29.48	178.30	-92.34	-184.63	-1,271.67	2,124.74	1,962.65	162.09	13.109		
6,900.00	6,083.00	16,154.00	6,092.23	30.66	178.30	-92.34	-184.63	-1,271.67	2,187.98	2,029.62	158.37	13.816		
7,000.00	6,083.00	16,154.00	6,092.23	31.89	178.30	-92.34	-184.63	-1,271.67	2,253.89	2,099.16	154.73	14.567		
7,100.00	6,083.00	16,154.00	6,092.23	33.17	178.30	-92.34	-184.63	-1,271.67	2,322.24	2,171.06	151.18	15.361		
7,200.00	6,083.00	16,154.00	6,092.23	34.49	178.30	-92.34	-184.63	-1,271.67	2,392.81	2,245.07	147.73	16.197		
7,300.00	6,083.00	16,154.00	6,092.23	35.85	178.30	-92.34	-184.63	-1,271.67	2,465.42	2,321.01	144.40	17.073		
7,400.00	6,083.00	16,154.00	6,092.23	37.25	178.30	-92.34	-184.63	-1,271.67	2,539.89	2,398.70	141.19	17.989		
7,500.00	6,083.00	16,154.00	6,092.23	38.67	178.30	-92.34	-184.63	-1,271.67	2,616.06	2,477.96	138.10	18.943		
7,600.00	6,083.00	16,154.00	6,092.23	40.13	178.30	-92.34	-184.63	-1,271.67	2,693.79	2,558.66	135.14	19.934		
7,700.00	6,083.00	16,154.00	6,092.23	41.61	178.30	-92.34	-184.63	-1,271.67	2,772.95	2,640.66	132.29	20.961		
7,800.00	6,083.00	16,154.00	6,092.23	43.11	178.30	-92.34	-184.63	-1,271.67	2,853.42	2,723.86	129.57	22.023		
7,900.00	6,083.00	16,154.00	6,092.23	44.63	178.30	-92.34	-184.63	-1,271.67	2,935.09	2,808.13	126.96	23.118		
8,000.00	6,083.00	16,154.00	6,092.23	46.17	178.30	-92.34	-184.63	-1,271.67	3,017.87	2,893.40	124.47	24.246		
8,100.00	6,083.00	16,154.00	6,092.23	47.73	178.30	-92.34	-184.63	-1,271.67	3,101.66	2,979.57	122.09	25.405		
8,200.00	6,083.00	16,154.00	6,092.23	49.30	178.30	-92.34	-184.63	-1,271.67	3,186.38	3,066.57	119.81	26.595		
8,300.00	6,083.00	16,154.00	6,092.23	50.88	178.30	-92.34	-184.63	-1,271.67	3,271.97	3,154.33	117.64	27.813		
8,400.00	6,083.00	16,154.00	6,092.23	52.48	178.30	-92.34	-184.63	-1,271.67	3,358.35	3,242.79	115.57	29.060		
8,500.00	6,083.00	16,154.00	6,092.23	54.09	178.30	-92.34	-184.63	-1,271.67	3,445.47	3,331.89	113.58	30.334		
8,600.00	6,083.00	16,154.00	6,092.23	55.70	178.30	-92.34	-184.63	-1,271.67	3,533.28	3,421.58	111.69	31.634		
8,700.00	6,083.00	16,154.00	6,092.23	57.33	178.30	-92.34	-184.63	-1,271.67	3,621.71	3,511.82	109.89	32.959		
8,800.00	6,083.00	16,154.00	6,092.23	58.96	178.30	-92.34	-184.63	-1,271.67	3,710.73	3,602.57	108.16	34.308		
8,900.00	6,083.00	16,154.00	6,092.23	60.61	178.30	-92.34	-184.63	-1,271.67	3,800.30	3,693.79	106.51	35.680		
9,000.00	6,083.00	16,154.00	6,092.23	62.26	178.30	-92.34	-184.63	-1,271.67	3,890.38	3,785.44	104.94	37.074		
9,100.00	6,083.00	16,154.00	6,092.23	63.91	178.30	-92.34	-184.63	-1,271.67	3,980.93	3,877.50	103.43	38.489		
9,200.00	6,083.00	16,154.00	6,092.23	65.58	178.30	-92.34	-184.63	-1,271.67	4,071.92	3,969.93	101.99	39.925		
9,300.00	6,083.00	16,154.00	6,092.23	67.24	178.30	-92.34	-184.63	-1,271.67	4,163.33	4,062.71	100.61	41.380		
9,400.00	6,083.00	16,154.00	6,092.23	68.92	178.30	-92.34	-184.63	-1,271.67	4,255.12	4,155.82	99.29	42.854		
9,500.00	6,083.00	16,154.00	6,092.23	70.60	178.30	-92.34	-184.63	-1,271.67	4,347.27	4,249.24	98.03	44.345		
9,600.00	6,083.00	16,154.00	6,092.23	72.28	178.30	-92.34	-184.63	-1,271.67	4,439.77	4,342.94	96.83	45.853		
9,700.00	6,083.00	16,154.00	6,092.23	73.97	178.30	-92.34	-184.63	-1,271.67	4,532.58	4,436.91	95.67	47.377		
9,800.00	6,083.00	16,154.00	6,092.23	75.66	178.30	-92.34	-184.63	-1,271.67	4,625.69	4,531.13	94.56	48.917		
9,900.00	6,083.00	16,154.00	6,092.23	77.35	178.30	-92.34	-184.63	-1,271.67	4,719.09	4,625.59	93.50	50.471		
10,000.00	6,083.00	16,154.00	6,092.23	79.05	178.30	-92.34	-184.63	-1,271.67	4,812.75	4,720.26	92.48	52.038		
10,100.00	6,083.00	16,154.00	6,092.23	80.75	178.30	-92.34	-184.63	-1,271.67	4,906.66	4,815.15	91.51	53.619		
10,200.00	6,083.00	16,154.00	6,092.23	82.46	178.30	-92.34	-184.63	-1,271.67	5,000.80	4,910.23	90.57	55.212		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL SURVEY													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		
10,300.00	6,083.00	16,154.00	6,092.23	84.17	178.30	-92.34	-184.63	-1,271.67	5,095.17	5,005.50	89.68	56.817		
10,400.00	6,083.00	16,154.00	6,092.23	85.88	178.30	-92.34	-184.63	-1,271.67	5,189.75	5,100.94	88.82	58.433		
10,500.00	6,083.00	16,154.00	6,092.23	87.59	178.30	-92.34	-184.63	-1,271.67	5,284.53	5,196.54	87.99	60.059		
10,600.00	6,083.00	16,154.00	6,092.23	89.30	178.30	-92.34	-184.63	-1,271.67	5,379.50	5,292.31	87.19	61.695		
10,700.00	6,083.00	16,154.00	6,092.23	91.02	178.30	-92.34	-184.63	-1,271.67	5,474.65	5,388.22	86.43	63.340		
10,800.00	6,083.00	16,154.00	6,092.23	92.74	178.30	-92.34	-184.63	-1,271.67	5,569.97	5,484.27	85.70	64.994		
10,900.00	6,083.00	16,154.00	6,092.23	94.46	178.30	-92.34	-184.63	-1,271.67	5,665.45	5,580.45	85.00	66.655		
11,000.00	6,083.00	16,154.00	6,092.23	96.19	178.30	-92.34	-184.63	-1,271.67	5,761.08	5,676.76	84.32	68.324		
11,100.00	6,083.00	16,154.00	6,092.23	97.91	178.30	-92.34	-184.63	-1,271.67	5,856.86	5,773.19	83.67	70.000		
11,200.00	6,083.00	16,154.00	6,092.23	99.64	178.30	-92.34	-184.63	-1,271.67	5,952.78	5,869.73	83.04	71.682		
11,300.00	6,083.00	16,154.00	6,092.23	101.37	178.30	-92.34	-184.63	-1,271.67	6,048.83	5,966.38	82.44	73.370		
11,400.00	6,083.00	16,154.00	6,092.23	103.10	178.30	-92.34	-184.63	-1,271.67	6,145.00	6,063.14	81.86	75.063		
11,500.00	6,083.00	16,154.00	6,092.23	104.83	178.30	-92.34	-184.63	-1,271.67	6,241.30	6,159.99	81.31	76.761		
11,600.00	6,083.00	16,154.00	6,092.23	106.56	178.30	-92.34	-184.63	-1,271.67	6,337.71	6,256.94	80.77	78.464		
11,700.00	6,083.00	16,154.00	6,092.23	108.30	178.30	-92.34	-184.63	-1,271.67	6,434.23	6,353.97	80.26	80.170		
11,800.00	6,083.00	16,154.00	6,092.23	110.03	178.30	-92.34	-184.63	-1,271.67	6,530.85	6,451.09	79.76	81.880		
11,900.00	6,083.00	16,154.00	6,092.23	111.77	178.30	-92.34	-184.63	-1,271.67	6,627.58	6,548.30	79.28	83.594		
12,000.00	6,083.00	16,154.00	6,092.23	113.51	178.30	-92.34	-184.63	-1,271.67	6,724.40	6,645.58	78.82	85.309		
12,100.00	6,083.00	16,154.00	6,092.23	115.24	178.30	-92.34	-184.63	-1,271.67	6,821.31	6,742.93	78.38	87.028		
12,200.00	6,083.00	16,154.00	6,092.23	116.98	178.30	-92.34	-184.63	-1,271.67	6,918.31	6,840.36	77.95	88.748		
12,300.00	6,083.00	16,154.00	6,092.23	118.73	178.30	-92.34	-184.63	-1,271.67	7,015.40	6,937.85	77.54	90.469		
12,400.00	6,083.00	16,154.00	6,092.23	120.47	178.30	-92.34	-184.63	-1,271.67	7,112.56	7,035.41	77.15	92.192		
12,500.00	6,083.00	16,154.00	6,092.23	122.21	178.30	-92.34	-184.63	-1,271.67	7,209.81	7,133.04	76.77	93.916		
12,600.00	6,083.00	16,154.00	6,092.23	123.95	178.30	-92.34	-184.63	-1,271.67	7,307.12	7,230.72	76.40	95.641		
12,700.00	6,083.00	16,154.00	6,092.23	125.70	178.30	-92.34	-184.63	-1,271.67	7,404.51	7,328.46	76.05	97.366		
12,800.00	6,083.00	16,154.00	6,092.23	127.44	178.30	-92.34	-184.63	-1,271.67	7,501.97	7,426.26	75.71	99.090		
12,900.00	6,083.00	16,154.00	6,092.23	129.19	178.30	-92.34	-184.63	-1,271.67	7,599.49	7,524.11	75.38	100.815		
13,000.00	6,083.00	16,154.00	6,092.23	130.94	178.30	-92.34	-184.63	-1,271.67	7,697.08	7,622.02	75.07	102.539		
13,100.00	6,083.00	16,154.00	6,092.23	132.68	178.30	-92.34	-184.63	-1,271.67	7,794.73	7,719.97	74.76	104.262		
13,200.00	6,083.00	16,154.00	6,092.23	134.43	178.30	-92.34	-184.63	-1,271.67	7,892.44	7,817.97	74.47	105.984		
13,300.00	6,083.00	16,154.00	6,092.23	136.18	178.30	-92.34	-184.63	-1,271.67	7,990.20	7,916.01	74.19	107.705		
13,400.00	6,083.00	16,154.00	6,092.23	137.93	178.30	-92.34	-184.63	-1,271.67	8,088.02	8,014.10	73.91	109.424		
13,500.00	6,083.00	16,154.00	6,092.23	139.68	178.30	-92.34	-184.63	-1,271.67	8,185.89	8,112.24	73.65	111.141		
13,600.00	6,083.00	16,154.00	6,092.23	141.43	178.30	-92.34	-184.63	-1,271.67	8,283.81	8,210.41	73.40	112.856		
13,700.00	6,083.00	16,154.00	6,092.23	143.18	178.30	-92.34	-184.63	-1,271.67	8,381.78	8,308.63	73.16	114.569		
13,800.00	6,083.00	16,154.00	6,092.23	144.94	178.30	-92.34	-184.63	-1,271.67	8,479.80	8,406.88	72.93	116.280		
13,900.00	6,083.00	16,154.00	6,092.23	146.69	178.30	-92.34	-184.63	-1,271.67	8,577.87	8,505.17	72.70	117.988		
14,000.00	6,083.00	16,154.00	6,092.23	148.44	178.30	-92.34	-184.63	-1,271.67	8,675.98	8,603.49	72.49	119.693		
14,100.00	6,083.00	16,154.00	6,092.23	150.20	178.30	-92.34	-184.63	-1,271.67	8,774.13	8,701.85	72.28	121.395		
14,200.00	6,083.00	16,154.00	6,092.23	151.95	178.30	-92.34	-184.63	-1,271.67	8,872.32	8,800.24	72.08	123.094		
14,300.00	6,083.00	16,154.00	6,092.23	153.70	178.30	-92.34	-184.63	-1,271.67	8,970.55	8,898.67	71.89	124.790		
14,400.00	6,083.00	16,154.00	6,092.23	155.46	178.30	-92.34	-184.63	-1,271.67	9,068.82	8,997.12	71.70	126.482		
14,500.00	6,083.00	16,154.00	6,092.23	157.21	178.30	-92.34	-184.63	-1,271.67	9,167.13	9,095.61	71.52	128.171		
14,600.00	6,083.00	16,154.00	6,092.23	158.97	178.30	-92.34	-184.63	-1,271.67	9,265.48	9,194.13	71.35	129.856		
14,700.00	6,083.00	16,154.00	6,092.23	160.73	178.30	-92.34	-184.63	-1,271.67	9,363.86	9,292.67	71.19	131.537		
14,800.00	6,083.00	16,154.00	6,092.23	162.48	178.30	-92.34	-184.63	-1,271.67	9,462.27	9,391.24	71.03	133.214		
14,900.00	6,083.00	16,154.00	6,092.23	164.24	178.30	-92.34	-184.63	-1,271.67	9,560.72	9,489.84	70.88	134.887		
15,000.00	6,083.00	16,154.00	6,092.23	166.00	178.30	-92.34	-184.63	-1,271.67	9,659.20	9,588.46	70.73	136.556		
15,100.00	6,083.00	16,154.00	6,092.23	167.75	178.30	-92.34	-184.63	-1,271.67	9,757.71	9,687.11	70.60	138.221		
15,200.00	6,083.00	16,154.00	6,092.23	169.51	178.30	-92.34	-184.63	-1,271.67	9,856.25	9,785.78	70.46	139.881		
15,300.00	6,083.00	16,154.00	6,092.23	171.27	178.30	-92.34	-184.63	-1,271.67	9,954.81	9,884.48	70.33	141.536		
15,400.00	6,083.00	16,154.00	6,092.23	173.03	178.30	-92.34	-184.63	-1,271.67	10,053.41	9,983.20	70.21	143.187		

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



## Civitas Resources

### Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													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		
0.00	0.00	16,242.00	6,103.92	0.00	179.17	-92.72	-154.82	-3,261.41	6,976.18					
100.00	100.00	16,242.00	6,103.92	0.27	179.17	-92.72	-154.82	-3,261.41	6,887.96	6,777.19	110.77	62.182		
200.00	200.00	16,242.00	6,103.92	0.63	179.17	-92.72	-154.82	-3,261.41	6,800.08	6,688.64	111.44	61.022		
300.00	299.98	16,242.00	6,103.92	0.98	179.17	-157.81	-154.82	-3,261.41	6,713.33	6,601.19	112.14	59.864		
400.00	399.84	16,242.00	6,103.92	1.34	179.17	-158.99	-154.82	-3,261.41	6,628.63	6,515.72	112.91	58.705		
500.00	499.55	16,242.00	6,103.92	1.71	179.17	-159.20	-154.82	-3,261.41	6,545.59	6,431.81	113.77	57.532		
600.00	599.25	16,242.00	6,103.92	2.08	179.17	-159.20	-154.82	-3,261.41	6,463.06	6,348.35	114.70	56.346		
700.00	698.96	16,242.00	6,103.92	2.45	179.17	-159.20	-154.82	-3,261.41	6,381.03	6,265.35	115.68	55.161		
800.00	798.67	16,242.00	6,103.92	2.83	179.17	-159.20	-154.82	-3,261.41	6,299.51	6,182.81	116.70	53.980		
900.00	898.37	16,242.00	6,103.92	3.21	179.17	-159.20	-154.82	-3,261.41	6,218.54	6,100.78	117.77	52.804		
1,000.00	998.08	16,242.00	6,103.92	3.58	179.17	-159.20	-154.82	-3,261.41	6,138.13	6,019.26	118.87	51.637		
1,100.00	1,097.78	16,242.00	6,103.92	3.96	179.17	-159.20	-154.82	-3,261.41	6,058.30	5,938.28	120.02	50.478		
1,200.00	1,197.49	16,242.00	6,103.92	4.34	179.17	-159.20	-154.82	-3,261.41	5,979.08	5,857.88	121.21	49.330		
1,300.00	1,297.19	16,242.00	6,103.92	4.72	179.17	-159.20	-154.82	-3,261.41	5,900.49	5,778.06	122.43	48.193		
1,400.00	1,396.90	16,242.00	6,103.92	5.10	179.17	-159.20	-154.82	-3,261.41	5,822.56	5,698.86	123.70	47.069		
1,500.00	1,496.60	16,242.00	6,103.92	5.47	179.17	-159.20	-154.82	-3,261.41	5,745.31	5,620.30	125.01	45.959		
1,600.00	1,596.31	16,242.00	6,103.92	5.85	179.17	-159.20	-154.82	-3,261.41	5,668.77	5,542.41	126.36	44.863		
1,700.00	1,696.02	16,242.00	6,103.92	6.23	179.17	-159.20	-154.82	-3,261.41	5,592.97	5,465.23	127.74	43.783		
1,800.00	1,795.72	16,242.00	6,103.92	6.61	179.17	-159.20	-154.82	-3,261.41	5,517.95	5,388.78	129.17	42.719		
1,900.00	1,895.43	16,242.00	6,103.92	6.99	179.17	-159.20	-154.82	-3,261.41	5,443.72	5,313.09	130.63	41.672		
2,000.00	1,995.13	16,242.00	6,103.92	7.37	179.17	-159.20	-154.82	-3,261.41	5,370.34	5,238.20	132.14	40.642		
2,100.00	2,094.84	16,242.00	6,103.92	7.75	179.17	-159.20	-154.82	-3,261.41	5,297.82	5,164.14	133.68	39.630		
2,200.00	2,194.54	16,242.00	6,103.92	8.13	179.17	-159.20	-154.82	-3,261.41	5,226.21	5,090.95	135.26	38.637		
2,300.00	2,294.25	16,242.00	6,103.92	8.51	179.17	-159.20	-154.82	-3,261.41	5,155.55	5,018.67	136.88	37.664		
2,400.00	2,393.95	16,242.00	6,103.92	8.89	179.17	-159.20	-154.82	-3,261.41	5,085.87	4,947.33	138.54	36.710		
2,500.00	2,493.66	16,242.00	6,103.92	9.26	179.17	-159.20	-154.82	-3,261.41	5,017.22	4,876.98	140.24	35.776		
2,600.00	2,593.37	16,242.00	6,103.92	9.64	179.17	-159.20	-154.82	-3,261.41	4,949.63	4,807.66	141.97	34.863		
2,700.00	2,693.07	16,242.00	6,103.92	10.02	179.17	-159.20	-154.82	-3,261.41	4,883.16	4,739.41	143.74	33.971		
2,800.00	2,792.78	16,242.00	6,103.92	10.40	179.17	-159.20	-154.82	-3,261.41	4,817.84	4,672.29	145.55	33.101		
2,900.00	2,892.48	16,242.00	6,103.92	10.78	179.17	-159.20	-154.82	-3,261.41	4,753.74	4,606.35	147.39	32.253		
3,000.00	2,992.19	16,242.00	6,103.92	11.16	179.17	-159.20	-154.82	-3,261.41	4,690.88	4,541.62	149.26	31.427		
3,100.00	3,091.89	16,242.00	6,103.92	11.54	179.17	-159.20	-154.82	-3,261.41	4,629.34	4,478.18	151.16	30.625		
3,200.00	3,191.60	16,242.00	6,103.92	11.92	179.17	-159.20	-154.82	-3,261.41	4,569.15	4,416.06	153.09	29.845		
3,300.00	3,291.31	16,242.00	6,103.92	12.30	179.17	-159.20	-154.82	-3,261.41	4,510.38	4,355.33	155.05	29.089		
3,400.00	3,391.01	16,242.00	6,103.92	12.68	179.17	-159.20	-154.82	-3,261.41	4,453.08	4,296.05	157.03	28.358		
3,500.00	3,490.72	16,242.00	6,103.92	13.06	179.17	-159.20	-154.82	-3,261.41	4,397.31	4,238.28	159.04	27.650		
3,600.00	3,590.42	16,242.00	6,103.92	13.44	179.17	-159.20	-154.82	-3,261.41	4,343.12	4,182.07	161.05	26.967		
3,700.00	3,690.13	16,242.00	6,103.92	13.82	179.17	-159.20	-154.82	-3,261.41	4,290.58	4,127.50	163.09	26.309		
3,800.00	3,789.83	16,242.00	6,103.92	14.19	179.17	-159.20	-154.82	-3,261.41	4,239.75	4,074.62	165.13	25.675		
3,900.00	3,889.54	16,242.00	6,103.92	14.57	179.17	-159.20	-154.82	-3,261.41	4,190.69	4,023.52	167.18	25.068		
4,000.00	3,989.24	16,242.00	6,103.92	14.95	179.17	-159.20	-154.82	-3,261.41	4,143.46	3,974.24	169.22	24.485		
4,100.00	4,088.95	16,242.00	6,103.92	15.33	179.17	-159.20	-154.82	-3,261.41	4,098.13	3,926.87	171.26	23.929		
4,200.00	4,188.66	16,242.00	6,103.92	15.71	179.17	-159.20	-154.82	-3,261.41	4,054.76	3,881.46	173.29	23.398		
4,300.00	4,288.36	16,242.00	6,103.92	16.09	179.17	-159.20	-154.82	-3,261.41	4,013.41	3,838.10	175.31	22.894		
4,400.00	4,388.07	16,242.00	6,103.92	16.47	179.17	-159.20	-154.82	-3,261.41	3,974.14	3,796.85	177.30	22.415		
4,500.00	4,487.77	16,242.00	6,103.92	16.85	179.17	-159.20	-154.82	-3,261.41	3,937.03	3,757.77	179.26	21.963		
4,600.00	4,587.48	16,242.00	6,103.92	17.23	179.17	-159.20	-154.82	-3,261.41	3,902.13	3,720.95	181.18	21.537		
4,700.00	4,687.18	16,242.00	6,103.92	17.61	179.17	-159.20	-154.82	-3,261.41	3,869.49	3,686.43	183.06	21.138		
4,800.00	4,786.89	16,242.00	6,103.92	17.99	179.17	-159.20	-154.82	-3,261.41	3,839.19	3,654.30	184.89	20.765		
4,900.00	4,886.59	16,242.00	6,103.92	18.37	179.17	-159.20	-154.82	-3,261.41	3,811.27	3,624.61	186.66	20.418		
5,000.00	4,986.30	16,242.00	6,103.92	18.75	179.17	-159.20	-154.82	-3,261.41	3,785.78	3,597.42	188.37	20.098		
5,100.00	5,086.01	16,242.00	6,103.92	19.13	179.17	-159.20	-154.82	-3,261.41	3,762.78	3,572.78	190.00	19.804		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													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		
5,200.00	5,185.71	16,242.00	6,103.92	19.51	179.17	-159.20	-154.82	-3,261.41	3,742.32	3,550.76	191.55	19.537		
5,300.00	5,285.42	16,242.00	6,103.92	19.89	179.17	-159.20	-154.82	-3,261.41	3,724.42	3,531.40	193.02	19.295		
5,400.00	5,385.12	16,242.00	6,103.92	20.26	179.17	-159.20	-154.82	-3,261.41	3,709.14	3,514.74	194.40	19.080		
5,500.00	5,484.83	16,242.00	6,103.92	20.64	179.17	-159.20	-154.82	-3,261.41	3,696.50	3,500.82	195.68	18.891		
5,600.00	5,584.37	16,242.00	6,103.92	21.03	179.17	-124.40	-154.82	-3,261.41	3,686.78	3,489.92	196.86	18.728		
5,700.00	5,681.71	16,242.00	6,103.92	21.43	179.17	-109.61	-154.82	-3,261.41	3,681.41	3,483.47	197.94	18.599		
5,764.03	5,741.50	16,242.00	6,103.92	21.70	179.17	-106.40	-154.82	-3,261.41	3,680.43	3,481.86	198.57	18.534 CC		
5,800.00	5,773.87	16,242.00	6,103.92	21.85	179.17	-105.19	-154.82	-3,261.41	3,680.74	3,481.84	198.90	18.505 ES		
5,900.00	5,858.06	16,242.00	6,103.92	22.29	179.17	-102.74	-154.82	-3,261.41	3,684.80	3,485.08	199.73	18.449		
6,000.00	5,931.71	16,242.00	6,103.92	22.78	179.17	-100.75	-154.82	-3,261.41	3,693.45	3,493.04	200.41	18.429 SF		
6,100.00	5,992.59	16,242.00	6,103.92	23.33	179.17	-98.77	-154.82	-3,261.41	3,706.40	3,505.45	200.95	18.444		
6,200.00	6,038.86	16,242.00	6,103.92	23.96	179.17	-96.66	-154.82	-3,261.41	3,723.21	3,521.86	201.35	18.491		
6,300.00	6,069.09	16,242.00	6,103.92	24.69	179.17	-94.38	-154.82	-3,261.41	3,743.32	3,541.70	201.62	18.566		
6,400.00	6,082.38	16,242.00	6,103.92	25.49	179.17	-91.95	-154.82	-3,261.41	3,766.07	3,564.31	201.76	18.666		
6,500.00	6,083.00	16,242.00	6,103.92	26.37	179.17	-91.28	-154.82	-3,261.41	3,790.99	3,589.19	201.79	18.786		
6,600.00	6,083.00	16,242.00	6,103.92	27.33	179.17	-91.28	-154.82	-3,261.41	3,818.34	3,616.56	201.78	18.923		
6,700.00	6,083.00	16,242.00	6,103.92	28.37	179.17	-91.28	-154.82	-3,261.41	3,848.10	3,646.38	201.72	19.076		
6,800.00	6,083.00	16,242.00	6,103.92	29.48	179.17	-91.28	-154.82	-3,261.41	3,880.21	3,678.60	201.60	19.247		
6,900.00	6,083.00	16,242.00	6,103.92	30.66	179.17	-91.28	-154.82	-3,261.41	3,914.60	3,713.17	201.43	19.434		
7,000.00	6,083.00	16,242.00	6,103.92	31.89	179.17	-91.28	-154.82	-3,261.41	3,951.23	3,750.03	201.20	19.638		
7,100.00	6,083.00	16,242.00	6,103.92	33.17	179.17	-91.28	-154.82	-3,261.41	3,990.04	3,789.12	200.91	19.860		
7,200.00	6,083.00	16,242.00	6,103.92	34.49	179.17	-91.28	-154.82	-3,261.41	4,030.95	3,830.38	200.57	20.098		
7,300.00	6,083.00	16,242.00	6,103.92	35.85	179.17	-91.28	-154.82	-3,261.41	4,073.90	3,873.74	200.16	20.353		
7,400.00	6,083.00	16,242.00	6,103.92	37.25	179.17	-91.28	-154.82	-3,261.41	4,118.83	3,919.13	199.71	20.625		
7,500.00	6,083.00	16,242.00	6,103.92	38.67	179.17	-91.28	-154.82	-3,261.41	4,165.68	3,966.49	199.19	20.913		
7,600.00	6,083.00	16,242.00	6,103.92	40.13	179.17	-91.28	-154.82	-3,261.41	4,214.39	4,015.75	198.63	21.217		
7,700.00	6,083.00	16,242.00	6,103.92	41.61	179.17	-91.28	-154.82	-3,261.41	4,264.88	4,066.85	198.03	21.537		
7,800.00	6,083.00	16,242.00	6,103.92	43.11	179.17	-91.28	-154.82	-3,261.41	4,317.10	4,119.72	197.38	21.872		
7,900.00	6,083.00	16,242.00	6,103.92	44.63	179.17	-91.28	-154.82	-3,261.41	4,370.98	4,174.29	196.69	22.223		
8,000.00	6,083.00	16,242.00	6,103.92	46.17	179.17	-91.28	-154.82	-3,261.41	4,426.46	4,230.50	195.96	22.589		
8,100.00	6,083.00	16,242.00	6,103.92	47.73	179.17	-91.28	-154.82	-3,261.41	4,483.49	4,288.29	195.20	22.969		
8,200.00	6,083.00	16,242.00	6,103.92	49.30	179.17	-91.28	-154.82	-3,261.41	4,542.01	4,347.60	194.41	23.363		
8,300.00	6,083.00	16,242.00	6,103.92	50.88	179.17	-91.28	-154.82	-3,261.41	4,601.95	4,408.36	193.59	23.772		
8,400.00	6,083.00	16,242.00	6,103.92	52.48	179.17	-91.28	-154.82	-3,261.41	4,663.27	4,470.52	192.75	24.193		
8,500.00	6,083.00	16,242.00	6,103.92	54.09	179.17	-91.28	-154.82	-3,261.41	4,725.91	4,534.02	191.89	24.629		
8,600.00	6,083.00	16,242.00	6,103.92	55.70	179.17	-91.28	-154.82	-3,261.41	4,789.82	4,598.81	191.01	25.077		
8,700.00	6,083.00	16,242.00	6,103.92	57.33	179.17	-91.28	-154.82	-3,261.41	4,854.95	4,664.83	190.11	25.537		
8,800.00	6,083.00	16,242.00	6,103.92	58.96	179.17	-91.28	-154.82	-3,261.41	4,921.24	4,732.04	189.21	26.010		
8,900.00	6,083.00	16,242.00	6,103.92	60.61	179.17	-91.28	-154.82	-3,261.41	4,988.66	4,800.38	188.29	26.495		
9,000.00	6,083.00	16,242.00	6,103.92	62.26	179.17	-91.28	-154.82	-3,261.41	5,057.16	4,869.80	187.36	26.991		
9,100.00	6,083.00	16,242.00	6,103.92	63.91	179.17	-91.28	-154.82	-3,261.41	5,126.70	4,940.27	186.43	27.499		
9,200.00	6,083.00	16,242.00	6,103.92	65.58	179.17	-91.28	-154.82	-3,261.41	5,197.23	5,011.73	185.50	28.018		
9,300.00	6,083.00	16,242.00	6,103.92	67.24	179.17	-91.28	-154.82	-3,261.41	5,268.71	5,084.15	184.56	28.547		
9,400.00	6,083.00	16,242.00	6,103.92	68.92	179.17	-91.28	-154.82	-3,261.41	5,341.11	5,157.48	183.62	29.087		
9,500.00	6,083.00	16,242.00	6,103.92	70.60	179.17	-91.28	-154.82	-3,261.41	5,414.39	5,231.70	182.69	29.637		
9,600.00	6,083.00	16,242.00	6,103.92	72.28	179.17	-91.28	-154.82	-3,261.41	5,488.51	5,306.75	181.75	30.197		
9,700.00	6,083.00	16,242.00	6,103.92	73.97	179.17	-91.28	-154.82	-3,261.41	5,563.44	5,382.61	180.82	30.767		
9,800.00	6,083.00	16,242.00	6,103.92	75.66	179.17	-91.28	-154.82	-3,261.41	5,639.15	5,459.25	179.90	31.346		
9,900.00	6,083.00	16,242.00	6,103.92	77.35	179.17	-91.28	-154.82	-3,261.41	5,715.60	5,536.62	178.98	31.934		
10,000.00	6,083.00	16,242.00	6,103.92	79.05	179.17	-91.28	-154.82	-3,261.41	5,792.77	5,614.71	178.07	32.531		
10,100.00	6,083.00	16,242.00	6,103.92	80.75	179.17	-91.28	-154.82	-3,261.41	5,870.64	5,693.47	177.16	33.137		
10,200.00	6,083.00	16,242.00	6,103.92	82.46	179.17	-91.28	-154.82	-3,261.41	5,949.16	5,772.89	176.27	33.751		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL SURVEY													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		
10,300.00	6,083.00	16,242.00	6,103.92	84.17	179.17	-91.28	-154.82	-3,261.41	6,028.32	5,852.94	175.38	34.373		
10,400.00	6,083.00	16,242.00	6,103.92	85.88	179.17	-91.28	-154.82	-3,261.41	6,108.09	5,933.59	174.50	35.004		
10,500.00	6,083.00	16,242.00	6,103.92	87.59	179.17	-91.28	-154.82	-3,261.41	6,188.45	6,014.82	173.63	35.642		
10,600.00	6,083.00	16,242.00	6,103.92	89.30	179.17	-91.28	-154.82	-3,261.41	6,269.37	6,096.60	172.77	36.287		
10,700.00	6,083.00	16,242.00	6,103.92	91.02	179.17	-91.28	-154.82	-3,261.41	6,350.84	6,178.92	171.92	36.940		
10,800.00	6,083.00	16,242.00	6,103.92	92.74	179.17	-91.28	-154.82	-3,261.41	6,432.83	6,261.74	171.09	37.600		
10,900.00	6,083.00	16,242.00	6,103.92	94.46	179.17	-91.28	-154.82	-3,261.41	6,515.32	6,345.06	170.26	38.267		
11,000.00	6,083.00	16,242.00	6,103.92	96.19	179.17	-91.28	-154.82	-3,261.41	6,598.30	6,428.85	169.45	38.941		
11,100.00	6,083.00	16,242.00	6,103.92	97.91	179.17	-91.28	-154.82	-3,261.41	6,681.74	6,513.10	168.64	39.621		
11,200.00	6,083.00	16,242.00	6,103.92	99.64	179.17	-91.28	-154.82	-3,261.41	6,765.64	6,597.79	167.85	40.307		
11,300.00	6,083.00	16,242.00	6,103.92	101.37	179.17	-91.28	-154.82	-3,261.41	6,849.96	6,682.89	167.07	41.000		
11,400.00	6,083.00	16,242.00	6,103.92	103.10	179.17	-91.28	-154.82	-3,261.41	6,934.70	6,768.40	166.30	41.699		
11,500.00	6,083.00	16,242.00	6,103.92	104.83	179.17	-91.28	-154.82	-3,261.41	7,019.85	6,854.30	165.55	42.404		
11,600.00	6,083.00	16,242.00	6,103.92	106.56	179.17	-91.28	-154.82	-3,261.41	7,105.38	6,940.57	164.80	43.115		
11,700.00	6,083.00	16,242.00	6,103.92	108.30	179.17	-91.28	-154.82	-3,261.41	7,191.28	7,027.21	164.07	43.831		
11,800.00	6,083.00	16,242.00	6,103.92	110.03	179.17	-91.28	-154.82	-3,261.41	7,277.54	7,114.19	163.35	44.552		
11,900.00	6,083.00	16,242.00	6,103.92	111.77	179.17	-91.28	-154.82	-3,261.41	7,364.15	7,201.52	162.64	45.279		
12,000.00	6,083.00	16,242.00	6,103.92	113.51	179.17	-91.28	-154.82	-3,261.41	7,451.10	7,289.16	161.94	46.011		
12,100.00	6,083.00	16,242.00	6,103.92	115.24	179.17	-91.28	-154.82	-3,261.41	7,538.37	7,377.12	161.25	46.748		
12,200.00	6,083.00	16,242.00	6,103.92	116.98	179.17	-91.28	-154.82	-3,261.41	7,625.95	7,465.37	160.58	47.490		
12,300.00	6,083.00	16,242.00	6,103.92	118.73	179.17	-91.28	-154.82	-3,261.41	7,713.84	7,553.92	159.92	48.237		
12,400.00	6,083.00	16,242.00	6,103.92	120.47	179.17	-91.28	-154.82	-3,261.41	7,802.01	7,642.75	159.26	48.988		
12,500.00	6,083.00	16,242.00	6,103.92	122.21	179.17	-91.28	-154.82	-3,261.41	7,890.47	7,731.85	158.62	49.744		
12,600.00	6,083.00	16,242.00	6,103.92	123.95	179.17	-91.28	-154.82	-3,261.41	7,979.20	7,821.21	157.99	50.504		
12,700.00	6,083.00	16,242.00	6,103.92	125.70	179.17	-91.28	-154.82	-3,261.41	8,068.20	7,910.82	157.37	51.268		
12,800.00	6,083.00	16,242.00	6,103.92	127.44	179.17	-91.28	-154.82	-3,261.41	8,157.45	8,000.68	156.77	52.036		
12,900.00	6,083.00	16,242.00	6,103.92	129.19	179.17	-91.28	-154.82	-3,261.41	8,246.94	8,090.78	156.17	52.808		
13,000.00	6,083.00	16,242.00	6,103.92	130.94	179.17	-91.28	-154.82	-3,261.41	8,336.68	8,181.10	155.58	53.585		
13,100.00	6,083.00	16,242.00	6,103.92	132.68	179.17	-91.28	-154.82	-3,261.41	8,426.65	8,271.64	155.00	54.365		
13,200.00	6,083.00	16,242.00	6,103.92	134.43	179.17	-91.28	-154.82	-3,261.41	8,516.84	8,362.40	154.44	55.148		
13,300.00	6,083.00	16,242.00	6,103.92	136.18	179.17	-91.28	-154.82	-3,261.41	8,607.24	8,453.36	153.88	55.936		
13,400.00	6,083.00	16,242.00	6,103.92	137.93	179.17	-91.28	-154.82	-3,261.41	8,697.86	8,544.53	153.33	56.726		
13,500.00	6,083.00	16,242.00	6,103.92	139.68	179.17	-91.28	-154.82	-3,261.41	8,788.68	8,635.89	152.79	57.520		
13,600.00	6,083.00	16,242.00	6,103.92	141.43	179.17	-91.28	-154.82	-3,261.41	8,879.70	8,727.43	152.26	58.318		
13,700.00	6,083.00	16,242.00	6,103.92	143.18	179.17	-91.28	-154.82	-3,261.41	8,970.91	8,819.16	151.75	59.118		
13,800.00	6,083.00	16,242.00	6,103.92	144.94	179.17	-91.28	-154.82	-3,261.41	9,062.30	8,911.06	151.24	59.922		
13,900.00	6,083.00	16,242.00	6,103.92	146.69	179.17	-91.28	-154.82	-3,261.41	9,153.87	9,003.14	150.73	60.729		
14,000.00	6,083.00	16,242.00	6,103.92	148.44	179.17	-91.28	-154.82	-3,261.41	9,245.62	9,095.38	150.24	61.538		
14,100.00	6,083.00	16,242.00	6,103.92	150.20	179.17	-91.28	-154.82	-3,261.41	9,337.54	9,187.78	149.76	62.350		
14,200.00	6,083.00	16,242.00	6,103.92	151.95	179.17	-91.28	-154.82	-3,261.41	9,429.62	9,280.34	149.28	63.166		
14,300.00	6,083.00	16,242.00	6,103.92	153.70	179.17	-91.28	-154.82	-3,261.41	9,521.87	9,373.05	148.82	63.983		
14,400.00	6,083.00	16,242.00	6,103.92	155.46	179.17	-91.28	-154.82	-3,261.41	9,614.26	9,465.90	148.36	64.804		
14,500.00	6,083.00	16,242.00	6,103.92	157.21	179.17	-91.28	-154.82	-3,261.41	9,706.81	9,558.90	147.91	65.627		
14,600.00	6,083.00	16,242.00	6,103.92	158.97	179.17	-91.28	-154.82	-3,261.41	9,799.51	9,652.04	147.47	66.452		
14,700.00	6,083.00	16,242.00	6,103.92	160.73	179.17	-91.28	-154.82	-3,261.41	9,892.34	9,745.31	147.03	67.280		
14,800.00	6,083.00	16,242.00	6,103.92	162.48	179.17	-91.28	-154.82	-3,261.41	9,985.32	9,838.71	146.61	68.110		
14,900.00	6,083.00	16,242.00	6,103.92	164.24	179.17	-91.28	-154.82	-3,261.41	10,078.43	9,932.24	146.19	68.942		

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-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	16,091.00	6,093.77	0.00	178.75	-95.98	-210.02	-2,004.76	6,474.54					
100.00	100.00	16,091.00	6,093.77	0.27	178.75	-95.98	-210.02	-2,004.76	6,379.59	6,282.60	96.99	65.774		
200.00	200.00	16,091.00	6,093.77	0.63	178.75	-95.98	-210.02	-2,004.76	6,284.79	6,187.38	97.41	64.519		
300.00	299.98	16,091.00	6,093.77	0.98	178.75	-161.56	-210.02	-2,004.76	6,190.71	6,092.85	97.86	63.260		
400.00	399.84	16,091.00	6,093.77	1.34	178.75	-163.06	-210.02	-2,004.76	6,098.02	5,999.65	98.37	61.990		
500.00	499.55	16,091.00	6,093.77	1.71	178.75	-163.33	-210.02	-2,004.76	6,006.45	5,907.50	98.95	60.702		
600.00	599.25	16,091.00	6,093.77	2.08	178.75	-163.33	-210.02	-2,004.76	5,915.17	5,815.59	99.59	59.398		
700.00	698.96	16,091.00	6,093.77	2.45	178.75	-163.33	-210.02	-2,004.76	5,824.19	5,723.93	100.26	58.090		
800.00	798.67	16,091.00	6,093.77	2.83	178.75	-163.33	-210.02	-2,004.76	5,733.51	5,632.53	100.98	56.781		
900.00	898.37	16,091.00	6,093.77	3.21	178.75	-163.33	-210.02	-2,004.76	5,643.14	5,541.41	101.73	55.472		
1,000.00	998.08	16,091.00	6,093.77	3.58	178.75	-163.33	-210.02	-2,004.76	5,553.10	5,450.58	102.52	54.164		
1,100.00	1,097.78	16,091.00	6,093.77	3.96	178.75	-163.33	-210.02	-2,004.76	5,463.41	5,360.05	103.36	52.858		
1,200.00	1,197.49	16,091.00	6,093.77	4.34	178.75	-163.33	-210.02	-2,004.76	5,374.08	5,269.84	104.24	51.556		
1,300.00	1,297.19	16,091.00	6,093.77	4.72	178.75	-163.33	-210.02	-2,004.76	5,285.13	5,179.97	105.16	50.259		
1,400.00	1,396.90	16,091.00	6,093.77	5.10	178.75	-163.33	-210.02	-2,004.76	5,196.59	5,090.47	106.12	48.968		
1,500.00	1,496.60	16,091.00	6,093.77	5.47	178.75	-163.33	-210.02	-2,004.76	5,108.47	5,001.34	107.13	47.684		
1,600.00	1,596.31	16,091.00	6,093.77	5.85	178.75	-163.33	-210.02	-2,004.76	5,020.79	4,912.60	108.19	46.409		
1,700.00	1,696.02	16,091.00	6,093.77	6.23	178.75	-163.33	-210.02	-2,004.76	4,933.58	4,824.29	109.29	45.142		
1,800.00	1,795.72	16,091.00	6,093.77	6.61	178.75	-163.33	-210.02	-2,004.76	4,846.87	4,736.43	110.44	43.886		
1,900.00	1,895.43	16,091.00	6,093.77	6.99	178.75	-163.33	-210.02	-2,004.76	4,760.68	4,649.03	111.65	42.640		
2,000.00	1,995.13	16,091.00	6,093.77	7.37	178.75	-163.33	-210.02	-2,004.76	4,675.03	4,562.13	112.90	41.407		
2,100.00	2,094.84	16,091.00	6,093.77	7.75	178.75	-163.33	-210.02	-2,004.76	4,589.97	4,475.76	114.22	40.187		
2,200.00	2,194.54	16,091.00	6,093.77	8.13	178.75	-163.33	-210.02	-2,004.76	4,505.52	4,389.94	115.58	38.981		
2,300.00	2,294.25	16,091.00	6,093.77	8.51	178.75	-163.33	-210.02	-2,004.76	4,421.73	4,304.72	117.01	37.790		
2,400.00	2,393.95	16,091.00	6,093.77	8.89	178.75	-163.33	-210.02	-2,004.76	4,338.61	4,220.12	118.50	36.614		
2,500.00	2,493.66	16,091.00	6,093.77	9.26	178.75	-163.33	-210.02	-2,004.76	4,256.23	4,136.18	120.04	35.455		
2,600.00	2,593.37	16,091.00	6,093.77	9.64	178.75	-163.33	-210.02	-2,004.76	4,174.61	4,052.95	121.66	34.314		
2,700.00	2,693.07	16,091.00	6,093.77	10.02	178.75	-163.33	-210.02	-2,004.76	4,093.81	3,970.47	123.34	33.192		
2,800.00	2,792.78	16,091.00	6,093.77	10.40	178.75	-163.33	-210.02	-2,004.76	4,013.87	3,888.79	125.09	32.089		
2,900.00	2,892.48	16,091.00	6,093.77	10.78	178.75	-163.33	-210.02	-2,004.76	3,934.85	3,807.95	126.91	31.006		
3,000.00	2,992.19	16,091.00	6,093.77	11.16	178.75	-163.33	-210.02	-2,004.76	3,856.81	3,728.01	128.80	29.945		
3,100.00	3,091.89	16,091.00	6,093.77	11.54	178.75	-163.33	-210.02	-2,004.76	3,779.80	3,649.04	130.76	28.907		
3,200.00	3,191.60	16,091.00	6,093.77	11.92	178.75	-163.33	-210.02	-2,004.76	3,703.89	3,571.09	132.80	27.891		
3,300.00	3,291.31	16,091.00	6,093.77	12.30	178.75	-163.33	-210.02	-2,004.76	3,629.15	3,494.23	134.91	26.900		
3,400.00	3,391.01	16,091.00	6,093.77	12.68	178.75	-163.33	-210.02	-2,004.76	3,555.64	3,418.54	137.10	25.934		
3,500.00	3,490.72	16,091.00	6,093.77	13.06	178.75	-163.33	-210.02	-2,004.76	3,483.46	3,344.09	139.37	24.995		
3,600.00	3,590.42	16,091.00	6,093.77	13.44	178.75	-163.33	-210.02	-2,004.76	3,412.68	3,270.98	141.71	24.083		
3,700.00	3,690.13	16,091.00	6,093.77	13.82	178.75	-163.33	-210.02	-2,004.76	3,343.40	3,199.28	144.12	23.198		
3,800.00	3,789.83	16,091.00	6,093.77	14.19	178.75	-163.33	-210.02	-2,004.76	3,275.70	3,129.09	146.61	22.343		
3,900.00	3,889.54	16,091.00	6,093.77	14.57	178.75	-163.33	-210.02	-2,004.76	3,209.69	3,060.53	149.16	21.518		
4,000.00	3,989.24	16,091.00	6,093.77	14.95	178.75	-163.33	-210.02	-2,004.76	3,145.48	2,993.69	151.78	20.723		
4,100.00	4,088.95	16,091.00	6,093.77	15.33	178.75	-163.33	-210.02	-2,004.76	3,083.17	2,928.71	154.46	19.961		
4,200.00	4,188.66	16,091.00	6,093.77	15.71	178.75	-163.33	-210.02	-2,004.76	3,022.88	2,865.69	157.19	19.230		
4,300.00	4,288.36	16,091.00	6,093.77	16.09	178.75	-163.33	-210.02	-2,004.76	2,964.75	2,804.78	159.97	18.533		
4,400.00	4,388.07	16,091.00	6,093.77	16.47	178.75	-163.33	-210.02	-2,004.76	2,908.89	2,746.11	162.78	17.870		
4,500.00	4,487.77	16,091.00	6,093.77	16.85	178.75	-163.33	-210.02	-2,004.76	2,855.44	2,689.83	165.61	17.242		
4,600.00	4,587.48	16,091.00	6,093.77	17.23	178.75	-163.33	-210.02	-2,004.76	2,804.54	2,636.09	168.45	16.649		
4,700.00	4,687.18	16,091.00	6,093.77	17.61	178.75	-163.33	-210.02	-2,004.76	2,756.33	2,585.05	171.28	16.093		
4,800.00	4,786.89	16,091.00	6,093.77	17.99	178.75	-163.33	-210.02	-2,004.76	2,710.95	2,536.87	174.09	15.573		
4,900.00	4,886.59	16,091.00	6,093.77	18.37	178.75	-163.33	-210.02	-2,004.76	2,668.55	2,491.70	176.85	15.089		
5,000.00	4,986.30	16,091.00	6,093.77	18.75	178.75	-163.33	-210.02	-2,004.76	2,629.27	2,449.72	179.55	14.644		
5,100.00	5,086.01	16,091.00	6,093.77	19.13	178.75	-163.33	-210.02	-2,004.76	2,593.25	2,411.09	182.16	14.236		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 124-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		
5,200.00	5,185.71	16,091.00	6,093.77	19.51	178.75	-163.33	-210.02	-2,004.76	2,560.64	2,375.98	184.66	13.867		
5,300.00	5,285.42	16,091.00	6,093.77	19.89	178.75	-163.33	-210.02	-2,004.76	2,531.56	2,344.52	187.03	13.535		
5,400.00	5,385.12	16,091.00	6,093.77	20.26	178.75	-163.33	-210.02	-2,004.76	2,506.13	2,316.88	189.24	13.243		
5,500.00	5,484.83	16,091.00	6,093.77	20.64	178.75	-163.33	-210.02	-2,004.76	2,484.47	2,293.19	191.28	12.989		
5,600.00	5,584.37	16,091.00	6,093.77	21.03	178.75	-128.92	-210.02	-2,004.76	2,467.11	2,274.03	193.08	12.777		
5,700.00	5,681.71	16,091.00	6,093.77	21.43	178.75	-114.63	-210.02	-2,004.76	2,456.57	2,262.08	194.50	12.630		
5,789.21	5,764.26	16,091.00	6,093.77	21.80	178.75	-110.76	-210.02	-2,004.76	2,453.52	2,258.16	195.37	12.559 CC		
5,800.00	5,773.87	16,091.00	6,093.77	21.85	178.75	-110.44	-210.02	-2,004.76	2,453.57	2,258.13	195.44	12.554 ES		
5,900.00	5,858.06	16,091.00	6,093.77	22.29	178.75	-107.93	-210.02	-2,004.76	2,458.22	2,262.32	195.90	12.549 SF		
6,000.00	5,931.71	16,091.00	6,093.77	22.78	178.75	-105.61	-210.02	-2,004.76	2,470.34	2,274.49	195.85	12.613		
6,100.00	5,992.59	16,091.00	6,093.77	23.33	178.75	-103.01	-210.02	-2,004.76	2,489.45	2,294.11	195.34	12.744		
6,200.00	6,038.86	16,091.00	6,093.77	23.96	178.75	-100.00	-210.02	-2,004.76	2,514.83	2,320.41	194.42	12.935		
6,300.00	6,069.09	16,091.00	6,093.77	24.69	178.75	-96.55	-210.02	-2,004.76	2,545.53	2,352.39	193.14	13.180		
6,400.00	6,082.38	16,091.00	6,093.77	25.49	178.75	-92.73	-210.02	-2,004.76	2,580.44	2,388.85	191.59	13.469		
6,500.00	6,083.00	16,091.00	6,093.77	26.37	178.75	-91.66	-210.02	-2,004.76	2,618.61	2,428.75	189.85	13.793		
6,600.00	6,083.00	16,091.00	6,093.77	27.33	178.75	-91.66	-210.02	-2,004.76	2,659.97	2,471.94	188.02	14.147		
6,700.00	6,083.00	16,091.00	6,093.77	28.37	178.75	-91.66	-210.02	-2,004.76	2,704.39	2,518.29	186.11	14.531		
6,800.00	6,083.00	16,091.00	6,093.77	29.48	178.75	-91.66	-210.02	-2,004.76	2,751.74	2,567.62	184.12	14.945		
6,900.00	6,083.00	16,091.00	6,093.77	30.66	178.75	-91.66	-210.02	-2,004.76	2,801.85	2,619.77	182.08	15.388		
7,000.00	6,083.00	16,091.00	6,093.77	31.89	178.75	-91.66	-210.02	-2,004.76	2,854.60	2,674.60	180.00	15.859		
7,100.00	6,083.00	16,091.00	6,093.77	33.17	178.75	-91.66	-210.02	-2,004.76	2,909.82	2,731.94	177.88	16.358		
7,200.00	6,083.00	16,091.00	6,093.77	34.49	178.75	-91.66	-210.02	-2,004.76	2,967.38	2,791.64	175.74	16.885		
7,300.00	6,083.00	16,091.00	6,093.77	35.85	178.75	-91.66	-210.02	-2,004.76	3,027.16	2,853.56	173.59	17.438		
7,400.00	6,083.00	16,091.00	6,093.77	37.25	178.75	-91.66	-210.02	-2,004.76	3,089.01	2,917.57	171.44	18.018		
7,500.00	6,083.00	16,091.00	6,093.77	38.67	178.75	-91.66	-210.02	-2,004.76	3,152.83	2,983.53	169.30	18.623		
7,600.00	6,083.00	16,091.00	6,093.77	40.13	178.75	-91.66	-210.02	-2,004.76	3,218.49	3,051.32	167.17	19.253		
7,700.00	6,083.00	16,091.00	6,093.77	41.61	178.75	-91.66	-210.02	-2,004.76	3,285.88	3,120.82	165.06	19.908		
7,800.00	6,083.00	16,091.00	6,093.77	43.11	178.75	-91.66	-210.02	-2,004.76	3,354.89	3,191.92	162.97	20.586		
7,900.00	6,083.00	16,091.00	6,093.77	44.63	178.75	-91.66	-210.02	-2,004.76	3,425.44	3,264.52	160.91	21.287		
8,000.00	6,083.00	16,091.00	6,093.77	46.17	178.75	-91.66	-210.02	-2,004.76	3,497.42	3,338.53	158.89	22.011		
8,100.00	6,083.00	16,091.00	6,093.77	47.73	178.75	-91.66	-210.02	-2,004.76	3,570.75	3,413.84	156.91	22.757		
8,200.00	6,083.00	16,091.00	6,093.77	49.30	178.75	-91.66	-210.02	-2,004.76	3,645.35	3,490.39	154.96	23.524		
8,300.00	6,083.00	16,091.00	6,093.77	50.88	178.75	-91.66	-210.02	-2,004.76	3,721.14	3,568.08	153.06	24.311		
8,400.00	6,083.00	16,091.00	6,093.77	52.48	178.75	-91.66	-210.02	-2,004.76	3,798.06	3,646.86	151.20	25.119		
8,500.00	6,083.00	16,091.00	6,093.77	54.09	178.75	-91.66	-210.02	-2,004.76	3,876.02	3,726.64	149.39	25.946		
8,600.00	6,083.00	16,091.00	6,093.77	55.70	178.75	-91.66	-210.02	-2,004.76	3,954.98	3,807.37	147.62	26.792		
8,700.00	6,083.00	16,091.00	6,093.77	57.33	178.75	-91.66	-210.02	-2,004.76	4,034.87	3,888.99	145.89	27.657		
8,800.00	6,083.00	16,091.00	6,093.77	58.96	178.75	-91.66	-210.02	-2,004.76	4,115.65	3,971.44	144.21	28.540		
8,900.00	6,083.00	16,091.00	6,093.77	60.61	178.75	-91.66	-210.02	-2,004.76	4,197.24	4,054.67	142.57	29.439		
9,000.00	6,083.00	16,091.00	6,093.77	62.26	178.75	-91.66	-210.02	-2,004.76	4,279.62	4,138.64	140.98	30.356		
9,100.00	6,083.00	16,091.00	6,093.77	63.91	178.75	-91.66	-210.02	-2,004.76	4,362.74	4,223.31	139.43	31.289		
9,200.00	6,083.00	16,091.00	6,093.77	65.58	178.75	-91.66	-210.02	-2,004.76	4,446.55	4,308.62	137.93	32.238		
9,300.00	6,083.00	16,091.00	6,093.77	67.24	178.75	-91.66	-210.02	-2,004.76	4,531.02	4,394.55	136.47	33.202		
9,400.00	6,083.00	16,091.00	6,093.77	68.92	178.75	-91.66	-210.02	-2,004.76	4,616.11	4,481.06	135.05	34.181		
9,500.00	6,083.00	16,091.00	6,093.77	70.60	178.75	-91.66	-210.02	-2,004.76	4,701.79	4,568.12	133.67	35.174		
9,600.00	6,083.00	16,091.00	6,093.77	72.28	178.75	-91.66	-210.02	-2,004.76	4,788.02	4,655.69	132.33	36.182		
9,700.00	6,083.00	16,091.00	6,093.77	73.97	178.75	-91.66	-210.02	-2,004.76	4,874.78	4,743.74	131.03	37.203		
9,800.00	6,083.00	16,091.00	6,093.77	75.66	178.75	-91.66	-210.02	-2,004.76	4,962.03	4,832.26	129.77	38.237		
9,900.00	6,083.00	16,091.00	6,093.77	77.35	178.75	-91.66	-210.02	-2,004.76	5,049.76	4,921.21	128.55	39.283		
10,000.00	6,083.00	16,091.00	6,093.77	79.05	178.75	-91.66	-210.02	-2,004.76	5,137.94	5,010.58	127.36	40.343		
10,100.00	6,083.00	16,091.00	6,093.77	80.75	178.75	-91.66	-210.02	-2,004.76	5,226.54	5,100.34	126.20	41.414		
10,200.00	6,083.00	16,091.00	6,093.77	82.46	178.75	-91.66	-210.02	-2,004.76	5,315.55	5,190.47	125.08	42.496		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 124-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		
10,300.00	6,083.00	16,091.00	6,093.77	84.17	178.75	-91.66	-210.02	-2,004.76	5,404.94	5,280.95	124.00	43.590		
10,400.00	6,083.00	16,091.00	6,093.77	85.88	178.75	-91.66	-210.02	-2,004.76	5,494.70	5,371.76	122.94	44.694		
10,500.00	6,083.00	16,091.00	6,093.77	87.59	178.75	-91.66	-210.02	-2,004.76	5,584.80	5,462.89	121.91	45.809		
10,600.00	6,083.00	16,091.00	6,093.77	89.30	178.75	-91.66	-210.02	-2,004.76	5,675.24	5,554.32	120.92	46.934		
10,700.00	6,083.00	16,091.00	6,093.77	91.02	178.75	-91.66	-210.02	-2,004.76	5,765.99	5,646.04	119.95	48.069		
10,800.00	6,083.00	16,091.00	6,093.77	92.74	178.75	-91.66	-210.02	-2,004.76	5,857.05	5,738.03	119.01	49.213		
10,900.00	6,083.00	16,091.00	6,093.77	94.46	178.75	-91.66	-210.02	-2,004.76	5,948.39	5,830.29	118.10	50.366		
11,000.00	6,083.00	16,091.00	6,093.77	96.19	178.75	-91.66	-210.02	-2,004.76	6,040.00	5,922.79	117.22	51.528		
11,100.00	6,083.00	16,091.00	6,093.77	97.91	178.75	-91.66	-210.02	-2,004.76	6,131.88	6,015.53	116.36	52.699		
11,200.00	6,083.00	16,091.00	6,093.77	99.64	178.75	-91.66	-210.02	-2,004.76	6,224.01	6,108.49	115.52	53.878		
11,300.00	6,083.00	16,091.00	6,093.77	101.37	178.75	-91.66	-210.02	-2,004.76	6,316.38	6,201.67	114.71	55.064		
11,400.00	6,083.00	16,091.00	6,093.77	103.10	178.75	-91.66	-210.02	-2,004.76	6,408.97	6,295.05	113.92	56.259		
11,500.00	6,083.00	16,091.00	6,093.77	104.83	178.75	-91.66	-210.02	-2,004.76	6,501.79	6,388.64	113.15	57.460		
11,600.00	6,083.00	16,091.00	6,093.77	106.56	178.75	-91.66	-210.02	-2,004.76	6,594.82	6,482.41	112.41	58.669		
11,700.00	6,083.00	16,091.00	6,093.77	108.30	178.75	-91.66	-210.02	-2,004.76	6,688.04	6,576.36	111.68	59.884		
11,800.00	6,083.00	16,091.00	6,093.77	110.03	178.75	-91.66	-210.02	-2,004.76	6,781.46	6,670.49	110.98	61.107		
11,900.00	6,083.00	16,091.00	6,093.77	111.77	178.75	-91.66	-210.02	-2,004.76	6,875.07	6,764.78	110.29	62.335		
12,000.00	6,083.00	16,091.00	6,093.77	113.51	178.75	-91.66	-210.02	-2,004.76	6,968.85	6,859.22	109.63	63.569		
12,100.00	6,083.00	16,091.00	6,093.77	115.24	178.75	-91.66	-210.02	-2,004.76	7,062.80	6,953.83	108.98	64.810		
12,200.00	6,083.00	16,091.00	6,093.77	116.98	178.75	-91.66	-210.02	-2,004.76	7,156.92	7,048.57	108.35	66.055		
12,300.00	6,083.00	16,091.00	6,093.77	118.73	178.75	-91.66	-210.02	-2,004.76	7,251.20	7,143.46	107.73	67.307		
12,400.00	6,083.00	16,091.00	6,093.77	120.47	178.75	-91.66	-210.02	-2,004.76	7,345.62	7,238.49	107.14	68.563		
12,500.00	6,083.00	16,091.00	6,093.77	122.21	178.75	-91.66	-210.02	-2,004.76	7,440.19	7,333.64	106.56	69.824		
12,600.00	6,083.00	16,091.00	6,093.77	123.95	178.75	-91.66	-210.02	-2,004.76	7,534.91	7,428.92	105.99	71.090		
12,700.00	6,083.00	16,091.00	6,093.77	125.70	178.75	-91.66	-210.02	-2,004.76	7,629.75	7,524.31	105.44	72.361		
12,800.00	6,083.00	16,091.00	6,093.77	127.44	178.75	-91.66	-210.02	-2,004.76	7,724.73	7,619.83	104.90	73.636		
12,900.00	6,083.00	16,091.00	6,093.77	129.19	178.75	-91.66	-210.02	-2,004.76	7,819.83	7,715.45	104.38	74.914		
13,000.00	6,083.00	16,091.00	6,093.77	130.94	178.75	-91.66	-210.02	-2,004.76	7,915.06	7,811.18	103.88	76.197		
13,100.00	6,083.00	16,091.00	6,093.77	132.68	178.75	-91.66	-210.02	-2,004.76	8,010.40	7,907.01	103.38	77.484		
13,200.00	6,083.00	16,091.00	6,093.77	134.43	178.75	-91.66	-210.02	-2,004.76	8,105.85	8,002.95	102.90	78.774		
13,300.00	6,083.00	16,091.00	6,093.77	136.18	178.75	-91.66	-210.02	-2,004.76	8,201.41	8,098.98	102.43	80.068		
13,400.00	6,083.00	16,091.00	6,093.77	137.93	178.75	-91.66	-210.02	-2,004.76	8,297.07	8,195.10	101.97	81.365		
13,500.00	6,083.00	16,091.00	6,093.77	139.68	178.75	-91.66	-210.02	-2,004.76	8,392.84	8,291.31	101.53	82.665		
13,600.00	6,083.00	16,091.00	6,093.77	141.43	178.75	-91.66	-210.02	-2,004.76	8,488.70	8,387.61	101.10	83.967		
13,700.00	6,083.00	16,091.00	6,093.77	143.18	178.75	-91.66	-210.02	-2,004.76	8,584.66	8,483.99	100.67	85.273		
13,800.00	6,083.00	16,091.00	6,093.77	144.94	178.75	-91.66	-210.02	-2,004.76	8,680.71	8,580.45	100.26	86.581		
13,900.00	6,083.00	16,091.00	6,093.77	146.69	178.75	-91.66	-210.02	-2,004.76	8,776.85	8,676.99	99.86	87.892		
14,000.00	6,083.00	16,091.00	6,093.77	148.44	178.75	-91.66	-210.02	-2,004.76	8,873.07	8,773.60	99.47	89.204		
14,100.00	6,083.00	16,091.00	6,093.77	150.20	178.75	-91.66	-210.02	-2,004.76	8,969.37	8,870.29	99.09	90.519		
14,200.00	6,083.00	16,091.00	6,093.77	151.95	178.75	-91.66	-210.02	-2,004.76	9,065.76	8,967.04	98.72	91.836		
14,300.00	6,083.00	16,091.00	6,093.77	153.70	178.75	-91.66	-210.02	-2,004.76	9,162.22	9,063.87	98.35	93.155		
14,400.00	6,083.00	16,091.00	6,093.77	155.46	178.75	-91.66	-210.02	-2,004.76	9,258.76	9,160.76	98.00	94.475		
14,500.00	6,083.00	16,091.00	6,093.77	157.21	178.75	-91.66	-210.02	-2,004.76	9,355.37	9,257.71	97.66	95.797		
14,600.00	6,083.00	16,091.00	6,093.77	158.97	178.75	-91.66	-210.02	-2,004.76	9,452.05	9,354.73	97.32	97.121		
14,700.00	6,083.00	16,091.00	6,093.77	160.73	178.75	-91.66	-210.02	-2,004.76	9,548.80	9,451.81	97.00	98.446		
14,800.00	6,083.00	16,091.00	6,093.77	162.48	178.75	-91.66	-210.02	-2,004.76	9,645.62	9,548.94	96.68	99.772		
14,900.00	6,083.00	16,091.00	6,093.77	164.24	178.75	-91.66	-210.02	-2,004.76	9,742.50	9,646.13	96.37	101.099		
15,000.00	6,083.00	16,091.00	6,093.77	166.00	178.75	-91.66	-210.02	-2,004.76	9,839.44	9,743.38	96.06	102.427		
15,100.00	6,083.00	16,091.00	6,093.77	167.75	178.75	-91.66	-210.02	-2,004.76	9,936.44	9,840.68	95.77	103.756		
15,200.00	6,083.00	16,091.00	6,093.77	169.51	178.75	-91.66	-210.02	-2,004.76	10,033.51	9,938.03	95.48	105.086		



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 500-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	-65.34	73.60	-160.34	176.66				
100.00	100.00	91.34	91.34	0.27	0.16	-65.35	73.54	-160.27	176.34	175.91	0.43	412.809	
200.00	200.00	191.71	191.71	0.63	0.33	-65.38	73.35	-160.03	176.04	175.08	0.96	183.461	
220.11	220.11	211.89	211.89	0.70	0.37	-129.14	73.29	-159.97	176.00	174.94	1.07	165.112 CC, ES	
300.00	299.98	292.06	292.06	0.98	0.51	-129.59	73.01	-159.63	176.64	175.16	1.49	118.712	
400.00	399.84	392.30	392.30	1.34	0.68	-130.91	72.54	-159.06	179.32	177.30	2.02	88.809	
500.00	499.55	492.41	492.40	1.71	0.85	-132.78	71.93	-158.32	183.48	180.93	2.56	71.811	
600.00	599.25	592.33	592.32	2.08	1.20	-134.55	71.38	-157.39	187.73	184.47	3.26	57.572	
700.00	698.96	692.29	692.27	2.45	1.56	-136.13	71.16	-156.26	192.04	188.06	3.98	48.232	
800.00	798.67	791.98	791.95	2.83	1.91	-137.57	71.15	-155.02	196.45	191.75	4.70	41.783	
900.00	898.37	891.61	891.57	3.21	2.27	-138.95	71.16	-153.85	201.05	195.63	5.42	37.084	
1,000.00	998.08	991.49	991.45	3.58	2.62	-140.30	71.04	-152.72	205.78	199.63	6.14	33.496	
1,100.00	1,097.78	1,091.35	1,091.30	3.96	2.98	-141.67	70.65	-151.60	210.56	203.70	6.86	30.673	
1,200.00	1,197.49	1,190.32	1,190.26	4.34	3.34	-143.01	70.10	-150.54	215.48	207.90	7.58	28.423	
1,300.00	1,297.19	1,284.70	1,284.63	4.72	3.66	-144.48	68.85	-151.02	221.95	213.69	8.27	26.851	
1,400.00	1,396.90	1,376.17	1,376.00	5.10	3.97	-146.18	66.61	-154.50	231.67	222.74	8.92	25.969	
1,500.00	1,496.60	1,468.07	1,467.62	5.47	4.28	-148.03	63.53	-160.99	244.75	235.18	9.57	25.578	
1,600.00	1,596.31	1,560.16	1,559.20	5.85	4.59	-149.73	60.48	-170.08	260.85	250.64	10.21	25.539	
1,700.00	1,696.02	1,654.12	1,652.42	6.23	4.92	-151.57	56.04	-180.95	278.83	267.96	10.87	25.646	
1,800.00	1,795.72	1,739.59	1,736.82	6.61	5.24	-153.26	50.98	-193.46	300.11	288.65	11.46	26.190	
1,900.00	1,895.43	1,827.22	1,822.87	6.99	5.57	-154.71	46.08	-209.25	324.96	312.90	12.06	26.948	
2,000.00	1,995.13	1,924.49	1,918.14	7.37	5.97	-156.18	40.17	-227.92	351.21	338.45	12.76	27.533	
2,100.00	2,094.84	2,017.00	2,008.62	7.75	6.36	-157.62	33.05	-245.85	377.95	364.54	13.41	28.180	
2,200.00	2,194.54	2,110.27	2,099.66	8.13	6.77	-158.95	25.40	-264.60	405.66	391.58	14.08	28.812	
2,300.00	2,294.25	2,212.15	2,199.27	8.51	7.22	-160.07	18.10	-284.73	433.09	418.25	14.83	29.198	
2,400.00	2,393.95	2,302.00	2,287.04	8.89	7.63	-160.89	12.02	-302.91	461.02	445.55	15.47	29.795	
2,500.00	2,493.66	2,394.38	2,377.05	9.26	8.06	-161.75	4.71	-322.38	490.03	473.89	16.14	30.359	
2,600.00	2,593.37	2,489.39	2,469.64	9.64	8.51	-162.51	-2.57	-342.41	519.13	502.29	16.84	30.834	
2,700.00	2,693.07	2,585.49	2,563.33	10.02	8.98	-163.07	-8.70	-362.88	548.28	530.74	17.54	31.253	
2,800.00	2,792.78	2,676.20	2,651.70	10.40	9.42	-163.55	-14.63	-382.50	577.82	559.62	18.20	31.746	
2,900.00	2,892.48	2,780.03	2,752.89	10.78	9.93	-164.06	-21.53	-404.71	607.20	588.22	18.98	31.985	
3,000.00	2,992.19	2,875.76	2,846.34	11.16	10.40	-164.44	-27.29	-424.62	635.92	616.23	19.69	32.296	
3,100.00	3,091.89	2,979.10	2,947.39	11.54	10.90	-164.78	-33.01	-445.53	664.02	643.55	20.46	32.447	
3,200.00	3,191.60	3,078.80	3,045.02	11.92	11.38	-165.13	-38.96	-464.84	691.40	670.19	21.20	32.605	
3,300.00	3,291.31	3,177.86	3,142.14	12.30	11.86	-165.49	-45.14	-483.33	718.17	696.23	21.94	32.733	
3,400.00	3,391.01	3,267.11	3,229.55	12.68	12.29	-165.85	-51.52	-500.18	745.37	722.78	22.59	32.989	
3,500.00	3,490.72	3,358.75	3,319.10	13.06	12.75	-166.24	-58.82	-518.24	773.57	750.30	23.27	33.243	
3,600.00	3,590.42	3,482.21	3,440.23	13.44	13.34	-166.63	-66.93	-540.61	799.92	775.72	24.20	33.050	
3,700.00	3,690.13	3,606.29	3,562.65	13.82	13.90	-166.88	-72.87	-559.93	823.56	798.45	25.11	32.797	
3,800.00	3,789.83	3,772.71	3,728.08	14.19	14.56	-167.25	-79.25	-576.39	841.62	815.41	26.20	32.118	
3,900.00	3,889.54	3,935.64	3,890.92	14.57	15.08	-167.46	-80.33	-579.67	850.95	823.84	27.11	31.387	
4,000.00	3,989.24	4,036.88	3,992.15	14.95	15.36	-167.48	-78.70	-578.71	857.14	829.34	27.80	30.835	
4,100.00	4,088.95	4,139.16	4,094.39	15.33	15.65	-167.44	-76.16	-577.76	863.13	834.65	28.49	30.300	
4,200.00	4,188.66	4,243.51	4,198.67	15.71	15.94	-167.33	-72.35	-576.61	868.69	839.51	29.18	29.769	
4,300.00	4,288.36	4,336.84	4,291.90	16.09	16.21	-167.19	-68.20	-575.55	874.05	844.19	29.86	29.276	
4,400.00	4,388.07	4,424.21	4,379.23	16.47	16.47	-167.15	-66.17	-575.57	880.98	850.46	30.52	28.869	
4,500.00	4,487.77	4,520.35	4,475.36	16.85	16.77	-167.15	-64.57	-576.13	888.64	857.44	31.20	28.479	
4,600.00	4,587.48	4,618.46	4,573.46	17.23	17.07	-167.15	-63.07	-577.04	896.66	864.76	31.90	28.111	
4,700.00	4,687.18	4,719.88	4,674.85	17.61	17.39	-167.12	-61.00	-578.02	904.60	871.99	32.60	27.747	
4,800.00	4,786.89	4,825.94	4,780.88	17.99	17.72	-167.08	-58.67	-578.72	912.22	878.90	33.32	27.378	
4,900.00	4,886.59	4,931.49	4,886.43	18.37	18.04	-167.20	-58.57	-577.94	918.95	884.92	34.03	27.005	
5,000.00	4,986.30	5,030.69	4,985.63	18.75	18.34	-167.33	-58.76	-576.89	925.45	890.72	34.72	26.653	

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 500-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	5,086.01	5,128.42	5,083.35	19.13	18.64	-167.46	-59.08	-576.02	932.14	896.73	35.41	26.323		
5,200.00	5,185.71	5,228.57	5,183.49	19.51	18.95	-167.61	-59.62	-575.19	938.96	902.85	36.11	26.003		
5,300.00	5,285.42	5,329.41	5,284.32	19.89	19.26	-167.78	-60.53	-574.16	945.67	908.86	36.81	25.690		
5,400.00	5,385.12	5,426.37	5,381.27	20.26	19.56	-167.95	-61.62	-573.17	952.46	914.96	37.50	25.396		
5,500.00	5,484.83	5,522.83	5,477.73	20.64	19.86	-168.12	-62.74	-572.52	959.60	921.40	38.20	25.123		
5,600.00	5,584.37	5,627.38	5,582.22	21.03	20.19	-132.85	-65.55	-571.13	967.13	928.22	38.91	24.853		
5,700.00	5,681.71	5,703.00	5,657.18	21.43	20.44	-117.67	-74.71	-568.49	979.43	939.90	39.53	24.774 SF		
5,800.00	5,773.87	5,765.13	5,717.50	21.85	20.64	-113.19	-89.16	-565.47	999.84	959.76	40.08	24.949		
5,900.00	5,858.06	5,798.00	5,748.87	22.29	20.75	-109.43	-98.85	-563.89	1,030.26	989.84	40.42	25.489		
6,000.00	5,931.71	5,823.40	5,772.86	22.78	20.84	-105.16	-107.15	-563.03	1,071.18	1,030.52	40.67	26.340		
6,100.00	5,992.59	5,845.00	5,793.11	23.33	20.92	-99.94	-114.67	-562.90	1,121.70	1,080.82	40.89	27.436		
6,200.00	6,038.86	5,845.00	5,793.11	23.96	20.92	-92.49	-114.67	-562.90	1,179.30	1,138.35	40.95	28.797		
6,300.00	6,069.09	5,845.00	5,793.11	24.69	20.92	-84.28	-114.67	-562.90	1,241.86	1,200.79	41.08	30.233		
6,400.00	6,082.38	5,845.00	5,793.11	25.49	20.92	-75.88	-114.67	-562.90	1,306.91	1,265.64	41.28	31.663		
6,500.00	6,083.00	5,818.96	5,768.69	26.37	20.83	-72.36	-105.66	-563.12	1,372.82	1,331.51	41.31	33.234		
6,600.00	6,083.00	5,798.00	5,748.87	27.33	20.75	-71.31	-98.85	-563.89	1,442.60	1,401.20	41.40	34.845		
6,700.00	6,083.00	5,798.00	5,748.87	28.37	20.75	-71.31	-98.85	-563.89	1,515.33	1,473.66	41.67	36.368		
6,800.00	6,083.00	5,798.00	5,748.87	29.48	20.75	-71.31	-98.85	-563.89	1,591.02	1,549.10	41.92	37.956		
6,900.00	6,083.00	5,775.48	5,727.42	30.66	20.68	-70.19	-92.07	-564.98	1,668.85	1,626.87	41.99	39.745		
7,000.00	6,083.00	5,750.00	5,702.94	31.89	20.59	-68.93	-85.15	-566.20	1,749.06	1,707.03	42.03	41.610		
7,100.00	6,083.00	5,750.00	5,702.94	33.17	20.59	-68.93	-85.15	-566.20	1,830.74	1,788.49	42.25	43.328		
7,200.00	6,083.00	5,750.00	5,702.94	34.49	20.59	-68.93	-85.15	-566.20	1,914.15	1,871.70	42.45	45.088		
7,300.00	6,083.00	5,750.00	5,702.94	35.85	20.59	-68.93	-85.15	-566.20	1,999.09	1,956.45	42.64	46.884		
7,400.00	6,083.00	5,750.00	5,702.94	37.25	20.59	-68.93	-85.15	-566.20	2,085.36	2,042.55	42.81	48.712		
7,500.00	6,083.00	5,728.54	5,682.14	38.67	20.52	-67.89	-79.98	-567.23	2,172.40	2,129.55	42.85	50.703		
7,600.00	6,083.00	5,722.99	5,676.73	40.13	20.50	-67.62	-78.76	-567.50	2,260.65	2,217.68	42.97	52.613		
7,700.00	6,083.00	5,703.00	5,657.18	41.61	20.44	-66.65	-74.71	-568.49	2,349.99	2,306.99	43.00	54.649		
7,800.00	6,083.00	5,703.00	5,657.18	43.11	20.44	-66.65	-74.71	-568.49	2,439.82	2,396.69	43.14	56.558		
7,900.00	6,083.00	5,703.00	5,657.18	44.63	20.44	-66.65	-74.71	-568.49	2,530.42	2,487.15	43.27	58.484		
8,000.00	6,083.00	5,703.00	5,657.18	46.17	20.44	-66.65	-74.71	-568.49	2,621.70	2,578.32	43.39	60.427		
8,100.00	6,083.00	5,703.00	5,657.18	47.73	20.44	-66.65	-74.71	-568.49	2,713.60	2,670.10	43.50	62.382		
8,200.00	6,083.00	5,703.00	5,657.18	49.30	20.44	-66.65	-74.71	-568.49	2,806.05	2,762.44	43.61	64.350		
8,300.00	6,083.00	5,703.00	5,657.18	50.88	20.44	-66.65	-74.71	-568.49	2,899.00	2,855.29	43.71	66.328		
8,400.00	6,083.00	5,703.00	5,657.18	52.48	20.44	-66.65	-74.71	-568.49	2,992.41	2,948.60	43.80	68.315		
8,500.00	6,083.00	5,703.00	5,657.18	54.09	20.44	-66.65	-74.71	-568.49	3,086.22	3,042.33	43.89	70.311		
8,600.00	6,083.00	5,703.00	5,657.18	55.70	20.44	-66.65	-74.71	-568.49	3,180.42	3,136.44	43.98	72.312		
8,700.00	6,083.00	5,703.00	5,657.18	57.33	20.44	-66.65	-74.71	-568.49	3,274.96	3,230.89	44.07	74.320		
8,800.00	6,083.00	5,681.04	5,635.55	58.96	20.37	-65.60	-71.01	-569.48	3,369.34	3,325.29	44.06	76.476		
8,900.00	6,083.00	5,678.85	5,633.39	60.61	20.36	-65.50	-70.69	-569.56	3,464.39	3,420.26	44.13	78.507		
9,000.00	6,083.00	5,676.78	5,631.34	62.26	20.35	-65.40	-70.40	-569.65	3,559.70	3,515.50	44.20	80.540		
9,100.00	6,083.00	5,655.00	5,609.74	63.91	20.28	-64.37	-67.78	-570.39	3,655.63	3,611.45	44.19	82.732		
9,200.00	6,083.00	5,655.00	5,609.74	65.58	20.28	-64.37	-67.78	-570.39	3,751.34	3,707.08	44.26	84.754		
9,300.00	6,083.00	5,655.00	5,609.74	67.24	20.28	-64.37	-67.78	-570.39	3,847.27	3,802.93	44.33	86.778		
9,400.00	6,083.00	5,655.00	5,609.74	68.92	20.28	-64.37	-67.78	-570.39	3,943.40	3,898.99	44.41	88.804		
9,500.00	6,083.00	5,655.00	5,609.74	70.60	20.28	-64.37	-67.78	-570.39	4,039.72	3,995.24	44.48	90.830		
9,600.00	6,083.00	5,655.00	5,609.74	72.28	20.28	-64.37	-67.78	-570.39	4,136.21	4,091.66	44.54	92.857		
9,700.00	6,083.00	5,655.00	5,609.74	73.97	20.28	-64.37	-67.78	-570.39	4,232.86	4,188.25	44.61	94.884		
9,800.00	6,083.00	5,655.00	5,609.74	75.66	20.28	-64.37	-67.78	-570.39	4,329.67	4,284.99	44.68	96.910		
9,900.00	6,083.00	5,655.00	5,609.74	77.35	20.28	-64.37	-67.78	-570.39	4,426.62	4,381.87	44.74	98.935		
10,000.00	6,083.00	5,655.00	5,609.74	79.05	20.28	-64.37	-67.78	-570.39	4,523.70	4,478.89	44.81	100.960		
10,100.00	6,083.00	5,655.00	5,609.74	80.75	20.28	-64.37	-67.78	-570.39	4,620.90	4,576.03	44.87	102.982		
10,200.00	6,083.00	5,655.00	5,609.74	82.46	20.28	-64.37	-67.78	-570.39	4,718.23	4,673.29	44.93	105.003		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 500-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	
10,300.00	6,083.00	5,655.00	5,609.74	84.17	20.28	-64.37	-67.78	-570.39	4,815.66	4,770.66	45.00	107.022	
10,400.00	6,083.00	5,655.00	5,609.74	85.88	20.28	-64.37	-67.78	-570.39	4,913.19	4,868.13	45.06	109.039	
10,500.00	6,083.00	5,655.00	5,609.74	87.59	20.28	-64.37	-67.78	-570.39	5,010.83	4,965.70	45.12	111.053	
10,600.00	6,083.00	5,655.00	5,609.74	89.30	20.28	-64.37	-67.78	-570.39	5,108.55	5,063.37	45.18	113.064	
10,700.00	6,083.00	5,655.00	5,609.74	91.02	20.28	-64.37	-67.78	-570.39	5,206.36	5,161.12	45.24	115.071	
10,800.00	6,083.00	5,655.00	5,609.74	92.74	20.28	-64.37	-67.78	-570.39	5,304.25	5,258.95	45.31	117.076	
10,900.00	6,083.00	5,655.00	5,609.74	94.46	20.28	-64.37	-67.78	-570.39	5,402.22	5,356.86	45.37	119.077	
11,000.00	6,083.00	5,655.00	5,609.74	96.19	20.28	-64.37	-67.78	-570.39	5,500.27	5,454.84	45.43	121.075	
11,100.00	6,083.00	5,655.00	5,609.74	97.91	20.28	-64.37	-67.78	-570.39	5,598.38	5,552.89	45.49	123.068	
11,200.00	6,083.00	5,655.00	5,609.74	99.64	20.28	-64.37	-67.78	-570.39	5,696.55	5,651.00	45.55	125.058	
11,300.00	6,083.00	5,655.00	5,609.74	101.37	20.28	-64.37	-67.78	-570.39	5,794.79	5,749.18	45.61	127.043	
11,400.00	6,083.00	5,655.00	5,609.74	103.10	20.28	-64.37	-67.78	-570.39	5,893.09	5,847.42	45.67	129.025	
11,500.00	6,083.00	5,655.00	5,609.74	104.83	20.28	-64.37	-67.78	-570.39	5,991.45	5,945.71	45.74	131.001	
11,600.00	6,083.00	5,655.00	5,609.74	106.56	20.28	-64.37	-67.78	-570.39	6,089.86	6,044.06	45.80	132.973	
11,700.00	6,083.00	5,655.00	5,609.74	108.30	20.28	-64.37	-67.78	-570.39	6,188.32	6,142.46	45.86	134.940	
11,800.00	6,083.00	5,655.00	5,609.74	110.03	20.28	-64.37	-67.78	-570.39	6,286.83	6,240.90	45.92	136.902	
11,900.00	6,083.00	5,655.00	5,609.74	111.77	20.28	-64.37	-67.78	-570.39	6,385.38	6,339.40	45.98	138.860	
12,000.00	6,083.00	5,655.00	5,609.74	113.51	20.28	-64.37	-67.78	-570.39	6,483.98	6,437.93	46.05	140.812	
12,100.00	6,083.00	5,655.00	5,609.74	115.24	20.28	-64.37	-67.78	-570.39	6,582.62	6,536.51	46.11	142.758	
12,200.00	6,083.00	5,655.00	5,609.74	116.98	20.28	-64.37	-67.78	-570.39	6,681.30	6,635.13	46.17	144.700	
12,300.00	6,083.00	5,655.00	5,609.74	118.73	20.28	-64.37	-67.78	-570.39	6,780.02	6,733.79	46.24	146.636	
12,400.00	6,083.00	5,655.00	5,609.74	120.47	20.28	-64.37	-67.78	-570.39	6,878.78	6,832.48	46.30	148.566	
12,500.00	6,083.00	5,655.00	5,609.74	122.21	20.28	-64.37	-67.78	-570.39	6,977.57	6,931.21	46.37	150.491	
12,600.00	6,083.00	5,655.00	5,609.74	123.95	20.28	-64.37	-67.78	-570.39	7,076.40	7,029.97	46.43	152.410	
12,700.00	6,083.00	5,655.00	5,609.74	125.70	20.28	-64.37	-67.78	-570.39	7,175.26	7,128.76	46.50	154.323	
12,800.00	6,083.00	5,655.00	5,609.74	127.44	20.28	-64.37	-67.78	-570.39	7,274.15	7,227.59	46.56	156.230	
12,900.00	6,083.00	5,633.36	5,588.18	129.19	20.21	-63.35	-65.94	-570.99	7,372.72	7,326.16	46.56	158.343	
13,000.00	6,083.00	5,632.73	5,587.56	130.94	20.21	-63.33	-65.90	-571.00	7,471.65	7,425.02	46.63	160.246	
13,100.00	6,083.00	5,632.12	5,586.95	132.68	20.21	-63.30	-65.86	-571.02	7,570.61	7,523.91	46.69	162.142	
13,200.00	6,083.00	5,631.53	5,586.36	134.43	20.21	-63.27	-65.82	-571.03	7,669.59	7,622.83	46.76	164.032	
13,300.00	6,083.00	5,630.95	5,585.78	136.18	20.20	-63.24	-65.78	-571.05	7,768.60	7,721.77	46.82	165.916	
13,400.00	6,083.00	5,630.39	5,585.22	137.93	20.20	-63.22	-65.74	-571.06	7,867.63	7,820.74	46.89	167.793	
13,500.00	6,083.00	5,629.84	5,584.67	139.68	20.20	-63.19	-65.70	-571.07	7,966.69	7,919.73	46.96	169.664	
13,600.00	6,083.00	5,608.00	5,562.87	141.43	20.13	-62.18	-64.62	-571.55	8,066.10	8,019.14	46.96	171.765	
13,700.00	6,083.00	5,608.00	5,562.87	143.18	20.13	-62.18	-64.62	-571.55	8,165.19	8,118.16	47.03	173.618	
13,800.00	6,083.00	5,608.00	5,562.87	144.94	20.13	-62.18	-64.62	-571.55	8,264.30	8,217.20	47.10	175.464	
13,900.00	6,083.00	5,608.00	5,562.87	146.69	20.13	-62.18	-64.62	-571.55	8,363.42	8,316.25	47.17	177.304	
14,000.00	6,083.00	5,608.00	5,562.87	148.44	20.13	-62.18	-64.62	-571.55	8,462.57	8,415.33	47.24	179.137	
14,100.00	6,083.00	5,608.00	5,562.87	150.20	20.13	-62.18	-64.62	-571.55	8,561.74	8,514.43	47.31	180.964	
14,200.00	6,083.00	5,608.00	5,562.87	151.95	20.13	-62.18	-64.62	-571.55	8,660.93	8,613.55	47.38	182.784	
14,300.00	6,083.00	5,608.00	5,562.87	153.70	20.13	-62.18	-64.62	-571.55	8,760.14	8,712.68	47.46	184.597	
14,400.00	6,083.00	5,608.00	5,562.87	155.46	20.13	-62.18	-64.62	-571.55	8,859.36	8,811.83	47.53	186.403	
14,500.00	6,083.00	5,608.00	5,562.87	157.21	20.13	-62.18	-64.62	-571.55	8,958.60	8,911.00	47.60	188.202	
14,600.00	6,083.00	5,608.00	5,562.87	158.97	20.13	-62.18	-64.62	-571.55	9,057.86	9,010.18	47.67	189.994	
14,700.00	6,083.00	5,608.00	5,562.87	160.73	20.13	-62.18	-64.62	-571.55	9,157.13	9,109.38	47.75	191.780	
14,800.00	6,083.00	5,608.00	5,562.87	162.48	20.13	-62.18	-64.62	-571.55	9,256.42	9,208.60	47.82	193.558	
14,900.00	6,083.00	5,608.00	5,562.87	164.24	20.13	-62.18	-64.62	-571.55	9,355.73	9,307.83	47.90	195.329	
15,000.00	6,083.00	5,608.00	5,562.87	166.00	20.13	-62.18	-64.62	-571.55	9,455.05	9,407.07	47.97	197.094	
15,100.00	6,083.00	5,608.00	5,562.87	167.75	20.13	-62.18	-64.62	-571.55	9,554.38	9,506.33	48.05	198.851	
15,200.00	6,083.00	5,608.00	5,562.87	169.51	20.13	-62.18	-64.62	-571.55	9,653.73	9,605.60	48.12	200.601	
15,300.00	6,083.00	5,608.00	5,562.87	171.27	20.13	-62.18	-64.62	-571.55	9,753.09	9,704.89	48.20	202.344	
15,400.00	6,083.00	5,608.00	5,562.87	173.03	20.13	-62.18	-64.62	-571.55	9,852.46	9,804.18	48.28	204.080	

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>		SEC 5-T5N-R61W - EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL SURVEY										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		500-MWD OWSG										<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Distance</b>						<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
15,500.00	6,083.00	5,608.00	5,562.87	174.79	20.13	-62.18	-64.62	-571.55	9,951.85	9,903.49	48.35	205.808	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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		
0.00	0.00	16,045.00	6,103.52	0.00	176.36	-91.97	-157.52	-4,576.40	7,713.73					
100.00	100.00	16,045.00	6,103.52	0.27	176.36	-91.97	-157.52	-4,576.40	7,633.48	7,508.79	124.69	61.220		
200.00	200.00	16,045.00	6,103.52	0.63	176.36	-91.97	-157.52	-4,576.40	7,553.71	7,428.23	125.48	60.199		
300.00	299.98	16,045.00	6,103.52	0.98	176.36	-156.73	-157.52	-4,576.40	7,475.42	7,349.11	126.31	59.184		
400.00	399.84	16,045.00	6,103.52	1.34	176.36	-157.62	-157.52	-4,576.40	7,399.71	7,272.52	127.20	58.176		
500.00	499.55	16,045.00	6,103.52	1.71	176.36	-157.79	-157.52	-4,576.40	7,326.06	7,197.89	128.17	57.160		
600.00	599.25	16,045.00	6,103.52	2.08	176.36	-157.79	-157.52	-4,576.40	7,253.07	7,123.86	129.21	56.133		
700.00	698.96	16,045.00	6,103.52	2.45	176.36	-157.79	-157.52	-4,576.40	7,180.74	7,050.45	130.30	55.110		
800.00	798.67	16,045.00	6,103.52	2.83	176.36	-157.79	-157.52	-4,576.40	7,109.08	6,977.67	131.42	54.095		
900.00	898.37	16,045.00	6,103.52	3.21	176.36	-157.79	-157.52	-4,576.40	7,038.12	6,905.54	132.57	53.089		
1,000.00	998.08	16,045.00	6,103.52	3.58	176.36	-157.79	-157.52	-4,576.40	6,967.86	6,834.10	133.76	52.093		
1,100.00	1,097.78	16,045.00	6,103.52	3.96	176.36	-157.79	-157.52	-4,576.40	6,898.34	6,763.37	134.97	51.110		
1,200.00	1,197.49	16,045.00	6,103.52	4.34	176.36	-157.79	-157.52	-4,576.40	6,829.57	6,693.36	136.21	50.140		
1,300.00	1,297.19	16,045.00	6,103.52	4.72	176.36	-157.79	-157.52	-4,576.40	6,761.59	6,624.11	137.47	49.185		
1,400.00	1,396.90	16,045.00	6,103.52	5.10	176.36	-157.79	-157.52	-4,576.40	6,694.41	6,555.64	138.76	48.244		
1,500.00	1,496.60	16,045.00	6,103.52	5.47	176.36	-157.79	-157.52	-4,576.40	6,628.05	6,487.98	140.07	47.319		
1,600.00	1,596.31	16,045.00	6,103.52	5.85	176.36	-157.79	-157.52	-4,576.40	6,562.55	6,421.14	141.40	46.410		
1,700.00	1,696.02	16,045.00	6,103.52	6.23	176.36	-157.79	-157.52	-4,576.40	6,497.93	6,355.17	142.76	45.517		
1,800.00	1,795.72	16,045.00	6,103.52	6.61	176.36	-157.79	-157.52	-4,576.40	6,434.21	6,290.08	144.13	44.641		
1,900.00	1,895.43	16,045.00	6,103.52	6.99	176.36	-157.79	-157.52	-4,576.40	6,371.42	6,225.90	145.52	43.783		
2,000.00	1,995.13	16,045.00	6,103.52	7.37	176.36	-157.79	-157.52	-4,576.40	6,309.60	6,162.67	146.93	42.942		
2,100.00	2,094.84	16,045.00	6,103.52	7.75	176.36	-157.79	-157.52	-4,576.40	6,248.76	6,100.40	148.36	42.119		
2,200.00	2,194.54	16,045.00	6,103.52	8.13	176.36	-157.79	-157.52	-4,576.40	6,188.94	6,039.14	149.80	41.314		
2,300.00	2,294.25	16,045.00	6,103.52	8.51	176.36	-157.79	-157.52	-4,576.40	6,130.17	5,978.91	151.26	40.527		
2,400.00	2,393.95	16,045.00	6,103.52	8.89	176.36	-157.79	-157.52	-4,576.40	6,072.48	5,919.75	152.73	39.759		
2,500.00	2,493.66	16,045.00	6,103.52	9.26	176.36	-157.79	-157.52	-4,576.40	6,015.90	5,861.68	154.21	39.010		
2,600.00	2,593.37	16,045.00	6,103.52	9.64	176.36	-157.79	-157.52	-4,576.40	5,960.45	5,804.75	155.71	38.280		
2,700.00	2,693.07	16,045.00	6,103.52	10.02	176.36	-157.79	-157.52	-4,576.40	5,906.18	5,748.97	157.21	37.568		
2,800.00	2,792.78	16,045.00	6,103.52	10.40	176.36	-157.79	-157.52	-4,576.40	5,853.12	5,694.40	158.72	36.876		
2,900.00	2,892.48	16,045.00	6,103.52	10.78	176.36	-157.79	-157.52	-4,576.40	5,801.29	5,641.05	160.24	36.203		
3,000.00	2,992.19	16,045.00	6,103.52	11.16	176.36	-157.79	-157.52	-4,576.40	5,750.74	5,588.97	161.76	35.550		
3,100.00	3,091.89	16,045.00	6,103.52	11.54	176.36	-157.79	-157.52	-4,576.40	5,701.49	5,538.20	163.29	34.917		
3,200.00	3,191.60	16,045.00	6,103.52	11.92	176.36	-157.79	-157.52	-4,576.40	5,653.58	5,488.77	164.81	34.303		
3,300.00	3,291.31	16,045.00	6,103.52	12.30	176.36	-157.79	-157.52	-4,576.40	5,607.05	5,440.71	166.34	33.708		
3,400.00	3,391.01	16,045.00	6,103.52	12.68	176.36	-157.79	-157.52	-4,576.40	5,561.92	5,394.06	167.86	33.134		
3,500.00	3,490.72	16,045.00	6,103.52	13.06	176.36	-157.79	-157.52	-4,576.40	5,518.24	5,348.86	169.38	32.580		
3,600.00	3,590.42	16,045.00	6,103.52	13.44	176.36	-157.79	-157.52	-4,576.40	5,476.04	5,305.15	170.88	32.046		
3,700.00	3,690.13	16,045.00	6,103.52	13.82	176.36	-157.79	-157.52	-4,576.40	5,435.34	5,262.97	172.38	31.531		
3,800.00	3,789.83	16,045.00	6,103.52	14.19	176.36	-157.79	-157.52	-4,576.40	5,396.20	5,222.34	173.86	31.037		
3,900.00	3,889.54	16,045.00	6,103.52	14.57	176.36	-157.79	-157.52	-4,576.40	5,358.63	5,183.31	175.33	30.563		
4,000.00	3,989.24	16,045.00	6,103.52	14.95	176.36	-157.79	-157.52	-4,576.40	5,322.68	5,145.91	176.78	30.110		
4,100.00	4,088.95	16,045.00	6,103.52	15.33	176.36	-157.79	-157.52	-4,576.40	5,288.38	5,110.17	178.20	29.676		
4,200.00	4,188.66	16,045.00	6,103.52	15.71	176.36	-157.79	-157.52	-4,576.40	5,255.75	5,076.15	179.61	29.263		
4,300.00	4,288.36	16,045.00	6,103.52	16.09	176.36	-157.79	-157.52	-4,576.40	5,224.84	5,043.86	180.98	28.869		
4,400.00	4,388.07	16,045.00	6,103.52	16.47	176.36	-157.79	-157.52	-4,576.40	5,195.66	5,013.34	182.33	28.496		
4,500.00	4,487.77	16,045.00	6,103.52	16.85	176.36	-157.79	-157.52	-4,576.40	5,168.26	4,984.62	183.64	28.143		
4,600.00	4,587.48	16,045.00	6,103.52	17.23	176.36	-157.79	-157.52	-4,576.40	5,142.66	4,957.74	184.92	27.811		
4,700.00	4,687.18	16,045.00	6,103.52	17.61	176.36	-157.79	-157.52	-4,576.40	5,118.88	4,932.72	186.16	27.498		
4,800.00	4,786.89	16,045.00	6,103.52	17.99	176.36	-157.79	-157.52	-4,576.40	5,096.95	4,909.60	187.35	27.205		
4,900.00	4,886.59	16,045.00	6,103.52	18.37	176.36	-157.79	-157.52	-4,576.40	5,076.90	4,888.39	188.51	26.932		
5,000.00	4,986.30	16,045.00	6,103.52	18.75	176.36	-157.79	-157.52	-4,576.40	5,058.75	4,869.13	189.61	26.679		
5,100.00	5,086.01	16,045.00	6,103.52	19.13	176.36	-157.79	-157.52	-4,576.40	5,042.51	4,851.84	190.67	26.446		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL SURVEY													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		
5,200.00	5,185.71	16,045.00	6,103.52	19.51	176.36	-157.79	-157.52	-4,576.40	5,028.21	4,836.53	191.68	26.233		
5,300.00	5,285.42	16,045.00	6,103.52	19.89	176.36	-157.79	-157.52	-4,576.40	5,015.86	4,823.24	192.63	26.039		
5,400.00	5,385.12	16,045.00	6,103.52	20.26	176.36	-157.79	-157.52	-4,576.40	5,005.49	4,811.96	193.53	25.865		
5,500.00	5,484.83	16,045.00	6,103.52	20.64	176.36	-157.79	-157.52	-4,576.40	4,997.09	4,802.72	194.36	25.710		
5,600.00	5,584.37	16,045.00	6,103.52	21.03	176.36	-122.82	-157.52	-4,576.40	4,990.87	4,795.72	195.14	25.575		
5,700.00	5,681.71	16,045.00	6,103.52	21.43	176.36	-107.79	-157.52	-4,576.40	4,987.87	4,792.02	195.85	25.468		
5,737.04	5,716.60	16,045.00	6,103.52	21.58	176.36	-105.66	-157.52	-4,576.40	4,987.63	4,791.54	196.09	25.435	CC, ES	
5,800.00	5,773.87	16,045.00	6,103.52	21.85	176.36	-103.26	-157.52	-4,576.40	4,988.32	4,791.84	196.47	25.390		
5,900.00	5,858.06	16,045.00	6,103.52	22.29	176.36	-100.82	-157.52	-4,576.40	4,992.20	4,795.19	197.01	25.340		
6,000.00	5,931.71	16,045.00	6,103.52	22.78	176.36	-98.98	-157.52	-4,576.40	4,999.39	4,801.92	197.47	25.318	SF	
6,100.00	5,992.59	16,045.00	6,103.52	23.33	176.36	-97.27	-157.52	-4,576.40	5,009.66	4,811.80	197.86	25.320		
6,200.00	6,038.86	16,045.00	6,103.52	23.96	176.36	-95.55	-157.52	-4,576.40	5,022.67	4,824.48	198.19	25.343		
6,300.00	6,069.09	16,045.00	6,103.52	24.69	176.36	-93.77	-157.52	-4,576.40	5,038.02	4,839.55	198.47	25.385		
6,400.00	6,082.38	16,045.00	6,103.52	25.49	176.36	-91.93	-157.52	-4,576.40	5,055.21	4,856.51	198.70	25.441		
6,500.00	6,083.00	16,045.00	6,103.52	26.37	176.36	-91.43	-157.52	-4,576.40	5,073.95	4,875.05	198.90	25.510		
6,600.00	6,083.00	16,045.00	6,103.52	27.33	176.36	-91.43	-157.52	-4,576.40	5,094.56	4,895.44	199.11	25.586		
6,700.00	6,083.00	16,045.00	6,103.52	28.37	176.36	-91.43	-157.52	-4,576.40	5,117.04	4,917.71	199.33	25.672		
6,800.00	6,083.00	16,045.00	6,103.52	29.48	176.36	-91.43	-157.52	-4,576.40	5,141.37	4,941.84	199.53	25.767		
6,900.00	6,083.00	16,045.00	6,103.52	30.66	176.36	-91.43	-157.52	-4,576.40	5,167.52	4,967.79	199.72	25.873		
7,000.00	6,083.00	16,045.00	6,103.52	31.89	176.36	-91.43	-157.52	-4,576.40	5,195.46	4,995.56	199.90	25.991		
7,100.00	6,083.00	16,045.00	6,103.52	33.17	176.36	-91.43	-157.52	-4,576.40	5,225.16	5,025.11	200.05	26.119		
7,200.00	6,083.00	16,045.00	6,103.52	34.49	176.36	-91.43	-157.52	-4,576.40	5,256.60	5,056.43	200.18	26.260		
7,300.00	6,083.00	16,045.00	6,103.52	35.85	176.36	-91.43	-157.52	-4,576.40	5,289.75	5,089.48	200.27	26.413		
7,400.00	6,083.00	16,045.00	6,103.52	37.25	176.36	-91.43	-157.52	-4,576.40	5,324.57	5,124.23	200.34	26.578		
7,500.00	6,083.00	16,045.00	6,103.52	38.67	176.36	-91.43	-157.52	-4,576.40	5,361.02	5,160.65	200.37	26.756		
7,600.00	6,083.00	16,045.00	6,103.52	40.13	176.36	-91.43	-157.52	-4,576.40	5,399.09	5,198.72	200.37	26.946		
7,700.00	6,083.00	16,045.00	6,103.52	41.61	176.36	-91.43	-157.52	-4,576.40	5,438.72	5,238.39	200.33	27.148		
7,800.00	6,083.00	16,045.00	6,103.52	43.11	176.36	-91.43	-157.52	-4,576.40	5,479.89	5,279.63	200.26	27.363		
7,900.00	6,083.00	16,045.00	6,103.52	44.63	176.36	-91.43	-157.52	-4,576.40	5,522.57	5,322.41	200.16	27.591		
8,000.00	6,083.00	16,045.00	6,103.52	46.17	176.36	-91.43	-157.52	-4,576.40	5,566.72	5,366.70	200.02	27.830		
8,100.00	6,083.00	16,045.00	6,103.52	47.73	176.36	-91.43	-157.52	-4,576.40	5,612.30	5,412.45	199.85	28.082		
8,200.00	6,083.00	16,045.00	6,103.52	49.30	176.36	-91.43	-157.52	-4,576.40	5,659.28	5,459.64	199.65	28.346		
8,300.00	6,083.00	16,045.00	6,103.52	50.88	176.36	-91.43	-157.52	-4,576.40	5,707.63	5,508.22	199.41	28.622		
8,400.00	6,083.00	16,045.00	6,103.52	52.48	176.36	-91.43	-157.52	-4,576.40	5,757.31	5,558.16	199.15	28.910		
8,500.00	6,083.00	16,045.00	6,103.52	54.09	176.36	-91.43	-157.52	-4,576.40	5,808.28	5,609.43	198.85	29.209		
8,600.00	6,083.00	16,045.00	6,103.52	55.70	176.36	-91.43	-157.52	-4,576.40	5,860.52	5,661.99	198.53	29.520		
8,700.00	6,083.00	16,045.00	6,103.52	57.33	176.36	-91.43	-157.52	-4,576.40	5,913.99	5,715.81	198.18	29.842		
8,800.00	6,083.00	16,045.00	6,103.52	58.96	176.36	-91.43	-157.52	-4,576.40	5,968.66	5,770.85	197.81	30.174		
8,900.00	6,083.00	16,045.00	6,103.52	60.61	176.36	-91.43	-157.52	-4,576.40	6,024.48	5,827.08	197.41	30.518		
9,000.00	6,083.00	16,045.00	6,103.52	62.26	176.36	-91.43	-157.52	-4,576.40	6,081.44	5,884.46	196.99	30.872		
9,100.00	6,083.00	16,045.00	6,103.52	63.91	176.36	-91.43	-157.52	-4,576.40	6,139.50	5,942.96	196.55	31.237		
9,200.00	6,083.00	16,045.00	6,103.52	65.58	176.36	-91.43	-157.52	-4,576.40	6,198.64	6,002.55	196.09	31.611		
9,300.00	6,083.00	16,045.00	6,103.52	67.24	176.36	-91.43	-157.52	-4,576.40	6,258.81	6,063.19	195.61	31.996		
9,400.00	6,083.00	16,045.00	6,103.52	68.92	176.36	-91.43	-157.52	-4,576.40	6,319.98	6,124.87	195.12	32.391		
9,500.00	6,083.00	16,045.00	6,103.52	70.60	176.36	-91.43	-157.52	-4,576.40	6,382.14	6,187.54	194.61	32.795		
9,600.00	6,083.00	16,045.00	6,103.52	72.28	176.36	-91.43	-157.52	-4,576.40	6,445.26	6,251.17	194.09	33.208		
9,700.00	6,083.00	16,045.00	6,103.52	73.97	176.36	-91.43	-157.52	-4,576.40	6,509.29	6,315.74	193.55	33.631		
9,800.00	6,083.00	16,045.00	6,103.52	75.66	176.36	-91.43	-157.52	-4,576.40	6,574.23	6,381.22	193.00	34.063		
9,900.00	6,083.00	16,045.00	6,103.52	77.35	176.36	-91.43	-157.52	-4,576.40	6,640.03	6,447.58	192.45	34.503		
10,000.00	6,083.00	16,045.00	6,103.52	79.05	176.36	-91.43	-157.52	-4,576.40	6,706.68	6,514.80	191.88	34.953		
10,100.00	6,083.00	16,045.00	6,103.52	80.75	176.36	-91.43	-157.52	-4,576.40	6,774.15	6,582.85	191.30	35.410		
10,200.00	6,083.00	16,045.00	6,103.52	82.46	176.36	-91.43	-157.52	-4,576.40	6,842.42	6,651.70	190.72	35.876		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL SURVEY													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		
10,300.00	6,083.00	16,045.00	6,103.52	84.17	176.36	-91.43	-157.52	-4,576.40	6,911.46	6,721.32	190.13	36.351		
10,400.00	6,083.00	16,045.00	6,103.52	85.88	176.36	-91.43	-157.52	-4,576.40	6,981.25	6,791.71	189.54	36.833		
10,500.00	6,083.00	16,045.00	6,103.52	87.59	176.36	-91.43	-157.52	-4,576.40	7,051.76	6,862.82	188.94	37.322		
10,600.00	6,083.00	16,045.00	6,103.52	89.30	176.36	-91.43	-157.52	-4,576.40	7,122.98	6,934.65	188.34	37.820		
10,700.00	6,083.00	16,045.00	6,103.52	91.02	176.36	-91.43	-157.52	-4,576.40	7,194.89	7,007.16	187.73	38.325		
10,800.00	6,083.00	16,045.00	6,103.52	92.74	176.36	-91.43	-157.52	-4,576.40	7,267.46	7,080.34	187.13	38.837		
10,900.00	6,083.00	16,045.00	6,103.52	94.46	176.36	-91.43	-157.52	-4,576.40	7,340.68	7,154.16	186.52	39.356		
11,000.00	6,083.00	16,045.00	6,103.52	96.19	176.36	-91.43	-157.52	-4,576.40	7,414.52	7,228.61	185.91	39.883		
11,100.00	6,083.00	16,045.00	6,103.52	97.91	176.36	-91.43	-157.52	-4,576.40	7,488.97	7,303.67	185.30	40.416		
11,200.00	6,083.00	16,045.00	6,103.52	99.64	176.36	-91.43	-157.52	-4,576.40	7,564.01	7,379.32	184.69	40.955		
11,300.00	6,083.00	16,045.00	6,103.52	101.37	176.36	-91.43	-157.52	-4,576.40	7,639.62	7,455.54	184.08	41.502		
11,400.00	6,083.00	16,045.00	6,103.52	103.10	176.36	-91.43	-157.52	-4,576.40	7,715.79	7,532.32	183.47	42.055		
11,500.00	6,083.00	16,045.00	6,103.52	104.83	176.36	-91.43	-157.52	-4,576.40	7,792.49	7,609.63	182.86	42.614		
11,600.00	6,083.00	16,045.00	6,103.52	106.56	176.36	-91.43	-157.52	-4,576.40	7,869.72	7,687.46	182.26	43.179		
11,700.00	6,083.00	16,045.00	6,103.52	108.30	176.36	-91.43	-157.52	-4,576.40	7,947.46	7,765.80	181.66	43.750		
11,800.00	6,083.00	16,045.00	6,103.52	110.03	176.36	-91.43	-157.52	-4,576.40	8,025.69	7,844.63	181.06	44.327		
11,900.00	6,083.00	16,045.00	6,103.52	111.77	176.36	-91.43	-157.52	-4,576.40	8,104.39	7,923.93	180.46	44.909		
12,000.00	6,083.00	16,045.00	6,103.52	113.51	176.36	-91.43	-157.52	-4,576.40	8,183.57	8,003.70	179.87	45.498		
12,100.00	6,083.00	16,045.00	6,103.52	115.24	176.36	-91.43	-157.52	-4,576.40	8,263.19	8,083.91	179.28	46.092		
12,200.00	6,083.00	16,045.00	6,103.52	116.98	176.36	-91.43	-157.52	-4,576.40	8,343.25	8,164.56	178.69	46.691		
12,300.00	6,083.00	16,045.00	6,103.52	118.73	176.36	-91.43	-157.52	-4,576.40	8,423.74	8,245.63	178.11	47.295		
12,400.00	6,083.00	16,045.00	6,103.52	120.47	176.36	-91.43	-157.52	-4,576.40	8,504.64	8,327.11	177.53	47.905		
12,500.00	6,083.00	16,045.00	6,103.52	122.21	176.36	-91.43	-157.52	-4,576.40	8,585.95	8,408.99	176.96	48.519		
12,600.00	6,083.00	16,045.00	6,103.52	123.95	176.36	-91.43	-157.52	-4,576.40	8,667.65	8,491.26	176.39	49.139		
12,700.00	6,083.00	16,045.00	6,103.52	125.70	176.36	-91.43	-157.52	-4,576.40	8,749.72	8,573.90	175.83	49.763		
12,800.00	6,083.00	16,045.00	6,103.52	127.44	176.36	-91.43	-157.52	-4,576.40	8,832.17	8,656.90	175.27	50.392		
12,900.00	6,083.00	16,045.00	6,103.52	129.19	176.36	-91.43	-157.52	-4,576.40	8,914.98	8,740.26	174.71	51.026		
13,000.00	6,083.00	16,045.00	6,103.52	130.94	176.36	-91.43	-157.52	-4,576.40	8,998.13	8,823.96	174.17	51.664		
13,100.00	6,083.00	16,045.00	6,103.52	132.68	176.36	-91.43	-157.52	-4,576.40	9,081.62	8,908.00	173.62	52.307		
13,200.00	6,083.00	16,045.00	6,103.52	134.43	176.36	-91.43	-157.52	-4,576.40	9,165.45	8,992.37	173.08	52.954		
13,300.00	6,083.00	16,045.00	6,103.52	136.18	176.36	-91.43	-157.52	-4,576.40	9,249.60	9,077.05	172.55	53.605		
13,400.00	6,083.00	16,045.00	6,103.52	137.93	176.36	-91.43	-157.52	-4,576.40	9,334.05	9,162.03	172.02	54.260		
13,500.00	6,083.00	16,045.00	6,103.52	139.68	176.36	-91.43	-157.52	-4,576.40	9,418.82	9,247.32	171.50	54.920		
13,600.00	6,083.00	16,045.00	6,103.52	141.43	176.36	-91.43	-157.52	-4,576.40	9,503.88	9,332.89	170.99	55.583		
13,700.00	6,083.00	16,045.00	6,103.52	143.18	176.36	-91.43	-157.52	-4,576.40	9,589.23	9,418.75	170.47	56.250		
13,800.00	6,083.00	16,045.00	6,103.52	144.94	176.36	-91.43	-157.52	-4,576.40	9,674.85	9,504.89	169.97	56.921		
13,900.00	6,083.00	16,045.00	6,103.52	146.69	176.36	-91.43	-157.52	-4,576.40	9,760.76	9,591.29	169.47	57.596		
14,000.00	6,083.00	16,045.00	6,103.52	148.44	176.36	-91.43	-157.52	-4,576.40	9,846.93	9,677.95	168.98	58.274		
14,100.00	6,083.00	16,045.00	6,103.52	150.20	176.36	-91.43	-157.52	-4,576.40	9,933.35	9,764.86	168.49	58.956		
14,200.00	6,083.00	16,045.00	6,103.52	151.95	176.36	-91.43	-157.52	-4,576.40	10,020.03	9,852.03	168.01	59.641		
14,300.00	6,083.00	16,045.00	6,103.52	153.70	176.36	-91.43	-157.52	-4,576.40	10,106.96	9,939.43	167.53	60.330		



Civitas Resources  
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-06
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4684.00usft
Reference Site:	SEC 5-T5N-R61W	MD Reference:	KB 25' @ 4684.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 755-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	10,650.00	6,204.92	0.00	83.48	-35.02	6,049.20	-4,238.38	9,649.86					
100.00	100.00	10,650.00	6,204.92	0.27	83.48	-35.02	6,049.20	-4,238.38	9,585.82	9,540.02	45.80	209.295		
200.00	200.00	10,650.00	6,204.92	0.63	83.48	-35.02	6,049.20	-4,238.38	9,522.39	9,476.45	45.94	207.266		
300.00	299.98	10,650.00	6,204.92	0.98	83.48	-100.34	6,049.20	-4,238.38	9,459.81	9,413.67	46.14	205.020		
400.00	399.84	10,650.00	6,204.92	1.34	83.48	-101.87	6,049.20	-4,238.38	9,398.38	9,351.98	46.40	202.550		
500.00	499.55	10,650.00	6,204.92	1.71	83.48	-102.16	6,049.20	-4,238.38	9,337.99	9,291.27	46.72	199.876		
600.00	599.25	10,650.00	6,204.92	2.08	83.48	-102.16	6,049.20	-4,238.38	9,278.30	9,231.22	47.08	197.085		
700.00	698.96	10,650.00	6,204.92	2.45	83.48	-102.16	6,049.20	-4,238.38	9,219.31	9,171.84	47.46	194.246		
800.00	798.67	10,650.00	6,204.92	2.83	83.48	-102.16	6,049.20	-4,238.38	9,161.02	9,113.16	47.87	191.386		
900.00	898.37	10,650.00	6,204.92	3.21	83.48	-102.16	6,049.20	-4,238.38	9,103.47	9,055.18	48.29	188.526		
1,000.00	998.08	10,650.00	6,204.92	3.58	83.48	-102.16	6,049.20	-4,238.38	9,046.65	8,997.93	48.72	185.679		
1,100.00	1,097.78	10,650.00	6,204.92	3.96	83.48	-102.16	6,049.20	-4,238.38	8,990.59	8,941.42	49.17	182.856		
1,200.00	1,197.49	10,650.00	6,204.92	4.34	83.48	-102.16	6,049.20	-4,238.38	8,935.29	8,885.67	49.62	180.063		
1,300.00	1,297.19	10,650.00	6,204.92	4.72	83.48	-102.16	6,049.20	-4,238.38	8,880.77	8,830.69	50.09	177.305		
1,400.00	1,396.90	10,650.00	6,204.92	5.10	83.48	-102.16	6,049.20	-4,238.38	8,827.05	8,776.49	50.56	174.587		
1,500.00	1,496.60	10,650.00	6,204.92	5.47	83.48	-102.16	6,049.20	-4,238.38	8,774.15	8,723.11	51.04	171.910		
1,600.00	1,596.31	10,650.00	6,204.92	5.85	83.48	-102.16	6,049.20	-4,238.38	8,722.06	8,670.54	51.53	169.278		
1,700.00	1,696.02	10,650.00	6,204.92	6.23	83.48	-102.16	6,049.20	-4,238.38	8,670.82	8,618.80	52.02	166.692		
1,800.00	1,795.72	10,650.00	6,204.92	6.61	83.48	-102.16	6,049.20	-4,238.38	8,620.44	8,567.92	52.51	164.153		
1,900.00	1,895.43	10,650.00	6,204.92	6.99	83.48	-102.16	6,049.20	-4,238.38	8,570.92	8,517.90	53.02	161.661		
2,000.00	1,995.13	10,650.00	6,204.92	7.37	83.48	-102.16	6,049.20	-4,238.38	8,522.29	8,468.76	53.53	159.218		
2,100.00	2,094.84	10,650.00	6,204.92	7.75	83.48	-102.16	6,049.20	-4,238.38	8,474.56	8,420.52	54.04	156.825		
2,200.00	2,194.54	10,650.00	6,204.92	8.13	83.48	-102.16	6,049.20	-4,238.38	8,427.75	8,373.19	54.56	154.480		
2,300.00	2,294.25	10,650.00	6,204.92	8.51	83.48	-102.16	6,049.20	-4,238.38	8,381.87	8,326.79	55.08	152.185		
2,400.00	2,393.95	10,650.00	6,204.92	8.89	83.48	-102.16	6,049.20	-4,238.38	8,336.93	8,281.33	55.60	149.940		
2,500.00	2,493.66	10,650.00	6,204.92	9.26	83.48	-102.16	6,049.20	-4,238.38	8,292.96	8,236.83	56.13	147.745		
2,600.00	2,593.37	10,650.00	6,204.92	9.64	83.48	-102.16	6,049.20	-4,238.38	8,249.97	8,193.30	56.66	145.599		
2,700.00	2,693.07	10,650.00	6,204.92	10.02	83.48	-102.16	6,049.20	-4,238.38	8,207.96	8,150.77	57.20	143.503		
2,800.00	2,792.78	10,650.00	6,204.92	10.40	83.48	-102.16	6,049.20	-4,238.38	8,166.97	8,109.24	57.73	141.457		
2,900.00	2,892.48	10,650.00	6,204.92	10.78	83.48	-102.16	6,049.20	-4,238.38	8,127.00	8,068.73	58.27	139.460		
3,000.00	2,992.19	10,650.00	6,204.92	11.16	83.48	-102.16	6,049.20	-4,238.38	8,088.07	8,029.26	58.82	137.513		
3,100.00	3,091.89	10,650.00	6,204.92	11.54	83.48	-102.16	6,049.20	-4,238.38	8,050.20	7,990.84	59.36	135.614		
3,200.00	3,191.60	10,650.00	6,204.92	11.92	83.48	-102.16	6,049.20	-4,238.38	8,013.39	7,953.49	59.91	133.765		
3,300.00	3,291.31	10,650.00	6,204.92	12.30	83.48	-102.16	6,049.20	-4,238.38	7,977.67	7,917.22	60.45	131.964		
3,400.00	3,391.01	10,650.00	6,204.92	12.68	83.48	-102.16	6,049.20	-4,238.38	7,943.04	7,882.04	61.00	130.211		
3,500.00	3,490.72	10,650.00	6,204.92	13.06	83.48	-102.16	6,049.20	-4,238.38	7,909.53	7,847.98	61.55	128.506		
3,600.00	3,590.42	10,650.00	6,204.92	13.44	83.48	-102.16	6,049.20	-4,238.38	7,877.15	7,815.05	62.10	126.849		
3,700.00	3,690.13	10,650.00	6,204.92	13.82	83.48	-102.16	6,049.20	-4,238.38	7,845.90	7,783.26	62.65	125.239		
3,800.00	3,789.83	10,650.00	6,204.92	14.19	83.48	-102.16	6,049.20	-4,238.38	7,815.82	7,752.62	63.20	123.676		
3,900.00	3,889.54	10,650.00	6,204.92	14.57	83.48	-102.16	6,049.20	-4,238.38	7,786.89	7,723.15	63.74	122.160		
4,000.00	3,989.24	10,650.00	6,204.92	14.95	83.48	-102.16	6,049.20	-4,238.38	7,759.15	7,694.86	64.29	120.690		
4,100.00	4,088.95	10,650.00	6,204.92	15.33	83.48	-102.16	6,049.20	-4,238.38	7,732.61	7,667.77	64.84	119.266		
4,200.00	4,188.66	10,650.00	6,204.92	15.71	83.48	-102.16	6,049.20	-4,238.38	7,707.27	7,641.89	65.38	117.887		
4,300.00	4,288.36	10,650.00	6,204.92	16.09	83.48	-102.16	6,049.20	-4,238.38	7,683.15	7,617.23	65.92	116.553		
4,400.00	4,388.07	10,650.00	6,204.92	16.47	83.48	-102.16	6,049.20	-4,238.38	7,660.25	7,593.80	66.46	115.263		
4,500.00	4,487.77	10,650.00	6,204.92	16.85	83.48	-102.16	6,049.20	-4,238.38	7,638.60	7,571.61	66.99	114.018		
4,600.00	4,587.48	10,650.00	6,204.92	17.23	83.48	-102.16	6,049.20	-4,238.38	7,618.20	7,550.67	67.53	112.816		
4,700.00	4,687.18	10,650.00	6,204.92	17.61	83.48	-102.16	6,049.20	-4,238.38	7,599.06	7,531.01	68.06	111.658		
4,800.00	4,786.89	10,650.00	6,204.92	17.99	83.48	-102.16	6,049.20	-4,238.38	7,581.19	7,512.61	68.58	110.542		
4,900.00	4,886.59	10,650.00	6,204.92	18.37	83.48	-102.16	6,049.20	-4,238.38	7,564.61	7,495.50	69.10	109.468		
5,000.00	4,986.30	10,650.00	6,204.92	18.75	83.48	-102.16	6,049.20	-4,238.38	7,549.31	7,479.69	69.62	108.437		
5,100.00	5,086.01	10,650.00	6,204.92	19.13	83.48	-102.16	6,049.20	-4,238.38	7,535.30	7,465.17	70.13	107.446		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 755-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		
5,200.00	5,185.71	10,650.00	6,204.92	19.51	83.48	-102.16	6,049.20	-4,238.38	7,522.60	7,451.96	70.64	106.496		
5,300.00	5,285.42	10,650.00	6,204.92	19.89	83.48	-102.16	6,049.20	-4,238.38	7,511.21	7,440.07	71.14	105.587		
5,400.00	5,385.12	10,650.00	6,204.92	20.26	83.48	-102.16	6,049.20	-4,238.38	7,501.14	7,429.50	71.63	104.717		
5,500.00	5,484.83	10,650.00	6,204.92	20.64	83.48	-102.16	6,049.20	-4,238.38	7,492.38	7,420.26	72.12	103.887		
5,600.00	5,584.37	10,650.00	6,204.92	21.03	83.48	-67.25	6,049.20	-4,238.38	7,482.99	7,410.37	72.62	103.042		
5,700.00	5,681.71	10,650.00	6,204.92	21.43	83.48	-53.23	6,049.20	-4,238.38	7,462.95	7,389.73	73.22	101.924		
5,800.00	5,773.87	10,650.00	6,204.92	21.85	83.48	-50.95	6,049.20	-4,238.38	7,431.31	7,357.39	73.92	100.532		
5,900.00	5,858.06	10,650.00	6,204.92	22.29	83.48	-52.16	6,049.20	-4,238.38	7,388.90	7,314.19	74.71	98.901		
6,000.00	5,931.71	10,650.00	6,204.92	22.78	83.48	-55.57	6,049.20	-4,238.38	7,336.83	7,261.25	75.58	97.067		
6,100.00	5,992.59	10,650.00	6,204.92	23.33	83.48	-60.97	6,049.20	-4,238.38	7,276.49	7,199.95	76.54	95.072		
6,200.00	6,038.86	10,650.00	6,204.92	23.96	83.48	-68.38	6,049.20	-4,238.38	7,209.54	7,131.98	77.56	92.956		
6,300.00	6,069.09	10,650.00	6,204.92	24.69	83.48	-77.74	6,049.20	-4,238.38	7,137.85	7,059.21	78.64	90.766		
6,400.00	6,082.38	10,650.00	6,204.92	25.49	83.48	-88.55	6,049.20	-4,238.38	7,063.48	6,983.72	79.77	88.551		
6,500.00	6,083.00	10,650.00	6,204.92	26.37	83.48	-91.56	6,049.20	-4,238.38	6,988.64	6,907.71	80.93	86.350		
6,600.00	6,083.00	10,650.00	6,204.92	27.33	83.48	-91.56	6,049.20	-4,238.38	6,914.42	6,832.25	82.17	84.152		
6,700.00	6,083.00	10,650.00	6,204.92	28.37	83.48	-91.56	6,049.20	-4,238.38	6,840.84	6,757.38	83.46	81.963		
6,800.00	6,083.00	10,650.00	6,204.92	29.48	83.48	-91.56	6,049.20	-4,238.38	6,767.95	6,683.12	84.82	79.788		
6,900.00	6,083.00	10,650.00	6,204.92	30.66	83.48	-91.56	6,049.20	-4,238.38	6,695.75	6,609.51	86.25	77.633		
7,000.00	6,083.00	10,650.00	6,204.92	31.89	83.48	-91.56	6,049.20	-4,238.38	6,624.28	6,536.55	87.74	75.502		
7,100.00	6,083.00	10,650.00	6,204.92	33.17	83.48	-91.56	6,049.20	-4,238.38	6,553.56	6,464.27	89.29	73.400		
7,200.00	6,083.00	10,650.00	6,204.92	34.49	83.48	-91.56	6,049.20	-4,238.38	6,483.60	6,392.71	90.89	71.331		
7,300.00	6,083.00	10,650.00	6,204.92	35.85	83.48	-91.56	6,049.20	-4,238.38	6,414.44	6,321.88	92.56	69.299		
7,400.00	6,083.00	10,650.00	6,204.92	37.25	83.48	-91.56	6,049.20	-4,238.38	6,346.11	6,251.82	94.29	67.306		
7,500.00	6,083.00	10,650.00	6,204.92	38.67	83.48	-91.56	6,049.20	-4,238.38	6,278.62	6,182.55	96.07	65.355		
7,600.00	6,083.00	10,650.00	6,204.92	40.13	83.48	-91.56	6,049.20	-4,238.38	6,212.01	6,114.10	97.91	63.448		
7,700.00	6,083.00	10,650.00	6,204.92	41.61	83.48	-91.56	6,049.20	-4,238.38	6,146.31	6,046.51	99.80	61.588		
7,800.00	6,083.00	10,650.00	6,204.92	43.11	83.48	-91.56	6,049.20	-4,238.38	6,081.53	5,979.80	101.74	59.775		
7,900.00	6,083.00	10,650.00	6,204.92	44.63	83.48	-91.56	6,049.20	-4,238.38	6,017.73	5,914.00	103.73	58.012		
8,000.00	6,083.00	10,650.00	6,204.92	46.17	83.48	-91.56	6,049.20	-4,238.38	5,954.92	5,849.14	105.77	56.298		
8,100.00	6,083.00	10,650.00	6,204.92	47.73	83.48	-91.56	6,049.20	-4,238.38	5,893.14	5,785.27	107.86	54.635		
8,200.00	6,083.00	10,650.00	6,204.92	49.30	83.48	-91.56	6,049.20	-4,238.38	5,832.41	5,722.41	110.00	53.022		
8,300.00	6,083.00	10,650.00	6,204.92	50.88	83.48	-91.56	6,049.20	-4,238.38	5,772.78	5,660.60	112.18	51.460		
8,400.00	6,083.00	10,650.00	6,204.92	52.48	83.48	-91.56	6,049.20	-4,238.38	5,714.28	5,599.88	114.40	49.949		
8,500.00	6,083.00	10,650.00	6,204.92	54.09	83.48	-91.56	6,049.20	-4,238.38	5,656.94	5,540.28	116.66	48.489		
8,600.00	6,083.00	10,650.00	6,204.92	55.70	83.48	-91.56	6,049.20	-4,238.38	5,600.80	5,481.84	118.97	47.079		
8,700.00	6,083.00	10,650.00	6,204.92	57.33	83.48	-91.56	6,049.20	-4,238.38	5,545.90	5,424.60	121.30	45.720		
8,800.00	6,083.00	10,650.00	6,204.92	58.96	83.48	-91.56	6,049.20	-4,238.38	5,492.27	5,368.59	123.67	44.410		
8,900.00	6,083.00	10,650.00	6,204.92	60.61	83.48	-91.56	6,049.20	-4,238.38	5,439.94	5,313.87	126.08	43.148		
9,000.00	6,083.00	10,650.00	6,204.92	62.26	83.48	-91.56	6,049.20	-4,238.38	5,388.97	5,260.46	128.51	41.935		
9,100.00	6,083.00	10,650.00	6,204.92	63.91	83.48	-91.56	6,049.20	-4,238.38	5,339.38	5,208.42	130.96	40.770		
9,200.00	6,083.00	10,650.00	6,204.92	65.58	83.48	-91.56	6,049.20	-4,238.38	5,291.22	5,157.77	133.45	39.651		
9,300.00	6,083.00	10,650.00	6,204.92	67.24	83.48	-91.56	6,049.20	-4,238.38	5,244.52	5,108.57	135.95	38.578		
9,400.00	6,083.00	10,650.00	6,204.92	68.92	83.48	-91.56	6,049.20	-4,238.38	5,199.32	5,060.86	138.47	37.550		
9,500.00	6,083.00	10,650.00	6,204.92	70.60	83.48	-91.56	6,049.20	-4,238.38	5,155.67	5,014.68	141.00	36.566		
9,600.00	6,083.00	10,650.00	6,204.92	72.28	83.48	-91.56	6,049.20	-4,238.38	5,113.60	4,970.07	143.54	35.625		
9,700.00	6,083.00	10,650.00	6,204.92	73.97	83.48	-91.56	6,049.20	-4,238.38	5,073.16	4,927.07	146.09	34.727		
9,800.00	6,083.00	10,650.00	6,204.92	75.66	83.48	-91.56	6,049.20	-4,238.38	5,034.38	4,885.74	148.64	33.870		
9,900.00	6,083.00	10,650.00	6,204.92	77.35	83.48	-91.56	6,049.20	-4,238.38	4,997.29	4,846.11	151.19	33.054		
10,000.00	6,083.00	10,650.00	6,204.92	79.05	83.48	-91.56	6,049.20	-4,238.38	4,961.95	4,808.22	153.73	32.277		
10,100.00	6,083.00	10,650.00	6,204.92	80.75	83.48	-91.56	6,049.20	-4,238.38	4,928.38	4,772.12	156.26	31.540		
10,200.00	6,083.00	10,650.00	6,204.92	82.46	83.48	-91.56	6,049.20	-4,238.38	4,896.62	4,737.85	158.78	30.840		
10,300.00	6,083.00	10,650.00	6,204.92	84.17	83.48	-91.56	6,049.20	-4,238.38	4,866.71	4,705.44	161.27	30.177		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 755-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		
10,400.00	6,083.00	10,650.00	6,204.92	85.88	83.48	-91.56	6,049.20	-4,238.38	4,838.69	4,674.94	163.75	29.550		
10,500.00	6,083.00	10,650.00	6,204.92	87.59	83.48	-91.56	6,049.20	-4,238.38	4,812.58	4,646.39	166.19	28.958		
10,600.00	6,083.00	10,650.00	6,204.92	89.30	83.48	-91.56	6,049.20	-4,238.38	4,788.41	4,619.81	168.60	28.401		
10,700.00	6,083.00	10,650.00	6,204.92	91.02	83.48	-91.56	6,049.20	-4,238.38	4,766.22	4,595.25	170.97	27.877		
10,800.00	6,083.00	10,650.00	6,204.92	92.74	83.48	-91.56	6,049.20	-4,238.38	4,746.04	4,572.74	173.30	27.386		
10,900.00	6,083.00	10,650.00	6,204.92	94.46	83.48	-91.56	6,049.20	-4,238.38	4,727.88	4,552.30	175.58	26.927		
11,000.00	6,083.00	10,650.00	6,204.92	96.19	83.48	-91.56	6,049.20	-4,238.38	4,711.78	4,533.97	177.81	26.500		
11,100.00	6,083.00	10,650.00	6,204.92	97.91	83.48	-91.56	6,049.20	-4,238.38	4,697.75	4,517.77	179.98	26.102		
11,200.00	6,083.00	10,650.00	6,204.92	99.64	83.48	-91.56	6,049.20	-4,238.38	4,685.81	4,503.73	182.08	25.734		
11,300.00	6,083.00	10,650.00	6,204.92	101.37	83.48	-91.56	6,049.20	-4,238.38	4,675.99	4,491.86	184.13	25.396		
11,400.00	6,083.00	10,650.00	6,204.92	103.10	83.48	-91.56	6,049.20	-4,238.38	4,668.28	4,482.18	186.10	25.085		
11,500.00	6,083.00	10,650.00	6,204.92	104.83	83.48	-91.56	6,049.20	-4,238.38	4,662.71	4,474.71	188.00	24.802		
11,600.00	6,083.00	10,650.00	6,204.92	106.56	83.48	-91.56	6,049.20	-4,238.38	4,659.27	4,469.45	189.82	24.546		
11,700.00	6,083.00	10,650.00	6,204.92	108.30	83.48	-91.56	6,049.20	-4,238.38	4,657.98	4,466.42	191.57	24.315		
11,710.03	6,083.00	10,650.00	6,204.92	108.47	83.48	-91.56	6,049.20	-4,238.38	4,657.97	4,466.24	191.74	24.294 CC		
11,800.00	6,083.00	10,650.00	6,204.92	110.03	83.48	-91.56	6,049.20	-4,238.38	4,658.84	4,465.62	193.23	24.111 ES		
11,900.00	6,083.00	10,650.00	6,204.92	111.77	83.48	-91.56	6,049.20	-4,238.38	4,661.85	4,467.04	194.80	23.931		
12,000.00	6,083.00	10,628.49	6,205.15	113.51	83.11	-91.56	6,070.68	-4,239.54	4,666.94	4,470.96	195.98	23.813		
12,100.00	6,083.00	10,357.00	6,206.27	115.24	78.41	-91.57	6,341.97	-4,249.54	4,671.17	4,477.80	193.37	24.157		
12,200.00	6,083.00	10,268.53	6,205.35	116.98	76.89	-91.56	6,430.41	-4,251.21	4,673.36	4,479.79	193.57	24.143		
12,300.00	6,083.00	10,095.50	6,202.82	118.73	73.93	-91.53	6,603.40	-4,252.48	4,674.01	4,481.58	192.43	24.289		
12,400.00	6,083.00	10,026.86	6,205.77	120.47	72.76	-91.57	6,671.97	-4,252.90	4,675.09	4,482.12	192.98	24.226		
12,500.00	6,083.00	9,958.05	6,209.40	122.21	71.59	-91.61	6,740.67	-4,253.82	4,676.89	4,483.39	193.51	24.169		
12,600.00	6,083.00	9,877.00	6,211.72	123.95	70.21	-91.64	6,821.68	-4,255.32	4,679.17	4,485.33	193.84	24.139		
12,700.00	6,083.00	9,832.91	6,211.99	125.70	69.45	-91.64	6,865.75	-4,256.52	4,682.27	4,487.53	194.74	24.044		
12,800.00	6,083.00	9,781.00	6,212.05	127.44	68.57	-91.64	6,917.62	-4,258.65	4,686.61	4,491.11	195.49	23.973		
12,900.00	6,083.00	9,631.85	6,211.79	129.19	66.03	-91.64	7,066.66	-4,264.07	4,690.45	4,495.65	194.81	24.078		
13,000.00	6,083.00	9,438.92	6,213.07	130.94	62.76	-91.65	7,259.53	-4,268.85	4,693.42	4,499.98	193.44	24.263		
13,100.00	6,083.00	9,318.41	6,213.25	132.68	60.74	-91.65	7,380.02	-4,270.22	4,694.89	4,501.70	193.19	24.302		
13,200.00	6,083.00	9,206.00	6,214.55	134.43	58.87	-91.67	7,492.42	-4,271.02	4,695.97	4,502.89	193.08	24.322		
13,300.00	6,083.00	9,127.01	6,215.83	136.18	57.56	-91.68	7,571.40	-4,271.64	4,697.15	4,503.66	193.49	24.276		
13,400.00	6,083.00	9,110.00	6,215.97	137.93	57.27	-91.68	7,588.41	-4,271.84	4,699.34	4,504.51	194.83	24.120		
13,500.00	6,083.00	9,046.23	6,216.27	139.68	56.21	-91.69	7,652.15	-4,273.38	4,702.41	4,506.96	195.45	24.059		
13,600.00	6,083.00	8,996.52	6,216.33	141.43	55.39	-91.69	7,701.82	-4,275.59	4,707.06	4,510.80	196.26	23.984		
13,700.00	6,083.00	8,809.81	6,217.30	143.18	52.30	-91.70	7,888.38	-4,282.66	4,711.21	4,516.09	195.12	24.146		
13,800.00	6,083.00	8,679.60	6,216.61	144.94	50.17	-91.69	8,018.56	-4,285.96	4,714.05	4,519.26	194.80	24.200		
13,900.00	6,083.00	8,537.00	6,215.30	146.69	47.87	-91.67	8,161.12	-4,288.55	4,716.18	4,521.88	194.31	24.272		
14,000.00	6,083.00	8,463.62	6,215.03	148.44	46.69	-91.66	8,234.49	-4,289.68	4,718.07	4,523.22	194.85	24.214		
14,100.00	6,083.00	8,364.37	6,215.58	150.20	45.11	-91.67	8,333.72	-4,291.60	4,720.36	4,525.34	195.02	24.205		
14,200.00	6,083.00	8,215.52	6,216.22	151.95	42.78	-91.68	8,482.56	-4,293.47	4,721.91	4,527.40	194.50	24.277		
14,300.00	6,083.00	8,154.00	6,216.39	153.70	41.82	-91.68	8,544.08	-4,293.99	4,723.26	4,528.01	195.25	24.191		
14,400.00	6,083.00	8,095.68	6,216.74	155.46	40.92	-91.68	8,602.39	-4,294.98	4,725.48	4,529.45	196.04	24.105		
14,500.00	6,083.00	7,838.42	6,221.45	157.21	37.04	-91.74	8,859.55	-4,298.87	4,728.44	4,534.34	194.10	24.361		
14,600.00	6,083.00	7,724.42	6,222.11	158.97	35.38	-91.75	8,973.54	-4,297.74	4,727.78	4,533.58	194.20	24.344		
14,700.00	6,083.00	7,635.53	6,219.48	160.73	34.12	-91.72	9,062.38	-4,297.18	4,727.38	4,532.69	194.69	24.282		
14,800.00	6,083.00	7,547.38	6,216.24	162.48	32.89	-91.68	9,150.46	-4,296.35	4,726.71	4,531.51	195.20	24.214		
14,819.91	6,083.00	7,538.55	6,216.02	162.83	32.76	-91.67	9,159.30	-4,296.32	4,726.69	4,531.26	195.42	24.187		
14,900.00	6,083.00	7,480.00	6,215.45	164.24	31.96	-91.67	9,217.84	-4,296.59	4,727.19	4,531.18	196.01	24.117		
15,000.00	6,083.00	7,452.80	6,215.55	166.00	31.59	-91.67	9,245.04	-4,296.98	4,728.57	4,531.26	197.31	23.965		
15,100.00	6,083.00	7,384.00	6,215.79	167.75	30.67	-91.67	9,313.82	-4,298.50	4,731.05	4,532.96	198.09	23.883		
15,200.00	6,083.00	7,315.45	6,216.88	169.51	29.78	-91.68	9,382.33	-4,300.44	4,734.20	4,535.30	198.89	23.803		
15,300.00	6,083.00	7,242.93	6,219.58	171.27	28.86	-91.71	9,454.76	-4,302.69	4,737.75	4,538.09	199.67	23.728		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINAL SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 755-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
15,400.00	6,083.00	7,132.36	6,224.11	173.03	27.51	-91.77	9,565.17	-4,306.73	4,741.91	4,541.82	200.09	23.698	
15,500.00	6,083.00	7,049.17	6,226.42	174.79	26.54	-91.79	9,648.28	-4,309.32	4,745.50	4,544.66	200.85	23.627	
15,600.00	6,083.00	6,914.56	6,227.01	176.55	25.09	-91.80	9,782.79	-4,314.52	4,749.90	4,548.66	201.24	23.604	
15,700.00	6,083.00	6,631.48	6,225.40	178.31	22.60	-91.78	10,065.79	-4,316.38	4,750.15	4,549.36	200.79	23.657	
15,800.00	6,083.00	6,535.00	6,216.12	180.07	21.93	-91.67	10,161.79	-4,315.84	4,749.64	4,547.76	201.88	23.527	
15,854.05	6,083.00	6,504.42	6,211.42	181.02	21.73	-91.61	10,192.01	-4,315.85	4,749.56	4,546.93	202.63	23.440	
15,900.00	6,083.00	6,457.00	6,202.64	181.83	21.45	-91.50	10,238.60	-4,315.92	4,749.55	4,546.39	203.16	23.378	
16,000.00	6,083.00	6,384.48	6,180.72	183.59	21.06	-91.24	10,307.65	-4,316.59	4,750.03	4,545.53	204.51	23.227	
16,028.23	6,083.00	6,361.00	6,171.41	184.08	20.94	-91.13	10,329.20	-4,316.85	4,750.22	4,545.34	204.88	23.185 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 750-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	10,700.00	6,210.16	0.00	83.52	-31.76	6,052.24	-3,746.32	9,450.80					
100.00	100.00	10,700.00	6,210.16	0.27	83.52	-31.76	6,052.24	-3,746.32	9,385.32	9,342.48	42.84	219.097		
200.00	200.00	10,700.00	6,210.16	0.63	83.52	-31.76	6,052.24	-3,746.32	9,320.45	9,277.54	42.91	217.205		
300.00	299.98	10,700.00	6,210.16	0.98	83.52	-97.16	6,052.24	-3,746.32	9,256.35	9,213.31	43.04	215.067		
400.00	399.84	10,700.00	6,210.16	1.34	83.52	-98.77	6,052.24	-3,746.32	9,193.22	9,149.99	43.23	212.671		
500.00	499.55	10,700.00	6,210.16	1.71	83.52	-99.08	6,052.24	-3,746.32	9,131.03	9,087.56	43.47	210.047		
600.00	599.25	10,700.00	6,210.16	2.08	83.52	-99.08	6,052.24	-3,746.32	9,069.52	9,025.77	43.75	207.289		
700.00	698.96	10,700.00	6,210.16	2.45	83.52	-99.08	6,052.24	-3,746.32	9,008.70	8,964.64	44.06	204.464		
800.00	798.67	10,700.00	6,210.16	2.83	83.52	-99.08	6,052.24	-3,746.32	8,948.59	8,904.20	44.39	201.603		
900.00	898.37	10,700.00	6,210.16	3.21	83.52	-99.08	6,052.24	-3,746.32	8,889.20	8,844.47	44.73	198.728		
1,000.00	998.08	10,700.00	6,210.16	3.58	83.52	-99.08	6,052.24	-3,746.32	8,830.53	8,785.45	45.09	195.855		
1,100.00	1,097.78	10,700.00	6,210.16	3.96	83.52	-99.08	6,052.24	-3,746.32	8,772.62	8,727.16	45.46	192.995		
1,200.00	1,197.49	10,700.00	6,210.16	4.34	83.52	-99.08	6,052.24	-3,746.32	8,715.47	8,669.63	45.83	190.157		
1,300.00	1,297.19	10,700.00	6,210.16	4.72	83.52	-99.08	6,052.24	-3,746.32	8,659.09	8,612.87	46.22	187.347		
1,400.00	1,396.90	10,700.00	6,210.16	5.10	83.52	-99.08	6,052.24	-3,746.32	8,603.51	8,556.90	46.61	184.570		
1,500.00	1,496.60	10,700.00	6,210.16	5.47	83.52	-99.08	6,052.24	-3,746.32	8,548.74	8,501.72	47.02	181.829		
1,600.00	1,596.31	10,700.00	6,210.16	5.85	83.52	-99.08	6,052.24	-3,746.32	8,494.79	8,447.37	47.42	179.127		
1,700.00	1,696.02	10,700.00	6,210.16	6.23	83.52	-99.08	6,052.24	-3,746.32	8,441.68	8,393.84	47.84	176.466		
1,800.00	1,795.72	10,700.00	6,210.16	6.61	83.52	-99.08	6,052.24	-3,746.32	8,389.43	8,341.17	48.26	173.847		
1,900.00	1,895.43	10,700.00	6,210.16	6.99	83.52	-99.08	6,052.24	-3,746.32	8,338.05	8,289.36	48.68	171.273		
2,000.00	1,995.13	10,700.00	6,210.16	7.37	83.52	-99.08	6,052.24	-3,746.32	8,287.55	8,238.44	49.11	168.745		
2,100.00	2,094.84	10,700.00	6,210.16	7.75	83.52	-99.08	6,052.24	-3,746.32	8,237.97	8,188.42	49.55	166.262		
2,200.00	2,194.54	10,700.00	6,210.16	8.13	83.52	-99.08	6,052.24	-3,746.32	8,189.30	8,139.31	49.99	163.825		
2,300.00	2,294.25	10,700.00	6,210.16	8.51	83.52	-99.08	6,052.24	-3,746.32	8,141.57	8,091.14	50.43	161.436		
2,400.00	2,393.95	10,700.00	6,210.16	8.89	83.52	-99.08	6,052.24	-3,746.32	8,094.79	8,043.91	50.88	159.094		
2,500.00	2,493.66	10,700.00	6,210.16	9.26	83.52	-99.08	6,052.24	-3,746.32	8,048.99	7,997.65	51.33	156.801		
2,600.00	2,593.37	10,700.00	6,210.16	9.64	83.52	-99.08	6,052.24	-3,746.32	8,004.17	7,952.38	51.79	154.555		
2,700.00	2,693.07	10,700.00	6,210.16	10.02	83.52	-99.08	6,052.24	-3,746.32	7,960.35	7,908.11	52.25	152.358		
2,800.00	2,792.78	10,700.00	6,210.16	10.40	83.52	-99.08	6,052.24	-3,746.32	7,917.56	7,864.85	52.71	150.209		
2,900.00	2,892.48	10,700.00	6,210.16	10.78	83.52	-99.08	6,052.24	-3,746.32	7,875.80	7,822.63	53.18	148.109		
3,000.00	2,992.19	10,700.00	6,210.16	11.16	83.52	-99.08	6,052.24	-3,746.32	7,835.10	7,781.46	53.64	146.057		
3,100.00	3,091.89	10,700.00	6,210.16	11.54	83.52	-99.08	6,052.24	-3,746.32	7,795.47	7,741.35	54.11	144.054		
3,200.00	3,191.60	10,700.00	6,210.16	11.92	83.52	-99.08	6,052.24	-3,746.32	7,756.92	7,702.33	54.59	142.099		
3,300.00	3,291.31	10,700.00	6,210.16	12.30	83.52	-99.08	6,052.24	-3,746.32	7,719.48	7,664.42	55.06	140.193		
3,400.00	3,391.01	10,700.00	6,210.16	12.68	83.52	-99.08	6,052.24	-3,746.32	7,683.16	7,627.62	55.54	138.335		
3,500.00	3,490.72	10,700.00	6,210.16	13.06	83.52	-99.08	6,052.24	-3,746.32	7,647.97	7,591.95	56.02	136.525		
3,600.00	3,590.42	10,700.00	6,210.16	13.44	83.52	-99.08	6,052.24	-3,746.32	7,613.93	7,557.43	56.50	134.764		
3,700.00	3,690.13	10,700.00	6,210.16	13.82	83.52	-99.08	6,052.24	-3,746.32	7,581.06	7,524.08	56.98	133.050		
3,800.00	3,789.83	10,700.00	6,210.16	14.19	83.52	-99.08	6,052.24	-3,746.32	7,549.37	7,491.91	57.46	131.384		
3,900.00	3,889.54	10,700.00	6,210.16	14.57	83.52	-99.08	6,052.24	-3,746.32	7,518.88	7,460.93	57.94	129.765		
4,000.00	3,989.24	10,700.00	6,210.16	14.95	83.52	-99.08	6,052.24	-3,746.32	7,489.59	7,431.17	58.42	128.194		
4,100.00	4,088.95	10,700.00	6,210.16	15.33	83.52	-99.08	6,052.24	-3,746.32	7,461.54	7,402.63	58.91	126.670		
4,200.00	4,188.66	10,700.00	6,210.16	15.71	83.52	-99.08	6,052.24	-3,746.32	7,434.72	7,375.33	59.39	125.192		
4,300.00	4,288.36	10,700.00	6,210.16	16.09	83.52	-99.08	6,052.24	-3,746.32	7,409.16	7,349.29	59.87	123.760		
4,400.00	4,388.07	10,700.00	6,210.16	16.47	83.52	-99.08	6,052.24	-3,746.32	7,384.86	7,324.51	60.35	122.375		
4,500.00	4,487.77	10,700.00	6,210.16	16.85	83.52	-99.08	6,052.24	-3,746.32	7,361.84	7,301.01	60.82	121.035		
4,600.00	4,587.48	10,700.00	6,210.16	17.23	83.52	-99.08	6,052.24	-3,746.32	7,340.11	7,278.81	61.30	119.741		
4,700.00	4,687.18	10,700.00	6,210.16	17.61	83.52	-99.08	6,052.24	-3,746.32	7,319.68	7,257.90	61.77	118.492		
4,800.00	4,786.89	10,700.00	6,210.16	17.99	83.52	-99.08	6,052.24	-3,746.32	7,300.56	7,238.32	62.24	117.288		
4,900.00	4,886.59	10,700.00	6,210.16	18.37	83.52	-99.08	6,052.24	-3,746.32	7,282.77	7,220.06	62.71	116.127		
5,000.00	4,986.30	10,700.00	6,210.16	18.75	83.52	-99.08	6,052.24	-3,746.32	7,266.31	7,203.13	63.18	115.011		
5,100.00	5,086.01	10,700.00	6,210.16	19.13	83.52	-99.08	6,052.24	-3,746.32	7,251.19	7,187.55	63.64	113.938		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 750-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		
5,200.00	5,185.71	10,700.00	6,210.16	19.51	83.52	-99.08	6,052.24	-3,746.32	7,237.42	7,173.32	64.10	112.908		
5,300.00	5,285.42	10,700.00	6,210.16	19.89	83.52	-99.08	6,052.24	-3,746.32	7,225.01	7,160.46	64.56	111.920		
5,400.00	5,385.12	10,700.00	6,210.16	20.26	83.52	-99.08	6,052.24	-3,746.32	7,213.97	7,148.96	65.01	110.975		
5,500.00	5,484.83	10,700.00	6,210.16	20.64	83.52	-99.08	6,052.24	-3,746.32	7,204.30	7,138.84	65.45	110.071		
5,600.00	5,584.37	10,700.00	6,210.16	21.03	83.52	-64.18	6,052.24	-3,746.32	7,193.96	7,128.05	65.91	109.147		
5,700.00	5,681.71	10,700.00	6,210.16	21.43	83.52	-50.16	6,052.24	-3,746.32	7,172.54	7,106.07	66.47	107.909		
5,800.00	5,773.87	10,700.00	6,210.16	21.85	83.52	-47.88	6,052.24	-3,746.32	7,139.06	7,071.93	67.12	106.356		
5,900.00	5,858.06	10,700.00	6,210.16	22.29	83.52	-49.11	6,052.24	-3,746.32	7,094.38	7,026.50	67.87	104.528		
6,000.00	5,931.71	10,700.00	6,210.16	22.78	83.52	-52.61	6,052.24	-3,746.32	7,039.65	6,970.95	68.70	102.470		
6,100.00	5,992.59	10,700.00	6,210.16	23.33	83.52	-58.25	6,052.24	-3,746.32	6,976.33	6,906.72	69.61	100.226		
6,200.00	6,038.86	10,700.00	6,210.16	23.96	83.52	-66.17	6,052.24	-3,746.32	6,906.13	6,835.55	70.58	97.845		
6,300.00	6,069.09	10,700.00	6,210.16	24.69	83.52	-76.42	6,052.24	-3,746.32	6,831.01	6,759.39	71.62	95.380		
6,400.00	6,082.38	10,700.00	6,210.16	25.49	83.52	-88.48	6,052.24	-3,746.32	6,753.12	6,680.41	72.70	92.885		
6,500.00	6,083.00	10,700.00	6,210.16	26.37	83.52	-91.85	6,052.24	-3,746.32	6,674.73	6,600.89	73.83	90.405		
6,600.00	6,083.00	10,700.00	6,210.16	27.33	83.52	-91.85	6,052.24	-3,746.32	6,596.89	6,521.87	75.02	87.931		
6,700.00	6,083.00	10,700.00	6,210.16	28.37	83.52	-91.85	6,052.24	-3,746.32	6,519.67	6,443.39	76.28	85.468		
6,800.00	6,083.00	10,700.00	6,210.16	29.48	83.52	-91.85	6,052.24	-3,746.32	6,443.07	6,365.46	77.61	83.023		
6,900.00	6,083.00	10,700.00	6,210.16	30.66	83.52	-91.85	6,052.24	-3,746.32	6,367.12	6,288.12	78.99	80.602		
7,000.00	6,083.00	10,700.00	6,210.16	31.89	83.52	-91.85	6,052.24	-3,746.32	6,291.84	6,211.39	80.45	78.209		
7,100.00	6,083.00	10,700.00	6,210.16	33.17	83.52	-91.85	6,052.24	-3,746.32	6,217.26	6,135.29	81.97	75.849		
7,200.00	6,083.00	10,700.00	6,210.16	34.49	83.52	-91.85	6,052.24	-3,746.32	6,143.40	6,059.85	83.55	73.527		
7,300.00	6,083.00	10,700.00	6,210.16	35.85	83.52	-91.85	6,052.24	-3,746.32	6,070.29	5,985.09	85.20	71.247		
7,400.00	6,083.00	10,700.00	6,210.16	37.25	83.52	-91.85	6,052.24	-3,746.32	5,997.95	5,911.04	86.91	69.012		
7,500.00	6,083.00	10,700.00	6,210.16	38.67	83.52	-91.85	6,052.24	-3,746.32	5,926.42	5,837.74	88.69	66.825		
7,600.00	6,083.00	10,700.00	6,210.16	40.13	83.52	-91.85	6,052.24	-3,746.32	5,855.73	5,765.21	90.52	64.689		
7,700.00	6,083.00	10,700.00	6,210.16	41.61	83.52	-91.85	6,052.24	-3,746.32	5,785.90	5,693.48	92.42	62.606		
7,800.00	6,083.00	10,700.00	6,210.16	43.11	83.52	-91.85	6,052.24	-3,746.32	5,716.96	5,622.59	94.37	60.578		
7,900.00	6,083.00	10,700.00	6,210.16	44.63	83.52	-91.85	6,052.24	-3,746.32	5,648.96	5,552.57	96.39	58.605		
8,000.00	6,083.00	10,700.00	6,210.16	46.17	83.52	-91.85	6,052.24	-3,746.32	5,581.91	5,483.45	98.46	56.690		
8,100.00	6,083.00	10,700.00	6,210.16	47.73	83.52	-91.85	6,052.24	-3,746.32	5,515.87	5,415.27	100.60	54.832		
8,200.00	6,083.00	10,700.00	6,210.16	49.30	83.52	-91.85	6,052.24	-3,746.32	5,450.86	5,348.08	102.78	53.032		
8,300.00	6,083.00	10,700.00	6,210.16	50.88	83.52	-91.85	6,052.24	-3,746.32	5,386.92	5,281.90	105.03	51.291		
8,400.00	6,083.00	10,700.00	6,210.16	52.48	83.52	-91.85	6,052.24	-3,746.32	5,324.09	5,216.77	107.32	49.609		
8,500.00	6,083.00	10,700.00	6,210.16	54.09	83.52	-91.85	6,052.24	-3,746.32	5,262.42	5,152.75	109.67	47.985		
8,600.00	6,083.00	10,700.00	6,210.16	55.70	83.52	-91.85	6,052.24	-3,746.32	5,201.93	5,089.87	112.07	46.419		
8,700.00	6,083.00	10,700.00	6,210.16	57.33	83.52	-91.85	6,052.24	-3,746.32	5,142.68	5,028.17	114.51	44.910		
8,800.00	6,083.00	10,700.00	6,210.16	58.96	83.52	-91.85	6,052.24	-3,746.32	5,084.70	4,967.70	117.00	43.458		
8,900.00	6,083.00	10,700.00	6,210.16	60.61	83.52	-91.85	6,052.24	-3,746.32	5,028.05	4,908.51	119.54	42.062		
9,000.00	6,083.00	10,700.00	6,210.16	62.26	83.52	-91.85	6,052.24	-3,746.32	4,972.76	4,850.64	122.11	40.722		
9,100.00	6,083.00	10,700.00	6,210.16	63.91	83.52	-91.85	6,052.24	-3,746.32	4,918.88	4,794.15	124.73	39.437		
9,200.00	6,083.00	10,700.00	6,210.16	65.58	83.52	-91.85	6,052.24	-3,746.32	4,866.46	4,739.08	127.38	38.205		
9,300.00	6,083.00	10,700.00	6,210.16	67.24	83.52	-91.85	6,052.24	-3,746.32	4,815.54	4,685.48	130.06	37.025		
9,400.00	6,083.00	10,700.00	6,210.16	68.92	83.52	-91.85	6,052.24	-3,746.32	4,766.18	4,633.41	132.77	35.897		
9,500.00	6,083.00	10,700.00	6,210.16	70.60	83.52	-91.85	6,052.24	-3,746.32	4,718.43	4,582.92	135.51	34.820		
9,600.00	6,083.00	10,700.00	6,210.16	72.28	83.52	-91.85	6,052.24	-3,746.32	4,672.32	4,534.06	138.26	33.793		
9,700.00	6,083.00	10,700.00	6,210.16	73.97	83.52	-91.85	6,052.24	-3,746.32	4,627.92	4,486.89	141.04	32.813		
9,800.00	6,083.00	10,700.00	6,210.16	75.66	83.52	-91.85	6,052.24	-3,746.32	4,585.27	4,441.45	143.82	31.882		
9,900.00	6,083.00	10,700.00	6,210.16	77.35	83.52	-91.85	6,052.24	-3,746.32	4,544.42	4,397.81	146.61	30.996		
10,000.00	6,083.00	10,700.00	6,210.16	79.05	83.52	-91.85	6,052.24	-3,746.32	4,505.42	4,356.02	149.41	30.156		
10,100.00	6,083.00	10,700.00	6,210.16	80.75	83.52	-91.85	6,052.24	-3,746.32	4,468.32	4,316.13	152.19	29.359		
10,200.00	6,083.00	10,700.00	6,210.16	82.46	83.52	-91.85	6,052.24	-3,746.32	4,433.16	4,278.19	154.97	28.606		
10,300.00	6,083.00	10,700.00	6,210.16	84.17	83.52	-91.85	6,052.24	-3,746.32	4,400.00	4,242.26	157.74	27.895		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 750-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		
10,400.00	6,083.00	10,700.00	6,210.16	85.88	83.52	-91.85	6,052.24	-3,746.32	4,368.87	4,208.40	160.48	27.225		
10,500.00	6,083.00	10,700.00	6,210.16	87.59	83.52	-91.85	6,052.24	-3,746.32	4,339.83	4,176.64	163.19	26.594		
10,600.00	6,083.00	10,700.00	6,210.16	89.30	83.52	-91.85	6,052.24	-3,746.32	4,312.91	4,147.04	165.86	26.003		
10,700.00	6,083.00	10,700.00	6,210.16	91.02	83.52	-91.85	6,052.24	-3,746.32	4,288.15	4,119.65	168.50	25.449		
10,800.00	6,083.00	10,700.00	6,210.16	92.74	83.52	-91.85	6,052.24	-3,746.32	4,265.59	4,094.50	171.09	24.932		
10,900.00	6,083.00	10,700.00	6,210.16	94.46	83.52	-91.85	6,052.24	-3,746.32	4,245.27	4,071.65	173.62	24.451		
11,000.00	6,083.00	10,700.00	6,210.16	96.19	83.52	-91.85	6,052.24	-3,746.32	4,227.22	4,051.12	176.09	24.006		
11,100.00	6,083.00	10,700.00	6,210.16	97.91	83.52	-91.85	6,052.24	-3,746.32	4,211.46	4,032.96	178.50	23.594		
11,200.00	6,083.00	10,700.00	6,210.16	99.64	83.52	-91.85	6,052.24	-3,746.32	4,198.03	4,017.20	180.83	23.215		
11,300.00	6,083.00	10,700.00	6,210.16	101.37	83.52	-91.85	6,052.24	-3,746.32	4,186.95	4,003.86	183.08	22.869		
11,400.00	6,083.00	10,700.00	6,210.16	103.10	83.52	-91.85	6,052.24	-3,746.32	4,178.23	3,992.98	185.25	22.554		
11,500.00	6,083.00	10,700.00	6,210.16	104.83	83.52	-91.85	6,052.24	-3,746.32	4,171.89	3,984.56	187.33	22.270		
11,600.00	6,083.00	10,700.00	6,210.16	106.56	83.52	-91.85	6,052.24	-3,746.32	4,167.94	3,978.62	189.32	22.016		
11,700.00	6,083.00	10,700.00	6,210.16	108.30	83.52	-91.85	6,052.24	-3,746.32	4,166.38	3,975.18	191.20	21.790		
11,714.00	6,083.00	10,700.00	6,210.16	108.54	83.52	-91.85	6,052.24	-3,746.32	4,166.36	3,974.90	191.46	21.761		
11,800.00	6,083.00	10,679.15	6,210.19	110.03	83.16	-91.85	6,073.09	-3,746.57	4,167.18	3,974.55	192.63	21.633		
11,900.00	6,083.00	10,527.21	6,209.95	111.77	80.56	-91.84	6,225.03	-3,747.52	4,168.15	3,976.41	191.74	21.739		
12,000.00	6,083.00	10,417.42	6,208.99	113.51	78.70	-91.83	6,334.82	-3,747.46	4,168.41	3,976.82	191.59	21.757		
12,100.00	6,083.00	10,223.35	6,209.09	115.24	75.42	-91.83	6,528.83	-3,743.77	4,166.38	3,976.46	189.91	21.938		
12,200.00	6,083.00	10,161.00	6,209.63	116.98	74.38	-91.84	6,591.17	-3,743.02	4,165.20	3,974.54	190.66	21.847		
12,253.66	6,083.00	10,161.00	6,209.63	117.92	74.38	-91.84	6,591.17	-3,743.02	4,164.85	3,973.20	191.65	21.731		
12,300.00	6,083.00	10,143.91	6,209.75	118.73	74.09	-91.84	6,608.25	-3,743.06	4,165.06	3,972.87	192.19	21.672		
12,400.00	6,083.00	9,995.48	6,210.25	120.47	71.59	-91.85	6,756.67	-3,743.10	4,165.56	3,974.18	191.38	21.766		
12,500.00	6,083.00	9,908.59	6,209.77	122.21	70.13	-91.84	6,843.55	-3,741.89	4,164.59	3,972.92	191.67	21.728		
12,509.90	6,083.00	9,904.71	6,209.70	122.38	70.07	-91.84	6,847.43	-3,741.88	4,164.58	3,972.80	191.78	21.716		
12,600.00	6,083.00	9,859.27	6,208.68	123.95	69.31	-91.83	6,892.86	-3,742.09	4,165.15	3,972.55	192.61	21.625		
12,700.00	6,083.00	9,734.87	6,209.07	125.70	67.22	-91.83	7,017.25	-3,742.75	4,166.05	3,973.81	192.24	21.671		
12,800.00	6,083.00	9,547.48	6,212.06	127.44	64.12	-91.87	7,204.58	-3,739.97	4,164.50	3,973.73	190.77	21.830		
12,900.00	6,083.00	9,492.00	6,212.71	129.19	63.20	-91.88	7,260.05	-3,739.31	4,163.57	3,971.92	191.64	21.726		
12,922.56	6,083.00	9,492.00	6,212.71	129.58	63.20	-91.88	7,260.05	-3,739.31	4,163.51	3,971.45	192.06	21.678		
13,000.00	6,083.00	9,439.55	6,212.70	130.94	62.34	-91.88	7,312.50	-3,739.29	4,163.74	3,971.19	192.55	21.624		
13,100.00	6,083.00	9,299.00	6,209.94	132.68	60.02	-91.84	7,453.02	-3,739.62	4,164.40	3,972.47	191.93	21.697		
13,158.64	6,083.00	9,255.88	6,209.47	133.71	59.31	-91.84	7,496.14	-3,739.39	4,164.28	3,972.02	192.26	21.660		
13,200.00	6,083.00	9,226.75	6,209.49	134.43	58.84	-91.84	7,525.27	-3,739.34	4,164.34	3,971.83	192.51	21.632		
13,300.00	6,083.00	9,034.55	6,212.57	136.18	55.72	-91.88	7,717.42	-3,736.95	4,163.45	3,972.44	191.01	21.797		
13,400.00	6,083.00	8,949.58	6,213.82	137.93	54.36	-91.90	7,802.36	-3,735.04	4,161.61	3,970.21	191.40	21.743		
13,500.00	6,083.00	8,866.73	6,212.54	139.68	53.04	-91.88	7,885.18	-3,733.73	4,160.30	3,968.47	191.83	21.688		
13,593.37	6,083.00	8,821.00	6,211.27	141.32	52.31	-91.86	7,930.89	-3,733.12	4,159.53	3,966.77	192.77	21.578		
13,600.00	6,083.00	8,821.00	6,211.27	141.43	52.31	-91.86	7,930.89	-3,733.12	4,159.54	3,966.65	192.89	21.565		
13,631.51	6,083.00	8,782.89	6,210.27	141.98	51.70	-91.85	7,968.99	-3,732.83	4,159.34	3,966.52	192.82	21.571 CC		
13,700.00	6,083.00	8,750.20	6,209.73	143.18	51.18	-91.84	8,001.68	-3,732.88	4,159.64	3,966.13	193.51	21.496		
13,800.00	6,083.00	8,630.00	6,210.01	144.94	49.28	-91.85	8,121.87	-3,733.67	4,160.71	3,967.39	193.33	21.522		
13,900.00	6,083.00	8,630.00	6,210.01	146.69	49.28	-91.85	8,121.87	-3,733.67	4,162.29	3,967.21	195.07	21.337		
14,000.00	6,083.00	8,576.93	6,210.56	148.44	48.44	-91.85	8,174.92	-3,734.60	4,164.99	3,969.05	195.94	21.256		
14,100.00	6,083.00	8,534.00	6,210.60	150.20	47.76	-91.85	8,217.80	-3,736.75	4,169.90	3,972.97	196.93	21.175		
14,200.00	6,083.00	8,499.64	6,210.55	151.95	47.21	-91.85	8,252.08	-3,738.97	4,176.20	3,978.21	198.00	21.092		
14,300.00	6,083.00	8,315.32	6,210.45	153.70	44.32	-91.84	8,436.07	-3,749.95	4,182.89	3,985.89	197.00	21.233		
14,400.00	6,083.00	8,026.25	6,208.66	155.46	39.95	-91.82	8,724.96	-3,757.75	4,186.76	3,992.30	194.46	21.530		
14,500.00	6,083.00	7,885.61	6,209.05	157.21	37.93	-91.82	8,865.59	-3,756.87	4,186.44	3,992.30	194.14	21.564		
14,600.00	6,083.00	7,765.00	6,208.67	158.97	36.25	-91.82	8,986.19	-3,755.01	4,185.17	3,991.01	194.15	21.556		
14,687.73	6,083.00	7,725.90	6,209.09	160.51	35.71	-91.82	9,025.29	-3,754.49	4,184.51	3,989.34	195.17	21.440		
14,700.00	6,083.00	7,721.86	6,209.13	160.73	35.66	-91.82	9,029.32	-3,754.48	4,184.52	3,989.19	195.33	21.422		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
SEC 5-T5N-R61W - EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL SURVEY												<b>Offset Well Error:</b>	0.00 usft
Survey Program: 750-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
14,800.00	6,083.00	7,669.00	6,209.51	162.48	34.93	-91.83	9,082.17	-3,755.07	4,185.67	3,989.32	196.35	21.318	
14,900.00	6,083.00	7,669.00	6,209.51	164.24	34.93	-91.83	9,082.17	-3,755.07	4,188.18	3,990.17	198.02	21.151	
15,000.00	6,083.00	7,615.03	6,209.71	166.00	34.20	-91.83	9,136.11	-3,756.93	4,192.19	3,993.24	198.95	21.071	
15,100.00	6,083.00	7,572.00	6,209.76	167.75	33.62	-91.83	9,179.08	-3,759.20	4,197.73	3,997.74	199.99	20.990	
15,200.00	6,083.00	7,528.89	6,209.76	169.51	33.04	-91.83	9,222.10	-3,762.06	4,204.62	4,003.61	201.00	20.918	
15,300.00	6,083.00	7,442.23	6,209.76	171.27	31.90	-91.83	9,308.50	-3,768.74	4,212.61	4,011.05	201.56	20.900	
15,400.00	6,083.00	7,203.19	6,212.22	173.03	28.98	-91.85	9,547.13	-3,781.86	4,218.04	4,017.31	200.73	21.014	
15,500.00	6,083.00	7,075.61	6,211.20	174.79	27.59	-91.84	9,674.60	-3,786.83	4,222.25	4,021.13	201.12	20.994	
15,600.00	6,083.00	6,360.00	6,137.88	176.55	23.69	-90.85	10,373.88	-3,759.60	4,215.15	4,017.66	197.50	21.343	
15,700.00	6,083.00	6,040.00	5,941.52	178.31	23.63	-88.15	10,622.91	-3,724.74	4,201.20	4,003.38	197.82	21.238	
15,800.00	6,083.00	6,025.17	5,930.19	180.07	23.63	-87.99	10,632.35	-3,723.13	4,188.35	3,988.51	199.84	20.958	
15,900.00	6,083.00	6,008.00	5,916.71	181.83	23.62	-87.80	10,642.84	-3,721.44	4,177.58	3,975.79	201.78	20.703	
16,000.00	6,083.00	5,987.56	5,900.16	183.59	23.61	-87.58	10,654.69	-3,719.68	4,168.90	3,965.26	203.64	20.472	
16,028.23	6,083.00	5,976.00	5,890.55	184.08	23.60	-87.44	10,661.07	-3,718.80	4,166.85	3,962.73	204.12	20.414 ES, SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1													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	0.01	75.06	0.00	75.06					
100.00	100.00	100.00	100.00	0.27	0.27	0.01	75.06	0.00	75.06	74.52	0.54	139.586		
200.00	200.00	199.85	199.83	0.63	0.62	-1.33	75.13	-1.74	75.15	73.90	1.25	60.166		
300.00	299.98	299.33	299.17	0.98	0.98	-70.23	75.35	-6.93	75.06	73.10	1.96	38.245		
311.78	311.75	311.00	310.81	1.03	1.03	-71.16	75.38	-7.76	75.05	73.00	2.05	36.635	CC, ES	
400.00	399.84	397.79	397.26	1.34	1.35	-80.27	75.70	-15.45	75.83	73.14	2.69	28.182		
500.00	499.55	494.82	493.57	1.71	1.74	-93.37	76.19	-27.14	80.72	77.29	3.44	23.498		
600.00	599.25	590.49	588.09	2.08	2.14	-105.88	76.80	-41.85	91.80	87.63	4.17	21.992		
700.00	698.96	684.63	680.58	2.45	2.57	-116.28	77.54	-59.39	109.12	104.23	4.89	22.320		
800.00	798.67	777.07	770.79	2.83	3.02	-124.28	78.38	-79.57	131.99	126.41	5.58	23.668		
900.00	898.37	867.69	858.53	3.21	3.50	-130.23	79.32	-102.16	159.62	153.37	6.24	25.565		
1,000.00	998.08	956.35	943.65	3.58	4.01	-134.64	80.36	-126.93	191.35	184.46	6.89	27.788		
1,100.00	1,097.78	1,042.95	1,026.02	3.96	4.54	-137.95	81.47	-153.66	226.71	219.19	7.52	30.138		
1,200.00	1,197.49	1,127.42	1,105.54	4.34	5.10	-140.45	82.66	-182.11	265.35	257.21	8.14	32.589		
1,300.00	1,297.19	1,209.69	1,182.15	4.72	5.69	-142.39	83.91	-212.06	307.00	298.25	8.75	35.095		
1,400.00	1,396.90	1,289.71	1,255.81	5.10	6.30	-143.91	85.22	-243.29	351.45	342.11	9.34	37.631		
1,500.00	1,496.60	1,367.45	1,326.51	5.47	6.94	-145.11	86.56	-275.59	398.52	388.61	9.92	40.183		
1,600.00	1,596.31	1,442.91	1,394.27	5.85	7.59	-146.08	87.95	-308.76	448.06	437.58	10.48	42.751		
1,700.00	1,696.02	1,521.23	1,463.74	6.23	8.30	-146.92	89.46	-344.88	499.75	488.66	11.09	45.073		
1,800.00	1,795.72	1,606.35	1,539.09	6.61	9.10	-147.67	91.11	-384.45	551.90	540.12	11.78	46.851		
1,900.00	1,895.43	1,691.48	1,614.44	6.99	9.90	-148.29	92.76	-424.03	604.11	591.63	12.48	48.417		
2,000.00	1,995.13	1,776.60	1,689.78	7.37	10.71	-148.81	94.41	-463.60	656.36	643.18	13.18	49.804		
2,100.00	2,094.84	1,861.72	1,765.13	7.75	11.53	-149.25	96.07	-503.18	708.64	694.76	13.88	51.041		
2,200.00	2,194.54	1,946.85	1,840.48	8.13	12.35	-149.64	97.72	-542.75	760.95	746.36	14.59	52.150		
2,300.00	2,294.25	2,031.97	1,915.82	8.51	13.18	-149.97	99.37	-582.33	813.28	797.98	15.30	53.148		
2,400.00	2,393.95	2,117.09	1,991.17	8.89	14.00	-150.27	101.02	-621.90	865.63	849.62	16.01	54.051		
2,500.00	2,493.66	2,202.22	2,066.52	9.26	14.83	-150.53	102.68	-661.47	918.00	901.27	16.73	54.872		
2,600.00	2,593.37	2,287.34	2,141.86	9.64	15.67	-150.76	104.33	-701.05	970.37	952.93	17.45	55.620		
2,700.00	2,693.07	2,372.46	2,217.21	10.02	16.50	-150.97	105.98	-740.62	1,022.76	1,004.59	18.16	56.305		
2,800.00	2,792.78	2,457.59	2,292.56	10.40	17.33	-151.16	107.63	-780.20	1,075.16	1,056.27	18.88	56.933		
2,900.00	2,892.48	2,542.71	2,367.91	10.78	18.17	-151.33	109.28	-819.77	1,127.56	1,107.95	19.61	57.513		
3,000.00	2,992.19	2,627.83	2,443.25	11.16	19.01	-151.49	110.94	-859.34	1,179.97	1,159.64	20.33	58.048		
3,100.00	3,091.89	2,712.96	2,518.60	11.54	19.85	-151.63	112.59	-898.92	1,232.39	1,211.33	21.05	58.544		
3,200.00	3,191.60	2,798.08	2,593.95	11.92	20.68	-151.76	114.24	-938.49	1,284.81	1,263.03	21.77	59.004		
3,300.00	3,291.31	2,883.20	2,669.29	12.30	21.52	-151.88	115.89	-978.07	1,337.23	1,314.73	22.50	59.432		
3,400.00	3,391.01	2,968.33	2,744.64	12.68	22.36	-151.99	117.55	-1,017.64	1,389.66	1,366.44	23.23	59.832		
3,500.00	3,490.72	3,053.45	2,819.99	13.06	23.20	-152.10	119.20	-1,057.21	1,442.10	1,418.14	23.95	60.205		
3,600.00	3,590.42	3,138.57	2,895.33	13.44	24.05	-152.19	120.85	-1,096.79	1,494.53	1,469.85	24.68	60.555		
3,700.00	3,690.13	3,223.70	2,970.68	13.82	24.89	-152.28	122.50	-1,136.36	1,546.97	1,521.56	25.41	60.883		
3,800.00	3,789.83	3,308.82	3,046.03	14.19	25.73	-152.37	124.16	-1,175.94	1,599.41	1,573.28	26.14	61.192		
3,900.00	3,889.54	3,393.94	3,121.37	14.57	26.57	-152.44	125.81	-1,215.51	1,651.86	1,624.99	26.87	61.482		
4,000.00	3,989.24	3,479.07	3,196.72	14.95	27.42	-152.52	127.46	-1,255.09	1,704.30	1,676.71	27.60	61.756		
4,100.00	4,088.95	3,564.19	3,272.07	15.33	28.26	-152.59	129.11	-1,294.66	1,756.75	1,728.42	28.33	62.014		
4,200.00	4,188.66	3,649.31	3,347.41	15.71	29.10	-152.65	130.77	-1,334.23	1,809.20	1,780.14	29.06	62.258		
4,300.00	4,288.36	3,734.44	3,422.76	16.09	29.95	-152.71	132.42	-1,373.81	1,861.65	1,831.86	29.79	62.489		
4,400.00	4,388.07	3,819.56	3,498.11	16.47	30.79	-152.77	134.07	-1,413.38	1,914.11	1,883.58	30.52	62.708		
4,500.00	4,487.77	3,904.68	3,573.46	16.85	31.63	-152.83	135.72	-1,452.96	1,966.56	1,935.31	31.26	62.916		
4,600.00	4,587.48	3,989.81	3,648.80	17.23	32.48	-152.88	137.37	-1,492.53	2,019.02	1,987.03	31.99	63.113		
4,700.00	4,687.18	4,074.93	3,724.15	17.61	33.32	-152.93	139.03	-1,532.10	2,071.48	2,038.75	32.72	63.300		
4,800.00	4,786.89	4,160.05	3,799.50	17.99	34.17	-152.98	140.68	-1,571.68	2,123.93	2,090.47	33.46	63.478		
4,900.00	4,886.59	4,245.18	3,874.84	18.37	35.01	-153.02	142.33	-1,611.25	2,176.39	2,142.20	34.19	63.648		
5,000.00	4,986.30	4,330.30	3,950.19	18.75	35.86	-153.06	143.98	-1,650.83	2,228.85	2,193.92	34.93	63.810		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1													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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,086.01	4,415.42	4,025.54	19.13	36.70	-153.11	145.64	-1,690.40	2,281.31	2,245.65	35.67	63.964		
5,200.00	5,185.71	4,500.55	4,100.88	19.51	37.55	-153.14	147.29	-1,729.97	2,333.77	2,297.37	36.40	64.111		
5,300.00	5,285.42	4,585.67	4,176.23	19.89	38.39	-153.18	148.94	-1,769.55	2,386.24	2,349.10	37.14	64.252		
5,400.00	5,385.12	4,670.79	4,251.58	20.26	39.24	-153.22	150.59	-1,809.12	2,438.70	2,400.82	37.88	64.386		
5,500.00	5,484.83	4,755.92	4,326.92	20.64	40.08	-153.25	152.25	-1,848.70	2,491.16	2,452.55	38.61	64.515		
5,600.00	5,584.37	4,840.95	4,402.19	21.03	40.93	-114.77	153.90	-1,888.23	2,543.58	2,504.22	39.36	64.630		
5,700.00	5,681.71	4,924.37	4,476.03	21.43	41.76	-93.95	155.52	-1,927.01	2,595.12	2,555.00	40.12	64.689		
5,800.00	5,773.87	5,003.67	4,546.22	21.85	42.55	-84.69	157.06	-1,963.88	2,644.60	2,603.71	40.89	64.671		
5,900.00	5,858.06	5,076.45	4,610.64	22.29	43.27	-78.58	158.47	-1,997.71	2,691.15	2,649.46	41.69	64.551		
6,000.00	5,931.71	5,140.49	4,667.32	22.78	43.91	-74.02	159.71	-2,027.48	2,734.13	2,691.61	42.52	64.304		
6,100.00	5,992.59	5,193.84	4,714.55	23.33	44.44	-70.42	160.75	-2,052.29	2,773.09	2,729.70	43.39	63.909		
6,200.00	6,038.86	5,234.88	4,750.88	23.96	44.84	-67.49	161.54	-2,071.37	2,807.70	2,763.38	44.32	63.357		
6,300.00	6,069.09	5,262.38	4,775.22	24.69	45.12	-65.04	162.08	-2,084.15	2,837.63	2,792.34	45.29	62.654		
6,400.00	6,082.38	5,275.48	4,786.82	25.49	45.25	-62.99	162.33	-2,090.24	2,862.53	2,816.23	46.30	61.825		
6,500.00	6,083.00	5,277.79	4,788.86	26.37	45.27	-62.53	162.38	-2,091.32	2,884.41	2,837.05	47.35	60.916		
6,600.00	6,083.00	5,279.58	4,790.44	27.33	45.29	-62.57	162.41	-2,092.15	2,909.24	2,860.75	48.49	59.992		
6,700.00	6,083.00	5,281.36	4,792.02	28.37	45.31	-62.60	162.45	-2,092.98	2,937.28	2,887.57	49.71	59.089		
6,800.00	6,083.00	5,283.15	4,793.60	29.48	45.32	-62.64	162.48	-2,093.81	2,968.41	2,917.43	50.98	58.227		
6,900.00	6,083.00	5,284.93	4,795.18	30.66	45.34	-62.68	162.51	-2,094.64	3,002.56	2,950.27	52.29	57.424		
7,000.00	6,083.00	5,286.71	4,796.76	31.89	45.36	-62.71	162.55	-2,095.47	3,039.61	2,985.99	53.62	56.690		
7,100.00	6,083.00	5,288.50	4,798.34	33.17	45.38	-62.75	162.58	-2,096.29	3,079.46	3,024.51	54.96	56.032		
7,200.00	6,083.00	5,290.28	4,799.92	34.49	45.39	-62.79	162.62	-2,097.12	3,122.01	3,065.72	56.30	55.456		
7,300.00	6,083.00	5,292.07	4,801.50	35.85	45.41	-62.82	162.65	-2,097.95	3,167.15	3,109.52	57.62	54.962		
7,400.00	6,083.00	8,047.36	6,083.00	37.25	64.71	-90.00	1,734.13	-2,765.85	3,169.16	3,091.93	77.22	41.039		
7,500.00	6,083.00	8,147.36	6,083.00	38.67	65.37	-90.00	1,834.13	-2,765.51	3,169.16	3,089.20	79.96	39.634		
7,600.00	6,083.00	8,247.36	6,083.00	40.13	66.06	-90.00	1,934.13	-2,765.18	3,169.16	3,086.40	82.76	38.293		
7,700.00	6,083.00	8,347.36	6,083.00	41.61	66.79	-90.00	2,034.13	-2,764.84	3,169.16	3,083.55	85.62	37.016		
7,800.00	6,083.00	8,447.36	6,083.00	43.11	67.56	-90.00	2,134.13	-2,764.50	3,169.16	3,080.64	88.52	35.801		
7,900.00	6,083.00	8,547.36	6,083.00	44.63	68.36	-90.00	2,234.13	-2,764.17	3,169.16	3,077.69	91.47	34.647		
8,000.00	6,083.00	8,647.36	6,083.00	46.17	69.21	-90.00	2,334.13	-2,763.83	3,169.17	3,074.71	94.46	33.550		
8,100.00	6,083.00	8,747.36	6,083.00	47.73	70.09	-90.00	2,434.13	-2,763.50	3,169.17	3,071.68	97.49	32.508		
8,200.00	6,083.00	8,847.36	6,083.00	49.30	71.01	-90.00	2,534.12	-2,763.16	3,169.17	3,068.62	100.55	31.518		
8,300.00	6,083.00	8,947.36	6,083.00	50.88	71.96	-90.00	2,634.12	-2,762.83	3,169.17	3,065.53	103.64	30.578		
8,400.00	6,083.00	9,047.36	6,083.00	52.48	72.95	-90.00	2,734.12	-2,762.49	3,169.17	3,062.41	106.76	29.684		
8,500.00	6,083.00	9,147.36	6,083.00	54.09	73.97	-90.00	2,834.12	-2,762.15	3,169.17	3,059.27	109.91	28.835		
8,600.00	6,083.00	9,247.36	6,083.00	55.70	75.02	-90.00	2,934.12	-2,761.82	3,169.18	3,056.10	113.08	28.026		
8,700.00	6,083.00	9,347.36	6,083.00	57.33	76.10	-90.00	3,034.12	-2,761.48	3,169.18	3,052.91	116.27	27.257		
8,800.00	6,083.00	9,447.36	6,083.00	58.96	77.22	-90.00	3,134.12	-2,761.15	3,169.18	3,049.70	119.48	26.525		
8,900.00	6,083.00	9,547.36	6,083.00	60.61	78.36	-90.00	3,234.12	-2,760.81	3,169.18	3,046.47	122.71	25.826		
9,000.00	6,083.00	9,647.36	6,083.00	62.26	79.53	-90.00	3,334.12	-2,760.47	3,169.18	3,043.22	125.96	25.161		
9,100.00	6,083.00	9,747.36	6,083.00	63.91	80.72	-90.00	3,434.12	-2,760.14	3,169.18	3,039.96	129.22	24.525		
9,200.00	6,083.00	9,847.36	6,083.00	65.58	81.94	-90.00	3,534.12	-2,759.80	3,169.18	3,036.69	132.50	23.919		
9,300.00	6,083.00	9,947.36	6,083.00	67.24	83.18	-90.00	3,634.12	-2,759.47	3,169.19	3,033.40	135.79	23.339		
9,400.00	6,083.00	10,047.36	6,083.00	68.92	84.45	-90.00	3,734.12	-2,759.13	3,169.19	3,030.10	139.09	22.785		
9,500.00	6,083.00	10,147.36	6,083.00	70.60	85.73	-90.00	3,834.12	-2,758.79	3,169.19	3,026.78	142.41	22.254		
9,600.00	6,083.00	10,247.36	6,083.00	72.28	87.04	-90.00	3,934.12	-2,758.46	3,169.19	3,023.46	145.73	21.747		
9,700.00	6,083.00	10,347.36	6,083.00	73.97	88.37	-90.00	4,034.12	-2,758.12	3,169.19	3,020.12	149.07	21.260		
9,800.00	6,083.00	10,447.36	6,083.00	75.66	89.71	-90.00	4,134.12	-2,757.79	3,169.19	3,016.78	152.41	20.793		
9,900.00	6,083.00	10,547.36	6,083.00	77.35	91.08	-90.00	4,234.12	-2,757.45	3,169.20	3,013.43	155.77	20.345		
10,000.00	6,083.00	10,647.36	6,083.00	79.05	92.46	-90.00	4,334.11	-2,757.11	3,169.20	3,010.06	159.13	19.915		
10,100.00	6,083.00	10,747.36	6,083.00	80.75	93.85	-90.00	4,434.11	-2,756.78	3,169.20	3,006.70	162.50	19.502		
10,200.00	6,083.00	10,847.36	6,083.00	82.46	95.26	-90.00	4,534.11	-2,756.44	3,169.20	3,003.32	165.88	19.105		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1													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		
10,300.00	6,083.00	10,947.36	6,083.00	84.17	96.69	-90.00	4,634.11	-2,756.11	3,169.20	2,999.93	169.27	18.723		
10,400.00	6,083.00	11,047.36	6,083.00	85.88	98.12	-90.00	4,734.11	-2,755.77	3,169.20	2,996.54	172.66	18.355		
10,500.00	6,083.00	11,147.36	6,083.00	87.59	99.57	-90.00	4,834.11	-2,755.44	3,169.20	2,993.15	176.06	18.001		
10,600.00	6,083.00	11,247.36	6,083.00	89.30	101.04	-90.00	4,934.11	-2,755.10	3,169.21	2,989.75	179.46	17.660		
10,700.00	6,083.00	11,347.36	6,083.00	91.02	102.51	-90.00	5,034.11	-2,754.76	3,169.21	2,986.34	182.87	17.331		
10,800.00	6,083.00	11,447.36	6,083.00	92.74	104.00	-90.00	5,134.11	-2,754.43	3,169.21	2,982.93	186.28	17.013		
10,900.00	6,083.00	11,547.36	6,083.00	94.46	105.49	-90.00	5,234.11	-2,754.09	3,169.21	2,979.51	189.70	16.706		
11,000.00	6,083.00	11,647.36	6,083.00	96.19	107.00	-90.00	5,334.11	-2,753.76	3,169.21	2,976.09	193.13	16.410		
11,100.00	6,083.00	11,747.36	6,083.00	97.91	108.51	-90.00	5,434.11	-2,753.42	3,169.21	2,972.66	196.55	16.124		
11,200.00	6,083.00	11,847.36	6,083.00	99.64	110.04	-90.00	5,534.11	-2,753.08	3,169.22	2,969.23	199.99	15.847		
11,300.00	6,083.00	11,947.36	6,083.00	101.37	111.57	-90.00	5,634.11	-2,752.75	3,169.22	2,965.80	203.42	15.580		
11,400.00	6,083.00	12,047.36	6,083.00	103.10	113.11	-90.00	5,734.11	-2,752.41	3,169.22	2,962.36	206.86	15.320		
11,500.00	6,083.00	12,147.36	6,083.00	104.83	114.66	-90.00	5,834.11	-2,752.08	3,169.22	2,958.91	210.31	15.070		
11,600.00	6,083.00	12,247.36	6,083.00	106.56	116.21	-90.00	5,934.11	-2,751.74	3,169.22	2,955.47	213.75	14.827		
11,700.00	6,083.00	12,347.36	6,083.00	108.30	117.78	-90.00	6,034.10	-2,751.40	3,169.22	2,952.02	217.20	14.591		
11,800.00	6,083.00	12,447.36	6,083.00	110.03	119.35	-90.00	6,134.10	-2,751.07	3,169.22	2,948.57	220.66	14.363		
11,900.00	6,083.00	12,547.36	6,083.00	111.77	120.92	-90.00	6,234.10	-2,750.73	3,169.23	2,945.11	224.11	14.141		
12,000.00	6,083.00	12,647.36	6,083.00	113.51	122.50	-90.00	6,334.10	-2,750.40	3,169.23	2,941.66	227.57	13.926		
12,100.00	6,083.00	12,747.36	6,083.00	115.24	124.09	-90.00	6,434.10	-2,750.06	3,169.23	2,938.20	231.03	13.718		
12,200.00	6,083.00	12,847.36	6,083.00	116.98	125.69	-90.00	6,534.10	-2,749.73	3,169.23	2,934.73	234.50	13.515		
12,300.00	6,083.00	12,947.36	6,083.00	118.73	127.29	-90.00	6,634.10	-2,749.39	3,169.23	2,931.27	237.96	13.318		
12,400.00	6,083.00	13,047.36	6,083.00	120.47	128.89	-90.00	6,734.10	-2,749.05	3,169.23	2,927.80	241.43	13.127		
12,500.00	6,083.00	13,147.36	6,083.00	122.21	130.50	-90.00	6,834.10	-2,748.72	3,169.24	2,924.33	244.90	12.941		
12,600.00	6,083.00	13,152.35	6,083.00	123.95	130.58	-90.00	6,839.08	-2,748.70	3,170.66	2,922.95	247.71	12.800		
12,700.00	6,083.00	13,152.35	6,083.00	125.70	130.58	-90.00	6,839.08	-2,748.70	3,175.23	2,924.97	250.27	12.687		
12,800.00	6,083.00	13,152.35	6,083.00	127.44	130.58	-90.00	6,839.08	-2,748.70	3,182.94	2,930.36	252.58	12.602		
12,900.00	6,083.00	13,152.35	6,083.00	129.19	130.58	-90.00	6,839.08	-2,748.70	3,193.76	2,939.11	254.66	12.542		
13,000.00	6,083.00	13,152.35	6,083.00	130.94	130.58	-90.00	6,839.08	-2,748.70	3,207.67	2,951.18	256.49	12.506		
13,100.00	6,083.00	13,152.35	6,083.00	132.68	130.58	-90.00	6,839.08	-2,748.70	3,224.62	2,966.54	258.08	12.495 SF		
13,200.00	6,083.00	13,152.35	6,083.00	134.43	130.58	-90.00	6,839.08	-2,748.70	3,244.56	2,985.13	259.43	12.507		
13,300.00	6,083.00	13,152.35	6,083.00	136.18	130.58	-90.00	6,839.08	-2,748.70	3,267.44	3,006.90	260.54	12.541		
13,400.00	6,083.00	13,152.35	6,083.00	137.93	130.58	-90.00	6,839.08	-2,748.70	3,293.21	3,031.77	261.43	12.597		
13,500.00	6,083.00	13,152.35	6,083.00	139.68	130.58	-90.00	6,839.08	-2,748.70	3,321.78	3,059.68	262.10	12.674		
13,600.00	6,083.00	13,152.35	6,083.00	141.43	130.58	-90.00	6,839.08	-2,748.70	3,353.09	3,090.54	262.55	12.771		
13,700.00	6,083.00	13,152.35	6,083.00	143.18	130.58	-90.00	6,839.08	-2,748.70	3,387.07	3,124.26	262.81	12.888		
13,800.00	6,083.00	13,152.35	6,083.00	144.94	130.58	-90.00	6,839.08	-2,748.70	3,423.63	3,160.76	262.87	13.024		
13,900.00	6,083.00	13,152.35	6,083.00	146.69	130.58	-90.00	6,839.08	-2,748.70	3,462.70	3,199.94	262.76	13.178		
14,000.00	6,083.00	13,152.35	6,083.00	148.44	130.58	-90.00	6,839.08	-2,748.70	3,504.18	3,241.70	262.48	13.350		
14,100.00	6,083.00	13,152.35	6,083.00	150.20	130.58	-90.00	6,839.08	-2,748.70	3,548.00	3,285.96	262.04	13.540		
14,200.00	6,083.00	13,152.35	6,083.00	151.95	130.58	-90.00	6,839.08	-2,748.70	3,594.07	3,332.60	261.47	13.746		
14,300.00	6,083.00	13,152.35	6,083.00	153.70	130.58	-90.00	6,839.08	-2,748.70	3,642.30	3,381.53	260.76	13.968		
14,400.00	6,083.00	13,152.35	6,083.00	155.46	130.58	-90.00	6,839.08	-2,748.70	3,692.61	3,432.66	259.94	14.205		
14,500.00	6,083.00	13,152.35	6,083.00	157.21	130.58	-90.00	6,839.08	-2,748.70	3,744.91	3,485.89	259.02	14.458		
14,600.00	6,083.00	13,152.35	6,083.00	158.97	130.58	-90.00	6,839.08	-2,748.70	3,799.13	3,541.13	257.99	14.726		
14,700.00	6,083.00	13,152.35	6,083.00	160.73	130.58	-90.00	6,839.08	-2,748.70	3,855.18	3,598.29	256.89	15.007		
14,800.00	6,083.00	13,152.35	6,083.00	162.48	130.58	-90.00	6,839.08	-2,748.70	3,912.98	3,657.27	255.71	15.302		
14,900.00	6,083.00	13,152.35	6,083.00	164.24	130.58	-90.00	6,839.08	-2,748.70	3,972.46	3,717.99	254.47	15.611		
15,000.00	6,083.00	13,152.35	6,083.00	166.00	130.58	-90.00	6,839.08	-2,748.70	4,033.54	3,780.37	253.17	15.932		
15,100.00	6,083.00	13,152.35	6,083.00	167.75	130.58	-90.00	6,839.08	-2,748.70	4,096.15	3,844.32	251.83	16.266		
15,200.00	6,083.00	13,152.35	6,083.00	169.51	130.58	-90.00	6,839.08	-2,748.70	4,160.22	3,909.78	250.44	16.612		
15,300.00	6,083.00	13,152.35	6,083.00	171.27	130.58	-90.00	6,839.08	-2,748.70	4,225.69	3,976.67	249.02	16.969		
15,400.00	6,083.00	13,152.35	6,083.00	173.03	130.58	-90.00	6,839.08	-2,748.70	4,292.49	4,044.91	247.58	17.338		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	13,152.35	6,083.00	174.79	130.58	-90.00	6,839.08	-2,748.70	4,360.56	4,114.44	246.12	17.717	
15,600.00	6,083.00	13,152.35	6,083.00	176.55	130.58	-90.00	6,839.08	-2,748.70	4,429.84	4,185.20	244.64	18.108	
15,700.00	6,083.00	13,152.35	6,083.00	178.31	130.58	-90.00	6,839.08	-2,748.70	4,500.28	4,257.13	243.15	18.508	
15,800.00	6,083.00	13,152.35	6,083.00	180.07	130.58	-90.00	6,839.08	-2,748.70	4,571.82	4,330.16	241.66	18.919	
15,900.00	6,083.00	13,152.35	6,083.00	181.83	130.58	-90.00	6,839.08	-2,748.70	4,644.41	4,404.25	240.16	19.339	
16,000.00	6,083.00	13,152.35	6,083.00	183.59	130.58	-90.00	6,839.08	-2,748.70	4,718.00	4,479.34	238.66	19.768	
16,028.23	6,083.00	13,152.35	6,083.00	184.08	130.58	-90.00	6,839.08	-2,748.70	4,738.95	4,500.71	238.24	19.891	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL 2		Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG, 1665-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	1.00	1.00	0.00	0.00	0.26	60.85	0.28	60.85							
100.00	100.00	101.51	101.50	0.27	0.15	-0.13	60.43	-0.14	60.43	60.01	0.42	144.255				
200.00	200.00	201.67	201.65	0.63	0.43	-1.13	59.34	-1.17	59.36	58.30	1.06	56.024				
299.41	299.39	299.65	299.62	0.98	0.78	-67.59	59.07	-2.39	58.45	56.69	1.76	33.218	CC			
300.00	299.98	300.22	300.20	0.98	0.78	-67.61	59.08	-2.40	58.45	56.68	1.76	33.141	ES			
400.00	399.84	398.02	397.93	1.34	1.13	-73.89	61.88	-4.43	59.83	57.36	2.47	24.267				
500.00	499.55	495.00	494.67	1.71	1.47	-81.80	67.96	-7.43	65.10	61.93	3.18	20.503				
600.00	599.25	593.07	592.25	2.08	1.83	-89.19	76.30	-12.35	74.32	70.43	3.89	19.084				
700.00	698.96	690.04	688.48	2.45	2.21	-95.95	85.61	-19.84	86.88	82.27	4.61	18.840				
800.00	798.67	787.78	785.16	2.83	2.61	-103.62	93.27	-31.85	101.89	96.56	5.34	19.098				
900.00	898.37	883.49	879.35	3.21	3.01	-111.93	97.38	-48.24	119.47	113.44	6.03	19.798				
1,000.00	998.08	976.07	969.74	3.58	3.43	-119.44	99.65	-68.10	141.51	134.80	6.71	21.092				
1,100.00	1,097.78	1,066.29	1,056.98	3.96	3.88	-125.81	100.68	-91.08	168.37	161.02	7.36	22.883				
1,200.00	1,197.49	1,154.12	1,141.12	4.34	4.35	-130.68	101.80	-116.22	199.74	191.76	7.98	25.035				
1,300.00	1,297.19	1,241.51	1,223.93	4.72	4.86	-134.65	102.38	-144.12	235.11	226.50	8.61	27.314				
1,400.00	1,396.90	1,331.31	1,308.61	5.10	5.43	-137.72	103.28	-173.99	272.66	263.39	9.27	29.408				
1,500.00	1,496.60	1,422.49	1,394.44	5.47	6.02	-140.20	103.73	-204.76	311.12	301.16	9.96	31.243				
1,600.00	1,596.31	1,514.97	1,481.55	5.85	6.63	-142.05	104.87	-235.80	349.91	339.25	10.67	32.809				
1,700.00	1,696.02	1,609.36	1,570.65	6.23	7.26	-143.41	106.84	-266.91	388.50	377.11	11.40	34.091				
1,800.00	1,795.72	1,702.78	1,659.01	6.61	7.88	-144.51	108.68	-297.17	426.67	414.56	12.12	35.208				
1,900.00	1,895.43	1,786.37	1,737.90	6.99	8.44	-145.37	110.23	-324.74	465.54	452.79	12.75	36.522				
2,000.00	1,995.13	1,877.79	1,823.83	7.37	9.08	-146.20	111.77	-355.92	505.53	492.08	13.46	37.561				
2,100.00	2,094.84	1,969.22	1,909.76	7.75	9.73	-146.91	113.32	-387.10	545.61	531.44	14.17	38.495				
2,200.00	2,194.54	2,060.64	1,995.69	8.13	10.37	-147.52	114.87	-418.28	585.75	570.86	14.89	39.338				
2,300.00	2,294.25	2,152.06	2,081.61	8.51	11.02	-148.05	116.41	-449.46	625.93	610.32	15.61	40.102				
2,400.00	2,393.95	2,243.49	2,167.54	8.89	11.67	-148.52	117.96	-480.65	666.16	649.83	16.33	40.798				
2,500.00	2,493.66	2,334.91	2,253.47	9.26	12.33	-148.94	119.50	-511.83	706.41	689.36	17.05	41.433				
2,600.00	2,593.37	2,426.34	2,339.40	9.64	12.98	-149.31	121.05	-543.01	746.70	728.93	17.77	42.016				
2,700.00	2,693.07	2,517.76	2,425.33	10.02	13.64	-149.64	122.60	-574.19	787.01	768.51	18.50	42.551				
2,800.00	2,792.78	2,609.19	2,511.26	10.40	14.29	-149.94	124.14	-605.37	827.34	808.12	19.22	43.046				
2,900.00	2,892.48	2,700.61	2,597.19	10.78	14.95	-150.21	125.69	-636.55	867.69	847.74	19.95	43.503				
3,000.00	2,992.19	2,792.04	2,683.12	11.16	15.61	-150.46	127.23	-667.73	908.05	887.38	20.67	43.927				
3,100.00	3,091.89	2,883.46	2,769.05	11.54	16.27	-150.69	128.78	-698.91	948.42	927.03	21.40	44.322				
3,200.00	3,191.60	2,974.88	2,854.98	11.92	16.93	-150.90	130.33	-730.09	988.81	966.69	22.13	44.690				
3,300.00	3,291.31	3,066.31	2,940.90	12.30	17.59	-151.09	131.87	-761.28	1,029.21	1,006.35	22.85	45.033				
3,400.00	3,391.01	3,157.73	3,026.83	12.68	18.25	-151.27	133.42	-792.46	1,069.61	1,046.03	23.58	45.355				
3,500.00	3,490.72	3,249.16	3,112.76	13.06	18.91	-151.44	134.96	-823.64	1,110.03	1,085.72	24.31	45.657				
3,600.00	3,590.42	3,340.58	3,198.69	13.44	19.57	-151.59	136.51	-854.82	1,150.45	1,125.41	25.04	45.941				
3,700.00	3,690.13	3,432.01	3,284.62	13.82	20.24	-151.73	138.05	-886.00	1,190.88	1,165.11	25.77	46.208				
3,800.00	3,789.83	3,523.43	3,370.55	14.19	20.90	-151.87	139.60	-917.18	1,231.31	1,204.81	26.50	46.459				
3,900.00	3,889.54	3,614.86	3,456.48	14.57	21.56	-151.99	141.15	-948.36	1,271.75	1,244.52	27.23	46.697				
4,000.00	3,989.24	3,706.28	3,542.41	14.95	22.22	-152.11	142.69	-979.54	1,312.19	1,284.23	27.97	46.922				
4,100.00	4,088.95	3,797.70	3,628.34	15.33	22.89	-152.22	144.24	-1,010.72	1,352.64	1,323.95	28.70	47.135				
4,200.00	4,188.66	3,889.13	3,714.26	15.71	23.55	-152.32	145.78	-1,041.91	1,393.09	1,363.66	29.43	47.336				
4,300.00	4,288.36	3,980.55	3,800.19	16.09	24.22	-152.42	147.33	-1,073.09	1,433.55	1,403.39	30.16	47.528				
4,400.00	4,388.07	4,071.98	3,886.12	16.47	24.88	-152.52	148.88	-1,104.27	1,474.01	1,443.11	30.90	47.710				
4,500.00	4,487.77	4,163.40	3,972.05	16.85	25.54	-152.60	150.42	-1,135.45	1,514.47	1,482.84	31.63	47.883				
4,600.00	4,587.48	4,254.83	4,057.98	17.23	26.21	-152.69	151.97	-1,166.63	1,554.94	1,522.57	32.36	48.048				
4,700.00	4,687.18	4,346.25	4,143.91	17.61	26.87	-152.77	153.51	-1,197.81	1,595.40	1,562.31	33.10	48.205				
4,800.00	4,786.89	4,437.68	4,229.84	17.99	27.54	-152.84	155.06	-1,228.99	1,635.87	1,602.04	33.83	48.356				
4,900.00	4,886.59	4,529.10	4,315.77	18.37	28.20	-152.91	156.61	-1,260.17	1,676.35	1,641.78	34.56	48.499				
5,000.00	4,986.30	4,620.53	4,401.70	18.75	28.87	-152.98	158.15	-1,291.35	1,716.82	1,681.52	35.30	48.636				

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG, 1665-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	5,086.01	4,711.95	4,487.63	19.13	29.53	-153.05	159.70	-1,322.54	1,757.30	1,721.26	36.03	48.767		
5,200.00	5,185.71	4,803.37	4,573.55	19.51	30.20	-153.11	161.24	-1,353.72	1,797.77	1,761.00	36.77	48.893		
5,300.00	5,285.42	4,894.80	4,659.48	19.89	30.86	-153.17	162.79	-1,384.90	1,838.25	1,800.75	37.51	49.013		
5,400.00	5,385.12	4,986.22	4,745.41	20.26	31.53	-153.22	164.34	-1,416.08	1,878.73	1,840.49	38.24	49.128		
5,500.00	5,484.83	5,077.65	4,831.34	20.64	32.20	-153.28	165.88	-1,447.26	1,919.22	1,880.24	38.98	49.239		
5,600.00	5,584.37	5,168.96	4,917.17	21.03	32.86	-115.76	167.43	-1,478.40	1,959.66	1,919.94	39.72	49.339		
5,700.00	5,681.71	5,258.50	5,001.32	21.43	33.51	-96.70	168.94	-1,508.94	1,999.47	1,958.99	40.48	49.395		
5,800.00	5,773.87	5,343.55	5,081.26	21.85	34.13	-89.09	170.38	-1,537.95	2,037.93	1,996.67	41.26	49.394		
5,900.00	5,858.06	5,421.54	5,154.57	22.29	34.70	-84.43	171.70	-1,564.55	2,074.68	2,032.62	42.06	49.327		
6,000.00	5,931.71	5,490.10	5,219.00	22.78	35.20	-81.03	172.86	-1,587.93	2,109.62	2,066.73	42.89	49.185		
6,100.00	5,992.59	5,547.14	5,272.61	23.33	35.62	-78.25	173.82	-1,607.38	2,142.81	2,099.05	43.76	48.965		
6,200.00	6,038.86	5,590.93	5,313.77	23.96	35.93	-75.76	174.56	-1,622.32	2,174.30	2,129.63	44.67	48.671		
6,300.00	6,069.09	5,620.14	5,341.22	24.69	36.15	-73.35	175.06	-1,632.28	2,204.05	2,158.44	45.62	48.316		
6,400.00	6,082.38	5,633.88	5,354.13	25.49	36.25	-70.94	175.29	-1,636.97	2,231.83	2,185.26	46.57	47.922		
6,500.00	6,083.00	5,636.02	5,356.15	26.37	36.26	-70.33	175.32	-1,637.70	2,259.01	2,211.47	47.54	47.520		
6,600.00	6,083.00	5,637.59	5,357.63	27.33	36.27	-70.37	175.35	-1,638.23	2,290.01	2,241.44	48.57	47.151		
6,700.00	6,083.00	7,015.21	6,083.00	28.37	44.23	-89.98	1,031.28	-1,898.60	2,299.54	2,241.61	57.92	39.699		
6,800.00	6,083.00	7,115.21	6,083.00	29.48	44.81	-89.98	1,131.28	-1,898.26	2,299.54	2,239.45	60.08	38.273		
6,900.00	6,083.00	7,215.21	6,083.00	30.66	45.45	-89.98	1,231.28	-1,897.92	2,299.53	2,237.17	62.37	36.870		
7,000.00	6,083.00	7,315.21	6,083.00	31.89	46.15	-89.98	1,331.28	-1,897.58	2,299.53	2,234.77	64.77	35.505		
7,100.00	6,083.00	7,415.21	6,083.00	33.17	46.91	-89.98	1,431.27	-1,897.24	2,299.53	2,232.27	67.27	34.185		
7,200.00	6,083.00	7,515.21	6,083.00	34.49	47.72	-89.98	1,531.27	-1,896.90	2,299.53	2,229.67	69.86	32.917		
7,300.00	6,083.00	7,615.21	6,083.00	35.85	48.59	-89.98	1,631.27	-1,896.56	2,299.53	2,227.00	72.53	31.705		
7,400.00	6,083.00	7,715.21	6,083.00	37.25	49.51	-89.98	1,731.27	-1,896.22	2,299.53	2,224.26	75.27	30.549		
7,500.00	6,083.00	7,815.21	6,083.00	38.67	50.49	-89.98	1,831.27	-1,895.89	2,299.53	2,221.45	78.08	29.450		
7,600.00	6,083.00	7,915.21	6,083.00	40.13	51.50	-89.98	1,931.27	-1,895.55	2,299.53	2,218.58	80.95	28.407		
7,700.00	6,083.00	8,015.21	6,083.00	41.61	52.57	-89.98	2,031.27	-1,895.21	2,299.52	2,215.66	83.87	27.419		
7,800.00	6,083.00	8,115.21	6,083.00	43.11	53.68	-89.98	2,131.27	-1,894.87	2,299.52	2,212.69	86.83	26.483		
7,900.00	6,083.00	8,215.21	6,083.00	44.63	54.82	-89.98	2,231.27	-1,894.53	2,299.52	2,209.68	89.84	25.596		
8,000.00	6,083.00	8,315.21	6,083.00	46.17	56.00	-89.98	2,331.27	-1,894.19	2,299.52	2,206.64	92.88	24.757		
8,100.00	6,083.00	8,415.21	6,083.00	47.73	57.22	-89.98	2,431.27	-1,893.85	2,299.52	2,203.56	95.96	23.962		
8,200.00	6,083.00	8,515.21	6,083.00	49.30	58.47	-89.98	2,531.27	-1,893.51	2,299.52	2,200.44	99.08	23.210		
8,300.00	6,083.00	8,615.21	6,083.00	50.88	59.75	-89.98	2,631.27	-1,893.18	2,299.52	2,197.30	102.21	22.497		
8,400.00	6,083.00	8,715.21	6,083.00	52.48	61.06	-89.98	2,731.27	-1,892.84	2,299.52	2,194.14	105.38	21.821		
8,500.00	6,083.00	8,815.21	6,083.00	54.09	62.40	-89.98	2,831.27	-1,892.50	2,299.51	2,190.95	108.57	21.180		
8,600.00	6,083.00	8,915.21	6,083.00	55.70	63.75	-89.98	2,931.27	-1,892.16	2,299.51	2,187.73	111.78	20.572		
8,700.00	6,083.00	9,015.21	6,083.00	57.33	65.13	-89.98	3,031.27	-1,891.82	2,299.51	2,184.50	115.01	19.994		
8,800.00	6,083.00	9,115.21	6,083.00	58.96	66.54	-89.98	3,131.26	-1,891.48	2,299.51	2,181.25	118.26	19.445		
8,900.00	6,083.00	9,215.21	6,083.00	60.61	67.96	-89.98	3,231.26	-1,891.14	2,299.51	2,177.99	121.52	18.922		
9,000.00	6,083.00	9,315.21	6,083.00	62.26	69.40	-89.98	3,331.26	-1,890.81	2,299.51	2,174.70	124.80	18.425		
9,100.00	6,083.00	9,415.21	6,083.00	63.91	70.85	-89.98	3,431.26	-1,890.47	2,299.51	2,171.41	128.10	17.951		
9,200.00	6,083.00	9,515.21	6,083.00	65.58	72.33	-89.98	3,531.26	-1,890.13	2,299.51	2,168.10	131.41	17.499		
9,300.00	6,083.00	9,615.21	6,083.00	67.24	73.81	-89.98	3,631.26	-1,889.79	2,299.50	2,164.78	134.73	17.068		
9,400.00	6,083.00	9,715.21	6,083.00	68.92	75.31	-89.98	3,731.26	-1,889.45	2,299.50	2,161.44	138.06	16.656		
9,500.00	6,083.00	9,815.21	6,083.00	70.60	76.83	-89.98	3,831.26	-1,889.11	2,299.50	2,158.10	141.40	16.262		
9,600.00	6,083.00	9,915.21	6,083.00	72.28	78.35	-89.98	3,931.26	-1,888.77	2,299.50	2,154.75	144.75	15.886		
9,700.00	6,083.00	10,015.21	6,083.00	73.97	79.89	-89.98	4,031.26	-1,888.43	2,299.50	2,151.39	148.11	15.525		
9,800.00	6,083.00	10,115.21	6,083.00	75.66	81.43	-89.98	4,131.26	-1,888.10	2,299.50	2,148.01	151.48	15.180		
9,900.00	6,083.00	10,215.21	6,083.00	77.35	82.99	-89.98	4,231.26	-1,887.76	2,299.50	2,144.64	154.86	14.849		
10,000.00	6,083.00	10,315.21	6,083.00	79.05	84.56	-89.98	4,331.26	-1,887.42	2,299.50	2,141.25	158.25	14.531		
10,100.00	6,083.00	10,415.21	6,083.00	80.75	86.13	-89.98	4,431.26	-1,887.08	2,299.49	2,137.86	161.64	14.226		
10,200.00	6,083.00	10,515.21	6,083.00	82.46	87.71	-89.98	4,531.26	-1,886.74	2,299.49	2,134.46	165.04	13.933		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG, 1665-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		
10,300.00	6,083.00	10,615.21	6,083.00	84.17	89.30	-89.98	4,631.26	-1,886.40	2,299.49	2,131.05	168.44	13.652		
10,400.00	6,083.00	10,715.21	6,083.00	85.88	90.90	-89.98	4,731.26	-1,886.06	2,299.49	2,127.64	171.85	13.381		
10,500.00	6,083.00	10,815.21	6,083.00	87.59	92.51	-89.98	4,831.26	-1,885.72	2,299.49	2,124.22	175.27	13.120		
10,600.00	6,083.00	10,915.21	6,083.00	89.30	94.12	-89.98	4,931.25	-1,885.39	2,299.49	2,120.80	178.69	12.869		
10,700.00	6,083.00	11,015.21	6,083.00	91.02	95.73	-89.98	5,031.25	-1,885.05	2,299.49	2,117.37	182.11	12.627		
10,800.00	6,083.00	11,115.21	6,083.00	92.74	97.36	-89.98	5,131.25	-1,884.71	2,299.48	2,113.94	185.54	12.393		
10,900.00	6,083.00	11,215.21	6,083.00	94.46	98.99	-89.98	5,231.25	-1,884.37	2,299.48	2,110.51	188.98	12.168		
11,000.00	6,083.00	11,315.21	6,083.00	96.19	100.62	-89.98	5,331.25	-1,884.03	2,299.48	2,107.07	192.42	11.951		
11,100.00	6,083.00	11,415.21	6,083.00	97.91	102.26	-89.98	5,431.25	-1,883.69	2,299.48	2,103.62	195.86	11.740		
11,200.00	6,083.00	11,515.21	6,083.00	99.64	103.90	-89.98	5,531.25	-1,883.35	2,299.48	2,100.17	199.31	11.537		
11,300.00	6,083.00	11,615.21	6,083.00	101.37	105.55	-89.98	5,631.25	-1,883.01	2,299.48	2,096.72	202.76	11.341		
11,400.00	6,083.00	11,715.21	6,083.00	103.10	107.20	-89.98	5,731.25	-1,882.68	2,299.48	2,093.27	206.21	11.151		
11,500.00	6,083.00	11,815.21	6,083.00	104.83	108.86	-89.98	5,831.25	-1,882.34	2,299.48	2,089.81	209.66	10.967		
11,600.00	6,083.00	11,915.21	6,083.00	106.56	110.52	-89.98	5,931.25	-1,882.00	2,299.47	2,086.35	213.12	10.789		
11,700.00	6,083.00	12,015.21	6,083.00	108.30	112.18	-89.98	6,031.25	-1,881.66	2,299.47	2,082.89	216.59	10.617		
11,800.00	6,083.00	12,115.21	6,083.00	110.03	113.85	-89.98	6,131.25	-1,881.32	2,299.47	2,079.42	220.05	10.450		
11,900.00	6,083.00	12,215.21	6,083.00	111.77	115.52	-89.98	6,231.25	-1,880.98	2,299.47	2,075.95	223.52	10.288		
12,000.00	6,083.00	12,315.21	6,083.00	113.51	117.19	-89.98	6,331.25	-1,880.64	2,299.47	2,072.48	226.99	10.130		
12,100.00	6,083.00	12,415.21	6,083.00	115.24	118.87	-89.98	6,431.25	-1,880.30	2,299.47	2,069.01	230.46	9.978		
12,200.00	6,083.00	12,515.21	6,083.00	116.98	120.55	-89.98	6,531.25	-1,879.97	2,299.47	2,065.53	233.94	9.829		
12,300.00	6,083.00	12,615.21	6,083.00	118.73	122.23	-89.98	6,631.24	-1,879.63	2,299.47	2,062.05	237.41	9.686		
12,400.00	6,083.00	12,715.21	6,083.00	120.47	123.91	-89.98	6,731.24	-1,879.29	2,299.46	2,058.57	240.89	9.546		
12,500.00	6,083.00	12,815.21	6,083.00	122.21	125.60	-89.98	6,831.24	-1,878.95	2,299.46	2,055.09	244.37	9.410		
12,600.00	6,083.00	12,915.21	6,083.00	123.95	127.29	-89.98	6,931.24	-1,878.61	2,299.46	2,051.61	247.85	9.277		
12,700.00	6,083.00	13,015.21	6,083.00	125.70	128.98	-89.98	7,031.24	-1,878.27	2,299.46	2,048.12	251.34	9.149		
12,800.00	6,083.00	13,115.21	6,083.00	127.44	130.68	-89.98	7,131.24	-1,877.93	2,299.46	2,044.63	254.83	9.024		
12,900.00	6,083.00	13,215.21	6,083.00	129.19	132.37	-89.98	7,231.24	-1,877.59	2,299.46	2,041.14	258.31	8.902		
13,000.00	6,083.00	13,315.21	6,083.00	130.94	134.07	-89.98	7,331.24	-1,877.26	2,299.46	2,037.65	261.80	8.783		
13,100.00	6,083.00	13,415.21	6,083.00	132.68	135.77	-89.98	7,431.24	-1,876.92	2,299.46	2,034.16	265.29	8.668		
13,200.00	6,083.00	13,515.21	6,083.00	134.43	137.48	-89.98	7,531.24	-1,876.58	2,299.45	2,030.67	268.79	8.555		
13,300.00	6,083.00	13,615.21	6,083.00	136.18	139.18	-89.98	7,631.24	-1,876.24	2,299.45	2,027.17	272.28	8.445		
13,400.00	6,083.00	13,715.21	6,083.00	137.93	140.89	-89.98	7,731.24	-1,875.90	2,299.45	2,023.68	275.78	8.338		
13,500.00	6,083.00	13,815.21	6,083.00	139.68	142.59	-89.98	7,831.24	-1,875.56	2,299.45	2,020.18	279.27	8.234		
13,600.00	6,083.00	13,915.21	6,083.00	141.43	144.30	-89.98	7,931.24	-1,875.22	2,299.45	2,016.68	282.77	8.132		
13,700.00	6,083.00	14,015.21	6,083.00	143.18	146.02	-89.98	8,031.24	-1,874.89	2,299.45	2,013.18	286.27	8.032		
13,800.00	6,083.00	14,115.21	6,083.00	144.94	147.73	-89.98	8,131.24	-1,874.55	2,299.45	2,009.68	289.77	7.935		
13,900.00	6,083.00	14,215.21	6,083.00	146.69	149.44	-89.98	8,231.24	-1,874.21	2,299.45	2,006.17	293.27	7.841		
14,000.00	6,083.00	14,315.21	6,083.00	148.44	151.16	-89.98	8,331.24	-1,873.87	2,299.44	2,002.67	296.77	7.748		
14,100.00	6,083.00	14,415.21	6,083.00	150.20	152.87	-89.98	8,431.23	-1,873.53	2,299.44	1,999.16	300.28	7.658		
14,200.00	6,083.00	14,515.21	6,083.00	151.95	154.59	-89.98	8,531.23	-1,873.19	2,299.44	1,995.66	303.78	7.569		
14,300.00	6,083.00	14,615.21	6,083.00	153.70	156.31	-89.98	8,631.23	-1,872.85	2,299.44	1,992.15	307.29	7.483		
14,400.00	6,083.00	14,715.21	6,083.00	155.46	158.03	-89.98	8,731.23	-1,872.51	2,299.44	1,988.64	310.80	7.399		
14,500.00	6,083.00	14,815.21	6,083.00	157.21	159.75	-89.98	8,831.23	-1,872.18	2,299.44	1,985.13	314.30	7.316		
14,600.00	6,083.00	14,915.21	6,083.00	158.97	161.48	-89.98	8,931.23	-1,871.84	2,299.44	1,981.63	317.81	7.235		
14,700.00	6,083.00	15,015.21	6,083.00	160.73	163.20	-89.98	9,031.23	-1,871.50	2,299.44	1,978.11	321.32	7.156		
14,800.00	6,083.00	15,115.21	6,083.00	162.48	164.93	-89.98	9,131.23	-1,871.16	2,299.43	1,974.60	324.83	7.079		
14,900.00	6,083.00	15,215.21	6,083.00	164.24	166.65	-89.98	9,231.23	-1,870.82	2,299.43	1,971.09	328.34	7.003		
15,000.00	6,083.00	15,315.21	6,083.00	166.00	168.38	-89.98	9,331.23	-1,870.48	2,299.43	1,967.58	331.85	6.929		
15,100.00	6,083.00	15,415.21	6,083.00	167.75	170.11	-89.98	9,431.23	-1,870.14	2,299.43	1,964.06	335.37	6.856		
15,200.00	6,083.00	15,515.21	6,083.00	169.51	171.84	-89.98	9,531.23	-1,869.80	2,299.43	1,960.55	338.88	6.785		
15,300.00	6,083.00	15,615.21	6,083.00	171.27	173.57	-89.98	9,631.23	-1,869.47	2,299.43	1,957.03	342.39	6.716		
15,400.00	6,083.00	15,715.21	6,083.00	173.03	175.30	-89.98	9,731.23	-1,869.13	2,299.43	1,953.52	345.91	6.648		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 138-MWD OWSG, 1665-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,815.21	6,083.00	174.79	177.03	-89.98	9,831.23	-1,868.79	2,299.43	1,950.00	349.42	6.581	
15,600.00	6,083.00	15,915.21	6,083.00	176.55	178.76	-89.98	9,931.23	-1,868.45	2,299.42	1,946.48	352.94	6.515	
15,700.00	6,083.00	16,015.21	6,083.00	178.31	180.50	-89.98	10,031.23	-1,868.11	2,299.42	1,942.97	356.46	6.451	
15,800.00	6,083.00	16,115.21	6,083.00	180.07	182.23	-89.98	10,131.22	-1,867.77	2,299.42	1,939.45	359.97	6.388	
15,900.00	6,083.00	16,215.21	6,083.00	181.83	183.97	-89.98	10,231.22	-1,867.43	2,299.42	1,935.93	363.49	6.326	
16,000.00	6,083.00	16,315.21	6,083.00	183.59	185.70	-89.98	10,331.22	-1,867.09	2,299.42	1,932.41	367.01	6.265	
16,003.67	6,083.00	16,318.88	6,083.00	183.65	185.77	-89.98	10,334.89	-1,867.08	2,299.42	1,932.28	367.14	6.263	
16,028.23	6,083.00	16,318.96	6,083.00	184.08	185.77	-89.98	10,334.97	-1,867.08	2,299.55	1,931.76	367.79	6.252 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL 2													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG, 1672-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	0.10	0.10	0.00	0.00	0.34	46.28	0.28	46.28					
100.00	100.00	100.25	100.25	0.27	0.15	0.02	46.11	0.02	46.11	45.70	0.42	110.853		
200.00	200.00	200.22	200.22	0.63	0.43	-0.92	45.74	-0.73	45.75	44.69	1.05	43.368		
300.00	299.98	300.31	300.30	0.98	0.78	-67.69	45.41	-1.50	44.75	42.98	1.77	25.336		
400.00	399.84	400.38	400.37	1.34	1.14	-74.99	44.57	-1.94	42.29	39.81	2.48	17.042		
469.53	469.19	468.95	468.93	1.60	1.38	-83.34	44.11	-3.07	41.19	38.21	2.98	13.819	CC, ES	
500.00	499.55	498.88	498.84	1.71	1.49	-87.90	44.21	-3.93	41.42	38.22	3.20	12.946		
600.00	599.25	596.78	596.62	2.08	1.84	-101.42	46.14	-8.38	46.12	42.20	3.92	11.773		
700.00	698.96	694.79	694.36	2.45	2.19	-111.88	49.82	-14.60	55.46	50.83	4.63	11.980		
800.00	798.67	791.61	790.66	2.83	2.55	-119.10	55.02	-22.98	68.94	63.61	5.33	12.931		
900.00	898.37	887.47	885.67	3.21	2.92	-124.71	60.62	-34.49	86.30	80.27	6.02	14.330		
1,000.00	998.08	982.41	979.30	3.58	3.32	-129.73	65.19	-49.47	107.21	100.51	6.70	15.993		
1,100.00	1,097.78	1,076.83	1,072.04	3.96	3.73	-133.23	70.25	-66.46	130.94	123.56	7.38	17.732		
1,200.00	1,197.49	1,172.93	1,166.16	4.34	4.16	-135.85	75.43	-85.14	156.37	148.29	8.08	19.345		
1,300.00	1,297.19	1,269.33	1,260.58	4.72	4.61	-138.34	78.87	-104.30	181.97	173.18	8.79	20.697		
1,400.00	1,396.90	1,370.47	1,359.78	5.10	5.07	-140.97	79.89	-123.91	206.82	197.28	9.54	21.672		
1,500.00	1,496.60	1,461.20	1,448.74	5.47	5.50	-142.74	81.23	-141.68	232.22	222.02	10.20	22.767		
1,600.00	1,596.31	1,561.50	1,547.07	5.85	5.98	-143.88	84.57	-161.16	257.94	246.99	10.95	23.555		
1,700.00	1,696.02	1,657.05	1,640.80	6.23	6.43	-144.48	89.08	-179.14	283.36	271.70	11.66	24.305		
1,800.00	1,795.72	1,752.16	1,734.04	6.61	6.89	-144.80	94.48	-197.15	309.06	296.69	12.37	24.994		
1,900.00	1,895.43	1,840.40	1,820.26	6.99	7.33	-145.26	98.59	-215.44	336.36	323.35	13.01	25.854		
2,000.00	1,995.13	1,927.26	1,904.67	7.37	7.78	-145.91	101.34	-235.72	366.05	352.41	13.64	26.836		
2,100.00	2,094.84	2,019.85	1,994.26	7.75	8.28	-146.68	103.28	-259.04	397.45	383.12	14.33	27.734		
2,200.00	2,194.54	2,114.63	2,085.95	8.13	8.80	-147.36	105.23	-282.98	428.98	413.94	15.05	28.511		
2,300.00	2,294.25	2,209.42	2,177.64	8.51	9.32	-147.94	107.18	-306.92	460.56	444.80	15.76	29.218		
2,400.00	2,393.95	2,304.20	2,269.33	8.89	9.84	-148.46	109.13	-330.86	492.18	475.70	16.48	29.864		
2,500.00	2,493.66	2,398.99	2,361.02	9.26	10.37	-148.91	111.08	-354.80	523.83	506.63	17.20	30.456		
2,600.00	2,593.37	2,493.77	2,452.71	9.64	10.90	-149.31	113.03	-378.74	555.50	537.59	17.92	31.000		
2,700.00	2,693.07	2,588.55	2,544.40	10.02	11.43	-149.66	114.98	-402.68	587.20	568.56	18.64	31.501		
2,800.00	2,792.78	2,683.34	2,636.09	10.40	11.96	-149.98	116.93	-426.62	618.92	599.55	19.36	31.965		
2,900.00	2,892.48	2,778.12	2,727.78	10.78	12.49	-150.27	118.88	-450.56	650.65	630.56	20.08	32.395		
3,000.00	2,992.19	2,872.91	2,819.47	11.16	13.03	-150.53	120.83	-474.50	682.39	661.58	20.81	32.795		
3,100.00	3,091.89	2,967.69	2,911.16	11.54	13.56	-150.77	122.78	-498.44	714.15	692.61	21.53	33.168		
3,200.00	3,191.60	3,062.47	3,002.85	11.92	14.10	-150.99	124.73	-522.38	745.91	723.66	22.26	33.517		
3,300.00	3,291.31	3,157.26	3,094.54	12.30	14.64	-151.19	126.68	-546.32	777.69	754.71	22.98	33.843		
3,400.00	3,391.01	3,252.04	3,186.23	12.68	15.18	-151.38	128.63	-570.26	809.47	785.76	23.70	34.148		
3,500.00	3,490.72	3,346.82	3,277.91	13.06	15.71	-151.55	130.58	-594.21	841.26	816.83	24.43	34.436		
3,600.00	3,590.42	3,441.61	3,369.60	13.44	16.25	-151.71	132.53	-618.15	873.05	847.90	25.16	34.706		
3,700.00	3,690.13	3,536.39	3,461.29	13.82	16.79	-151.85	134.48	-642.09	904.85	878.97	25.88	34.962		
3,800.00	3,789.83	3,631.18	3,552.98	14.19	17.33	-151.99	136.43	-666.03	936.66	910.05	26.61	35.202		
3,900.00	3,889.54	3,725.96	3,644.67	14.57	17.87	-152.12	138.38	-689.97	968.47	941.14	27.33	35.430		
4,000.00	3,989.24	3,820.74	3,736.36	14.95	18.42	-152.24	140.33	-713.91	1,000.29	972.23	28.06	35.646		
4,100.00	4,088.95	3,915.53	3,828.05	15.33	18.96	-152.35	142.28	-737.85	1,032.11	1,003.32	28.79	35.851		
4,200.00	4,188.66	4,010.31	3,919.74	15.71	19.50	-152.46	144.23	-761.79	1,063.93	1,034.41	29.52	36.046		
4,300.00	4,288.36	4,105.10	4,011.43	16.09	20.04	-152.56	146.18	-785.73	1,095.75	1,065.51	30.24	36.230		
4,400.00	4,388.07	4,199.88	4,103.12	16.47	20.58	-152.65	148.13	-809.67	1,127.58	1,096.61	30.97	36.406		
4,500.00	4,487.77	4,294.66	4,194.81	16.85	21.12	-152.74	150.08	-833.61	1,159.41	1,127.71	31.70	36.574		
4,600.00	4,587.48	4,389.45	4,286.50	17.23	21.67	-152.82	152.03	-857.55	1,191.24	1,158.82	32.43	36.734		
4,700.00	4,687.18	4,484.23	4,378.19	17.61	22.21	-152.90	153.97	-881.49	1,223.08	1,189.92	33.16	36.887		
4,800.00	4,786.89	4,579.01	4,469.88	17.99	22.75	-152.98	155.92	-905.43	1,254.92	1,221.03	33.89	37.033		
4,900.00	4,886.59	4,673.80	4,561.57	18.37	23.30	-153.05	157.87	-929.38	1,286.76	1,252.14	34.62	37.173		
5,000.00	4,986.30	4,768.58	4,653.26	18.75	23.84	-153.12	159.82	-953.32	1,318.60	1,283.25	35.34	37.307		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL 2		Offset Site Error: 0.00 usft	
Survey Program:		137-MWD OWSG, 1672-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	5,086.01	4,863.37	4,744.95	19.13	24.38	-153.19	161.77	-977.26	1,350.44	1,314.36	36.07	37.435				
5,200.00	5,185.71	4,958.15	4,836.64	19.51	24.93	-153.25	163.72	-1,001.20	1,382.28	1,345.48	36.80	37.558				
5,300.00	5,285.42	5,052.93	4,928.33	19.89	25.47	-153.31	165.67	-1,025.14	1,414.13	1,376.59	37.53	37.676				
5,400.00	5,385.12	5,147.72	5,020.02	20.26	26.02	-153.36	167.62	-1,049.08	1,445.97	1,407.71	38.26	37.789				
5,500.00	5,484.83	5,242.50	5,111.71	20.64	26.56	-153.42	169.57	-1,073.02	1,477.82	1,438.83	38.99	37.898				
5,600.00	5,584.37	5,337.18	5,203.30	21.03	27.10	-116.49	171.52	-1,096.93	1,509.64	1,469.91	39.73	37.998				
5,700.00	5,681.71	5,430.07	5,293.15	21.43	27.64	-98.60	173.43	-1,120.40	1,541.04	1,500.55	40.49	38.062				
5,800.00	5,773.87	5,518.37	5,378.57	21.85	28.15	-92.17	175.25	-1,142.70	1,571.68	1,530.42	41.27	38.087				
5,900.00	5,858.06	5,599.39	5,456.95	22.29	28.61	-88.61	176.92	-1,163.16	1,601.68	1,559.62	42.06	38.077				
6,000.00	5,931.71	5,670.69	5,525.92	22.78	29.02	-86.15	178.38	-1,181.17	1,631.44	1,588.55	42.89	38.039				
6,100.00	5,992.59	5,768.93	5,620.54	23.33	29.59	-85.09	186.56	-1,205.86	1,660.93	1,616.87	44.06	37.697				
6,200.00	6,038.86	5,889.77	5,732.83	23.96	30.28	-84.94	219.40	-1,235.07	1,688.47	1,642.93	45.53	37.083				
6,300.00	6,069.09	6,129.03	5,924.40	24.69	31.56	-87.46	350.65	-1,284.66	1,711.56	1,663.72	47.83	35.781				
6,400.00	6,082.38	6,479.38	6,075.54	25.49	33.35	-89.89	658.29	-1,323.09	1,724.21	1,673.59	50.62	34.063				
6,500.00	6,083.00	6,650.84	6,083.00	26.37	34.29	-90.00	829.34	-1,324.46	1,724.72	1,672.04	52.68	32.737				
6,600.00	6,083.00	6,750.84	6,083.00	27.33	34.93	-90.00	929.34	-1,324.12	1,724.72	1,670.13	54.59	31.592				
6,700.00	6,083.00	6,850.84	6,083.00	28.37	35.66	-90.00	1,029.34	-1,323.78	1,724.72	1,668.06	56.66	30.440				
6,800.00	6,083.00	6,950.84	6,083.00	29.48	36.46	-90.00	1,129.34	-1,323.44	1,724.72	1,665.85	58.87	29.298				
6,900.00	6,083.00	7,050.84	6,083.00	30.66	37.33	-90.00	1,229.34	-1,323.10	1,724.72	1,663.51	61.20	28.180				
7,000.00	6,083.00	7,150.84	6,083.00	31.89	38.27	-90.00	1,329.34	-1,322.77	1,724.72	1,661.07	63.65	27.097				
7,100.00	6,083.00	7,250.84	6,083.00	33.17	39.27	-90.00	1,429.33	-1,322.43	1,724.71	1,658.52	66.20	26.055				
7,200.00	6,083.00	7,350.84	6,083.00	34.49	40.33	-90.00	1,529.33	-1,322.09	1,724.71	1,655.88	68.83	25.057				
7,300.00	6,083.00	7,450.84	6,083.00	35.85	41.45	-90.00	1,629.33	-1,321.75	1,724.71	1,653.17	71.54	24.107				
7,400.00	6,083.00	7,550.84	6,083.00	37.25	42.61	-90.00	1,729.33	-1,321.41	1,724.71	1,650.38	74.33	23.204				
7,500.00	6,083.00	7,650.84	6,083.00	38.67	43.82	-90.00	1,829.33	-1,321.07	1,724.71	1,647.53	77.18	22.348				
7,600.00	6,083.00	7,750.84	6,083.00	40.13	45.07	-90.00	1,929.33	-1,320.73	1,724.71	1,644.63	80.08	21.538				
7,700.00	6,083.00	7,850.84	6,083.00	41.61	46.35	-90.00	2,029.33	-1,320.39	1,724.70	1,641.67	83.03	20.772				
7,800.00	6,083.00	7,950.84	6,083.00	43.11	47.67	-90.00	2,129.33	-1,320.05	1,724.70	1,638.67	86.03	20.048				
7,900.00	6,083.00	8,050.84	6,083.00	44.63	49.03	-90.00	2,229.33	-1,319.71	1,724.70	1,635.63	89.07	19.364				
8,000.00	6,083.00	8,150.84	6,083.00	46.17	50.40	-90.00	2,329.33	-1,319.37	1,724.70	1,632.56	92.14	18.718				
8,100.00	6,083.00	8,250.84	6,083.00	47.73	51.81	-90.00	2,429.33	-1,319.03	1,724.70	1,629.45	95.25	18.107				
8,200.00	6,083.00	8,350.84	6,083.00	49.30	53.24	-90.00	2,529.33	-1,318.70	1,724.70	1,626.31	98.39	17.530				
8,300.00	6,083.00	8,450.84	6,083.00	50.88	54.69	-90.00	2,629.33	-1,318.36	1,724.69	1,623.14	101.55	16.983				
8,400.00	6,083.00	8,550.84	6,083.00	52.48	56.16	-90.00	2,729.33	-1,318.02	1,724.69	1,619.95	104.74	16.466				
8,500.00	6,083.00	8,650.84	6,083.00	54.09	57.64	-90.00	2,829.33	-1,317.68	1,724.69	1,616.74	107.95	15.976				
8,600.00	6,083.00	8,750.84	6,083.00	55.70	59.15	-90.00	2,929.33	-1,317.34	1,724.69	1,613.51	111.18	15.512				
8,700.00	6,083.00	8,850.84	6,083.00	57.33	60.67	-90.00	3,029.33	-1,317.00	1,724.69	1,610.25	114.43	15.071				
8,800.00	6,083.00	8,950.84	6,083.00	58.96	62.20	-90.00	3,129.32	-1,316.66	1,724.69	1,606.98	117.70	14.653				
8,900.00	6,083.00	9,050.84	6,083.00	60.61	63.75	-90.00	3,229.32	-1,316.32	1,724.68	1,603.70	120.99	14.255				
9,000.00	6,083.00	9,150.84	6,083.00	62.26	65.30	-90.00	3,329.32	-1,315.98	1,724.68	1,600.40	124.28	13.877				
9,100.00	6,083.00	9,250.84	6,083.00	63.91	66.87	-90.00	3,429.32	-1,315.64	1,724.68	1,597.09	127.59	13.517				
9,200.00	6,083.00	9,350.84	6,083.00	65.58	68.45	-90.00	3,529.32	-1,315.30	1,724.68	1,593.76	130.92	13.174				
9,300.00	6,083.00	9,450.84	6,083.00	67.24	70.04	-90.00	3,629.32	-1,314.97	1,724.68	1,590.42	134.25	12.846				
9,400.00	6,083.00	9,550.84	6,083.00	68.92	71.64	-90.00	3,729.32	-1,314.63	1,724.68	1,587.08	137.60	12.534				
9,500.00	6,083.00	9,650.84	6,083.00	70.60	73.25	-90.00	3,829.32	-1,314.29	1,724.67	1,583.72	140.96	12.236				
9,600.00	6,083.00	9,750.84	6,083.00	72.28	74.86	-90.00	3,929.32	-1,313.95	1,724.67	1,580.35	144.32	11.950				
9,700.00	6,083.00	9,850.84	6,083.00	73.97	76.48	-90.00	4,029.32	-1,313.61	1,724.67	1,576.98	147.69	11.677				
9,800.00	6,083.00	9,950.84	6,083.00	75.66	78.11	-90.00	4,129.32	-1,313.27	1,724.67	1,573.59	151.08	11.416				
9,900.00	6,083.00	10,050.84	6,083.00	77.35	79.75	-90.00	4,229.32	-1,312.93	1,724.67	1,570.20	154.46	11.165				
10,000.00	6,083.00	10,150.84	6,083.00	79.05	81.39	-90.00	4,329.32	-1,312.59	1,724.67	1,566.81	157.86	10.925				
10,100.00	6,083.00	10,250.84	6,083.00	80.75	83.03	-90.00	4,429.32	-1,312.25	1,724.66	1,563.40	161.26	10.695				
10,200.00	6,083.00	10,350.84	6,083.00	82.46	84.69	-90.00	4,529.32	-1,311.91	1,724.66	1,559.99	164.67	10.473				

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 137-MWD OWSG, 1672-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		
10,300.00	6,083.00	10,450.84	6,083.00	84.17	86.34	-90.00	4,629.32	-1,311.57	1,724.66	1,556.57	168.09	10.261		
10,400.00	6,083.00	10,550.84	6,083.00	85.88	88.00	-90.00	4,729.32	-1,311.23	1,724.66	1,553.15	171.51	10.056		
10,500.00	6,083.00	10,650.84	6,083.00	87.59	89.67	-90.00	4,829.32	-1,310.90	1,724.66	1,549.73	174.93	9.859		
10,600.00	6,083.00	10,750.84	6,083.00	89.30	91.34	-90.00	4,929.31	-1,310.56	1,724.66	1,546.30	178.36	9.670		
10,700.00	6,083.00	10,850.84	6,083.00	91.02	93.01	-90.00	5,029.31	-1,310.22	1,724.65	1,542.86	181.79	9.487		
10,800.00	6,083.00	10,950.84	6,083.00	92.74	94.69	-90.00	5,129.31	-1,309.88	1,724.65	1,539.42	185.23	9.311		
10,900.00	6,083.00	11,050.84	6,083.00	94.46	96.37	-90.00	5,229.31	-1,309.54	1,724.65	1,535.98	188.67	9.141		
11,000.00	6,083.00	11,150.84	6,083.00	96.19	98.05	-90.00	5,329.31	-1,309.20	1,724.65	1,532.53	192.12	8.977		
11,100.00	6,083.00	11,250.84	6,083.00	97.91	99.74	-90.00	5,429.31	-1,308.86	1,724.65	1,529.08	195.57	8.819		
11,200.00	6,083.00	11,350.84	6,083.00	99.64	101.43	-90.00	5,529.31	-1,308.52	1,724.65	1,525.62	199.02	8.665		
11,300.00	6,083.00	11,450.84	6,083.00	101.37	103.13	-90.00	5,629.31	-1,308.18	1,724.64	1,522.16	202.48	8.518		
11,400.00	6,083.00	11,550.84	6,083.00	103.10	104.82	-90.00	5,729.31	-1,307.84	1,724.64	1,518.70	205.94	8.374		
11,500.00	6,083.00	11,650.84	6,083.00	104.83	106.52	-90.00	5,829.31	-1,307.50	1,724.64	1,515.24	209.40	8.236		
11,600.00	6,083.00	11,750.84	6,083.00	106.56	108.22	-90.00	5,929.31	-1,307.17	1,724.64	1,511.77	212.87	8.102		
11,700.00	6,083.00	11,850.84	6,083.00	108.30	109.92	-90.00	6,029.31	-1,306.83	1,724.64	1,508.30	216.34	7.972		
11,800.00	6,083.00	11,950.84	6,083.00	110.03	111.63	-90.00	6,129.31	-1,306.49	1,724.63	1,504.83	219.81	7.846		
11,900.00	6,083.00	12,050.84	6,083.00	111.77	113.34	-90.00	6,229.31	-1,306.15	1,724.63	1,501.35	223.28	7.724		
12,000.00	6,083.00	12,150.84	6,083.00	113.51	115.05	-90.00	6,329.31	-1,305.81	1,724.63	1,497.88	226.76	7.606		
12,100.00	6,083.00	12,250.84	6,083.00	115.24	116.76	-90.00	6,429.31	-1,305.47	1,724.63	1,494.40	230.23	7.491		
12,200.00	6,083.00	12,350.84	6,083.00	116.98	118.47	-90.00	6,529.31	-1,305.13	1,724.63	1,490.91	233.71	7.379		
12,300.00	6,083.00	12,450.84	6,083.00	118.73	120.19	-90.00	6,629.30	-1,304.79	1,724.63	1,487.43	237.20	7.271		
12,400.00	6,083.00	12,550.84	6,083.00	120.47	121.90	-90.00	6,729.30	-1,304.45	1,724.62	1,483.95	240.68	7.166		
12,500.00	6,083.00	12,650.84	6,083.00	122.21	123.62	-90.00	6,829.30	-1,304.11	1,724.62	1,480.46	244.16	7.063		
12,600.00	6,083.00	12,750.84	6,083.00	123.95	125.34	-90.00	6,929.30	-1,303.77	1,724.62	1,476.97	247.65	6.964		
12,700.00	6,083.00	12,850.84	6,083.00	125.70	127.06	-90.00	7,029.30	-1,303.43	1,724.62	1,473.48	251.14	6.867		
12,800.00	6,083.00	12,950.84	6,083.00	127.44	128.79	-90.00	7,129.30	-1,303.10	1,724.62	1,469.99	254.63	6.773		
12,900.00	6,083.00	13,050.84	6,083.00	129.19	130.51	-90.00	7,229.30	-1,302.76	1,724.62	1,466.49	258.12	6.681		
13,000.00	6,083.00	13,150.84	6,083.00	130.94	132.24	-90.00	7,329.30	-1,302.42	1,724.61	1,463.00	261.62	6.592		
13,100.00	6,083.00	13,250.84	6,083.00	132.68	133.96	-90.00	7,429.30	-1,302.08	1,724.61	1,459.50	265.11	6.505		
13,200.00	6,083.00	13,350.84	6,083.00	134.43	135.69	-90.00	7,529.30	-1,301.74	1,724.61	1,456.00	268.61	6.421		
13,300.00	6,083.00	13,450.84	6,083.00	136.18	137.42	-90.00	7,629.30	-1,301.40	1,724.61	1,452.50	272.11	6.338		
13,400.00	6,083.00	13,550.84	6,083.00	137.93	139.15	-90.00	7,729.30	-1,301.06	1,724.61	1,449.00	275.61	6.258		
13,500.00	6,083.00	13,650.84	6,083.00	139.68	140.88	-90.00	7,829.30	-1,300.72	1,724.61	1,445.50	279.11	6.179		
13,600.00	6,083.00	13,750.84	6,083.00	141.43	142.62	-90.00	7,929.30	-1,300.38	1,724.60	1,442.00	282.61	6.102		
13,700.00	6,083.00	13,850.84	6,083.00	143.18	144.35	-90.00	8,029.30	-1,300.04	1,724.60	1,438.49	286.11	6.028		
13,800.00	6,083.00	13,950.84	6,083.00	144.94	146.08	-90.00	8,129.30	-1,299.70	1,724.60	1,434.99	289.61	5.955		
13,900.00	6,083.00	14,050.84	6,083.00	146.69	147.82	-90.00	8,229.30	-1,299.37	1,724.60	1,431.48	293.12	5.884		
14,000.00	6,083.00	14,150.84	6,083.00	148.44	149.56	-90.00	8,329.30	-1,299.03	1,724.60	1,427.97	296.62	5.814		
14,100.00	6,083.00	14,250.84	6,083.00	150.20	151.29	-90.00	8,429.29	-1,298.69	1,724.60	1,424.46	300.13	5.746		
14,200.00	6,083.00	14,350.84	6,083.00	151.95	153.03	-90.00	8,529.29	-1,298.35	1,724.59	1,420.96	303.64	5.680		
14,300.00	6,083.00	14,450.84	6,083.00	153.70	154.77	-90.00	8,629.29	-1,298.01	1,724.59	1,417.44	307.15	5.615		
14,400.00	6,083.00	14,550.84	6,083.00	155.46	156.51	-90.00	8,729.29	-1,297.67	1,724.59	1,413.93	310.66	5.551		
14,500.00	6,083.00	14,650.84	6,083.00	157.21	158.25	-90.00	8,829.29	-1,297.33	1,724.59	1,410.42	314.17	5.489		
14,600.00	6,083.00	14,750.84	6,083.00	158.97	159.99	-90.00	8,929.29	-1,296.99	1,724.59	1,406.91	317.68	5.429		
14,700.00	6,083.00	14,850.84	6,083.00	160.73	161.73	-90.00	9,029.29	-1,296.65	1,724.59	1,403.39	321.19	5.369		
14,800.00	6,083.00	14,950.84	6,083.00	162.48	163.48	-90.00	9,129.29	-1,296.31	1,724.58	1,399.88	324.70	5.311		
14,900.00	6,083.00	15,050.84	6,083.00	164.24	165.22	-90.00	9,229.29	-1,295.97	1,724.58	1,396.36	328.22	5.254		
15,000.00	6,083.00	15,150.84	6,083.00	166.00	166.96	-90.00	9,329.29	-1,295.63	1,724.58	1,392.85	331.73	5.199		
15,100.00	6,083.00	15,250.84	6,083.00	167.75	168.71	-90.00	9,429.29	-1,295.30	1,724.58	1,389.33	335.25	5.144		
15,200.00	6,083.00	15,350.84	6,083.00	169.51	170.45	-90.00	9,529.29	-1,294.96	1,724.58	1,385.81	338.76	5.091		
15,300.00	6,083.00	15,450.84	6,083.00	171.27	172.20	-90.00	9,629.29	-1,294.62	1,724.58	1,382.30	342.28	5.039		
15,400.00	6,083.00	15,550.84	6,083.00	173.03	173.95	-90.00	9,729.29	-1,294.28	1,724.57	1,378.78	345.80	4.987		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 137-MWD OWSG, 1672-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,650.84	6,083.00	174.79	175.69	-90.00	9,829.29	-1,293.94	1,724.57	1,375.26	349.31	4.937	
15,600.00	6,083.00	15,750.84	6,083.00	176.55	177.44	-90.00	9,929.29	-1,293.60	1,724.57	1,371.74	352.83	4.888	
15,700.00	6,083.00	15,850.84	6,083.00	178.31	179.19	-90.00	10,029.29	-1,293.26	1,724.57	1,368.22	356.35	4.840	
15,800.00	6,083.00	15,950.84	6,083.00	180.07	180.94	-90.00	10,129.28	-1,292.92	1,724.57	1,364.70	359.87	4.792	
15,900.00	6,083.00	16,050.84	6,083.00	181.83	182.68	-90.00	10,229.28	-1,292.58	1,724.57	1,361.18	363.39	4.746	
16,000.00	6,083.00	16,150.84	6,083.00	183.59	184.43	-90.00	10,329.28	-1,292.24	1,724.56	1,357.65	366.91	4.700	
16,010.92	6,083.00	16,161.74	6,083.00	183.78	184.65	-90.00	10,340.18	-1,292.21	1,724.56	1,357.27	367.29	4.695	
16,028.23	6,083.00	16,161.74	6,083.00	184.08	184.65	-90.00	10,340.18	-1,292.21	1,724.65	1,356.93	367.72	4.690 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL 2													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG, 1635-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	0.53	30.24	0.28	30.24					
100.00	100.00	100.18	100.18	0.27	0.15	0.89	29.93	0.47	29.94	29.52	0.42	71.550		
200.00	200.00	200.24	200.24	0.63	0.41	1.52	29.12	0.77	29.13	28.09	1.03	28.159		
300.00	299.98	300.23	300.22	0.98	0.76	-66.61	28.33	0.20	27.59	25.85	1.74	15.820		
400.00	399.84	400.33	400.31	1.34	1.12	-78.65	27.01	-0.07	24.75	22.29	2.46	10.055		
495.35	494.93	495.18	495.14	1.69	1.46	-96.89	25.39	-0.04	22.95	19.80	3.15	7.287	CC, ES	
500.00	499.55	499.78	499.74	1.71	1.48	-98.48	25.35	-0.03	23.00	19.81	3.18	7.224		
600.00	599.25	598.98	598.94	2.08	1.82	-115.80	25.47	-0.18	25.49	21.60	3.89	6.549		
700.00	698.96	697.88	697.81	2.45	2.15	-127.82	27.10	-1.98	31.99	27.40	4.59	6.970		
800.00	798.67	796.69	796.50	2.83	2.50	-134.93	29.88	-5.77	41.69	36.40	5.29	7.882		
900.00	898.37	895.88	895.53	3.21	2.84	-138.44	33.66	-10.13	52.59	46.59	5.99	8.772		
1,000.00	998.08	994.53	993.95	3.58	3.19	-139.84	38.49	-14.74	64.13	57.43	6.70	9.572		
1,100.00	1,097.78	1,095.18	1,094.30	3.96	3.56	-140.07	44.50	-19.62	76.11	68.69	7.42	10.252		
1,200.00	1,197.49	1,194.29	1,193.23	4.34	3.91	-140.47	49.68	-22.83	86.37	78.23	8.14	10.611		
1,300.00	1,297.19	1,292.31	1,291.03	4.72	4.27	-141.59	53.74	-27.56	97.93	89.09	8.85	11.071		
1,400.00	1,396.90	1,391.06	1,389.57	5.10	4.63	-143.12	56.77	-33.26	110.25	100.70	9.56	11.535		
1,500.00	1,496.60	1,487.96	1,486.13	5.47	4.99	-144.19	60.33	-40.63	124.52	114.27	10.26	12.142		
1,600.00	1,596.31	1,592.83	1,590.75	5.85	5.38	-145.24	63.60	-47.00	137.26	126.24	11.02	12.458		
1,700.00	1,696.02	1,695.51	1,693.39	6.23	5.75	-146.81	64.46	-49.23	145.87	134.11	11.75	12.412		
1,800.00	1,795.72	1,790.12	1,787.94	6.61	6.09	-148.13	65.23	-52.34	155.69	143.25	12.44	12.518		
1,900.00	1,895.43	1,883.91	1,881.52	6.99	6.43	-149.20	66.51	-58.46	168.84	155.73	13.11	12.881		
2,000.00	1,995.13	1,976.81	1,973.96	7.37	6.79	-150.00	68.29	-67.50	185.25	171.49	13.76	13.461		
2,100.00	2,094.84	2,068.65	2,065.00	7.75	7.15	-150.58	70.53	-79.33	204.84	190.44	14.40	14.225		
2,200.00	2,194.54	2,161.59	2,156.73	8.13	7.52	-150.97	73.28	-94.05	227.37	212.32	15.05	15.106		
2,300.00	2,294.25	2,258.85	2,252.61	8.51	7.92	-151.29	76.25	-110.11	250.59	234.83	15.76	15.899		
2,400.00	2,393.95	2,356.11	2,348.48	8.89	8.33	-151.55	79.23	-126.17	273.82	257.35	16.47	16.622		
2,500.00	2,493.66	2,453.37	2,444.36	9.26	8.74	-151.77	82.21	-142.23	297.06	279.87	17.19	17.284		
2,600.00	2,593.37	2,550.62	2,540.23	9.64	9.15	-151.96	85.19	-158.30	320.30	302.39	17.90	17.892		
2,700.00	2,693.07	2,647.88	2,636.11	10.02	9.57	-152.13	88.17	-174.36	343.54	324.92	18.62	18.453		
2,800.00	2,792.78	2,745.14	2,731.99	10.40	9.99	-152.27	91.15	-190.42	366.78	347.45	19.33	18.972		
2,900.00	2,892.48	2,842.40	2,827.86	10.78	10.41	-152.40	94.13	-206.48	390.02	369.97	20.05	19.453		
3,000.00	2,992.19	2,939.65	2,923.74	11.16	10.84	-152.51	97.11	-222.54	413.27	392.50	20.77	19.900		
3,100.00	3,091.89	3,036.91	3,019.61	11.54	11.26	-152.61	100.09	-238.60	436.52	415.03	21.49	20.317		
3,200.00	3,191.60	3,134.17	3,115.49	11.92	11.69	-152.70	103.06	-254.66	459.77	437.56	22.20	20.707		
3,300.00	3,291.31	3,231.43	3,211.37	12.30	12.12	-152.78	106.04	-270.73	483.02	460.09	22.92	21.071		
3,400.00	3,391.01	3,328.68	3,307.24	12.68	12.55	-152.85	109.02	-286.79	506.27	482.63	23.64	21.414		
3,500.00	3,490.72	3,425.94	3,403.12	13.06	12.98	-152.92	112.00	-302.85	529.52	505.16	24.36	21.735		
3,600.00	3,590.42	3,523.20	3,498.99	13.44	13.41	-152.98	114.98	-318.91	552.77	527.69	25.08	22.038		
3,700.00	3,690.13	3,620.46	3,594.87	13.82	13.85	-153.04	117.96	-334.97	576.02	550.22	25.80	22.323		
3,800.00	3,789.83	3,717.71	3,690.74	14.19	14.28	-153.09	120.94	-351.03	599.28	572.75	26.52	22.593		
3,900.00	3,889.54	3,814.97	3,786.62	14.57	14.72	-153.14	123.92	-367.10	622.53	595.28	27.25	22.849		
4,000.00	3,989.24	3,912.23	3,882.50	14.95	15.15	-153.19	126.90	-383.16	645.78	617.82	27.97	23.090		
4,100.00	4,088.95	4,009.49	3,978.37	15.33	15.59	-153.23	129.87	-399.22	669.04	640.35	28.69	23.320		
4,200.00	4,188.66	4,106.74	4,074.25	15.71	16.03	-153.27	132.85	-415.28	692.29	662.88	29.41	23.538		
4,300.00	4,288.36	4,204.00	4,170.12	16.09	16.47	-153.30	135.83	-431.34	715.55	685.41	30.13	23.745		
4,400.00	4,388.07	4,301.26	4,266.00	16.47	16.91	-153.34	138.81	-447.40	738.80	707.95	30.86	23.943		
4,500.00	4,487.77	4,398.52	4,361.88	16.85	17.34	-153.37	141.79	-463.46	762.06	730.48	31.58	24.131		
4,600.00	4,587.48	4,495.77	4,457.75	17.23	17.78	-153.40	144.77	-479.53	785.31	753.01	32.30	24.311		
4,700.00	4,687.18	4,593.03	4,553.63	17.61	18.22	-153.43	147.75	-495.59	808.57	775.54	33.03	24.483		
4,800.00	4,786.89	4,690.29	4,649.50	17.99	18.66	-153.45	150.73	-511.65	831.83	798.08	33.75	24.647		
4,900.00	4,886.59	4,787.55	4,745.38	18.37	19.11	-153.48	153.71	-527.71	855.08	820.61	34.47	24.804		
5,000.00	4,986.30	4,884.80	4,841.25	18.75	19.55	-153.50	156.68	-543.77	878.34	843.14	35.20	24.955		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG, 1635-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	5,086.01	4,982.06	4,937.13	19.13	19.99	-153.53	159.66	-559.83	901.59	865.67	35.92	25.100		
5,200.00	5,185.71	5,079.32	5,033.01	19.51	20.43	-153.55	162.64	-575.89	924.85	888.21	36.64	25.238		
5,300.00	5,285.42	5,176.58	5,128.88	19.89	20.87	-153.57	165.62	-591.96	948.11	910.74	37.37	25.371		
5,400.00	5,385.12	5,273.83	5,224.76	20.26	21.31	-153.59	168.60	-608.02	971.36	933.27	38.09	25.499		
5,500.00	5,484.83	5,371.09	5,320.63	20.64	21.76	-153.61	171.58	-624.08	994.62	955.80	38.82	25.623		
5,600.00	5,584.37	5,468.26	5,416.43	21.03	22.20	-117.21	174.55	-640.13	1,017.86	978.32	39.55	25.738		
5,700.00	5,681.71	5,563.75	5,510.56	21.43	22.63	-100.53	177.48	-655.90	1,040.92	1,000.62	40.30	25.830		
5,800.00	5,773.87	5,662.69	5,607.74	21.85	23.09	-95.41	185.30	-672.16	1,063.71	1,022.57	41.14	25.856		
5,900.00	5,858.06	5,769.86	5,709.92	22.29	23.59	-92.92	212.16	-689.20	1,085.50	1,043.37	42.13	25.767		
6,000.00	5,931.71	5,885.29	5,812.39	22.78	24.13	-91.51	262.08	-706.20	1,105.48	1,062.22	43.27	25.550		
6,100.00	5,992.59	6,010.06	5,909.63	23.33	24.73	-90.71	338.18	-722.25	1,122.78	1,078.20	44.58	25.186		
6,200.00	6,038.86	6,144.44	5,993.55	23.96	25.42	-90.29	441.83	-735.96	1,136.47	1,090.38	46.09	24.660		
6,300.00	6,069.09	6,287.27	6,054.12	24.69	26.25	-90.10	570.41	-745.68	1,145.68	1,097.87	47.81	23.962		
6,400.00	6,082.38	6,435.55	6,081.90	25.49	27.26	-90.01	715.58	-749.84	1,149.74	1,100.00	49.75	23.112		
6,500.00	6,083.00	6,547.38	6,083.00	26.37	28.13	-90.00	827.39	-749.65	1,149.91	1,098.30	51.61	22.281		
6,600.00	6,083.00	6,647.38	6,083.00	27.33	29.00	-90.00	927.39	-749.31	1,149.91	1,096.34	53.57	21.467		
6,700.00	6,083.00	6,747.38	6,083.00	28.37	29.95	-90.00	1,027.39	-748.97	1,149.90	1,094.22	55.68	20.652		
6,800.00	6,083.00	6,847.38	6,083.00	29.48	30.98	-90.00	1,127.39	-748.63	1,149.90	1,091.97	57.93	19.849		
6,900.00	6,083.00	6,947.38	6,083.00	30.66	32.08	-90.00	1,227.39	-748.29	1,149.90	1,089.59	60.31	19.066		
7,000.00	6,083.00	7,047.38	6,083.00	31.89	33.24	-90.00	1,327.39	-747.95	1,149.90	1,087.10	62.80	18.310		
7,100.00	6,083.00	7,147.38	6,083.00	33.17	34.46	-90.00	1,427.39	-747.61	1,149.90	1,084.51	65.39	17.586		
7,200.00	6,083.00	7,247.38	6,083.00	34.49	35.72	-90.00	1,527.39	-747.27	1,149.89	1,081.83	68.06	16.895		
7,300.00	6,083.00	7,347.38	6,083.00	35.85	37.03	-90.00	1,627.39	-746.93	1,149.89	1,079.08	70.81	16.239		
7,400.00	6,083.00	7,447.38	6,083.00	37.25	38.37	-90.00	1,727.39	-746.59	1,149.89	1,076.26	73.63	15.617		
7,500.00	6,083.00	7,547.38	6,083.00	38.67	39.75	-90.00	1,827.39	-746.25	1,149.89	1,073.38	76.51	15.029		
7,600.00	6,083.00	7,647.38	6,083.00	40.13	41.16	-90.00	1,927.39	-745.91	1,149.88	1,070.44	79.44	14.474		
7,700.00	6,083.00	7,747.38	6,083.00	41.61	42.59	-90.00	2,027.39	-745.57	1,149.88	1,067.46	82.43	13.951		
7,800.00	6,083.00	7,847.38	6,083.00	43.11	44.05	-90.00	2,127.39	-745.23	1,149.88	1,064.43	85.45	13.457		
7,900.00	6,083.00	7,947.38	6,083.00	44.63	45.54	-90.00	2,227.39	-744.89	1,149.88	1,061.36	88.51	12.991		
8,000.00	6,083.00	8,047.38	6,083.00	46.17	47.04	-90.00	2,327.38	-744.55	1,149.88	1,058.26	91.61	12.551		
8,100.00	6,083.00	8,147.38	6,083.00	47.73	48.57	-90.00	2,427.38	-744.22	1,149.87	1,055.13	94.74	12.137		
8,200.00	6,083.00	8,247.38	6,083.00	49.30	50.10	-90.00	2,527.38	-743.88	1,149.87	1,051.97	97.90	11.745		
8,300.00	6,083.00	8,347.38	6,083.00	50.88	51.66	-90.00	2,627.38	-743.54	1,149.87	1,048.78	101.09	11.375		
8,400.00	6,083.00	8,447.38	6,083.00	52.48	53.23	-90.00	2,727.38	-743.20	1,149.87	1,045.57	104.30	11.025		
8,500.00	6,083.00	8,547.38	6,083.00	54.09	54.81	-90.00	2,827.38	-742.86	1,149.87	1,042.34	107.53	10.694		
8,600.00	6,083.00	8,647.38	6,083.00	55.70	56.40	-90.00	2,927.38	-742.52	1,149.86	1,039.09	110.77	10.380		
8,700.00	6,083.00	8,747.38	6,083.00	57.33	58.00	-90.00	3,027.38	-742.18	1,149.86	1,035.82	114.04	10.083		
8,800.00	6,083.00	8,847.38	6,083.00	58.96	59.62	-90.00	3,127.38	-741.84	1,149.86	1,032.54	117.32	9.801		
8,900.00	6,083.00	8,947.38	6,083.00	60.61	61.24	-90.00	3,227.38	-741.50	1,149.86	1,029.24	120.62	9.533		
9,000.00	6,083.00	9,047.38	6,083.00	62.26	62.87	-90.00	3,327.38	-741.16	1,149.86	1,025.92	123.93	9.278		
9,100.00	6,083.00	9,147.38	6,083.00	63.91	64.50	-90.00	3,427.38	-740.82	1,149.85	1,022.59	127.26	9.036		
9,200.00	6,083.00	9,247.38	6,083.00	65.58	66.15	-90.00	3,527.38	-740.48	1,149.85	1,019.26	130.60	8.805		
9,300.00	6,083.00	9,347.38	6,083.00	67.24	67.80	-90.00	3,627.38	-740.14	1,149.85	1,015.91	133.94	8.585		
9,400.00	6,083.00	9,447.38	6,083.00	68.92	69.46	-90.00	3,727.38	-739.80	1,149.85	1,012.55	137.30	8.375		
9,500.00	6,083.00	9,547.38	6,083.00	70.60	71.12	-90.00	3,827.38	-739.46	1,149.85	1,009.18	140.67	8.174		
9,600.00	6,083.00	9,647.38	6,083.00	72.28	72.79	-90.00	3,927.38	-739.12	1,149.84	1,005.80	144.04	7.983		
9,700.00	6,083.00	9,747.38	6,083.00	73.97	74.46	-90.00	4,027.37	-738.78	1,149.84	1,002.42	147.42	7.799		
9,800.00	6,083.00	9,847.38	6,083.00	75.66	76.14	-90.00	4,127.37	-738.44	1,149.84	999.02	150.82	7.624		
9,900.00	6,083.00	9,947.38	6,083.00	77.35	77.82	-90.00	4,227.37	-738.10	1,149.84	995.62	154.21	7.456		
10,000.00	6,083.00	10,047.38	6,083.00	79.05	79.50	-90.00	4,327.37	-737.76	1,149.83	992.22	157.62	7.295		
10,100.00	6,083.00	10,147.38	6,083.00	80.75	81.19	-90.00	4,427.37	-737.42	1,149.83	988.80	161.03	7.141		
10,200.00	6,083.00	10,247.38	6,083.00	82.46	82.89	-90.00	4,527.37	-737.09	1,149.83	985.38	164.45	6.992		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 147-MWD OWSG, 1635-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		
10,300.00	6,083.00	10,347.38	6,083.00	84.17	84.58	-90.00	4,627.37	-736.75	1,149.83	981.96	167.87	6.850		
10,400.00	6,083.00	10,447.38	6,083.00	85.88	86.28	-90.00	4,727.37	-736.41	1,149.83	978.53	171.30	6.713		
10,500.00	6,083.00	10,547.38	6,083.00	87.59	87.99	-90.00	4,827.37	-736.07	1,149.82	975.10	174.73	6.581		
10,600.00	6,083.00	10,647.38	6,083.00	89.30	89.69	-90.00	4,927.37	-735.73	1,149.82	971.66	178.16	6.454		
10,700.00	6,083.00	10,747.38	6,083.00	91.02	91.40	-90.00	5,027.37	-735.39	1,149.82	968.22	181.60	6.331		
10,800.00	6,083.00	10,847.38	6,083.00	92.74	93.11	-90.00	5,127.37	-735.05	1,149.82	964.77	185.05	6.214		
10,900.00	6,083.00	10,947.38	6,083.00	94.46	94.82	-90.00	5,227.37	-734.71	1,149.82	961.32	188.50	6.100		
11,000.00	6,083.00	11,047.38	6,083.00	96.19	96.54	-90.00	5,327.37	-734.37	1,149.81	957.86	191.95	5.990		
11,100.00	6,083.00	11,147.38	6,083.00	97.91	98.25	-90.00	5,427.37	-734.03	1,149.81	954.41	195.41	5.884		
11,200.00	6,083.00	11,247.38	6,083.00	99.64	99.97	-90.00	5,527.37	-733.69	1,149.81	950.94	198.86	5.782		
11,300.00	6,083.00	11,347.38	6,083.00	101.37	101.69	-90.00	5,627.37	-733.35	1,149.81	947.48	202.33	5.683		
11,400.00	6,083.00	11,447.38	6,083.00	103.10	103.42	-90.00	5,727.37	-733.01	1,149.81	944.01	205.79	5.587		
11,500.00	6,083.00	11,547.38	6,083.00	104.83	105.14	-90.00	5,827.36	-732.67	1,149.80	940.54	209.26	5.495		
11,600.00	6,083.00	11,647.38	6,083.00	106.56	106.87	-90.00	5,927.36	-732.33	1,149.80	937.07	212.73	5.405		
11,700.00	6,083.00	11,747.38	6,083.00	108.30	108.59	-90.00	6,027.36	-731.99	1,149.80	933.60	216.20	5.318		
11,800.00	6,083.00	11,847.38	6,083.00	110.03	110.32	-90.00	6,127.36	-731.65	1,149.80	930.12	219.68	5.234		
11,900.00	6,083.00	11,947.38	6,083.00	111.77	112.05	-90.00	6,227.36	-731.31	1,149.79	926.64	223.16	5.152		
12,000.00	6,083.00	12,047.38	6,083.00	113.51	113.78	-90.00	6,327.36	-730.97	1,149.79	923.16	226.64	5.073		
12,100.00	6,083.00	12,147.38	6,083.00	115.24	115.52	-90.00	6,427.36	-730.63	1,149.79	919.67	230.12	4.997		
12,200.00	6,083.00	12,247.38	6,083.00	116.98	117.25	-90.00	6,527.36	-730.29	1,149.79	916.19	233.60	4.922		
12,300.00	6,083.00	12,347.38	6,083.00	118.73	118.99	-90.00	6,627.36	-729.95	1,149.79	912.70	237.09	4.850		
12,400.00	6,083.00	12,447.38	6,083.00	120.47	120.72	-90.00	6,727.36	-729.62	1,149.78	909.21	240.57	4.779		
12,500.00	6,083.00	12,547.38	6,083.00	122.21	122.46	-90.00	6,827.36	-729.28	1,149.78	905.72	244.06	4.711		
12,600.00	6,083.00	12,647.38	6,083.00	123.95	124.20	-90.00	6,927.36	-728.94	1,149.78	902.23	247.55	4.645		
12,700.00	6,083.00	12,747.38	6,083.00	125.70	125.94	-90.00	7,027.36	-728.60	1,149.78	898.73	251.05	4.580		
12,800.00	6,083.00	12,847.38	6,083.00	127.44	127.68	-90.00	7,127.36	-728.26	1,149.78	895.24	254.54	4.517		
12,900.00	6,083.00	12,947.38	6,083.00	129.19	129.42	-90.00	7,227.36	-727.92	1,149.77	891.74	258.04	4.456		
13,000.00	6,083.00	13,047.38	6,083.00	130.94	131.16	-90.00	7,327.36	-727.58	1,149.77	888.24	261.53	4.396		
13,100.00	6,083.00	13,147.38	6,083.00	132.68	132.91	-90.00	7,427.36	-727.24	1,149.77	884.74	265.03	4.338		
13,200.00	6,083.00	13,247.38	6,083.00	134.43	134.65	-90.00	7,527.35	-726.90	1,149.77	881.24	268.53	4.282		
13,300.00	6,083.00	13,347.38	6,083.00	136.18	136.39	-90.00	7,627.35	-726.56	1,149.77	877.73	272.03	4.227		
13,400.00	6,083.00	13,447.38	6,083.00	137.93	138.14	-90.00	7,727.35	-726.22	1,149.76	874.23	275.53	4.173		
13,500.00	6,083.00	13,547.38	6,083.00	139.68	139.89	-90.00	7,827.35	-725.88	1,149.76	870.73	279.04	4.120		
13,600.00	6,083.00	13,647.38	6,083.00	141.43	141.63	-90.00	7,927.35	-725.54	1,149.76	867.22	282.54	4.069		
13,700.00	6,083.00	13,747.38	6,083.00	143.18	143.38	-90.00	8,027.35	-725.20	1,149.76	863.71	286.05	4.019		
13,800.00	6,083.00	13,847.38	6,083.00	144.94	145.13	-90.00	8,127.35	-724.86	1,149.76	860.20	289.55	3.971		
13,900.00	6,083.00	13,947.38	6,083.00	146.69	146.88	-90.00	8,227.35	-724.52	1,149.75	856.69	293.06	3.923		
14,000.00	6,083.00	14,047.38	6,083.00	148.44	148.63	-90.00	8,327.35	-724.18	1,149.75	853.18	296.57	3.877		
14,100.00	6,083.00	14,147.38	6,083.00	150.20	150.38	-90.00	8,427.35	-723.84	1,149.75	849.67	300.08	3.832		
14,200.00	6,083.00	14,247.38	6,083.00	151.95	152.13	-90.00	8,527.35	-723.50	1,149.75	846.16	303.59	3.787		
14,300.00	6,083.00	14,347.38	6,083.00	153.70	153.88	-90.00	8,627.35	-723.16	1,149.74	842.65	307.10	3.744		
14,400.00	6,083.00	14,447.38	6,083.00	155.46	155.63	-90.00	8,727.35	-722.82	1,149.74	839.13	310.61	3.702		
14,500.00	6,083.00	14,547.38	6,083.00	157.21	157.38	-90.00	8,827.35	-722.48	1,149.74	835.62	314.12	3.660		
14,600.00	6,083.00	14,647.38	6,083.00	158.97	159.13	-90.00	8,927.35	-722.15	1,149.74	832.10	317.64	3.620		
14,700.00	6,083.00	14,747.38	6,083.00	160.73	160.89	-90.00	9,027.35	-721.81	1,149.74	828.59	321.15	3.580		
14,800.00	6,083.00	14,847.38	6,083.00	162.48	162.64	-90.00	9,127.35	-721.47	1,149.73	825.07	324.66	3.541		
14,900.00	6,083.00	14,947.38	6,083.00	164.24	164.39	-90.00	9,227.35	-721.13	1,149.73	821.55	328.18	3.503		
15,000.00	6,083.00	15,047.38	6,083.00	166.00	166.15	-90.00	9,327.34	-720.79	1,149.73	818.03	331.70	3.466		
15,100.00	6,083.00	15,147.38	6,083.00	167.75	167.90	-90.00	9,427.34	-720.45	1,149.73	814.51	335.21	3.430		
15,200.00	6,083.00	15,247.38	6,083.00	169.51	169.66	-90.00	9,527.34	-720.11	1,149.73	810.99	338.73	3.394		
15,300.00	6,083.00	15,347.38	6,083.00	171.27	171.41	-90.00	9,627.34	-719.77	1,149.72	807.47	342.25	3.359		
15,400.00	6,083.00	15,447.38	6,083.00	173.03	173.17	-90.00	9,727.34	-719.43	1,149.72	803.95	345.77	3.325		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL 2												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 147-MWD OWSG, 1635-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,547.38	6,083.00	174.79	174.93	-90.00	9,827.34	-719.09	1,149.72	800.43	349.29	3.292	
15,600.00	6,083.00	15,647.38	6,083.00	176.55	176.68	-90.00	9,927.34	-718.75	1,149.72	796.91	352.81	3.259	
15,700.00	6,083.00	15,747.38	6,083.00	178.31	178.44	-90.00	10,027.34	-718.41	1,149.72	793.39	356.33	3.227	
15,800.00	6,083.00	15,847.38	6,083.00	180.07	180.20	-90.00	10,127.34	-718.07	1,149.71	789.86	359.85	3.195	
15,900.00	6,083.00	15,947.38	6,083.00	181.83	181.95	-90.00	10,227.34	-717.73	1,149.71	786.34	363.37	3.164	
16,000.00	6,083.00	16,047.38	6,083.00	183.59	183.71	-90.00	10,327.34	-717.39	1,149.71	782.82	366.89	3.134	
16,015.53	6,083.00	16,062.91	6,083.00	183.86	183.99	-90.00	10,342.86	-717.34	1,149.71	782.27	367.44	3.129	
16,028.23	6,083.00	16,063.34	6,083.00	184.08	183.99	-90.00	10,343.29	-717.34	1,149.77	782.07	367.71	3.127 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL 1													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	0.00	14.95	0.00	14.95					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	14.95	0.00	14.95	14.41	0.54	27.794		
200.00	200.00	200.00	200.00	0.63	0.63	0.00	14.95	0.00	14.95	13.69	1.25	11.912		
300.00	299.98	299.98	299.98	0.98	0.99	-70.05	14.95	0.00	14.26	12.29	1.97	7.245		
394.65	394.50	394.50	394.50	1.32	1.32	-89.99	14.95	0.00	13.40	10.76	2.65	5.066 CC		
400.00	399.84	399.84	399.84	1.34	1.34	-91.56	14.95	0.00	13.41	10.72	2.68	4.995 ES		
500.00	499.55	498.98	498.96	1.71	1.70	-119.28	16.17	-1.20	17.27	13.87	3.41	5.073		
600.00	599.25	598.30	598.19	2.08	2.05	-132.26	19.25	-4.21	25.95	21.83	4.12	6.300		
700.00	698.96	697.80	697.59	2.45	2.41	-138.46	22.44	-7.34	35.41	30.58	4.83	7.327		
800.00	798.67	797.30	796.98	2.83	2.77	-142.03	25.64	-10.47	45.12	39.57	5.55	8.130		
900.00	898.37	896.80	896.38	3.21	3.13	-144.33	28.83	-13.61	54.93	48.66	6.27	8.766		
1,000.00	998.08	996.29	995.78	3.58	3.49	-145.93	32.03	-16.74	64.81	57.82	6.99	9.278		
1,100.00	1,097.78	1,095.79	1,095.17	3.96	3.85	-147.10	35.23	-19.87	74.72	67.01	7.70	9.698		
1,200.00	1,197.49	1,195.29	1,194.57	4.34	4.21	-148.00	38.42	-23.00	84.66	76.23	8.42	10.049		
1,300.00	1,297.19	1,294.79	1,293.97	4.72	4.58	-148.72	41.62	-26.13	94.61	85.46	9.14	10.345		
1,400.00	1,396.90	1,394.28	1,393.36	5.10	4.94	-149.29	44.81	-29.26	104.57	94.71	9.87	10.599		
1,500.00	1,496.60	1,493.78	1,492.76	5.47	5.30	-149.77	48.01	-32.39	114.54	103.96	10.59	10.819		
1,600.00	1,596.31	1,593.28	1,592.16	5.85	5.66	-150.17	51.21	-35.52	124.52	113.22	11.31	11.012		
1,700.00	1,696.02	1,692.78	1,691.55	6.23	6.02	-150.51	54.40	-38.65	134.51	122.48	12.03	11.181		
1,800.00	1,795.72	1,792.27	1,790.95	6.61	6.39	-150.80	57.60	-41.78	144.50	131.75	12.75	11.331		
1,900.00	1,895.43	1,891.77	1,890.35	6.99	6.75	-151.06	60.79	-44.91	154.49	141.02	13.47	11.466		
2,000.00	1,995.13	1,991.27	1,989.74	7.37	7.11	-151.28	63.99	-48.04	164.48	150.29	14.20	11.587		
2,100.00	2,094.84	2,090.76	2,089.14	7.75	7.48	-151.48	67.19	-51.18	174.48	159.56	14.92	11.696		
2,200.00	2,194.54	2,190.26	2,188.54	8.13	7.84	-151.66	70.38	-54.31	184.48	168.84	15.64	11.795		
2,300.00	2,294.25	2,289.76	2,287.93	8.51	8.20	-151.81	73.58	-57.44	194.48	178.12	16.36	11.885		
2,400.00	2,393.95	2,389.26	2,387.33	8.89	8.57	-151.96	76.78	-60.57	204.48	187.40	17.09	11.968		
2,500.00	2,493.66	2,488.75	2,486.73	9.26	8.93	-152.09	79.97	-63.70	214.48	196.68	17.81	12.044		
2,600.00	2,593.37	2,588.25	2,586.12	9.64	9.29	-152.21	83.17	-66.83	224.49	205.96	18.53	12.115		
2,700.00	2,693.07	2,687.75	2,685.52	10.02	9.65	-152.31	86.36	-69.96	234.49	215.24	19.25	12.180		
2,800.00	2,792.78	2,787.25	2,784.92	10.40	10.02	-152.41	89.56	-73.09	244.50	224.52	19.98	12.240		
2,900.00	2,892.48	2,886.74	2,884.32	10.78	10.38	-152.50	92.76	-76.22	254.50	233.80	20.70	12.296		
3,000.00	2,992.19	2,986.24	2,983.71	11.16	10.74	-152.59	95.95	-79.35	264.51	243.09	21.42	12.348		
3,100.00	3,091.89	3,085.74	3,083.11	11.54	11.11	-152.67	99.15	-82.48	274.52	252.37	22.14	12.397		
3,200.00	3,191.60	3,185.24	3,182.51	11.92	11.47	-152.74	102.34	-85.61	284.52	261.66	22.87	12.443		
3,300.00	3,291.31	3,284.73	3,281.90	12.30	11.83	-152.81	105.54	-88.75	294.53	270.94	23.59	12.486		
3,400.00	3,391.01	3,384.23	3,381.30	12.68	12.20	-152.87	108.74	-91.88	304.54	280.23	24.31	12.526		
3,500.00	3,490.72	3,483.73	3,480.70	13.06	12.56	-152.93	111.93	-95.01	314.55	289.51	25.04	12.564		
3,600.00	3,590.42	3,583.23	3,580.09	13.44	12.92	-152.99	115.13	-98.14	324.56	298.80	25.76	12.600		
3,700.00	3,690.13	3,682.72	3,679.49	13.82	13.29	-153.04	118.32	-101.27	334.57	308.09	26.48	12.634		
3,800.00	3,789.83	3,782.22	3,778.89	14.19	13.65	-153.09	121.52	-104.40	344.58	317.37	27.20	12.666		
3,900.00	3,889.54	3,881.72	3,878.28	14.57	14.01	-153.14	124.72	-107.53	354.59	326.66	27.93	12.697		
4,000.00	3,989.24	3,981.21	3,977.68	14.95	14.38	-153.18	127.91	-110.66	364.60	335.95	28.65	12.726		
4,100.00	4,088.95	4,080.71	4,077.08	15.33	14.74	-153.22	131.11	-113.79	374.61	345.23	29.37	12.753		
4,200.00	4,188.66	4,180.21	4,176.47	15.71	15.10	-153.26	134.30	-116.92	384.62	354.52	30.10	12.780		
4,300.00	4,288.36	4,279.71	4,275.87	16.09	15.47	-153.30	137.50	-120.05	394.63	363.81	30.82	12.805		
4,400.00	4,388.07	4,379.20	4,375.27	16.47	15.83	-153.33	140.70	-123.18	404.64	373.10	31.54	12.828		
4,500.00	4,487.77	4,478.70	4,474.66	16.85	16.19	-153.37	143.89	-126.32	414.65	382.38	32.27	12.851		
4,600.00	4,587.48	4,578.20	4,574.06	17.23	16.56	-153.40	147.09	-129.45	424.66	391.67	32.99	12.873		
4,700.00	4,687.18	4,677.70	4,673.46	17.61	16.92	-153.43	150.29	-132.58	434.67	400.96	33.71	12.894		
4,800.00	4,786.89	4,777.19	4,772.85	17.99	17.28	-153.46	153.48	-135.71	444.68	410.25	34.43	12.914		
4,900.00	4,886.59	4,876.69	4,872.25	18.37	17.65	-153.49	156.68	-138.84	454.69	419.54	35.16	12.933		
5,000.00	4,986.30	4,976.19	4,971.65	18.75	18.01	-153.52	159.87	-141.97	464.70	428.82	35.88	12.951		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL 1													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	5,086.01	5,075.69	5,071.04	19.13	18.37	-153.54	163.07	-145.10	474.72	438.11	36.60	12.969		
5,200.00	5,185.71	5,175.18	5,170.44	19.51	18.74	-153.57	166.27	-148.23	484.73	447.40	37.33	12.986		
5,300.00	5,285.42	5,274.68	5,269.84	19.89	19.10	-153.59	169.46	-151.36	494.74	456.69	38.05	13.002		
5,400.00	5,385.12	5,374.18	5,369.23	20.26	19.46	-153.61	172.66	-154.49	504.75	465.98	38.77	13.018		
5,500.00	5,484.83	5,473.67	5,468.63	20.64	19.83	-153.64	175.85	-157.62	514.76	475.27	39.50	13.033		
5,600.00	5,584.37	5,573.35	5,568.13	21.03	20.19	-117.97	180.42	-160.75	524.76	484.54	40.23	13.045		
5,700.00	5,681.71	5,673.67	5,666.49	21.43	20.58	-101.95	199.22	-163.80	534.56	493.55	41.01	13.035		
5,800.00	5,773.87	5,774.52	5,760.56	21.85	20.99	-96.82	235.11	-166.65	543.85	502.00	41.86	12.993		
5,900.00	5,858.06	5,875.93	5,847.35	22.29	21.44	-94.17	287.25	-169.22	552.35	509.56	42.79	12.909		
6,000.00	5,931.71	5,977.88	5,923.98	22.78	21.94	-92.53	354.25	-171.41	559.79	515.96	43.83	12.771		
6,100.00	5,992.59	6,080.32	5,987.81	23.33	22.52	-91.42	434.17	-173.16	565.95	520.93	45.02	12.571		
6,200.00	6,038.86	6,183.16	6,036.59	23.96	23.19	-90.68	524.54	-174.39	570.64	524.26	46.38	12.304		
6,300.00	6,069.09	6,286.28	6,068.51	24.69	23.96	-90.22	622.45	-175.07	573.70	525.79	47.91	11.976		
6,400.00	6,082.38	6,389.54	6,082.42	25.49	24.80	-90.02	724.63	-175.16	575.03	525.45	49.58	11.597		
6,500.00	6,083.00	6,490.36	6,083.00	26.37	25.69	-90.00	825.44	-174.83	575.09	523.71	51.38	11.193		
6,600.00	6,083.00	6,590.36	6,083.00	27.33	26.67	-90.00	925.44	-174.49	575.09	521.75	53.34	10.781		
6,700.00	6,083.00	6,690.36	6,083.00	28.37	27.72	-90.00	1,025.44	-174.15	575.09	519.63	55.46	10.369		
6,800.00	6,083.00	6,790.36	6,083.00	29.48	28.85	-90.00	1,125.44	-173.81	575.08	517.36	57.72	9.963		
6,900.00	6,083.00	6,890.36	6,083.00	30.66	30.04	-90.00	1,225.44	-173.47	575.08	514.98	60.10	9.568		
7,000.00	6,083.00	6,990.36	6,083.00	31.89	31.28	-90.00	1,325.44	-173.14	575.08	512.48	62.60	9.187		
7,100.00	6,083.00	7,090.36	6,083.00	33.17	32.57	-90.00	1,425.44	-172.80	575.08	509.89	65.19	8.821		
7,200.00	6,083.00	7,190.36	6,083.00	34.49	33.91	-90.00	1,525.44	-172.46	575.07	507.20	67.87	8.473		
7,300.00	6,083.00	7,290.36	6,083.00	35.85	35.28	-90.00	1,625.44	-172.12	575.07	504.45	70.63	8.143		
7,400.00	6,083.00	7,390.36	6,083.00	37.25	36.69	-90.00	1,725.44	-171.78	575.07	501.62	73.45	7.830		
7,500.00	6,083.00	7,490.36	6,083.00	38.67	38.13	-90.00	1,825.44	-171.44	575.07	498.73	76.33	7.534		
7,600.00	6,083.00	7,590.36	6,083.00	40.13	39.60	-90.00	1,925.44	-171.10	575.06	495.79	79.27	7.254		
7,700.00	6,083.00	7,690.36	6,083.00	41.61	41.09	-90.00	2,025.44	-170.76	575.06	492.81	82.26	6.991		
7,800.00	6,083.00	7,790.36	6,083.00	43.11	42.60	-90.00	2,125.44	-170.42	575.06	489.77	85.29	6.743		
7,900.00	6,083.00	7,890.36	6,083.00	44.63	44.13	-90.00	2,225.44	-170.08	575.06	486.70	88.35	6.509		
8,000.00	6,083.00	7,990.36	6,083.00	46.17	45.68	-90.00	2,325.44	-169.74	575.05	483.60	91.46	6.288		
8,100.00	6,083.00	8,090.36	6,083.00	47.73	47.25	-90.00	2,425.43	-169.40	575.05	480.46	94.59	6.079		
8,200.00	6,083.00	8,190.36	6,083.00	49.30	48.83	-90.00	2,525.43	-169.06	575.05	477.30	97.75	5.883		
8,300.00	6,083.00	8,290.36	6,083.00	50.88	50.42	-90.00	2,625.43	-168.72	575.05	474.11	100.94	5.697		
8,400.00	6,083.00	8,390.36	6,083.00	52.48	52.02	-90.00	2,725.43	-168.38	575.04	470.89	104.15	5.521		
8,500.00	6,083.00	8,490.36	6,083.00	54.09	53.64	-90.00	2,825.43	-168.04	575.04	467.66	107.38	5.355		
8,600.00	6,083.00	8,590.36	6,083.00	55.70	55.26	-90.00	2,925.43	-167.70	575.04	464.41	110.63	5.198		
8,700.00	6,083.00	8,690.36	6,083.00	57.33	56.90	-90.00	3,025.43	-167.36	575.04	461.13	113.90	5.048		
8,800.00	6,083.00	8,790.36	6,083.00	58.96	58.54	-90.00	3,125.43	-167.02	575.03	457.85	117.19	4.907		
8,900.00	6,083.00	8,890.36	6,083.00	60.61	60.19	-90.00	3,225.43	-166.68	575.03	454.54	120.49	4.773		
9,000.00	6,083.00	8,990.36	6,083.00	62.26	61.84	-90.00	3,325.43	-166.34	575.03	451.23	123.80	4.645		
9,100.00	6,083.00	9,090.36	6,083.00	63.91	63.50	-90.00	3,425.43	-166.00	575.03	447.90	127.13	4.523		
9,200.00	6,083.00	9,190.36	6,083.00	65.58	65.17	-90.00	3,525.43	-165.66	575.02	444.56	130.47	4.407		
9,300.00	6,083.00	9,290.36	6,083.00	67.24	66.85	-90.00	3,625.43	-165.32	575.02	441.21	133.82	4.297		
9,400.00	6,083.00	9,390.36	6,083.00	68.92	68.53	-90.00	3,725.43	-164.98	575.02	437.84	137.17	4.192		
9,500.00	6,083.00	9,490.36	6,083.00	70.60	70.21	-90.00	3,825.43	-164.64	575.02	434.47	140.54	4.091		
9,600.00	6,083.00	9,590.36	6,083.00	72.28	71.90	-90.00	3,925.43	-164.30	575.01	431.09	143.92	3.995		
9,700.00	6,083.00	9,690.36	6,083.00	73.97	73.59	-90.00	4,025.43	-163.96	575.01	427.71	147.30	3.904		
9,800.00	6,083.00	9,790.36	6,083.00	75.66	75.28	-90.00	4,125.42	-163.62	575.01	424.31	150.70	3.816		
9,900.00	6,083.00	9,890.36	6,083.00	77.35	76.98	-90.00	4,225.42	-163.28	575.01	420.91	154.10	3.731		
10,000.00	6,083.00	9,990.36	6,083.00	79.05	78.69	-90.00	4,325.42	-162.94	575.00	417.50	157.50	3.651		
10,100.00	6,083.00	10,090.36	6,083.00	80.75	80.39	-90.00	4,425.42	-162.60	575.00	414.09	160.91	3.573		
10,200.00	6,083.00	10,190.36	6,083.00	82.46	82.10	-90.00	4,525.42	-162.26	575.00	410.67	164.33	3.499		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL 1													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		
10,300.00	6,083.00	10,290.36	6,083.00	84.17	83.81	-90.00	4,625.42	-161.92	575.00	407.24	167.76	3.428		
10,400.00	6,083.00	10,390.36	6,083.00	85.88	85.52	-90.00	4,725.42	-161.58	574.99	403.81	171.18	3.359		
10,500.00	6,083.00	10,490.36	6,083.00	87.59	87.24	-90.00	4,825.42	-161.24	574.99	400.37	174.62	3.293		
10,600.00	6,083.00	10,590.36	6,083.00	89.30	88.96	-90.00	4,925.42	-160.90	574.99	396.93	178.05	3.229		
10,700.00	6,083.00	10,690.36	6,083.00	91.02	90.68	-90.00	5,025.42	-160.56	574.99	393.49	181.50	3.168		
10,800.00	6,083.00	10,790.36	6,083.00	92.74	92.40	-90.00	5,125.42	-160.22	574.98	390.04	184.94	3.109		
10,900.00	6,083.00	10,890.36	6,083.00	94.46	94.13	-90.00	5,225.42	-159.88	574.98	386.59	188.39	3.052		
11,000.00	6,083.00	10,990.36	6,083.00	96.19	95.85	-90.00	5,325.42	-159.54	574.98	383.13	191.85	2.997		
11,100.00	6,083.00	11,090.36	6,083.00	97.91	97.58	-90.00	5,425.42	-159.20	574.98	379.67	195.30	2.944		
11,200.00	6,083.00	11,190.36	6,083.00	99.64	99.31	-90.00	5,525.42	-158.86	574.97	376.21	198.76	2.893		
11,300.00	6,083.00	11,290.36	6,083.00	101.37	101.04	-90.00	5,625.42	-158.52	574.97	372.75	202.22	2.843		
11,400.00	6,083.00	11,390.36	6,083.00	103.10	102.77	-90.00	5,725.42	-158.18	574.97	369.28	205.69	2.795		
11,500.00	6,083.00	11,490.36	6,083.00	104.83	104.51	-90.00	5,825.42	-157.84	574.97	365.81	209.16	2.749		
11,600.00	6,083.00	11,590.36	6,083.00	106.56	106.24	-90.00	5,925.41	-157.50	574.96	362.33	212.63	2.704		
11,700.00	6,083.00	11,690.36	6,083.00	108.30	107.98	-90.00	6,025.41	-157.16	574.96	358.86	216.10	2.661		
11,800.00	6,083.00	11,790.36	6,083.00	110.03	109.72	-90.00	6,125.41	-156.82	574.96	355.38	219.58	2.618		
11,900.00	6,083.00	11,890.36	6,083.00	111.77	111.46	-90.00	6,225.41	-156.48	574.96	351.90	223.06	2.578		
12,000.00	6,083.00	11,990.36	6,083.00	113.51	113.20	-90.00	6,325.41	-156.14	574.95	348.42	226.54	2.538		
12,100.00	6,083.00	12,090.36	6,083.00	115.24	114.94	-90.00	6,425.41	-155.80	574.95	344.93	230.02	2.500		
12,200.00	6,083.00	12,190.36	6,083.00	116.98	116.68	-90.00	6,525.41	-155.46	574.95	341.44	233.50	2.462		
12,300.00	6,083.00	12,290.36	6,083.00	118.73	118.42	-90.00	6,625.41	-155.12	574.95	337.96	236.99	2.426		
12,400.00	6,083.00	12,390.36	6,083.00	120.47	120.17	-90.00	6,725.41	-154.78	574.94	334.47	240.48	2.391		
12,500.00	6,083.00	12,490.36	6,083.00	122.21	121.91	-90.00	6,825.41	-154.44	574.94	330.97	243.97	2.357		
12,600.00	6,083.00	12,590.36	6,083.00	123.95	123.66	-90.00	6,925.41	-154.10	574.94	327.48	247.46	2.323		
12,700.00	6,083.00	12,690.36	6,083.00	125.70	125.40	-90.00	7,025.41	-153.76	574.94	323.98	250.95	2.291		
12,800.00	6,083.00	12,790.36	6,083.00	127.44	127.15	-90.00	7,125.41	-153.42	574.93	320.49	254.45	2.260		
12,900.00	6,083.00	12,890.36	6,083.00	129.19	128.90	-90.00	7,225.41	-153.08	574.93	316.99	257.94	2.229		
13,000.00	6,083.00	12,990.36	6,083.00	130.94	130.65	-90.00	7,325.41	-152.74	574.93	313.49	261.44	2.199		
13,100.00	6,083.00	13,090.36	6,083.00	132.68	132.39	-90.00	7,425.41	-152.40	574.93	309.99	264.94	2.170		
13,200.00	6,083.00	13,190.36	6,083.00	134.43	134.14	-90.00	7,525.41	-152.06	574.92	306.48	268.44	2.142		
13,300.00	6,083.00	13,290.36	6,083.00	136.18	135.89	-90.00	7,625.40	-151.72	574.92	302.98	271.94	2.114		
13,400.00	6,083.00	13,390.36	6,083.00	137.93	137.65	-90.00	7,725.40	-151.38	574.92	299.48	275.44	2.087		
13,500.00	6,083.00	13,490.36	6,083.00	139.68	139.40	-90.00	7,825.40	-151.04	574.92	295.97	278.95	2.061		
13,600.00	6,083.00	13,590.36	6,083.00	141.43	141.15	-90.00	7,925.40	-150.70	574.91	292.46	282.45	2.035		
13,700.00	6,083.00	13,690.36	6,083.00	143.18	142.90	-90.00	8,025.40	-150.36	574.91	288.95	285.96	2.010		
13,800.00	6,083.00	13,790.36	6,083.00	144.94	144.66	-90.00	8,125.40	-150.02	574.91	285.45	289.46	1.986		
13,900.00	6,083.00	13,890.36	6,083.00	146.69	146.41	-90.00	8,225.40	-149.68	574.91	281.94	292.97	1.962		
14,000.00	6,083.00	13,990.36	6,083.00	148.44	148.16	-90.00	8,325.40	-149.34	574.90	278.42	296.48	1.939		
14,100.00	6,083.00	14,090.36	6,083.00	150.20	149.92	-90.00	8,425.40	-149.00	574.90	274.91	299.99	1.916		
14,200.00	6,083.00	14,190.36	6,083.00	151.95	151.67	-90.00	8,525.40	-148.66	574.90	271.40	303.50	1.894		
14,300.00	6,083.00	14,290.36	6,083.00	153.70	153.43	-90.00	8,625.40	-148.32	574.90	267.89	307.01	1.873		
14,400.00	6,083.00	14,390.36	6,083.00	155.46	155.18	-90.00	8,725.40	-147.98	574.89	264.37	310.52	1.851		
14,500.00	6,083.00	14,490.36	6,083.00	157.21	156.94	-90.00	8,825.40	-147.64	574.89	260.85	314.04	1.831		
14,600.00	6,083.00	14,590.36	6,083.00	158.97	158.70	-90.00	8,925.40	-147.30	574.89	257.34	317.55	1.810		
14,700.00	6,083.00	14,690.36	6,083.00	160.73	160.46	-90.00	9,025.40	-146.96	574.89	253.82	321.06	1.791		
14,800.00	6,083.00	14,790.36	6,083.00	162.48	162.21	-90.00	9,125.40	-146.62	574.88	250.30	324.58	1.771		
14,900.00	6,083.00	14,890.36	6,083.00	164.24	163.97	-90.00	9,225.40	-146.28	574.88	246.79	328.10	1.752		
15,000.00	6,083.00	14,990.36	6,083.00	166.00	165.73	-90.00	9,325.40	-145.94	574.88	243.27	331.61	1.734		
15,100.00	6,083.00	15,090.36	6,083.00	167.75	167.49	-90.00	9,425.39	-145.60	574.88	239.75	335.13	1.715		
15,200.00	6,083.00	15,190.36	6,083.00	169.51	169.25	-90.00	9,525.39	-145.26	574.87	236.23	338.65	1.698		
15,300.00	6,083.00	15,290.36	6,083.00	171.27	171.01	-90.00	9,625.39	-144.92	574.87	232.71	342.17	1.680		
15,400.00	6,083.00	15,390.36	6,083.00	173.03	172.76	-90.00	9,725.39	-144.58	574.87	229.18	345.69	1.663		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,490.36	6,083.00	174.79	174.52	-90.00	9,825.39	-144.24	574.87	225.66	349.21	1.646	
15,600.00	6,083.00	15,590.36	6,083.00	176.55	176.28	-90.00	9,925.39	-143.90	574.86	222.14	352.73	1.630	
15,700.00	6,083.00	15,690.36	6,083.00	178.31	178.04	-90.00	10,025.39	-143.56	574.86	218.62	356.25	1.614	
15,800.00	6,083.00	15,790.36	6,083.00	180.07	179.81	-90.00	10,125.39	-143.22	574.86	215.09	359.77	1.598	
15,900.00	6,083.00	15,890.36	6,083.00	181.83	181.57	-90.00	10,225.39	-142.88	574.86	211.57	363.29	1.582	
16,000.00	6,083.00	15,990.36	6,083.00	183.59	183.33	-90.00	10,325.39	-142.54	574.85	208.04	366.81	1.567	
16,022.80	6,083.00	16,013.13	6,083.00	183.99	183.73	-90.00	10,348.16	-142.46	574.85	207.24	367.61	1.564	
16,028.23	6,083.00	16,013.13	6,083.00	184.08	183.73	-90.00	10,348.16	-142.46	574.88	207.22	367.66	1.564 SF	



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL 1													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	-180.00	-14.93	0.00	14.93					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-14.93	0.00	14.93	14.39	0.54	27.764		
200.00	200.00	200.07	200.05	0.63	0.62	173.31	-14.56	1.71	14.66	13.41	1.25	11.717		
220.40	220.40	220.47	220.43	0.70	0.70	106.78	-14.39	2.47	14.62	13.22	1.40	10.467 CC		
300.00	299.98	300.00	299.84	0.98	0.99	95.96	-13.44	6.82	15.15	13.19	1.97	7.708 ES		
400.00	399.84	399.78	399.24	1.34	1.36	84.47	-11.59	15.31	17.25	14.56	2.70	6.401		
500.00	499.55	499.37	498.08	1.71	1.75	73.67	-9.01	27.15	20.96	17.52	3.44	6.093		
600.00	599.25	598.55	596.04	2.08	2.17	60.74	-5.71	42.27	27.39	23.22	4.18	6.556		
700.00	698.96	698.06	694.09	2.45	2.61	51.40	-2.08	58.90	35.88	30.97	4.91	7.304		
800.00	798.67	797.57	792.13	2.83	3.05	45.71	1.55	75.53	44.94	39.30	5.64	7.963		
900.00	898.37	897.08	890.17	3.21	3.50	41.95	5.17	92.16	54.30	47.92	6.38	8.515		
1,000.00	998.08	996.59	988.21	3.58	3.95	39.31	8.80	108.79	63.82	56.71	7.11	8.974		
1,100.00	1,097.78	1,096.10	1,086.26	3.96	4.40	37.35	12.43	125.42	73.44	65.59	7.85	9.359		
1,200.00	1,197.49	1,195.61	1,184.30	4.34	4.86	35.85	16.06	142.05	83.12	74.54	8.58	9.684		
1,300.00	1,297.19	1,295.12	1,282.34	4.72	5.31	34.66	19.68	158.68	92.85	83.53	9.32	9.962		
1,400.00	1,396.90	1,394.63	1,380.38	5.10	5.77	33.70	23.31	175.31	102.62	92.56	10.06	10.202		
1,500.00	1,496.60	1,494.14	1,478.43	5.47	6.23	32.90	26.94	191.94	112.40	101.60	10.80	10.410		
1,600.00	1,596.31	1,593.64	1,576.47	5.85	6.68	32.24	30.57	208.57	122.20	110.67	11.54	10.593		
1,700.00	1,696.02	1,693.15	1,674.51	6.23	7.14	31.67	34.20	225.20	132.02	119.75	12.28	10.755		
1,800.00	1,795.72	1,792.66	1,772.55	6.61	7.60	31.18	37.82	241.83	141.85	128.84	13.01	10.899		
1,900.00	1,895.43	1,892.17	1,870.60	6.99	8.06	30.75	41.45	258.46	151.69	137.93	13.75	11.029		
2,000.00	1,995.13	1,991.68	1,968.64	7.37	8.51	30.38	45.08	275.09	161.53	147.04	14.49	11.145		
2,100.00	2,094.84	2,091.19	2,066.68	7.75	8.97	30.05	48.71	291.72	171.38	156.15	15.23	11.250		
2,200.00	2,194.54	2,190.70	2,164.72	8.13	9.43	29.75	52.33	308.35	181.24	165.26	15.97	11.346		
2,300.00	2,294.25	2,290.21	2,262.77	8.51	9.89	29.49	55.96	324.98	191.10	174.38	16.71	11.433		
2,400.00	2,393.95	2,389.72	2,360.81	8.89	10.35	29.25	59.59	341.61	200.96	183.51	17.45	11.513		
2,500.00	2,493.66	2,489.23	2,458.85	9.26	10.81	29.03	63.22	358.24	210.83	192.63	18.19	11.587		
2,600.00	2,593.37	2,588.74	2,558.89	9.64	11.27	28.84	66.84	374.87	220.70	201.76	18.94	11.655		
2,700.00	2,693.07	2,688.24	2,654.94	10.02	11.73	28.65	70.47	391.50	230.57	210.89	19.68	11.718		
2,800.00	2,792.78	2,787.75	2,752.98	10.40	12.18	28.49	74.10	408.13	240.44	220.03	20.42	11.777		
2,900.00	2,892.48	2,887.26	2,851.02	10.78	12.64	28.34	77.73	424.76	250.32	229.16	21.16	11.831		
3,000.00	2,992.19	2,986.77	2,949.06	11.16	13.10	28.20	81.35	441.39	260.20	238.30	21.90	11.882		
3,100.00	3,091.89	3,086.28	3,047.11	11.54	13.56	28.07	84.98	458.02	270.08	247.44	22.64	11.930		
3,200.00	3,191.60	3,185.79	3,145.15	11.92	14.02	27.94	88.61	474.65	279.96	256.58	23.38	11.974		
3,300.00	3,291.31	3,285.30	3,243.19	12.30	14.48	27.83	92.24	491.28	289.84	265.72	24.12	12.016		
3,400.00	3,391.01	3,384.81	3,341.23	12.68	14.94	27.73	95.86	507.91	299.72	274.86	24.86	12.055		
3,500.00	3,490.72	3,484.32	3,439.28	13.06	15.40	27.63	99.49	524.53	309.60	284.00	25.60	12.092		
3,600.00	3,590.42	3,583.83	3,537.32	13.44	15.86	27.53	103.12	541.16	319.49	293.14	26.34	12.127		
3,700.00	3,690.13	3,683.33	3,635.36	13.82	16.32	27.45	106.75	557.79	329.37	302.29	27.09	12.161		
3,800.00	3,789.83	3,782.84	3,733.40	14.19	16.78	27.37	110.37	574.42	339.26	311.43	27.83	12.192		
3,900.00	3,889.54	3,882.35	3,831.45	14.57	17.24	27.29	114.00	591.05	349.14	320.58	28.57	12.222		
4,000.00	3,989.24	3,981.86	3,929.49	14.95	17.70	27.21	117.63	607.68	359.03	329.72	29.31	12.250		
4,100.00	4,088.95	4,081.37	4,027.53	15.33	18.16	27.15	121.26	624.31	368.92	338.87	30.05	12.277		
4,200.00	4,188.66	4,180.88	4,125.57	15.71	18.62	27.08	124.88	640.94	378.81	348.02	30.79	12.302		
4,300.00	4,288.36	4,280.39	4,223.62	16.09	19.08	27.02	128.51	657.57	388.69	357.16	31.53	12.327		
4,400.00	4,388.07	4,379.90	4,321.66	16.47	19.53	26.96	132.14	674.20	398.58	366.31	32.27	12.350		
4,500.00	4,487.77	4,479.41	4,419.70	16.85	19.99	26.90	135.77	690.83	408.47	375.46	33.02	12.372		
4,600.00	4,587.48	4,578.92	4,517.74	17.23	20.45	26.85	139.39	707.46	418.36	384.61	33.76	12.393		
4,700.00	4,687.18	4,678.43	4,615.79	17.61	20.91	26.80	143.02	724.09	428.25	393.75	34.50	12.414		
4,800.00	4,786.89	4,777.93	4,713.83	17.99	21.37	26.75	146.65	740.72	438.14	402.90	35.24	12.433		
4,900.00	4,886.59	4,877.44	4,811.87	18.37	21.83	26.70	150.28	757.35	448.03	412.05	35.98	12.452		
5,000.00	4,986.30	4,976.95	4,909.91	18.75	22.29	26.66	153.90	773.98	457.92	421.20	36.72	12.470		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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	5,086.01	5,076.46	5,007.96	19.13	22.75	26.61	157.53	790.61	467.82	430.35	37.46	12.487		
5,200.00	5,185.71	5,175.97	5,106.00	19.51	23.21	26.57	161.16	807.24	477.71	439.50	38.21	12.504		
5,300.00	5,285.42	5,275.48	5,204.04	19.89	23.67	26.53	164.79	823.87	487.60	448.65	38.95	12.520		
5,400.00	5,385.12	5,374.99	5,302.08	20.26	24.13	26.50	168.41	840.50	497.49	457.80	39.69	12.535		
5,500.00	5,484.83	5,474.50	5,400.13	20.64	24.59	26.46	172.04	857.13	507.38	466.95	40.43	12.550		
5,600.00	5,584.37	5,573.94	5,498.10	21.03	25.05	61.44	175.67	873.75	517.27	476.09	41.19	12.559		
5,700.00	5,681.71	5,673.83	5,596.31	21.43	25.52	77.39	182.27	890.42	527.27	485.22	42.05	12.540		
5,800.00	5,773.87	5,777.07	5,695.31	21.85	26.01	82.63	205.62	907.27	537.24	494.22	43.02	12.487		
5,900.00	5,858.06	5,883.60	5,791.41	22.29	26.52	85.39	248.17	923.71	546.80	502.69	44.10	12.398		
6,000.00	5,931.71	5,993.50	5,880.65	22.78	27.05	87.15	310.16	939.04	555.54	510.27	45.27	12.272		
6,100.00	5,992.59	6,106.66	5,958.61	23.33	27.60	88.37	390.81	952.53	563.05	516.54	46.51	12.106		
6,200.00	6,038.86	6,222.71	6,020.74	23.96	28.20	89.21	487.99	963.39	568.96	521.13	47.83	11.896		
6,300.00	6,069.09	6,341.03	6,062.92	24.69	28.86	89.74	598.05	970.91	572.93	523.71	49.22	11.639		
6,400.00	6,082.38	6,460.75	6,082.04	25.49	29.61	89.98	715.96	974.55	574.72	524.01	50.71	11.332		
6,500.00	6,083.00	6,566.36	6,083.00	26.37	30.35	90.00	821.55	975.07	574.82	522.37	52.45	10.960		
6,600.00	6,083.00	6,666.36	6,083.00	27.33	31.14	90.00	921.55	975.40	574.82	520.43	54.39	10.569		
6,700.00	6,083.00	6,766.36	6,083.00	28.37	32.01	90.00	1,021.55	975.74	574.82	518.34	56.48	10.177		
6,800.00	6,083.00	6,866.36	6,083.00	29.48	32.96	90.00	1,121.55	976.08	574.82	516.10	58.72	9.790		
6,900.00	6,083.00	6,966.36	6,083.00	30.66	33.99	90.00	1,221.54	976.42	574.82	513.74	61.08	9.412		
7,000.00	6,083.00	7,066.36	6,083.00	31.89	35.08	90.00	1,321.54	976.76	574.82	511.27	63.55	9.046		
7,100.00	6,083.00	7,166.36	6,083.00	33.17	36.22	90.00	1,421.54	977.09	574.82	508.70	66.11	8.694		
7,200.00	6,083.00	7,266.36	6,083.00	34.49	37.42	90.00	1,521.54	977.43	574.82	506.05	68.77	8.359		
7,300.00	6,083.00	7,366.36	6,083.00	35.85	38.67	90.00	1,621.54	977.77	574.82	503.32	71.50	8.039		
7,400.00	6,083.00	7,466.36	6,083.00	37.25	39.95	90.00	1,721.54	978.11	574.82	500.52	74.30	7.736		
7,500.00	6,083.00	7,566.36	6,083.00	38.67	41.28	90.00	1,821.54	978.44	574.82	497.65	77.17	7.449		
7,600.00	6,083.00	7,666.36	6,083.00	40.13	42.64	90.00	1,921.54	978.78	574.82	494.73	80.09	7.178		
7,700.00	6,083.00	7,766.36	6,083.00	41.61	44.03	90.00	2,021.54	979.12	574.82	491.77	83.05	6.921		
7,800.00	6,083.00	7,866.36	6,083.00	43.11	45.44	90.00	2,121.54	979.46	574.82	488.76	86.06	6.679		
7,900.00	6,083.00	7,966.36	6,083.00	44.63	46.89	90.00	2,221.54	979.80	574.82	485.71	89.12	6.450		
8,000.00	6,083.00	8,066.36	6,083.00	46.17	48.35	90.00	2,321.54	980.13	574.82	482.62	92.20	6.234		
8,100.00	6,083.00	8,166.36	6,083.00	47.73	49.84	90.00	2,421.54	980.47	574.82	479.50	95.32	6.030		
8,200.00	6,083.00	8,266.36	6,083.00	49.30	51.34	90.00	2,521.54	980.81	574.82	476.36	98.47	5.838		
8,300.00	6,083.00	8,366.36	6,083.00	50.88	52.86	90.00	2,621.54	981.15	574.82	473.18	101.64	5.655		
8,400.00	6,083.00	8,466.36	6,083.00	52.48	54.40	90.00	2,721.54	981.49	574.82	469.99	104.84	5.483		
8,500.00	6,083.00	8,566.36	6,083.00	54.09	55.95	90.00	2,821.54	981.82	574.82	466.77	108.06	5.320		
8,600.00	6,083.00	8,666.36	6,083.00	55.70	57.52	90.00	2,921.54	982.16	574.82	463.53	111.30	5.165		
8,700.00	6,083.00	8,766.36	6,083.00	57.33	59.09	90.00	3,021.53	982.50	574.83	460.27	114.56	5.018		
8,800.00	6,083.00	8,866.36	6,083.00	58.96	60.68	90.00	3,121.53	982.84	574.83	457.00	117.83	4.878		
8,900.00	6,083.00	8,966.36	6,083.00	60.61	62.28	90.00	3,221.53	983.17	574.83	453.71	121.12	4.746		
9,000.00	6,083.00	9,066.36	6,083.00	62.26	63.89	90.00	3,321.53	983.51	574.83	450.40	124.42	4.620		
9,100.00	6,083.00	9,166.36	6,083.00	63.91	65.50	90.00	3,421.53	983.85	574.83	447.09	127.74	4.500		
9,200.00	6,083.00	9,266.36	6,083.00	65.58	67.13	90.00	3,521.53	984.19	574.83	443.76	131.07	4.386		
9,300.00	6,083.00	9,366.36	6,083.00	67.24	68.76	90.00	3,621.53	984.53	574.83	440.42	134.41	4.277		
9,400.00	6,083.00	9,466.36	6,083.00	68.92	70.40	90.00	3,721.53	984.86	574.83	437.07	137.76	4.173		
9,500.00	6,083.00	9,566.36	6,083.00	70.60	72.04	90.00	3,821.53	985.20	574.83	433.71	141.12	4.073		
9,600.00	6,083.00	9,666.36	6,083.00	72.28	73.69	90.00	3,921.53	985.54	574.83	430.34	144.49	3.978		
9,700.00	6,083.00	9,766.36	6,083.00	73.97	75.35	90.00	4,021.53	985.88	574.83	426.96	147.87	3.887		
9,800.00	6,083.00	9,866.36	6,083.00	75.66	77.01	90.00	4,121.53	986.22	574.83	423.57	151.26	3.800		
9,900.00	6,083.00	9,966.36	6,083.00	77.35	78.68	90.00	4,221.53	986.55	574.83	420.18	154.65	3.717		
10,000.00	6,083.00	10,066.36	6,083.00	79.05	80.35	90.00	4,321.53	986.89	574.83	416.78	158.05	3.637		
10,100.00	6,083.00	10,166.36	6,083.00	80.75	82.02	90.00	4,421.53	987.23	574.83	413.38	161.45	3.560		
10,200.00	6,083.00	10,266.36	6,083.00	82.46	83.70	90.00	4,521.53	987.57	574.83	409.97	164.87	3.487		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL 1													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		
10,300.00	6,083.00	10,366.36	6,083.00	84.17	85.39	90.00	4,621.53	987.90	574.83	406.55	168.28	3.416		
10,400.00	6,083.00	10,466.36	6,083.00	85.88	87.08	90.00	4,721.52	988.24	574.83	403.13	171.71	3.348		
10,500.00	6,083.00	10,566.36	6,083.00	87.59	88.77	90.00	4,821.52	988.58	574.83	399.70	175.13	3.282		
10,600.00	6,083.00	10,666.36	6,083.00	89.30	90.46	90.00	4,921.52	988.92	574.83	396.27	178.57	3.219		
10,700.00	6,083.00	10,766.36	6,083.00	91.02	92.16	90.00	5,021.52	989.26	574.83	392.83	182.00	3.158		
10,800.00	6,083.00	10,866.36	6,083.00	92.74	93.86	90.00	5,121.52	989.59	574.83	389.39	185.44	3.100		
10,900.00	6,083.00	10,966.36	6,083.00	94.46	95.56	90.00	5,221.52	989.93	574.83	385.94	188.89	3.043		
11,000.00	6,083.00	11,066.36	6,083.00	96.19	97.26	90.00	5,321.52	990.27	574.83	382.50	192.34	2.989		
11,100.00	6,083.00	11,166.36	6,083.00	97.91	98.97	90.00	5,421.52	990.61	574.83	379.04	195.79	2.936		
11,200.00	6,083.00	11,266.36	6,083.00	99.64	100.68	90.00	5,521.52	990.95	574.84	375.59	199.25	2.885		
11,300.00	6,083.00	11,366.36	6,083.00	101.37	102.39	90.00	5,621.52	991.28	574.84	372.13	202.71	2.836		
11,400.00	6,083.00	11,466.36	6,083.00	103.10	104.11	90.00	5,721.52	991.62	574.84	368.67	206.17	2.788		
11,500.00	6,083.00	11,566.36	6,083.00	104.83	105.82	90.00	5,821.52	991.96	574.84	365.20	209.63	2.742		
11,600.00	6,083.00	11,666.36	6,083.00	106.56	107.54	90.00	5,921.52	992.30	574.84	361.74	213.10	2.698		
11,700.00	6,083.00	11,766.36	6,083.00	108.30	109.26	90.00	6,021.52	992.63	574.84	358.27	216.57	2.654		
11,800.00	6,083.00	11,866.36	6,083.00	110.03	110.98	90.00	6,121.52	992.97	574.84	354.80	220.04	2.612		
11,900.00	6,083.00	11,966.36	6,083.00	111.77	112.71	90.00	6,221.52	993.31	574.84	351.32	223.52	2.572		
12,000.00	6,083.00	12,066.36	6,083.00	113.51	114.43	90.00	6,321.52	993.65	574.84	347.84	226.99	2.532		
12,100.00	6,083.00	12,166.36	6,083.00	115.24	116.16	90.00	6,421.52	993.99	574.84	344.37	230.47	2.494		
12,200.00	6,083.00	12,266.36	6,083.00	116.98	117.88	90.00	6,521.51	994.32	574.84	340.88	233.95	2.457		
12,300.00	6,083.00	12,366.36	6,083.00	118.73	119.61	90.00	6,621.51	994.66	574.84	337.40	237.44	2.421		
12,400.00	6,083.00	12,466.36	6,083.00	120.47	121.34	90.00	6,721.51	995.00	574.84	333.92	240.92	2.386		
12,500.00	6,083.00	12,566.36	6,083.00	122.21	123.07	90.00	6,821.51	995.34	574.84	330.43	244.41	2.352		
12,600.00	6,083.00	12,666.36	6,083.00	123.95	124.81	90.00	6,921.51	995.68	574.84	326.94	247.90	2.319		
12,700.00	6,083.00	12,766.36	6,083.00	125.70	126.54	90.00	7,021.51	996.01	574.84	323.45	251.39	2.287		
12,800.00	6,083.00	12,866.36	6,083.00	127.44	128.28	90.00	7,121.51	996.35	574.84	319.96	254.88	2.255		
12,900.00	6,083.00	12,966.36	6,083.00	129.19	130.01	90.00	7,221.51	996.69	574.84	316.47	258.37	2.225		
13,000.00	6,083.00	13,066.36	6,083.00	130.94	131.75	90.00	7,321.51	997.03	574.84	312.97	261.87	2.195		
13,100.00	6,083.00	13,166.36	6,083.00	132.68	133.49	90.00	7,421.51	997.36	574.84	309.48	265.37	2.166		
13,200.00	6,083.00	13,266.36	6,083.00	134.43	135.23	90.00	7,521.51	997.70	574.84	305.98	268.86	2.138		
13,300.00	6,083.00	13,366.36	6,083.00	136.18	136.97	90.00	7,621.51	998.04	574.84	302.48	272.36	2.111		
13,400.00	6,083.00	13,466.36	6,083.00	137.93	138.71	90.00	7,721.51	998.38	574.84	298.98	275.86	2.084		
13,500.00	6,083.00	13,566.36	6,083.00	139.68	140.45	90.00	7,821.51	998.72	574.84	295.48	279.36	2.058		
13,600.00	6,083.00	13,666.36	6,083.00	141.43	142.19	90.00	7,921.51	999.05	574.84	291.98	282.87	2.032		
13,700.00	6,083.00	13,766.36	6,083.00	143.18	143.93	90.00	8,021.51	999.39	574.85	288.47	286.37	2.007		
13,800.00	6,083.00	13,866.36	6,083.00	144.94	145.68	90.00	8,121.51	999.73	574.85	284.97	289.88	1.983		
13,900.00	6,083.00	13,966.36	6,083.00	146.69	147.42	90.00	8,221.50	1,000.07	574.85	281.47	293.38	1.959		
14,000.00	6,083.00	14,066.36	6,083.00	148.44	149.17	90.00	8,321.50	1,000.40	574.85	277.96	296.89	1.936		
14,100.00	6,083.00	14,166.36	6,083.00	150.20	150.91	90.00	8,421.50	1,000.74	574.85	274.45	300.40	1.914		
14,200.00	6,083.00	14,266.36	6,083.00	151.95	152.66	90.00	8,521.50	1,001.08	574.85	270.94	303.90	1.892		
14,300.00	6,083.00	14,366.36	6,083.00	153.70	154.41	90.00	8,621.50	1,001.42	574.85	267.43	307.41	1.870		
14,400.00	6,083.00	14,466.36	6,083.00	155.46	156.15	90.00	8,721.50	1,001.76	574.85	263.92	310.92	1.849		
14,500.00	6,083.00	14,566.36	6,083.00	157.21	157.90	90.00	8,821.50	1,002.09	574.85	260.41	314.44	1.828		
14,600.00	6,083.00	14,666.36	6,083.00	158.97	159.65	90.00	8,921.50	1,002.43	574.85	256.90	317.95	1.808		
14,700.00	6,083.00	14,766.36	6,083.00	160.73	161.40	90.00	9,021.50	1,002.77	574.85	253.39	321.46	1.788		
14,800.00	6,083.00	14,866.36	6,083.00	162.48	163.15	90.00	9,121.50	1,003.11	574.85	249.88	324.97	1.769		
14,900.00	6,083.00	14,966.36	6,083.00	164.24	164.90	90.00	9,221.50	1,003.45	574.85	246.36	328.49	1.750		
15,000.00	6,083.00	15,066.36	6,083.00	166.00	166.65	90.00	9,321.50	1,003.78	574.85	242.85	332.00	1.731		
15,100.00	6,083.00	15,166.36	6,083.00	167.75	168.40	90.00	9,421.50	1,004.12	574.85	239.33	335.52	1.713		
15,200.00	6,083.00	15,266.36	6,083.00	169.51	170.15	90.00	9,521.50	1,004.46	574.85	235.82	339.04	1.696		
15,300.00	6,083.00	15,366.36	6,083.00	171.27	171.91	90.00	9,621.50	1,004.80	574.85	232.30	342.55	1.678		
15,400.00	6,083.00	15,466.36	6,083.00	173.03	173.66	90.00	9,721.50	1,005.13	574.85	228.78	346.07	1.661		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-07 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,566.36	6,083.00	174.79	175.41	90.00	9,821.50	1,005.47	574.85	225.26	349.59	1.644	
15,600.00	6,083.00	15,666.36	6,083.00	176.55	177.17	90.00	9,921.50	1,005.81	574.85	221.75	353.11	1.628	
15,700.00	6,083.00	15,766.36	6,083.00	178.31	178.92	90.00	10,021.49	1,006.15	574.85	218.23	356.63	1.612	
15,800.00	6,083.00	15,866.36	6,083.00	180.07	180.68	90.00	10,121.49	1,006.49	574.85	214.71	360.15	1.596	
15,900.00	6,083.00	15,966.36	6,083.00	181.83	182.43	90.00	10,221.49	1,006.82	574.85	211.19	363.67	1.581	
16,000.00	6,083.00	16,066.36	6,083.00	183.59	184.19	90.00	10,321.49	1,007.16	574.85	207.67	367.19	1.566	
16,028.23	6,083.00	16,094.59	6,083.00	184.08	184.68	90.00	10,349.72	1,007.26	574.85	206.67	368.18	1.561 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<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	-180.00	-29.87	0.00	29.87					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-29.87	0.00	29.87	29.33	0.54	55.542		
200.00	200.00	200.11	200.09	0.63	0.62	176.66	-29.61	1.73	29.66	28.41	1.25	23.718		
220.90	220.90	221.02	220.98	0.70	0.70	111.50	-29.49	2.53	29.63	28.23	1.40	21.161 CC		
300.00	299.98	300.07	299.91	0.98	0.99	106.02	-28.85	6.91	30.10	28.13	1.97	15.311 ES		
400.00	399.84	399.89	399.35	1.34	1.36	99.38	-27.58	15.51	32.04	29.34	2.70	11.871		
500.00	499.55	499.50	498.20	1.71	1.75	91.97	-25.81	27.51	35.37	31.91	3.46	10.237		
600.00	599.25	598.65	596.13	2.08	2.17	81.54	-23.55	42.82	40.60	36.38	4.22	9.618		
700.00	698.96	697.10	692.79	2.45	2.62	70.40	-20.82	61.34	48.88	43.90	4.98	9.821		
800.00	798.67	794.65	787.86	2.83	3.10	60.50	-17.64	82.91	60.93	55.22	5.71	10.670		
900.00	898.37	891.27	881.26	3.21	3.61	52.54	-14.03	107.41	76.93	70.51	6.42	11.978		
1,000.00	998.08	989.26	975.61	3.58	4.16	46.88	-10.17	133.54	95.09	87.94	7.15	13.301		
1,100.00	1,097.78	1,087.24	1,069.97	3.96	4.72	43.05	-6.32	159.66	113.87	105.98	7.89	14.440		
1,200.00	1,197.49	1,185.22	1,164.32	4.34	5.28	40.30	-2.47	185.79	133.00	124.37	8.62	15.422		
1,300.00	1,297.19	1,283.20	1,258.68	4.72	5.85	38.25	1.38	211.92	152.35	142.98	9.36	16.268		
1,400.00	1,396.90	1,381.19	1,353.04	5.10	6.42	36.66	5.24	238.05	171.84	161.73	10.11	16.999		
1,500.00	1,496.60	1,479.17	1,447.39	5.47	6.99	35.40	9.09	264.17	191.44	180.58	10.85	17.637		
1,600.00	1,596.31	1,577.15	1,541.75	5.85	7.57	34.37	12.94	290.30	211.10	199.50	11.60	18.196		
1,700.00	1,696.02	1,675.13	1,636.10	6.23	8.15	33.52	16.80	316.43	230.83	218.48	12.35	18.689		
1,800.00	1,795.72	1,773.12	1,730.46	6.61	8.73	32.80	20.65	342.55	250.59	237.49	13.10	19.128		
1,900.00	1,895.43	1,871.10	1,824.82	6.99	9.31	32.18	24.50	368.68	270.39	256.54	13.85	19.521		
2,000.00	1,995.13	1,969.08	1,919.17	7.37	9.89	31.65	28.35	394.81	290.21	275.61	14.60	19.873		
2,100.00	2,094.84	2,067.06	2,013.53	7.75	10.47	31.19	32.21	420.94	310.06	294.70	15.36	20.192		
2,200.00	2,194.54	2,165.05	2,107.89	8.13	11.05	30.78	36.06	447.06	329.92	313.81	16.11	20.481		
2,300.00	2,294.25	2,263.03	2,202.24	8.51	11.63	30.42	39.91	473.19	349.79	332.93	16.86	20.745		
2,400.00	2,393.95	2,361.01	2,296.60	8.89	12.21	30.10	43.77	499.32	369.68	352.07	17.62	20.986		
2,500.00	2,493.66	2,458.99	2,390.95	9.26	12.80	29.81	47.62	525.45	389.58	371.21	18.37	21.207		
2,600.00	2,593.37	2,556.98	2,485.31	9.64	13.38	29.55	51.47	551.57	409.49	390.36	19.12	21.411		
2,700.00	2,693.07	2,654.96	2,579.67	10.02	13.96	29.31	55.32	577.70	429.40	409.52	19.88	21.600		
2,800.00	2,792.78	2,752.94	2,674.02	10.40	14.55	29.09	59.18	603.83	449.32	428.68	20.63	21.775		
2,900.00	2,892.48	2,850.92	2,768.38	10.78	15.13	28.90	63.03	629.96	469.24	447.85	21.39	21.938		
3,000.00	2,992.19	2,948.91	2,862.73	11.16	15.72	28.72	66.88	656.08	489.17	467.03	22.15	22.089		
3,100.00	3,091.89	3,046.89	2,957.09	11.54	16.30	28.55	70.74	682.21	509.11	486.21	22.90	22.231		
3,200.00	3,191.60	3,144.87	3,051.45	11.92	16.89	28.39	74.59	708.34	529.05	505.39	23.66	22.363		
3,300.00	3,291.31	3,242.85	3,145.80	12.30	17.47	28.25	78.44	734.46	548.99	524.58	24.41	22.487		
3,400.00	3,391.01	3,340.84	3,240.16	12.68	18.06	28.12	82.29	760.59	568.94	543.77	25.17	22.604		
3,500.00	3,490.72	3,438.82	3,334.52	13.06	18.64	27.99	86.15	786.72	588.88	562.96	25.93	22.714		
3,600.00	3,590.42	3,536.80	3,428.87	13.44	19.23	27.88	90.00	812.85	608.83	582.15	26.68	22.817		
3,700.00	3,690.13	3,634.78	3,523.23	13.82	19.81	27.77	93.85	838.97	628.79	601.35	27.44	22.915		
3,800.00	3,789.83	3,732.77	3,617.58	14.19	20.40	27.67	97.71	865.10	648.74	620.54	28.20	23.008		
3,900.00	3,889.54	3,830.75	3,711.94	14.57	20.98	27.57	101.56	891.23	668.70	639.74	28.95	23.096		
4,000.00	3,989.24	3,928.73	3,806.30	14.95	21.57	27.48	105.41	917.36	688.66	658.95	29.71	23.179		
4,100.00	4,088.95	4,026.71	3,900.65	15.33	22.15	27.39	109.27	943.48	708.62	678.15	30.47	23.258		
4,200.00	4,188.66	4,124.70	3,995.01	15.71	22.74	27.31	113.12	969.61	728.58	697.35	31.22	23.333		
4,300.00	4,288.36	4,222.68	4,089.36	16.09	23.32	27.24	116.97	995.74	748.54	716.56	31.98	23.405		
4,400.00	4,388.07	4,320.66	4,183.72	16.47	23.91	27.16	120.82	1,021.87	768.50	735.76	32.74	23.473		
4,500.00	4,487.77	4,418.64	4,278.08	16.85	24.50	27.09	124.68	1,047.99	788.47	754.97	33.50	23.538		
4,600.00	4,587.48	4,516.63	4,372.43	17.23	25.08	27.03	128.53	1,074.12	808.43	774.18	34.25	23.601		
4,700.00	4,687.18	4,614.61	4,466.79	17.61	25.67	26.97	132.38	1,100.25	828.40	793.39	35.01	23.660		
4,800.00	4,786.89	4,712.59	4,561.15	17.99	26.25	26.91	136.24	1,126.37	848.37	812.60	35.77	23.717		
4,900.00	4,886.59	4,810.57	4,655.50	18.37	26.84	26.85	140.09	1,152.50	868.34	831.81	36.53	23.772		
5,000.00	4,986.30	4,908.56	4,749.86	18.75	27.43	26.80	143.94	1,178.63	888.31	851.02	37.29	23.824		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL 1													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	5,086.01	5,006.54	4,844.21	19.13	28.01	26.75	147.79	1,204.76	908.28	870.23	38.04	23.874		
5,200.00	5,185.71	5,104.52	4,938.57	19.51	28.60	26.70	151.65	1,230.88	928.25	889.44	38.80	23.923		
5,300.00	5,285.42	5,202.50	5,032.93	19.89	29.18	26.65	155.50	1,257.01	948.22	908.66	39.56	23.969		
5,400.00	5,385.12	5,300.49	5,127.28	20.26	29.77	26.60	159.35	1,283.14	968.19	927.87	40.32	24.014		
5,500.00	5,484.83	5,398.47	5,221.64	20.64	30.36	26.56	163.21	1,309.27	988.16	947.09	41.08	24.056		
5,600.00	5,584.37	5,496.39	5,315.94	21.03	30.94	60.84	167.06	1,335.38	1,008.13	966.28	41.85	24.090		
5,700.00	5,681.71	5,592.77	5,408.75	21.43	31.52	75.11	170.85	1,361.08	1,027.98	985.28	42.70	24.077		
5,800.00	5,773.87	5,684.74	5,497.31	21.85	32.07	79.32	174.46	1,385.60	1,047.95	1,004.31	43.65	24.011		
5,900.00	5,858.06	5,776.11	5,585.25	22.29	32.62	81.71	179.03	1,409.95	1,068.86	1,024.08	44.78	23.870		
6,000.00	5,931.71	5,887.18	5,690.08	22.78	33.29	83.73	200.50	1,439.04	1,090.20	1,043.97	46.23	23.582		
6,100.00	5,992.59	6,016.13	5,804.07	23.33	34.04	85.56	251.11	1,470.76	1,110.72	1,062.86	47.86	23.206		
6,200.00	6,038.86	6,169.13	5,920.99	23.96	34.89	87.37	343.46	1,503.43	1,128.88	1,079.38	49.50	22.806		
6,300.00	6,069.09	6,350.66	6,023.31	24.69	35.83	89.00	489.69	1,532.24	1,142.53	1,091.60	50.93	22.433		
6,400.00	6,082.38	6,556.98	6,079.71	25.49	36.84	89.94	686.31	1,548.52	1,149.25	1,097.08	52.17	22.028		
6,500.00	6,083.00	6,690.39	6,083.00	26.37	37.51	90.00	819.60	1,549.88	1,149.63	1,095.85	53.78	21.377		
6,600.00	6,083.00	6,790.39	6,083.00	27.33	38.08	90.00	919.60	1,550.22	1,149.63	1,093.96	55.68	20.648		
6,700.00	6,083.00	6,890.39	6,083.00	28.37	38.72	90.00	1,019.60	1,550.56	1,149.63	1,091.90	57.73	19.914		
6,800.00	6,083.00	6,990.39	6,083.00	29.48	39.43	90.00	1,119.60	1,550.89	1,149.64	1,089.71	59.92	19.185		
6,900.00	6,083.00	7,090.39	6,083.00	30.66	40.20	90.00	1,219.60	1,551.23	1,149.64	1,087.40	62.24	18.471		
7,000.00	6,083.00	7,190.39	6,083.00	31.89	41.04	90.00	1,319.60	1,551.57	1,149.64	1,084.97	64.67	17.777		
7,100.00	6,083.00	7,290.39	6,083.00	33.17	41.94	90.00	1,419.60	1,551.91	1,149.64	1,082.44	67.20	17.108		
7,200.00	6,083.00	7,390.39	6,083.00	34.49	42.91	90.00	1,519.60	1,552.25	1,149.64	1,079.82	69.82	16.467		
7,300.00	6,083.00	7,490.39	6,083.00	35.85	43.93	90.00	1,619.60	1,552.59	1,149.64	1,077.13	72.51	15.855		
7,400.00	6,083.00	7,590.39	6,083.00	37.25	45.00	90.00	1,719.60	1,552.92	1,149.64	1,074.36	75.28	15.272		
7,500.00	6,083.00	7,690.39	6,083.00	38.67	46.12	90.00	1,819.59	1,553.26	1,149.64	1,071.53	78.11	14.719		
7,600.00	6,083.00	7,790.39	6,083.00	40.13	47.28	90.00	1,919.59	1,553.60	1,149.64	1,068.65	80.99	14.194		
7,700.00	6,083.00	7,890.39	6,083.00	41.61	48.49	90.00	2,019.59	1,553.94	1,149.64	1,065.71	83.93	13.697		
7,800.00	6,083.00	7,990.39	6,083.00	43.11	49.74	90.00	2,119.59	1,554.28	1,149.64	1,062.73	86.91	13.227		
7,900.00	6,083.00	8,090.39	6,083.00	44.63	51.02	90.00	2,219.59	1,554.61	1,149.64	1,059.71	89.94	12.783		
8,000.00	6,083.00	8,190.39	6,083.00	46.17	52.33	90.00	2,319.59	1,554.95	1,149.64	1,056.65	93.00	12.362		
8,100.00	6,083.00	8,290.39	6,083.00	47.73	53.68	90.00	2,419.59	1,555.29	1,149.65	1,053.55	96.09	11.964		
8,200.00	6,083.00	8,390.39	6,083.00	49.30	55.05	90.00	2,519.59	1,555.63	1,149.65	1,050.43	99.22	11.587		
8,300.00	6,083.00	8,490.39	6,083.00	50.88	56.44	90.00	2,619.59	1,555.97	1,149.65	1,047.28	102.37	11.230		
8,400.00	6,083.00	8,590.39	6,083.00	52.48	57.86	90.00	2,719.59	1,556.31	1,149.65	1,044.10	105.55	10.892		
8,500.00	6,083.00	8,690.39	6,083.00	54.09	59.30	90.00	2,819.59	1,556.64	1,149.65	1,040.90	108.75	10.572		
8,600.00	6,083.00	8,790.39	6,083.00	55.70	60.76	90.00	2,919.59	1,556.98	1,149.65	1,037.68	111.97	10.268		
8,700.00	6,083.00	8,890.39	6,083.00	57.33	62.24	90.00	3,019.59	1,557.32	1,149.65	1,034.44	115.21	9.979		
8,800.00	6,083.00	8,990.39	6,083.00	58.96	63.73	90.00	3,119.59	1,557.66	1,149.65	1,031.19	118.46	9.705		
8,900.00	6,083.00	9,090.39	6,083.00	60.61	65.24	90.00	3,219.59	1,558.00	1,149.65	1,027.91	121.74	9.444		
9,000.00	6,083.00	9,190.39	6,083.00	62.26	66.76	90.00	3,319.59	1,558.34	1,149.65	1,024.63	125.03	9.195		
9,100.00	6,083.00	9,290.39	6,083.00	63.91	68.30	90.00	3,419.59	1,558.67	1,149.65	1,021.32	128.33	8.959		
9,200.00	6,083.00	9,390.39	6,083.00	65.58	69.85	90.00	3,519.59	1,559.01	1,149.65	1,018.01	131.65	8.733		
9,300.00	6,083.00	9,490.39	6,083.00	67.24	71.41	90.00	3,619.58	1,559.35	1,149.66	1,014.68	134.97	8.518		
9,400.00	6,083.00	9,590.39	6,083.00	68.92	72.98	90.00	3,719.58	1,559.69	1,149.66	1,011.35	138.31	8.312		
9,500.00	6,083.00	9,690.39	6,083.00	70.60	74.56	90.00	3,819.58	1,560.03	1,149.66	1,008.00	141.66	8.116		
9,600.00	6,083.00	9,790.39	6,083.00	72.28	76.15	90.00	3,919.58	1,560.37	1,149.66	1,004.64	145.02	7.928		
9,700.00	6,083.00	9,890.39	6,083.00	73.97	77.74	90.00	4,019.58	1,560.70	1,149.66	1,001.28	148.38	7.748		
9,800.00	6,083.00	9,990.39	6,083.00	75.66	79.35	90.00	4,119.58	1,561.04	1,149.66	997.90	151.76	7.576		
9,900.00	6,083.00	10,090.39	6,083.00	77.35	80.96	90.00	4,219.58	1,561.38	1,149.66	994.52	155.14	7.410		
10,000.00	6,083.00	10,190.39	6,083.00	79.05	82.58	90.00	4,319.58	1,561.72	1,149.66	991.13	158.53	7.252		
10,100.00	6,083.00	10,290.39	6,083.00	80.75	84.21	90.00	4,419.58	1,562.06	1,149.66	987.73	161.93	7.100		
10,200.00	6,083.00	10,390.39	6,083.00	82.46	85.84	90.00	4,519.58	1,562.39	1,149.66	984.33	165.33	6.954		

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

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL 1													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		
10,300.00	6,083.00	10,490.39	6,083.00	84.17	87.48	90.00	4,619.58	1,562.73	1,149.66	980.92	168.74	6.813		
10,400.00	6,083.00	10,590.39	6,083.00	85.88	89.12	90.00	4,719.58	1,563.07	1,149.66	977.51	172.15	6.678		
10,500.00	6,083.00	10,690.39	6,083.00	87.59	90.77	90.00	4,819.58	1,563.41	1,149.66	974.09	175.57	6.548		
10,600.00	6,083.00	10,790.39	6,083.00	89.30	92.43	90.00	4,919.58	1,563.75	1,149.67	970.67	179.00	6.423		
10,700.00	6,083.00	10,890.39	6,083.00	91.02	94.09	90.00	5,019.58	1,564.09	1,149.67	967.24	182.43	6.302		
10,800.00	6,083.00	10,990.39	6,083.00	92.74	95.75	90.00	5,119.58	1,564.42	1,149.67	963.81	185.86	6.186		
10,900.00	6,083.00	11,090.39	6,083.00	94.46	97.42	90.00	5,219.58	1,564.76	1,149.67	960.37	189.30	6.073		
11,000.00	6,083.00	11,190.39	6,083.00	96.19	99.09	90.00	5,319.57	1,565.10	1,149.67	956.93	192.74	5.965		
11,100.00	6,083.00	11,290.39	6,083.00	97.91	100.76	90.00	5,419.57	1,565.44	1,149.67	953.48	196.19	5.860		
11,200.00	6,083.00	11,390.39	6,083.00	99.64	102.44	90.00	5,519.57	1,565.78	1,149.67	950.03	199.64	5.759		
11,300.00	6,083.00	11,490.39	6,083.00	101.37	104.12	90.00	5,619.57	1,566.12	1,149.67	946.58	203.09	5.661		
11,400.00	6,083.00	11,590.39	6,083.00	103.10	105.80	90.00	5,719.57	1,566.45	1,149.67	943.13	206.54	5.566		
11,500.00	6,083.00	11,690.39	6,083.00	104.83	107.49	90.00	5,819.57	1,566.79	1,149.67	939.67	210.00	5.475		
11,600.00	6,083.00	11,790.39	6,083.00	106.56	109.18	90.00	5,919.57	1,567.13	1,149.67	936.21	213.47	5.386		
11,700.00	6,083.00	11,890.39	6,083.00	108.30	110.87	90.00	6,019.57	1,567.47	1,149.67	932.74	216.93	5.300		
11,800.00	6,083.00	11,990.39	6,083.00	110.03	112.57	90.00	6,119.57	1,567.81	1,149.68	929.28	220.40	5.216		
11,900.00	6,083.00	12,090.39	6,083.00	111.77	114.27	90.00	6,219.57	1,568.14	1,149.68	925.81	223.87	5.136		
12,000.00	6,083.00	12,190.39	6,083.00	113.51	115.97	90.00	6,319.57	1,568.48	1,149.68	922.34	227.34	5.057		
12,100.00	6,083.00	12,290.39	6,083.00	115.24	117.67	90.00	6,419.57	1,568.82	1,149.68	918.86	230.81	4.981		
12,200.00	6,083.00	12,390.39	6,083.00	116.98	119.38	90.00	6,519.57	1,569.16	1,149.68	915.39	234.29	4.907		
12,300.00	6,083.00	12,490.39	6,083.00	118.73	121.08	90.00	6,619.57	1,569.50	1,149.68	911.91	237.77	4.835		
12,400.00	6,083.00	12,590.39	6,083.00	120.47	122.79	90.00	6,719.57	1,569.84	1,149.68	908.43	241.25	4.766		
12,500.00	6,083.00	12,690.39	6,083.00	122.21	124.50	90.00	6,819.57	1,570.17	1,149.68	904.95	244.73	4.698		
12,600.00	6,083.00	12,790.39	6,083.00	123.95	126.21	90.00	6,919.57	1,570.51	1,149.68	901.46	248.22	4.632		
12,700.00	6,083.00	12,890.39	6,083.00	125.70	127.93	90.00	7,019.57	1,570.85	1,149.68	897.98	251.70	4.568		
12,800.00	6,083.00	12,990.39	6,083.00	127.44	129.64	90.00	7,119.56	1,571.19	1,149.68	894.49	255.19	4.505		
12,900.00	6,083.00	13,090.39	6,083.00	129.19	131.36	90.00	7,219.56	1,571.53	1,149.68	891.00	258.68	4.444		
13,000.00	6,083.00	13,190.39	6,083.00	130.94	133.08	90.00	7,319.56	1,571.87	1,149.68	887.51	262.17	4.385		
13,100.00	6,083.00	13,290.39	6,083.00	132.68	134.80	90.00	7,419.56	1,572.20	1,149.69	884.02	265.67	4.328		
13,200.00	6,083.00	13,390.39	6,083.00	134.43	136.52	90.00	7,519.56	1,572.54	1,149.69	880.53	269.16	4.271		
13,300.00	6,083.00	13,490.39	6,083.00	136.18	138.24	90.00	7,619.56	1,572.88	1,149.69	877.03	272.66	4.217		
13,400.00	6,083.00	13,590.39	6,083.00	137.93	139.97	90.00	7,719.56	1,573.22	1,149.69	873.54	276.15	4.163		
13,500.00	6,083.00	13,690.39	6,083.00	139.68	141.69	90.00	7,819.56	1,573.56	1,149.69	870.04	279.65	4.111		
13,600.00	6,083.00	13,790.39	6,083.00	141.43	143.42	90.00	7,919.56	1,573.89	1,149.69	866.54	283.15	4.060		
13,700.00	6,083.00	13,890.39	6,083.00	143.18	145.15	90.00	8,019.56	1,574.23	1,149.69	863.04	286.65	4.011		
13,800.00	6,083.00	13,990.39	6,083.00	144.94	146.88	90.00	8,119.56	1,574.57	1,149.69	859.54	290.15	3.962		
13,900.00	6,083.00	14,090.39	6,083.00	146.69	148.61	90.00	8,219.56	1,574.91	1,149.69	856.04	293.66	3.915		
14,000.00	6,083.00	14,190.39	6,083.00	148.44	150.34	90.00	8,319.56	1,575.25	1,149.69	852.53	297.16	3.869		
14,100.00	6,083.00	14,290.39	6,083.00	150.20	152.07	90.00	8,419.56	1,575.59	1,149.69	849.03	300.66	3.824		
14,200.00	6,083.00	14,390.39	6,083.00	151.95	153.80	90.00	8,519.56	1,575.92	1,149.69	845.52	304.17	3.780		
14,300.00	6,083.00	14,490.39	6,083.00	153.70	155.54	90.00	8,619.56	1,576.26	1,149.70	842.02	307.68	3.737		
14,400.00	6,083.00	14,590.39	6,083.00	155.46	157.27	90.00	8,719.56	1,576.60	1,149.70	838.51	311.18	3.695		
14,500.00	6,083.00	14,690.39	6,083.00	157.21	159.01	90.00	8,819.55	1,576.94	1,149.70	835.00	314.69	3.653		
14,600.00	6,083.00	14,790.39	6,083.00	158.97	160.75	90.00	8,919.55	1,577.28	1,149.70	831.49	318.20	3.613		
14,700.00	6,083.00	14,890.39	6,083.00	160.73	162.48	90.00	9,019.55	1,577.62	1,149.70	827.99	321.71	3.574		
14,800.00	6,083.00	14,990.39	6,083.00	162.48	164.22	90.00	9,119.55	1,577.95	1,149.70	824.47	325.22	3.535		
14,900.00	6,083.00	15,090.39	6,083.00	164.24	165.96	90.00	9,219.55	1,578.29	1,149.70	820.96	328.74	3.497		
15,000.00	6,083.00	15,190.39	6,083.00	166.00	167.70	90.00	9,319.55	1,578.63	1,149.70	817.45	332.25	3.460		
15,100.00	6,083.00	15,290.39	6,083.00	167.75	169.44	90.00	9,419.55	1,578.97	1,149.70	813.94	335.76	3.424		
15,200.00	6,083.00	15,390.39	6,083.00	169.51	171.18	90.00	9,519.55	1,579.31	1,149.70	810.43	339.28	3.389		
15,300.00	6,083.00	15,490.39	6,083.00	171.27	172.92	90.00	9,619.55	1,579.65	1,149.70	806.91	342.79	3.354		
15,400.00	6,083.00	15,590.39	6,083.00	173.03	174.67	90.00	9,719.55	1,579.98	1,149.70	803.40	346.31	3.320		

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



# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL 1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-MWD OWSG												<b>Offset Well Error:</b>	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	
15,500.00	6,083.00	15,690.39	6,083.00	174.79	176.41	90.00	9,819.55	1,580.32	1,149.70	799.88	349.82	3.287	
15,600.00	6,083.00	15,790.39	6,083.00	176.55	178.15	90.00	9,919.55	1,580.66	1,149.71	796.37	353.34	3.254	
15,700.00	6,083.00	15,890.39	6,083.00	178.31	179.90	90.00	10,019.55	1,581.00	1,149.71	792.85	356.86	3.222	
15,800.00	6,083.00	15,990.39	6,083.00	180.07	181.64	90.00	10,119.55	1,581.34	1,149.71	789.33	360.38	3.190	
15,900.00	6,083.00	16,090.40	6,083.00	181.83	183.39	90.00	10,219.55	1,581.67	1,149.71	785.81	363.89	3.159	
16,000.00	6,083.00	16,190.40	6,083.00	183.59	185.13	90.00	10,319.55	1,582.01	1,149.71	782.29	367.41	3.129	
16,028.23	6,083.00	16,218.62	6,083.00	184.08	185.63	90.00	10,347.78	1,582.11	1,149.71	781.30	368.41	3.121 SF	

# Civitas Resources

## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 4684.00usft

Offset Depths are relative to Offset Datum

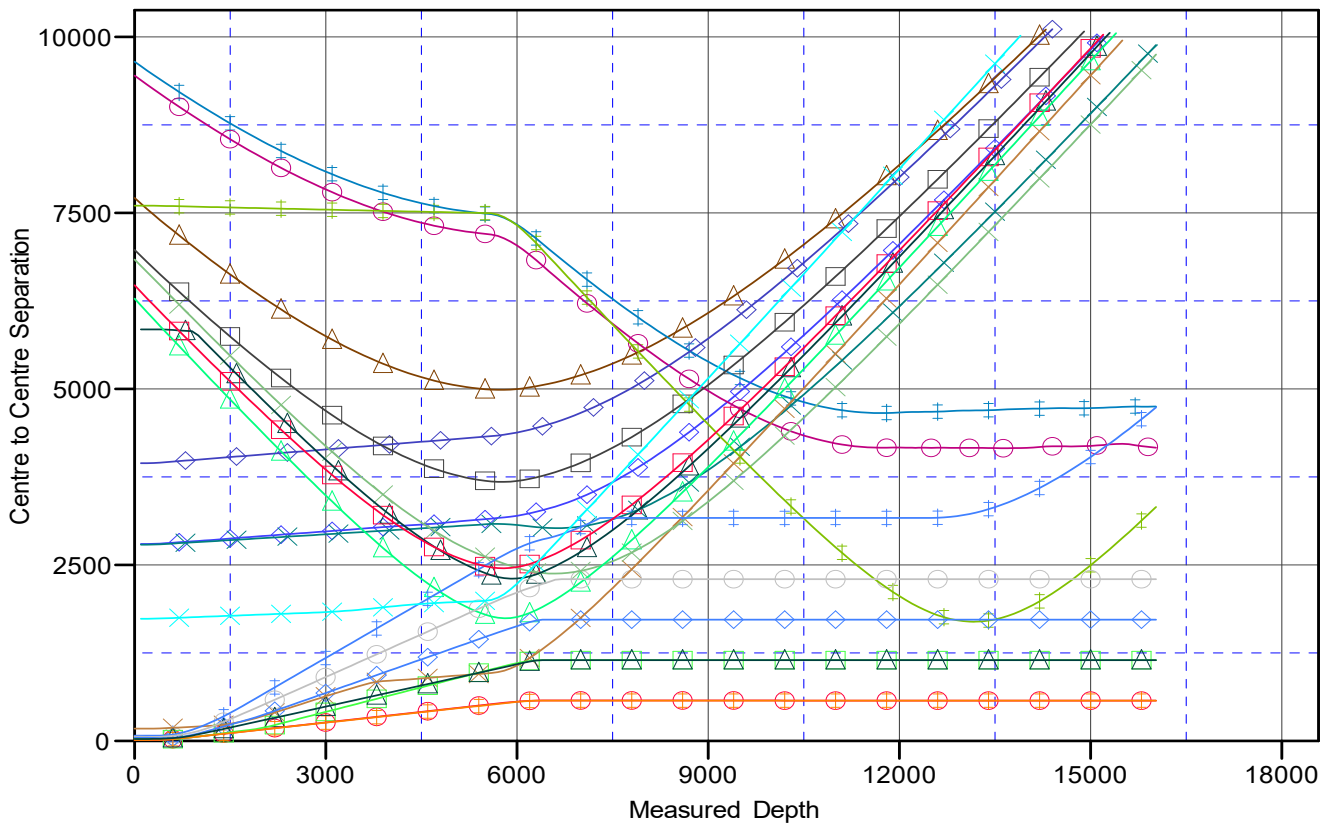
Central Meridian is 105.500000°W

Coordinates are relative to: PRONGHORN K-5 FED 32N-20-06

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.82°

### Ladder Plot



#### LEGEND

EXIST HZ PRONGHORN T-76XRNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN K-5XRNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN J-8XRNB, OMB, FINAL SURVEY V0
EXIST HZ ROSENBERG 6-6-30-0758BH, OMB, FINAL SURVEY V0	EXIST HZ ESTERLING 44-3H, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 32-5, OMB, GYRO V0
PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 1411-4HB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0
EXIST HZ PRONGHORN 1144-6HZ, OMB, FINAL SURVEY V0	ABND VERT FURROW 1, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0
ABND VERT BOWMAN 32-1, OMB, Design #1 V0	EXIST HZ PRONGHORN 248-6XRNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0
EXIST HZ ROSENBERG 6-6-30-067BH, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN E-8XRNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0
ABND VERT PRONGHORN 41-6, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0

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

# Civitas Resources

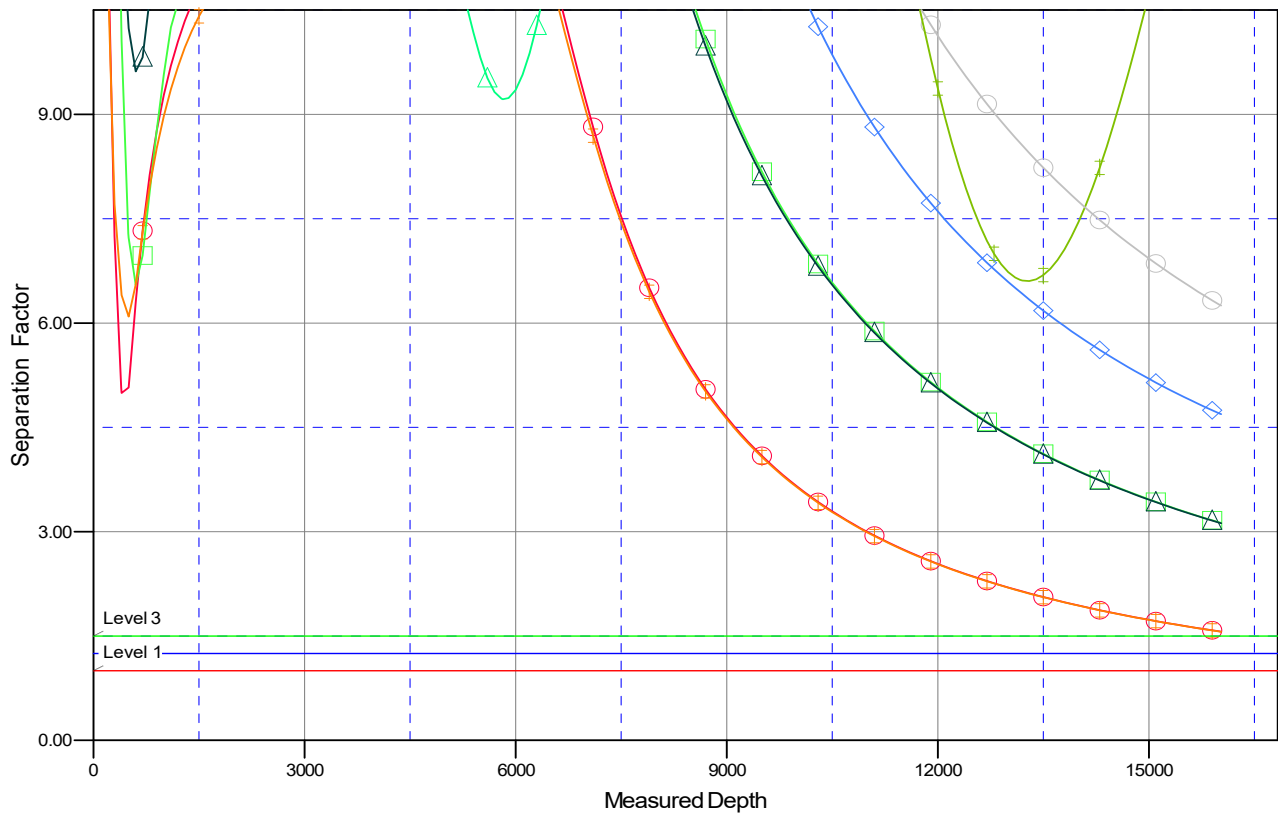
## Anticollision Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN K-5 FED 32N-20-06
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4684.00usft
<b>Reference Site:</b>	SEC 5-T5N-R61W	<b>MD Reference:</b>	KB 25' @ 4684.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	PRONGHORN K-5 FED 32N-20-06	<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>	EDM
<b>Reference Design:</b>	PROPOSAL 1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB 25' @ 4684.00usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105.500000°W

Coordinates are relative to: PRONGHORN K-5 FED 32N-20-06  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.82°

### Separation Factor Plot



#### LEGEND

EXIST HZ PRONGHORN T-76XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN K-68XRLNB, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN J-85XRLNB, OMB, FINAL SURVEY V0
EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0	EXIST HZ ESTERLING 44-3H, OMB, FINAL SURVEY V0	ABND VERT PRONGHORN 32-5, OMB, GYRO V0
PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0	EXIST HZ PRONGHORN 1411-4HNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0
EXIST HZ PRONGHORN 1114-9HZ, OMB, FINAL SURVEY V0	ABND VERT FURROW 1, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0
ABND VERT BOWMAN 32-1, OMB, Design #1 V0	EXIST HZ PRONGHORN J-85XRLNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0
EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0	EXIST HZ PRONGHORN E-85XRLNB, OMB, FINAL SURVEY V0	PRONGHORN K-5 FED 32N-20-07, OMB, PROPOSAL 1 V0
ABND VERT PRONGHORN 41-5, OMB, Design #1 V0	PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0	PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0