

BONANZA CREEK ENERGY

WELD COUNTY

SEC 5-T5N-R61W

PRONGHORN K-5 FED 32N-20-07

OWB

PROPOSAL 1

Anticollision Report

22 July, 2024

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Unknown AC limit!	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/22/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,100.56	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 5-T5N-R61W						
ABND VERT BOWMAN 32-1 - OWB - Design #1	100.00	35.00	2,794.41	2,793.72	4,060.277	CC
ABND VERT BOWMAN 32-1 - OWB - Design #1	200.00	134.98	2,795.88	2,793.26	1,065.865	ES
ABND VERT BOWMAN 32-1 - OWB - Design #1	7,500.00	6,018.00	3,689.51	3,533.78	23.692	SF
ABND VERT FURROW 1 - OWB - Design #1	13,234.00	6,093.00	2,269.65	2,013.50	8.861	CC, ES
ABND VERT FURROW 1 - OWB - Design #1	13,400.00	6,093.00	2,275.71	2,017.97	8.830	SF
ABND VERT PRONGHORN 32-5 - OWB - GYRO	118.82	74.42	1,722.32	1,721.87	3,802.051	CC
ABND VERT PRONGHORN 32-5 - OWB - GYRO	200.00	153.33	1,722.60	1,721.64	1,780.536	ES
ABND VERT PRONGHORN 32-5 - OWB - GYRO	5,600.00	5,400.00	2,173.88	2,131.62	51.434	SF
ABND VERT PRONGHORN 41-6 - OWB - Design #1	100.00	24.00	3,945.92	3,945.37	7,173.914	CC
ABND VERT PRONGHORN 41-6 - OWB - Design #1	200.00	123.98	3,947.65	3,945.30	1,682.285	ES
ABND VERT PRONGHORN 41-6 - OWB - Design #1	6,400.00	5,999.38	5,013.09	4,868.72	34.725	SF
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,638.23	10,624.00	1,804.69	1,755.02	36.334	CC
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	6,700.00	10,624.00	1,805.75	1,754.59	35.301	ES
EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY	8,200.00	10,624.00	2,386.64	2,256.90	18.396	SF
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	100.00	30.15	2,799.70	2,799.38	8,713.156	CC
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	104.45	34.78	2,799.70	2,799.36	8,110.548	ES
EXIST HZ PRONGHORN 11-14-5HZ - OWB - FINAL SU	8,300.00	5,638.00	4,546.86	4,491.10	81.539	SF
EXIST HZ PRONGHORN 14-11-4HNB - OWB - FINAL S	6,036.89	10,762.00	1,772.13	1,671.77	17.658	CC, ES, SF
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	5,751.62	16,154.00	2,259.83	2,066.60	11.695	CC, ES
EXIST HZ PRONGHORN 24-8-5XRLNB - OWB - FINAL	5,800.00	16,154.00	2,260.72	2,066.99	11.670	SF
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	5,527.82	16,242.00	4,201.34	4,004.32	21.324	CC
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	5,600.00	16,242.00	4,201.96	4,004.20	21.248	ES
EXIST HZ PRONGHORN E-8-5XRLNB - OWB - FINAL S	6,000.00	16,242.00	4,236.63	4,035.57	21.071	SF
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,700.00	16,091.00	2,974.27	2,777.69	15.130	CC, ES
EXIST HZ PRONGHORN J-8-5XRLNB - OWB - FINAL S	5,800.00	16,091.00	2,978.34	2,780.81	15.078	SF
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	108.05	99.44	183.06	182.59	389.672	CC, ES
EXIST HZ PRONGHORN K-5-8XRLNB - OWB - FINAL S	1,500.00	1,448.80	355.28	345.65	36.902	SF
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	5,349.94	16,045.00	5,501.66	5,307.59	28.349	CC
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	5,400.00	16,045.00	5,501.89	5,307.41	28.291	ES
EXIST HZ PRONGHORN T-7-6XRLNB - OWB - FINAL S	5,900.00	16,045.00	5,532.68	5,334.90	27.973	SF
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,776.37	10,650.00	5,232.62	5,040.56	27.245	CC
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	11,900.00	10,650.00	5,234.08	5,040.16	26.990	ES
EXIST HZ ROSENBERG 6-61-30-0758BH - OWB - FINA	16,101.43	6,361.00	5,325.02	5,119.86	25.956	SF
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	13,697.52	8,783.22	4,733.92	4,540.82	24.515	CC
EXIST HZ ROSENBERG 6-61-3-0857BH - OWB - FINAL	16,101.43	5,976.00	4,739.51	4,534.58	23.127	ES, SF
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	250.37	249.77	89.65	88.04	55.800	CC
PRONGHORN K-5 FED 32N-12-01 - OWB - PROPOSAL	300.00	298.79	89.85	87.88	45.786	ES

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

Civitas Resources

Anticollision Report

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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-20-07	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

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-12-01 - OWB - PROPOSAL	13,300.00	13,152.35	3,814.33	3,555.27	14.724	SF
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	278.99	279.39	73.02	71.41	45.192	CC
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	300.00	299.82	73.11	71.34	41.445	ES
PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL	16,101.43	16,318.96	2,874.44	2,506.43	7.811	SF
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	400.00	400.09	58.75	56.26	23.529	CC
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	404.45	404.52	58.76	56.23	23.219	ES
PRONGHORN K-5 FED 32N-20-03 - OWB - PROPOSAL	16,101.43	16,161.74	2,299.55	1,931.60	6.250	SF
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	404.83	405.06	41.56	39.05	16.536	CC, ES
PRONGHORN K-5 FED 32N-20-04 - OWB - PROPOSAL	16,101.43	16,063.34	1,724.67	1,356.75	4.688	SF
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	290.95	290.81	29.19	27.28	15.330	CC
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	300.00	299.84	29.19	27.22	14.828	ES
PRONGHORN K-5 FED 32N-20-05 - OWB - PROPOSAL	16,100.00	16,013.13	1,149.76	781.89	3.125	SF
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	220.56	220.49	14.62	13.22	10.462	CC
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	300.00	299.80	15.15	13.19	7.710	ES
PRONGHORN K-5 FED 32N-20-06 - OWB - PROPOSAL	16,100.00	16,028.23	574.88	206.80	1.562	SF
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	100.00	100.00	14.94	14.40	27.779	CC
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	400.00	400.22	15.99	13.27	5.881	ES
PRONGHORN K-5 FED 32N-20-08 - OWB - PROPOSAL	16,101.43	16,225.46	574.85	206.02	1.559	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						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	35.00	35.00	0.27	0.42	-69.79	965.21	-2,622.42	2,794.41	2,793.72	0.69	4,060.277	CC
200.00	199.98	134.98	134.98	0.62	2.00	-147.49	965.21	-2,622.42	2,795.88	2,793.26	2.62	1,065.865	ES
300.00	299.84	234.84	234.84	0.99	4.21	-147.50	965.21	-2,622.42	2,800.30	2,795.10	5.20	538.796	
400.00	399.45	334.45	334.45	1.36	6.27	-147.52	965.21	-2,622.42	2,807.66	2,800.04	7.62	368.319	
500.00	498.70	433.70	433.70	1.76	8.29	-147.54	965.21	-2,622.42	2,817.96	2,807.94	10.02	281.231	
600.00	597.47	532.47	532.47	2.18	10.29	-147.58	965.21	-2,622.42	2,831.20	2,818.79	12.41	228.138	
700.00	695.99	630.99	630.99	2.62	12.29	-147.76	965.21	-2,622.42	2,845.72	2,830.93	14.78	192.516	
800.00	794.52	729.52	729.52	3.06	14.27	-147.94	965.21	-2,622.42	2,860.26	2,843.10	17.15	166.734	
900.00	893.05	828.05	828.05	3.51	16.26	-148.12	965.21	-2,622.42	2,874.83	2,855.30	19.53	147.215	
1,000.00	991.57	926.57	926.57	3.97	18.25	-148.30	965.21	-2,622.42	2,889.43	2,867.53	21.90	131.925	
1,100.00	1,090.10	1,025.10	1,025.10	4.42	20.23	-148.48	965.21	-2,622.42	2,904.05	2,879.78	24.28	119.627	
1,200.00	1,188.62	1,123.62	1,123.62	4.88	22.22	-148.65	965.21	-2,622.42	2,918.71	2,892.06	26.65	109.520	
1,300.00	1,287.15	1,222.15	1,222.15	5.34	24.20	-148.83	965.21	-2,622.42	2,933.39	2,904.36	29.02	101.069	
1,400.00	1,385.68	1,320.68	1,320.68	5.79	26.18	-149.00	965.21	-2,622.42	2,948.09	2,916.69	31.40	93.896	
1,500.00	1,484.20	1,419.20	1,419.20	6.25	28.17	-149.17	965.21	-2,622.42	2,962.82	2,929.05	33.77	87.733	
1,600.00	1,582.73	1,517.73	1,517.73	6.71	30.15	-149.34	965.21	-2,622.42	2,977.58	2,941.44	36.14	82.381	
1,700.00	1,681.26	1,616.26	1,616.26	7.17	32.13	-149.50	965.21	-2,622.42	2,992.36	2,953.84	38.52	77.690	
1,800.00	1,779.78	1,714.78	1,714.78	7.63	34.12	-149.67	965.21	-2,622.42	3,007.17	2,966.28	40.89	73.544	
1,900.00	1,878.31	1,813.31	1,813.31	8.09	36.10	-149.83	965.21	-2,622.42	3,022.00	2,978.74	43.26	69.854	
2,000.00	1,976.83	1,911.83	1,911.83	8.55	38.08	-149.99	965.21	-2,622.42	3,036.85	2,991.22	45.63	66.549	
2,100.00	2,075.36	2,010.36	2,010.36	9.01	40.06	-150.15	965.21	-2,622.42	3,051.73	3,003.73	48.01	63.571	
2,200.00	2,173.89	2,108.89	2,108.89	9.47	42.04	-150.31	965.21	-2,622.42	3,066.63	3,016.26	50.38	60.874	
2,300.00	2,272.41	2,207.41	2,207.41	9.93	44.03	-150.47	965.21	-2,622.42	3,081.56	3,028.81	52.75	58.421	
2,400.00	2,370.94	2,305.94	2,305.94	10.40	46.01	-150.62	965.21	-2,622.42	3,096.50	3,041.39	55.12	56.179	
2,500.00	2,469.47	2,404.47	2,404.47	10.86	47.99	-150.78	965.21	-2,622.42	3,111.47	3,053.98	57.49	54.123	
2,600.00	2,567.99	2,502.99	2,502.99	11.32	49.97	-150.93	965.21	-2,622.42	3,126.46	3,066.61	59.86	52.231	

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

Civitas Resources

Anticollision Report

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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-20-07	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													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		
2,700.00	2,666.52	2,601.52	2,601.52	11.78	51.95	-151.08	965.21	-2,622.42	3,141.48	3,079.25	62.23	50.483		
2,800.00	2,765.05	2,700.05	2,700.05	12.24	53.94	-151.23	965.21	-2,622.42	3,156.51	3,091.91	64.60	48.864		
2,900.00	2,863.57	2,798.57	2,798.57	12.70	55.92	-151.38	965.21	-2,622.42	3,171.57	3,104.60	66.97	47.360		
3,000.00	2,962.10	2,897.10	2,897.10	13.16	57.90	-151.52	965.21	-2,622.42	3,186.64	3,117.31	69.34	45.960		
3,100.00	3,060.62	2,995.62	2,995.62	13.63	59.88	-151.67	965.21	-2,622.42	3,201.74	3,130.03	71.70	44.652		
3,200.00	3,159.15	3,094.15	3,094.15	14.09	61.86	-151.81	965.21	-2,622.42	3,216.85	3,142.78	74.07	43.428		
3,300.00	3,257.68	3,192.68	3,192.68	14.55	63.84	-151.96	965.21	-2,622.42	3,231.99	3,155.55	76.44	42.281		
3,400.00	3,356.20	3,291.20	3,291.20	15.01	65.83	-152.10	965.21	-2,622.42	3,247.14	3,168.34	78.81	41.203		
3,500.00	3,454.73	3,389.73	3,389.73	15.47	67.81	-152.24	965.21	-2,622.42	3,262.32	3,181.14	81.18	40.188		
3,600.00	3,553.26	3,488.26	3,488.26	15.93	69.79	-152.38	965.21	-2,622.42	3,277.51	3,193.97	83.54	39.231		
3,700.00	3,651.78	3,586.78	3,586.78	16.40	71.77	-152.52	965.21	-2,622.42	3,292.72	3,206.81	85.91	38.328		
3,800.00	3,750.31	3,685.31	3,685.31	16.86	73.75	-152.65	965.21	-2,622.42	3,307.96	3,219.68	88.28	37.473		
3,900.00	3,848.83	3,783.83	3,783.83	17.32	75.73	-152.79	965.21	-2,622.42	3,323.20	3,232.56	90.64	36.662		
4,000.00	3,947.36	3,882.36	3,882.36	17.78	77.71	-152.92	965.21	-2,622.42	3,338.47	3,245.46	93.01	35.894		
4,100.00	4,045.89	3,980.89	3,980.89	18.24	79.70	-153.05	965.21	-2,622.42	3,353.76	3,258.38	95.38	35.164		
4,200.00	4,144.41	4,079.41	4,079.41	18.70	81.68	-153.18	965.21	-2,622.42	3,369.06	3,271.32	97.74	34.469		
4,300.00	4,242.94	4,177.94	4,177.94	19.17	83.66	-153.31	965.21	-2,622.42	3,384.38	3,284.27	100.11	33.808		
4,400.00	4,341.47	4,276.47	4,276.47	19.63	85.64	-153.44	965.21	-2,622.42	3,399.72	3,297.24	102.47	33.177		
4,500.00	4,439.99	4,374.99	4,374.99	20.09	87.62	-153.57	965.21	-2,622.42	3,415.07	3,310.23	104.84	32.575		
4,600.00	4,538.52	4,473.52	4,473.52	20.55	89.60	-153.70	965.21	-2,622.42	3,430.44	3,323.24	107.20	32.000		
4,700.00	4,637.04	4,572.04	4,572.04	21.01	91.59	-153.82	965.21	-2,622.42	3,445.83	3,336.26	109.57	31.450		
4,800.00	4,735.57	4,670.57	4,670.57	21.48	93.57	-153.95	965.21	-2,622.42	3,461.23	3,349.30	111.93	30.923		
4,900.00	4,834.10	4,769.10	4,769.10	21.94	95.55	-154.07	965.21	-2,622.42	3,476.65	3,362.35	114.30	30.418		
5,000.00	4,932.62	4,867.62	4,867.62	22.40	97.53	-154.19	965.21	-2,622.42	3,492.08	3,375.42	116.66	29.934		
5,100.00	5,031.15	4,966.15	4,966.15	22.86	99.51	-154.32	965.21	-2,622.42	3,507.53	3,388.51	119.02	29.469		
5,200.00	5,129.68	5,064.68	5,064.68	23.32	101.49	-154.44	965.21	-2,622.42	3,523.00	3,401.61	121.39	29.023		
5,300.00	5,228.20	5,163.20	5,163.20	23.79	103.47	-154.56	965.21	-2,622.42	3,538.48	3,414.72	123.75	28.594		
5,400.00	5,326.73	5,261.73	5,261.73	24.25	105.46	-154.67	965.21	-2,622.42	3,553.97	3,427.86	126.11	28.181		
5,500.00	5,425.25	5,360.25	5,360.25	24.71	107.44	-154.79	965.21	-2,622.42	3,569.48	3,441.00	128.48	27.783		
5,600.00	5,523.78	5,458.78	5,458.78	25.17	109.42	-154.91	965.21	-2,622.42	3,585.00	3,454.16	130.84	27.400		
5,700.00	5,621.78	5,556.78	5,556.78	25.64	111.39	-119.00	965.21	-2,622.42	3,599.15	3,465.94	133.21	27.019		
5,800.00	5,716.63	5,651.63	5,651.63	26.12	113.30	-101.48	965.21	-2,622.42	3,609.39	3,473.84	135.56	26.627		
5,900.00	5,805.45	5,740.45	5,740.45	26.60	115.08	-94.18	965.21	-2,622.42	3,615.76	3,477.94	137.82	26.236		
6,000.00	5,885.54	5,820.54	5,820.54	27.08	116.69	-90.83	965.21	-2,622.42	3,618.62	3,478.69	139.94	25.859		
6,100.00	5,954.47	5,889.47	5,889.47	27.57	118.08	-89.40	965.21	-2,622.42	3,618.56	3,476.68	141.88	25.505		
6,200.00	6,010.13	5,945.13	5,945.13	28.08	119.20	-88.99	965.21	-2,622.42	3,616.25	3,472.66	143.59	25.185		
6,300.00	6,050.85	5,985.85	5,985.85	28.62	120.02	-89.13	965.21	-2,622.42	3,612.42	3,467.38	145.04	24.907		
6,400.00	6,075.38	6,010.38	6,010.38	29.22	120.51	-89.53	965.21	-2,622.42	3,607.69	3,461.49	146.20	24.677		
6,500.00	6,083.00	6,018.00	6,018.00	29.87	120.66	-90.00	965.21	-2,622.42	3,602.55	3,455.51	147.05	24.499		
6,600.00	6,083.00	6,018.00	6,018.00	30.60	120.66	-90.00	965.21	-2,622.42	3,598.86	3,451.08	147.78	24.353		
6,682.94	6,083.00	6,018.00	6,018.00	31.28	120.66	-90.00	965.21	-2,622.42	3,597.91	3,449.47	148.43	24.240		
6,700.00	6,083.00	6,018.00	6,018.00	31.42	120.66	-90.00	965.21	-2,622.42	3,597.95	3,449.38	148.56	24.218		
6,800.00	6,083.00	6,018.00	6,018.00	32.32	120.66	-90.00	965.21	-2,622.42	3,599.81	3,450.42	149.39	24.097		
6,900.00	6,083.00	6,018.00	6,018.00	33.30	120.66	-90.00	965.21	-2,622.42	3,604.45	3,454.20	150.24	23.991		
7,000.00	6,083.00	6,018.00	6,018.00	34.35	120.66	-90.00	965.21	-2,622.42	3,611.85	3,460.72	151.13	23.899		
7,100.00	6,083.00	6,018.00	6,018.00	35.45	120.66	-90.00	965.21	-2,622.42	3,622.00	3,469.97	152.03	23.824		
7,200.00	6,083.00	6,018.00	6,018.00	36.62	120.66	-90.00	965.21	-2,622.42	3,634.87	3,481.92	152.95	23.765		
7,300.00	6,083.00	6,018.00	6,018.00	37.83	120.66	-90.00	965.21	-2,622.42	3,650.44	3,496.56	153.87	23.723		
7,400.00	6,083.00	6,018.00	6,018.00	39.09	120.66	-90.00	965.21	-2,622.42	3,668.67	3,513.86	154.80	23.699		
7,500.00	6,083.00	6,018.00	6,018.00	40.39	120.66	-90.00	965.21	-2,622.42	3,689.51	3,533.78	155.73	23.692 SF		
7,600.00	6,083.00	6,018.00	6,018.00	41.73	120.66	-90.00	965.21	-2,622.42	3,712.94	3,556.29	156.65	23.702		
7,700.00	6,083.00	6,018.00	6,018.00	43.10	120.66	-90.00	965.21	-2,622.42	3,738.90	3,581.34	157.56	23.730		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
7,800.00	6,083.00	6,018.00	6,018.00	44.50	120.66	-90.00	965.21	-2,622.42	3,767.33	3,608.87	158.45	23.776		
7,900.00	6,083.00	6,018.00	6,018.00	45.93	120.66	-90.00	965.21	-2,622.42	3,798.18	3,638.85	159.33	23.838		
8,000.00	6,083.00	6,018.00	6,018.00	47.38	120.66	-90.00	965.21	-2,622.42	3,831.39	3,671.20	160.19	23.918		
8,100.00	6,083.00	6,018.00	6,018.00	48.85	120.66	-90.00	965.21	-2,622.42	3,866.91	3,705.88	161.03	24.014		
8,200.00	6,083.00	6,018.00	6,018.00	50.34	120.66	-90.00	965.21	-2,622.42	3,904.66	3,742.82	161.84	24.126		
8,300.00	6,083.00	6,018.00	6,018.00	51.85	120.66	-90.00	965.21	-2,622.42	3,944.59	3,781.96	162.64	24.254		
8,400.00	6,083.00	6,018.00	6,018.00	53.38	120.66	-90.00	965.21	-2,622.42	3,986.63	3,823.23	163.40	24.398		
8,500.00	6,083.00	6,018.00	6,018.00	54.92	120.66	-90.00	965.21	-2,622.42	4,030.71	3,866.57	164.14	24.556		
8,600.00	6,083.00	6,018.00	6,018.00	56.48	120.66	-90.00	965.21	-2,622.42	4,076.77	3,911.92	164.85	24.730		
8,700.00	6,083.00	6,018.00	6,018.00	58.04	120.66	-90.00	965.21	-2,622.42	4,124.74	3,959.20	165.54	24.917		
8,800.00	6,083.00	6,018.00	6,018.00	59.63	120.66	-90.00	965.21	-2,622.42	4,174.55	4,008.35	166.20	25.117		
8,900.00	6,083.00	6,018.00	6,018.00	61.22	120.66	-90.00	965.21	-2,622.42	4,226.14	4,059.31	166.83	25.331		
9,000.00	6,083.00	6,018.00	6,018.00	62.82	120.66	-90.00	965.21	-2,622.42	4,279.45	4,112.01	167.44	25.558		
9,100.00	6,083.00	6,018.00	6,018.00	64.43	120.66	-90.00	965.21	-2,622.42	4,334.41	4,166.39	168.02	25.796		
9,200.00	6,083.00	6,018.00	6,018.00	66.05	120.66	-90.00	965.21	-2,622.42	4,390.96	4,222.38	168.58	26.047		
9,300.00	6,083.00	6,018.00	6,018.00	67.67	120.66	-90.00	965.21	-2,622.42	4,449.04	4,279.93	169.11	26.308		
9,400.00	6,083.00	6,018.00	6,018.00	69.31	120.66	-90.00	965.21	-2,622.42	4,508.59	4,338.97	169.62	26.580		
9,500.00	6,083.00	6,018.00	6,018.00	70.95	120.66	-90.00	965.21	-2,622.42	4,569.55	4,399.44	170.11	26.863		
9,600.00	6,083.00	6,018.00	6,018.00	72.60	120.66	-90.00	965.21	-2,622.42	4,631.87	4,461.30	170.57	27.155		
9,700.00	6,083.00	6,018.00	6,018.00	74.25	120.66	-90.00	965.21	-2,622.42	4,695.49	4,524.48	171.01	27.457		
9,800.00	6,083.00	6,018.00	6,018.00	75.91	120.66	-90.00	965.21	-2,622.42	4,760.36	4,588.93	171.43	27.768		
9,900.00	6,083.00	6,018.00	6,018.00	77.57	120.66	-90.00	965.21	-2,622.42	4,826.43	4,654.60	171.83	28.088		
10,000.00	6,083.00	6,018.00	6,018.00	79.24	120.66	-90.00	965.21	-2,622.42	4,893.65	4,721.44	172.21	28.416		
10,100.00	6,083.00	6,018.00	6,018.00	80.91	120.66	-90.00	965.21	-2,622.42	4,961.98	4,789.40	172.58	28.752		
10,200.00	6,083.00	6,018.00	6,018.00	82.59	120.66	-90.00	965.21	-2,622.42	5,031.37	4,858.44	172.92	29.096		
10,300.00	6,083.00	6,018.00	6,018.00	84.27	120.66	-90.00	965.21	-2,622.42	5,101.77	4,928.52	173.25	29.447		
10,400.00	6,083.00	6,018.00	6,018.00	85.95	120.66	-90.00	965.21	-2,622.42	5,173.15	4,999.58	173.57	29.805		
10,500.00	6,083.00	6,018.00	6,018.00	87.64	120.66	-90.00	965.21	-2,622.42	5,245.46	5,071.60	173.87	30.169		
10,600.00	6,083.00	6,018.00	6,018.00	89.34	120.66	-90.00	965.21	-2,622.42	5,318.68	5,144.52	174.15	30.540		
10,700.00	6,083.00	6,018.00	6,018.00	91.03	120.66	-90.00	965.21	-2,622.42	5,392.75	5,218.32	174.42	30.917		
10,800.00	6,083.00	6,018.00	6,018.00	92.73	120.66	-90.00	965.21	-2,622.42	5,467.64	5,292.96	174.68	31.300		
10,900.00	6,083.00	6,018.00	6,018.00	94.43	120.66	-90.00	965.21	-2,622.42	5,543.33	5,368.40	174.93	31.689		
11,000.00	6,083.00	6,018.00	6,018.00	96.13	120.66	-90.00	965.21	-2,622.42	5,619.78	5,444.62	175.16	32.083		
11,100.00	6,083.00	6,018.00	6,018.00	97.84	120.66	-90.00	965.21	-2,622.42	5,696.96	5,521.57	175.39	32.482		
11,200.00	6,083.00	6,018.00	6,018.00	99.55	120.66	-90.00	965.21	-2,622.42	5,774.84	5,599.24	175.60	32.886		
11,300.00	6,083.00	6,018.00	6,018.00	101.26	120.66	-90.00	965.21	-2,622.42	5,853.39	5,677.59	175.80	33.295		
11,400.00	6,083.00	6,018.00	6,018.00	102.97	120.66	-90.00	965.21	-2,622.42	5,932.59	5,756.59	176.00	33.708		
11,500.00	6,083.00	6,018.00	6,018.00	104.68	120.66	-90.00	965.21	-2,622.42	6,012.41	5,836.22	176.18	34.126		
11,600.00	6,083.00	6,018.00	6,018.00	106.40	120.66	-90.00	965.21	-2,622.42	6,092.82	5,916.46	176.36	34.547		
11,700.00	6,083.00	6,018.00	6,018.00	108.12	120.66	-90.00	965.21	-2,622.42	6,173.80	5,997.27	176.53	34.973		
11,800.00	6,083.00	6,018.00	6,018.00	109.84	120.66	-90.00	965.21	-2,622.42	6,255.34	6,078.65	176.69	35.402		
11,900.00	6,083.00	6,018.00	6,018.00	111.56	120.66	-90.00	965.21	-2,622.42	6,337.40	6,160.56	176.85	35.835		
12,000.00	6,083.00	6,018.00	6,018.00	113.29	120.66	-90.00	965.21	-2,622.42	6,419.98	6,242.98	177.00	36.272		
12,100.00	6,083.00	6,018.00	6,018.00	115.01	120.66	-90.00	965.21	-2,622.42	6,503.04	6,325.90	177.14	36.712		
12,200.00	6,083.00	6,018.00	6,018.00	116.74	120.66	-90.00	965.21	-2,622.42	6,586.57	6,409.30	177.27	37.155		
12,300.00	6,083.00	6,018.00	6,018.00	118.47	120.66	-90.00	965.21	-2,622.42	6,670.56	6,493.15	177.40	37.601		
12,400.00	6,083.00	6,018.00	6,018.00	120.19	120.66	-90.00	965.21	-2,622.42	6,754.98	6,577.45	177.53	38.050		
12,500.00	6,083.00	6,018.00	6,018.00	121.93	120.66	-90.00	965.21	-2,622.42	6,839.82	6,662.17	177.65	38.502		
12,600.00	6,083.00	6,018.00	6,018.00	123.66	120.66	-90.00	965.21	-2,622.42	6,925.07	6,747.30	177.76	38.956		
12,700.00	6,083.00	6,018.00	6,018.00	125.39	120.66	-90.00	965.21	-2,622.42	7,010.70	6,832.83	177.88	39.414		
12,800.00	6,083.00	6,018.00	6,018.00	127.12	120.66	-90.00	965.21	-2,622.42	7,096.72	6,918.73	177.98	39.873		
12,900.00	6,083.00	6,018.00	6,018.00	128.86	120.66	-90.00	965.21	-2,622.42	7,183.09	7,005.01	178.09	40.335		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
13,000.00	6,083.00	6,018.00	6,018.00	130.60	120.66	-90.00	965.21	-2,622.42	7,269.82	7,091.63	178.18	40.799		
13,100.00	6,083.00	6,018.00	6,018.00	132.33	120.66	-90.00	965.21	-2,622.42	7,356.88	7,178.60	178.28	41.266		
13,200.00	6,083.00	6,018.00	6,018.00	134.07	120.66	-90.00	965.21	-2,622.42	7,444.26	7,265.89	178.37	41.734		
13,300.00	6,083.00	6,018.00	6,018.00	135.81	120.66	-90.00	965.21	-2,622.42	7,531.96	7,353.50	178.46	42.205		
13,400.00	6,083.00	6,018.00	6,018.00	137.55	120.66	-90.00	965.21	-2,622.42	7,619.96	7,441.42	178.55	42.677		
13,500.00	6,083.00	6,018.00	6,018.00	139.29	120.66	-90.00	965.21	-2,622.42	7,708.26	7,529.63	178.63	43.152		
13,600.00	6,083.00	6,018.00	6,018.00	141.03	120.66	-90.00	965.21	-2,622.42	7,796.84	7,618.13	178.71	43.628		
13,700.00	6,083.00	6,018.00	6,018.00	142.78	120.66	-90.00	965.21	-2,622.42	7,885.69	7,706.90	178.79	44.106		
13,800.00	6,083.00	6,018.00	6,018.00	144.52	120.66	-90.00	965.21	-2,622.42	7,974.80	7,795.94	178.87	44.585		
13,900.00	6,083.00	6,018.00	6,018.00	146.26	120.66	-90.00	965.21	-2,622.42	8,064.18	7,885.24	178.94	45.066		
14,000.00	6,083.00	6,018.00	6,018.00	148.01	120.66	-90.00	965.21	-2,622.42	8,153.79	7,974.78	179.01	45.549		
14,100.00	6,083.00	6,018.00	6,018.00	149.75	120.66	-90.00	965.21	-2,622.42	8,243.65	8,064.57	179.08	46.033		
14,200.00	6,083.00	6,018.00	6,018.00	151.50	120.66	-90.00	965.21	-2,622.42	8,333.74	8,154.59	179.15	46.518		
14,300.00	6,083.00	6,018.00	6,018.00	153.25	120.66	-90.00	965.21	-2,622.42	8,424.05	8,244.83	179.22	47.005		
14,400.00	6,083.00	6,018.00	6,018.00	154.99	120.66	-90.00	965.21	-2,622.42	8,514.58	8,335.29	179.28	47.493		
14,500.00	6,083.00	6,018.00	6,018.00	156.74	120.66	-90.00	965.21	-2,622.42	8,605.31	8,425.97	179.34	47.982		
14,600.00	6,083.00	6,018.00	6,018.00	158.49	120.66	-90.00	965.21	-2,622.42	8,696.25	8,516.85	179.41	48.473		
14,700.00	6,083.00	6,018.00	6,018.00	160.24	120.66	-90.00	965.21	-2,622.42	8,787.39	8,607.92	179.47	48.964		
14,800.00	6,083.00	6,018.00	6,018.00	161.99	120.66	-90.00	965.21	-2,622.42	8,878.72	8,699.19	179.52	49.457		
14,900.00	6,083.00	6,018.00	6,018.00	163.74	120.66	-90.00	965.21	-2,622.42	8,970.23	8,790.65	179.58	49.951		
15,000.00	6,083.00	6,018.00	6,018.00	165.49	120.66	-90.00	965.21	-2,622.42	9,061.92	8,882.29	179.64	50.445		
15,100.00	6,083.00	6,018.00	6,018.00	167.24	120.66	-90.00	965.21	-2,622.42	9,153.79	8,974.10	179.69	50.941		
15,200.00	6,083.00	6,018.00	6,018.00	168.99	120.66	-90.00	965.21	-2,622.42	9,245.83	9,066.08	179.75	51.437		
15,300.00	6,083.00	6,018.00	6,018.00	170.74	120.66	-90.00	965.21	-2,622.42	9,338.02	9,158.22	179.80	51.935		
15,400.00	6,083.00	6,018.00	6,018.00	172.50	120.66	-90.00	965.21	-2,622.42	9,430.38	9,250.53	179.86	52.433		
15,500.00	6,083.00	6,018.00	6,018.00	174.25	120.66	-90.00	965.21	-2,622.42	9,522.90	9,342.99	179.91	52.932		
15,600.00	6,083.00	6,018.00	6,018.00	176.00	120.66	-90.00	965.21	-2,622.42	9,615.56	9,435.60	179.96	53.432		
15,700.00	6,083.00	6,018.00	6,018.00	177.76	120.66	-90.00	965.21	-2,622.42	9,708.37	9,528.35	180.01	53.932		
15,800.00	6,083.00	6,018.00	6,018.00	179.51	120.66	-90.00	965.21	-2,622.42	9,801.31	9,621.25	180.06	54.433		
15,900.00	6,083.00	6,018.00	6,018.00	181.27	120.66	-90.00	965.21	-2,622.42	9,894.40	9,714.29	180.11	54.935		
16,000.00	6,083.00	6,018.00	6,018.00	183.02	120.66	-90.00	965.21	-2,622.42	9,987.62	9,807.46	180.16	55.438		
16,100.00	6,083.00	6,018.00	6,018.00	184.78	120.66	-90.00	965.21	-2,622.42	10,080.97	9,900.77	180.21	55.941		
16,101.43	6,083.00	6,018.00	6,018.00	184.81	120.66	-90.00	965.21	-2,622.42	10,082.31	9,900.53	181.77	55.467		

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
0.00	0.00	10.00	10.00	0.00	0.12	-9.61	7,511.83	-1,272.04	7,618.78					
100.00	100.00	110.00	110.00	0.27	1.43	-9.61	7,511.83	-1,272.04	7,618.78	7,617.08	1.70	4,492.094		
200.00	199.98	209.98	209.98	0.62	3.70	-87.32	7,511.83	-1,272.04	7,618.69	7,614.38	4.32	1,764.203		
300.00	299.84	309.84	309.84	0.99	5.77	-87.36	7,511.83	-1,272.04	7,618.45	7,611.70	6.75	1,128.505		
400.00	399.45	409.45	409.45	1.36	7.80	-87.44	7,511.83	-1,272.04	7,618.06	7,608.90	9.16	831.705		
500.00	498.70	508.70	508.70	1.76	9.81	-87.54	7,511.83	-1,272.04	7,617.52	7,605.95	11.57	658.470		
600.00	597.47	607.47	607.47	2.18	11.81	-87.67	7,511.83	-1,272.04	7,616.86	7,602.87	13.99	544.546		
700.00	695.99	705.99	705.99	2.62	13.80	-87.79	7,511.83	-1,272.04	7,616.17	7,599.75	16.42	463.920		
800.00	794.52	804.52	804.52	3.06	15.79	-87.92	7,511.83	-1,272.04	7,615.52	7,596.67	18.85	403.987		
900.00	893.05	903.05	903.05	3.51	17.77	-88.05	7,511.83	-1,272.04	7,614.91	7,593.62	21.29	357.717		
1,000.00	991.57	1,001.57	1,001.57	3.97	19.76	-88.17	7,511.83	-1,272.04	7,614.34	7,590.61	23.73	320.930		
1,100.00	1,090.10	1,100.10	1,100.10	4.42	21.74	-88.30	7,511.83	-1,272.04	7,613.80	7,587.64	26.17	290.989		
1,200.00	1,188.62	1,198.62	1,198.62	4.88	23.73	-88.43	7,511.83	-1,272.04	7,613.31	7,584.70	28.61	266.148		
1,300.00	1,287.15	1,297.15	1,297.15	5.34	25.71	-88.55	7,511.83	-1,272.04	7,612.85	7,581.80	31.05	245.209		
1,400.00	1,385.68	1,395.68	1,395.68	5.79	27.69	-88.68	7,511.83	-1,272.04	7,612.43	7,578.94	33.49	227.320		
1,500.00	1,484.20	1,494.20	1,494.20	6.25	29.68	-88.81	7,511.83	-1,272.04	7,612.05	7,576.12	35.93	211.862		
1,600.00	1,582.73	1,592.73	1,592.73	6.71	31.66	-88.94	7,511.83	-1,272.04	7,611.71	7,573.34	38.37	198.371		
1,700.00	1,681.26	1,691.26	1,691.26	7.17	33.64	-89.06	7,511.83	-1,272.04	7,611.41	7,570.59	40.81	186.494		
1,800.00	1,779.78	1,789.78	1,789.78	7.63	35.62	-89.19	7,511.83	-1,272.04	7,611.14	7,567.89	43.26	175.958		
1,900.00	1,878.31	1,888.31	1,888.31	8.09	37.61	-89.32	7,511.83	-1,272.04	7,610.91	7,565.22	45.70	166.549		
2,000.00	1,976.83	1,986.83	1,986.83	8.55	39.59	-89.44	7,511.83	-1,272.04	7,610.73	7,562.59	48.14	158.095		
2,100.00	2,075.36	2,085.36	2,085.36	9.01	41.57	-89.57	7,511.83	-1,272.04	7,610.58	7,559.99	50.58	150.458		
2,200.00	2,173.89	2,183.89	2,183.89	9.47	43.55	-89.70	7,511.83	-1,272.04	7,610.47	7,557.44	53.03	143.526		
2,300.00	2,272.41	2,282.41	2,282.41	9.93	45.53	-89.82	7,511.83	-1,272.04	7,610.39	7,554.92	55.47	137.204		
2,400.00	2,370.94	2,380.94	2,380.94	10.40	47.52	-89.95	7,511.83	-1,272.04	7,610.36	7,552.45	57.91	131.416		
2,439.34	2,409.70	2,419.70	2,419.70	10.58	48.30	-90.00	7,511.83	-1,272.04	7,610.36	7,551.48	58.87	129.271		
2,500.00	2,469.47	2,479.47	2,479.47	10.86	49.50	-90.08	7,511.83	-1,272.04	7,610.36	7,550.01	60.35	126.098		
2,600.00	2,567.99	2,577.99	2,577.99	11.32	51.48	-90.20	7,511.83	-1,272.04	7,610.40	7,547.61	62.80	121.194		
2,700.00	2,666.52	2,676.52	2,676.52	11.78	53.46	-90.33	7,511.83	-1,272.04	7,610.49	7,545.25	65.24	116.657		
2,800.00	2,765.05	2,775.05	2,775.05	12.24	55.44	-90.46	7,511.83	-1,272.04	7,610.61	7,542.92	67.68	112.449		
2,900.00	2,863.57	2,873.57	2,873.57	12.70	57.43	-90.58	7,511.83	-1,272.04	7,610.76	7,540.64	70.12	108.534		
3,000.00	2,962.10	2,972.10	2,972.10	13.16	59.41	-90.71	7,511.83	-1,272.04	7,610.96	7,538.39	72.57	104.884		
3,100.00	3,060.62	3,070.62	3,070.62	13.63	61.39	-90.84	7,511.83	-1,272.04	7,611.19	7,536.19	75.01	101.472		
3,200.00	3,159.15	3,169.15	3,169.15	14.09	63.37	-90.97	7,511.83	-1,272.04	7,611.47	7,534.02	77.45	98.275		
3,300.00	3,257.68	3,267.68	3,267.68	14.55	65.35	-91.09	7,511.83	-1,272.04	7,611.78	7,531.89	79.89	95.275		
3,400.00	3,356.20	3,366.20	3,366.20	15.01	67.33	-91.22	7,511.83	-1,272.04	7,612.13	7,529.79	82.34	92.453		
3,500.00	3,454.73	3,464.73	3,464.73	15.47	69.32	-91.35	7,511.83	-1,272.04	7,612.52	7,527.74	84.78	89.794		
3,600.00	3,553.26	3,563.26	3,563.26	15.93	71.30	-91.47	7,511.83	-1,272.04	7,612.94	7,525.72	87.22	87.284		
3,700.00	3,651.78	3,661.78	3,661.78	16.40	73.28	-91.60	7,511.83	-1,272.04	7,613.41	7,523.75	89.66	84.912		
3,800.00	3,750.31	3,760.31	3,760.31	16.86	75.26	-91.73	7,511.83	-1,272.04	7,613.91	7,521.81	92.10	82.666		
3,900.00	3,848.83	3,858.83	3,858.83	17.32	77.24	-91.85	7,511.83	-1,272.04	7,614.46	7,519.91	94.55	80.537		
4,000.00	3,947.36	3,957.36	3,957.36	17.78	79.22	-91.98	7,511.83	-1,272.04	7,615.04	7,518.05	96.99	78.515		
4,100.00	4,045.89	4,055.89	4,055.89	18.24	81.20	-92.11	7,511.83	-1,272.04	7,615.65	7,516.22	99.43	76.593		
4,200.00	4,144.41	4,154.41	4,154.41	18.70	83.19	-92.23	7,511.83	-1,272.04	7,616.31	7,514.44	101.87	74.763		
4,300.00	4,242.94	4,252.94	4,252.94	19.17	85.17	-92.36	7,511.83	-1,272.04	7,617.01	7,512.69	104.31	73.020		
4,400.00	4,341.47	4,351.47	4,351.47	19.63	87.15	-92.49	7,511.83	-1,272.04	7,617.74	7,510.98	106.76	71.357		
4,500.00	4,439.99	4,449.99	4,449.99	20.09	89.13	-92.61	7,511.83	-1,272.04	7,618.51	7,509.32	109.20	69.768		
4,600.00	4,538.52	4,548.52	4,548.52	20.55	91.11	-92.74	7,511.83	-1,272.04	7,619.32	7,507.68	111.64	68.249		
4,700.00	4,637.04	4,647.04	4,647.04	21.01	93.09	-92.87	7,511.83	-1,272.04	7,620.17	7,506.09	114.08	66.796		
4,800.00	4,735.57	4,745.57	4,745.57	21.48	95.07	-92.99	7,511.83	-1,272.04	7,621.06	7,504.54	116.52	65.404		
4,900.00	4,834.10	4,844.10	4,844.10	21.94	97.06	-93.12	7,511.83	-1,272.04	7,621.98	7,503.02	118.96	64.070		
5,000.00	4,932.62	4,942.62	4,942.62	22.40	99.04	-93.25	7,511.83	-1,272.04	7,622.95	7,501.54	121.40	62.790		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
5,100.00	5,031.15	5,041.15	5,041.15	22.86	101.02	-93.37	7,511.83	-1,272.04	7,623.95	7,500.10	123.85	61.560		
5,200.00	5,129.68	5,139.68	5,139.68	23.32	103.00	-93.50	7,511.83	-1,272.04	7,624.99	7,498.70	126.29	60.378		
5,300.00	5,228.20	5,238.20	5,238.20	23.79	104.98	-93.62	7,511.83	-1,272.04	7,626.07	7,497.34	128.73	59.242		
5,400.00	5,326.73	5,336.73	5,336.73	24.25	106.96	-93.75	7,511.83	-1,272.04	7,627.19	7,496.02	131.17	58.148		
5,500.00	5,425.25	5,435.25	5,435.25	24.71	108.94	-93.88	7,511.83	-1,272.04	7,628.34	7,494.73	133.61	57.094		
5,600.00	5,523.78	5,533.78	5,533.78	25.17	110.93	-94.00	7,511.83	-1,272.04	7,629.53	7,493.48	136.05	56.079		
5,700.00	5,621.78	5,631.78	5,631.78	25.64	112.90	-59.33	7,511.83	-1,272.04	7,624.79	7,486.30	138.49	55.056		
5,800.00	5,716.63	5,726.63	5,726.63	26.12	114.80	-43.16	7,511.83	-1,272.04	7,603.76	7,462.87	140.89	53.969		
5,900.00	5,805.45	5,815.45	5,815.45	26.60	116.59	-37.28	7,511.83	-1,272.04	7,566.92	7,423.74	143.18	52.850		
6,000.00	5,895.54	5,895.54	5,895.54	27.08	118.20	-35.78	7,511.83	-1,272.04	7,515.43	7,370.15	145.28	51.730		
6,100.00	5,954.47	5,964.47	5,964.47	27.57	119.59	-37.15	7,511.83	-1,272.04	7,450.88	7,303.73	147.14	50.637		
6,200.00	6,010.13	6,020.13	6,020.13	28.08	120.71	-41.51	7,511.83	-1,272.04	7,375.26	7,226.54	148.72	49.593		
6,300.00	6,050.85	6,060.85	6,060.85	28.62	121.53	-50.18	7,511.83	-1,272.04	7,290.88	7,140.92	149.96	48.619		
6,400.00	6,075.38	6,085.38	6,085.38	29.22	122.02	-66.02	7,511.83	-1,272.04	7,200.31	7,049.46	150.85	47.732		
6,500.00	6,083.00	6,093.00	6,093.00	29.87	122.17	-90.00	7,511.83	-1,272.04	7,106.28	6,954.92	151.36	46.948		
6,600.00	6,083.00	6,093.00	6,093.00	30.60	122.17	-90.00	7,511.83	-1,272.04	7,011.59	6,859.87	151.72	46.213		
6,700.00	6,083.00	6,093.00	6,093.00	31.42	122.17	-90.00	7,511.83	-1,272.04	6,917.05	6,764.96	152.10	45.478		
6,800.00	6,083.00	6,093.00	6,093.00	32.32	122.17	-90.00	7,511.83	-1,272.04	6,822.67	6,670.18	152.49	44.741		
6,900.00	6,083.00	6,093.00	6,093.00	33.30	122.17	-90.00	7,511.83	-1,272.04	6,728.45	6,575.54	152.91	44.003		
7,000.00	6,083.00	6,093.00	6,093.00	34.35	122.17	-90.00	7,511.83	-1,272.04	6,634.39	6,481.05	153.34	43.265		
7,100.00	6,083.00	6,093.00	6,093.00	35.45	122.17	-90.00	7,511.83	-1,272.04	6,540.52	6,386.72	153.80	42.526		
7,200.00	6,083.00	6,093.00	6,093.00	36.62	122.17	-90.00	7,511.83	-1,272.04	6,446.82	6,292.55	154.28	41.787		
7,300.00	6,083.00	6,093.00	6,093.00	37.83	122.17	-90.00	7,511.83	-1,272.04	6,353.32	6,198.54	154.78	41.047		
7,400.00	6,083.00	6,093.00	6,093.00	39.09	122.17	-90.00	7,511.83	-1,272.04	6,260.03	6,104.72	155.31	40.308		
7,500.00	6,083.00	6,093.00	6,093.00	40.39	122.17	-90.00	7,511.83	-1,272.04	6,166.94	6,011.08	155.86	39.568		
7,600.00	6,083.00	6,093.00	6,093.00	41.73	122.17	-90.00	7,511.83	-1,272.04	6,074.07	5,917.63	156.43	38.829		
7,700.00	6,083.00	6,093.00	6,093.00	43.10	122.17	-90.00	7,511.83	-1,272.04	5,981.43	5,824.39	157.03	38.090		
7,800.00	6,083.00	6,093.00	6,093.00	44.50	122.17	-90.00	7,511.83	-1,272.04	5,889.03	5,731.36	157.66	37.352		
7,900.00	6,083.00	6,093.00	6,093.00	45.93	122.17	-90.00	7,511.83	-1,272.04	5,796.88	5,638.56	158.32	36.614		
8,000.00	6,083.00	6,093.00	6,093.00	47.38	122.17	-90.00	7,511.83	-1,272.04	5,705.00	5,545.99	159.01	35.878		
8,100.00	6,083.00	6,093.00	6,093.00	48.85	122.17	-90.00	7,511.83	-1,272.04	5,613.39	5,453.66	159.73	35.143		
8,200.00	6,083.00	6,093.00	6,093.00	50.34	122.17	-90.00	7,511.83	-1,272.04	5,522.08	5,361.60	160.48	34.409		
8,300.00	6,083.00	6,093.00	6,093.00	51.85	122.17	-90.00	7,511.83	-1,272.04	5,431.07	5,269.80	161.27	33.677		
8,400.00	6,083.00	6,093.00	6,093.00	53.38	122.17	-90.00	7,511.83	-1,272.04	5,340.39	5,178.30	162.09	32.947		
8,500.00	6,083.00	6,093.00	6,093.00	54.92	122.17	-90.00	7,511.83	-1,272.04	5,250.04	5,087.09	162.95	32.220		
8,600.00	6,083.00	6,093.00	6,093.00	56.48	122.17	-90.00	7,511.83	-1,272.04	5,160.05	4,996.21	163.84	31.494		
8,700.00	6,083.00	6,093.00	6,093.00	58.04	122.17	-90.00	7,511.83	-1,272.04	5,070.43	4,905.66	164.77	30.772		
8,800.00	6,083.00	6,093.00	6,093.00	59.63	122.17	-90.00	7,511.83	-1,272.04	4,981.21	4,815.46	165.75	30.053		
8,900.00	6,083.00	6,093.00	6,093.00	61.22	122.17	-90.00	7,511.83	-1,272.04	4,892.41	4,725.64	166.76	29.338		
9,000.00	6,083.00	6,093.00	6,093.00	62.82	122.17	-90.00	7,511.83	-1,272.04	4,804.04	4,636.22	167.82	28.626		
9,100.00	6,083.00	6,093.00	6,093.00	64.43	122.17	-90.00	7,511.83	-1,272.04	4,716.14	4,547.22	168.93	27.918		
9,200.00	6,083.00	6,093.00	6,093.00	66.05	122.17	-90.00	7,511.83	-1,272.04	4,628.74	4,458.65	170.08	27.215		
9,300.00	6,083.00	6,093.00	6,093.00	67.67	122.17	-90.00	7,511.83	-1,272.04	4,541.85	4,370.56	171.28	26.516		
9,400.00	6,083.00	6,093.00	6,093.00	69.31	122.17	-90.00	7,511.83	-1,272.04	4,455.51	4,282.97	172.54	25.823		
9,500.00	6,083.00	6,093.00	6,093.00	70.95	122.17	-90.00	7,511.83	-1,272.04	4,369.75	4,195.91	173.85	25.136		
9,600.00	6,083.00	6,093.00	6,093.00	72.60	122.17	-90.00	7,511.83	-1,272.04	4,284.61	4,109.41	175.21	24.454		
9,700.00	6,083.00	6,093.00	6,093.00	74.25	122.17	-90.00	7,511.83	-1,272.04	4,200.13	4,023.50	176.63	23.780		
9,800.00	6,083.00	6,093.00	6,093.00	75.91	122.17	-90.00	7,511.83	-1,272.04	4,116.34	3,938.24	178.11	23.112		
9,900.00	6,083.00	6,093.00	6,093.00	77.57	122.17	-90.00	7,511.83	-1,272.04	4,033.29	3,853.65	179.65	22.451		
10,000.00	6,083.00	6,093.00	6,093.00	79.24	122.17	-90.00	7,511.83	-1,272.04	3,951.03	3,769.78	181.25	21.798		
10,100.00	6,083.00	6,093.00	6,093.00	80.91	122.17	-90.00	7,511.83	-1,272.04	3,869.60	3,686.68	182.92	21.154		
10,200.00	6,083.00	6,093.00	6,093.00	82.59	122.17	-90.00	7,511.83	-1,272.04	3,789.06	3,604.40	184.66	20.519		

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

Civitas Resources
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
10,300.00	6,083.00	6,093.00	6,093.00	84.27	122.17	-90.00	7,511.83	-1,272.04	3,709.47	3,523.00	186.47	19.893		
10,400.00	6,083.00	6,093.00	6,093.00	85.95	122.17	-90.00	7,511.83	-1,272.04	3,630.89	3,442.54	188.35	19.277		
10,500.00	6,083.00	6,093.00	6,093.00	87.64	122.17	-90.00	7,511.83	-1,272.04	3,553.39	3,363.08	190.30	18.672		
10,600.00	6,083.00	6,093.00	6,093.00	89.34	122.17	-90.00	7,511.83	-1,272.04	3,477.03	3,284.70	192.33	18.078		
10,700.00	6,083.00	6,093.00	6,093.00	91.03	122.17	-90.00	7,511.83	-1,272.04	3,401.90	3,207.46	194.44	17.496		
10,800.00	6,083.00	6,093.00	6,093.00	92.73	122.17	-90.00	7,511.83	-1,272.04	3,328.08	3,131.46	196.62	16.927		
10,900.00	6,083.00	6,093.00	6,093.00	94.43	122.17	-90.00	7,511.83	-1,272.04	3,255.65	3,056.78	198.88	16.370		
11,000.00	6,083.00	6,093.00	6,093.00	96.13	122.17	-90.00	7,511.83	-1,272.04	3,184.72	2,983.51	201.21	15.828		
11,100.00	6,083.00	6,093.00	6,093.00	97.84	122.17	-90.00	7,511.83	-1,272.04	3,115.39	2,911.77	203.62	15.300		
11,200.00	6,083.00	6,093.00	6,093.00	99.55	122.17	-90.00	7,511.83	-1,272.04	3,047.76	2,841.66	206.10	14.788		
11,300.00	6,083.00	6,093.00	6,093.00	101.26	122.17	-90.00	7,511.83	-1,272.04	2,981.95	2,773.29	208.66	14.291		
11,400.00	6,083.00	6,093.00	6,093.00	102.97	122.17	-90.00	7,511.83	-1,272.04	2,918.08	2,706.80	211.28	13.812		
11,500.00	6,083.00	6,093.00	6,093.00	104.68	122.17	-90.00	7,511.83	-1,272.04	2,856.29	2,642.33	213.96	13.350		
11,600.00	6,083.00	6,093.00	6,093.00	106.40	122.17	-90.00	7,511.83	-1,272.04	2,796.71	2,580.01	216.70	12.906		
11,700.00	6,083.00	6,093.00	6,093.00	108.12	122.17	-90.00	7,511.83	-1,272.04	2,739.48	2,519.99	219.48	12.481		
11,800.00	6,083.00	6,093.00	6,093.00	109.84	122.17	-90.00	7,511.83	-1,272.04	2,684.76	2,462.45	222.31	12.077		
11,900.00	6,083.00	6,093.00	6,093.00	111.56	122.17	-90.00	7,511.83	-1,272.04	2,632.70	2,407.55	225.15	11.693		
12,000.00	6,083.00	6,093.00	6,093.00	113.29	122.17	-90.00	7,511.83	-1,272.04	2,583.46	2,355.46	228.01	11.331		
12,100.00	6,083.00	6,093.00	6,093.00	115.01	122.17	-90.00	7,511.83	-1,272.04	2,537.22	2,306.36	230.86	10.990		
12,200.00	6,083.00	6,093.00	6,093.00	116.74	122.17	-90.00	7,511.83	-1,272.04	2,494.12	2,260.44	233.68	10.673		
12,300.00	6,083.00	6,093.00	6,093.00	118.47	122.17	-90.00	7,511.83	-1,272.04	2,454.35	2,217.89	236.46	10.379		
12,400.00	6,083.00	6,093.00	6,093.00	120.19	122.17	-90.00	7,511.83	-1,272.04	2,418.06	2,178.88	239.18	10.110		
12,500.00	6,083.00	6,093.00	6,093.00	121.93	122.17	-90.00	7,511.83	-1,272.04	2,385.41	2,143.61	241.80	9.865		
12,600.00	6,083.00	6,093.00	6,093.00	123.66	122.17	-90.00	7,511.83	-1,272.04	2,356.56	2,112.24	244.32	9.646		
12,700.00	6,083.00	6,093.00	6,093.00	125.39	122.17	-90.00	7,511.83	-1,272.04	2,331.64	2,084.95	246.69	9.452		
12,800.00	6,083.00	6,093.00	6,093.00	127.12	122.17	-90.00	7,511.83	-1,272.04	2,310.79	2,061.88	248.91	9.284		
12,900.00	6,083.00	6,093.00	6,093.00	128.86	122.17	-90.00	7,511.83	-1,272.04	2,294.11	2,043.17	250.94	9.142		
13,000.00	6,083.00	6,093.00	6,093.00	130.60	122.17	-90.00	7,511.83	-1,272.04	2,281.69	2,028.92	252.77	9.027		
13,100.00	6,083.00	6,093.00	6,093.00	132.33	122.17	-90.00	7,511.83	-1,272.04	2,273.61	2,019.23	254.37	8.938		
13,200.00	6,083.00	6,093.00	6,093.00	134.07	122.17	-90.00	7,511.83	-1,272.04	2,269.91	2,014.16	255.74	8.876		
13,234.00	6,083.00	6,093.00	6,093.00	134.66	122.17	-90.00	7,511.83	-1,272.04	2,269.65	2,013.50	256.15	8.861 CC, ES		
13,300.00	6,083.00	6,093.00	6,093.00	135.81	122.17	-90.00	7,511.83	-1,272.04	2,270.61	2,013.74	256.87	8.840		
13,400.00	6,083.00	6,093.00	6,093.00	137.55	122.17	-90.00	7,511.83	-1,272.04	2,275.71	2,017.97	257.74	8.830 SF		
13,500.00	6,083.00	6,093.00	6,093.00	139.29	122.17	-90.00	7,511.83	-1,272.04	2,285.17	2,026.82	258.35	8.845		
13,600.00	6,083.00	6,093.00	6,093.00	141.03	122.17	-90.00	7,511.83	-1,272.04	2,298.96	2,040.24	258.72	8.886		
13,700.00	6,083.00	6,093.00	6,093.00	142.78	122.17	-90.00	7,511.83	-1,272.04	2,316.98	2,058.14	258.83	8.952		
13,800.00	6,083.00	6,093.00	6,093.00	144.52	122.17	-90.00	7,511.83	-1,272.04	2,339.14	2,080.42	258.72	9.041		
13,900.00	6,083.00	6,093.00	6,093.00	146.26	122.17	-90.00	7,511.83	-1,272.04	2,365.32	2,106.94	258.38	9.154		
14,000.00	6,083.00	6,093.00	6,093.00	148.01	122.17	-90.00	7,511.83	-1,272.04	2,395.40	2,137.56	257.84	9.290		
14,100.00	6,083.00	6,093.00	6,093.00	149.75	122.17	-90.00	7,511.83	-1,272.04	2,429.22	2,172.10	257.12	9.448		
14,200.00	6,083.00	6,093.00	6,093.00	151.50	122.17	-90.00	7,511.83	-1,272.04	2,466.64	2,210.41	256.22	9.627		
14,300.00	6,083.00	6,093.00	6,093.00	153.25	122.17	-90.00	7,511.83	-1,272.04	2,507.48	2,252.30	255.18	9.826		
14,400.00	6,083.00	6,093.00	6,093.00	154.99	122.17	-90.00	7,511.83	-1,272.04	2,551.60	2,297.59	254.01	10.045		
14,500.00	6,083.00	6,093.00	6,093.00	156.74	122.17	-90.00	7,511.83	-1,272.04	2,598.81	2,346.08	252.74	10.283		
14,600.00	6,083.00	6,093.00	6,093.00	158.49	122.17	-90.00	7,511.83	-1,272.04	2,648.97	2,397.59	251.37	10.538		
14,700.00	6,083.00	6,093.00	6,093.00	160.24	122.17	-90.00	7,511.83	-1,272.04	2,701.89	2,451.96	249.93	10.810		
14,800.00	6,083.00	6,093.00	6,093.00	161.99	122.17	-90.00	7,511.83	-1,272.04	2,757.42	2,508.99	248.44	11.099		
14,900.00	6,083.00	6,093.00	6,093.00	163.74	122.17	-90.00	7,511.83	-1,272.04	2,815.42	2,568.52	246.90	11.403		
15,000.00	6,083.00	6,093.00	6,093.00	165.49	122.17	-90.00	7,511.83	-1,272.04	2,875.72	2,630.39	245.33	11.722		
15,100.00	6,083.00	6,093.00	6,093.00	167.24	122.17	-90.00	7,511.83	-1,272.04	2,938.18	2,694.44	243.74	12.054		
15,200.00	6,083.00	6,093.00	6,093.00	168.99	122.17	-90.00	7,511.83	-1,272.04	3,002.68	2,760.54	242.15	12.400		
15,300.00	6,083.00	6,093.00	6,093.00	170.74	122.17	-90.00	7,511.83	-1,272.04	3,069.09	2,828.53	240.55	12.758		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,400.00	6,083.00	6,093.00	6,093.00	172.50	122.17	-90.00	7,511.83	-1,272.04	3,137.27	2,898.31	238.97	13.129	
15,500.00	6,083.00	6,093.00	6,093.00	174.25	122.17	-90.00	7,511.83	-1,272.04	3,207.13	2,969.74	237.39	13.510	
15,600.00	6,083.00	6,093.00	6,093.00	176.00	122.17	-90.00	7,511.83	-1,272.04	3,278.54	3,042.71	235.84	13.902	
15,700.00	6,083.00	6,093.00	6,093.00	177.76	122.17	-90.00	7,511.83	-1,272.04	3,351.42	3,117.12	234.30	14.304	
15,800.00	6,083.00	6,093.00	6,093.00	179.51	122.17	-90.00	7,511.83	-1,272.04	3,425.67	3,192.87	232.80	14.715	
15,900.00	6,083.00	6,093.00	6,093.00	181.27	122.17	-90.00	7,511.83	-1,272.04	3,501.20	3,269.87	231.32	15.136	
16,000.00	6,083.00	6,093.00	6,093.00	183.02	122.17	-90.00	7,511.83	-1,272.04	3,577.93	3,348.05	229.88	15.564	
16,100.00	6,083.00	6,093.00	6,093.00	184.78	122.17	-90.00	7,511.83	-1,272.04	3,655.78	3,427.32	228.47	16.001	
16,101.43	6,083.00	6,093.00	6,093.00	184.81	122.17	-90.00	7,511.83	-1,272.04	3,656.90	3,427.88	229.02	15.967	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	54.92	54.92	0.27	0.09	-179.02	-1,722.08	-29.54	1,722.33	1,721.98	0.36	4,844.586		
118.82	118.82	74.42	74.42	0.34	0.12	103.29	-1,722.05	-29.57	1,722.32	1,721.87	0.45	3,802.051	CC	
200.00	199.98	153.33	153.33	0.62	0.34	103.34	-1,721.94	-29.74	1,722.60	1,721.64	0.97	1,780.536	ES	
300.00	299.84	252.25	252.25	0.99	0.69	103.50	-1,722.01	-30.01	1,723.89	1,722.22	1.67	1,029.731		
400.00	399.45	355.92	355.92	1.36	1.05	103.76	-1,721.92	-30.44	1,725.88	1,723.47	2.41	715.495		
500.00	498.70	458.60	458.60	1.76	1.41	104.13	-1,721.58	-31.00	1,728.52	1,725.36	3.17	545.851		
600.00	597.47	554.25	554.25	2.18	1.75	104.58	-1,721.19	-31.74	1,732.06	1,728.14	3.92	441.607		
700.00	695.99	648.11	648.10	2.62	2.08	105.12	-1,721.11	-32.63	1,736.46	1,731.77	4.69	370.454		
800.00	794.52	746.54	746.53	3.06	2.42	105.68	-1,721.14	-33.54	1,741.15	1,735.68	5.47	318.095		
900.00	893.05	845.78	845.76	3.51	2.77	106.25	-1,721.08	-34.56	1,745.93	1,739.67	6.27	278.611		
1,000.00	991.57	942.63	942.59	3.97	3.11	106.82	-1,721.02	-36.11	1,750.93	1,743.87	7.05	248.225		
1,100.00	1,090.10	1,042.44	1,042.39	4.42	3.46	107.40	-1,721.02	-37.55	1,756.16	1,748.31	7.85	223.638		
1,200.00	1,188.62	1,145.87	1,145.81	4.88	3.83	108.02	-1,720.71	-39.54	1,761.32	1,752.65	8.67	203.252		
1,300.00	1,287.15	1,244.77	1,244.68	5.34	4.18	108.61	-1,720.19	-41.55	1,766.47	1,757.01	9.46	186.662		
1,400.00	1,385.68	1,342.68	1,342.56	5.79	4.53	109.20	-1,719.71	-44.00	1,771.89	1,761.63	10.26	172.710		
1,500.00	1,484.20	1,443.38	1,443.21	6.25	4.89	109.83	-1,719.00	-47.17	1,777.38	1,766.31	11.07	160.597		
1,600.00	1,582.73	1,545.16	1,544.94	6.71	5.25	110.46	-1,718.13	-50.41	1,782.95	1,771.07	11.88	150.104		
1,700.00	1,681.26	1,645.03	1,644.77	7.17	5.61	111.06	-1,717.09	-53.11	1,788.46	1,775.79	12.68	141.069		
1,800.00	1,779.78	1,736.95	1,736.65	7.63	5.93	111.60	-1,716.32	-55.27	1,794.32	1,780.87	13.45	133.454		
1,900.00	1,878.31	1,829.70	1,829.39	8.09	6.25	112.13	-1,716.07	-56.93	1,800.80	1,786.59	14.21	126.708		
2,000.00	1,976.83	1,935.12	1,934.80	8.55	6.62	112.69	-1,715.80	-58.05	1,807.35	1,792.33	15.02	120.309		
2,100.00	2,075.36	2,039.14	2,038.82	9.01	6.98	113.24	-1,715.12	-58.87	1,813.61	1,797.78	15.83	114.592		
2,200.00	2,173.89	2,141.69	2,141.36	9.47	7.34	113.77	-1,714.38	-59.43	1,819.91	1,803.28	16.62	109.470		
2,300.00	2,272.41	2,242.46	2,242.12	9.93	7.69	114.28	-1,713.31	-59.61	1,825.95	1,808.54	17.42	104.847		
2,400.00	2,370.94	2,339.04	2,338.71	10.40	8.02	114.77	-1,712.52	-59.91	1,832.39	1,814.20	18.19	100.735		
2,500.00	2,469.47	2,440.72	2,440.37	10.86	8.37	115.27	-1,711.45	-60.00	1,838.70	1,819.72	18.98	96.861		
2,600.00	2,567.99	2,535.63	2,535.28	11.32	8.71	115.73	-1,710.68	-59.85	1,845.32	1,825.57	19.75	93.433		
2,700.00	2,666.52	2,635.22	2,634.87	11.78	9.05	116.19	-1,709.97	-59.40	1,852.08	1,831.55	20.53	90.196		
2,800.00	2,765.05	2,732.40	2,732.04	12.24	9.39	116.62	-1,709.47	-58.13	1,858.95	1,837.64	21.31	87.238		
2,900.00	2,863.57	2,823.25	2,822.87	12.70	9.71	117.01	-1,709.28	-56.71	1,866.16	1,844.10	22.06	84.596		
3,000.00	2,962.10	2,908.71	2,908.34	13.16	10.00	117.38	-1,709.53	-55.95	1,874.11	1,851.32	22.79	82.244		
3,100.00	3,060.62	3,000.00	2,999.62	13.63	10.32	117.80	-1,709.99	-55.68	1,882.54	1,859.01	23.53	79.992		
3,200.00	3,159.15	3,087.49	3,087.11	14.09	10.62	118.21	-1,710.68	-56.09	1,891.58	1,867.32	24.26	77.958		
3,300.00	3,257.68	3,172.79	3,172.40	14.55	10.92	118.62	-1,711.85	-57.16	1,901.50	1,876.52	24.98	76.113		
3,400.00	3,356.20	3,258.42	3,258.00	15.01	11.22	119.03	-1,713.53	-58.53	1,912.20	1,886.50	25.70	74.404		
3,500.00	3,454.73	3,344.63	3,344.16	15.47	11.52	119.45	-1,715.62	-60.51	1,923.67	1,897.26	26.42	72.818		
3,600.00	3,553.26	3,428.20	3,427.66	15.93	11.82	119.87	-1,717.98	-63.04	1,935.89	1,908.77	27.12	71.379		
3,700.00	3,651.78	3,506.97	3,506.32	16.40	12.10	120.27	-1,720.89	-65.70	1,949.16	1,921.36	27.80	70.114		
3,800.00	3,750.31	3,600.00	3,599.21	16.86	12.44	120.73	-1,724.90	-69.09	1,963.21	1,934.67	28.54	68.787		
3,900.00	3,848.83	3,684.03	3,683.08	17.32	12.74	121.14	-1,728.84	-72.40	1,977.85	1,948.61	29.24	67.648		
4,000.00	3,947.36	3,787.55	3,786.39	17.78	13.12	121.65	-1,733.81	-76.70	1,992.82	1,962.80	30.02	66.374		
4,100.00	4,045.89	3,911.90	3,910.56	18.24	13.57	122.24	-1,738.98	-80.99	2,007.10	1,976.19	30.91	64.944		
4,200.00	4,144.41	4,016.92	4,015.48	18.70	13.94	122.71	-1,742.71	-83.69	2,020.63	1,988.94	31.70	63.750		
4,300.00	4,242.94	4,116.81	4,115.28	19.17	14.29	123.15	-1,746.07	-86.23	2,034.11	2,001.65	32.46	62.659		
4,400.00	4,341.47	4,232.20	4,230.59	19.63	14.70	123.66	-1,749.28	-89.19	2,047.18	2,013.88	33.30	61.480		
4,500.00	4,439.99	4,351.41	4,349.74	20.09	15.12	124.19	-1,751.51	-92.14	2,059.51	2,025.36	34.15	60.314		
4,600.00	4,538.52	4,468.89	4,467.19	20.55	15.53	124.70	-1,752.59	-94.34	2,070.84	2,035.86	34.98	59.193		
4,700.00	4,637.04	4,569.17	4,567.45	21.01	15.88	125.14	-1,752.86	-96.40	2,081.79	2,046.04	35.75	58.233		
4,800.00	4,735.57	4,669.68	4,667.93	21.48	16.23	125.59	-1,752.95	-98.90	2,092.86	2,056.35	36.51	57.318		
4,900.00	4,834.10	4,776.33	4,774.54	21.94	16.60	126.06	-1,752.70	-101.60	2,103.79	2,066.49	37.30	56.401		
5,000.00	4,932.62	4,893.01	4,891.20	22.40	17.00	126.57	-1,751.90	-103.93	2,114.23	2,076.10	38.13	55.451		
5,100.00	5,031.15	5,009.57	5,007.73	22.86	17.41	127.06	-1,750.16	-105.69	2,123.86	2,084.91	38.95	54.527		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	5,129.68	5,112.54	5,110.68	23.32	17.77	127.48	-1,748.36	-106.58	2,133.09	2,093.37	39.72	53.705		
5,300.00	5,228.20	5,210.92	5,209.05	23.79	18.11	127.86	-1,746.97	-106.44	2,142.30	2,101.83	40.47	52.936		
5,400.00	5,326.73	5,300.00	5,298.12	24.25	18.42	128.15	-1,746.50	-105.24	2,151.87	2,110.68	41.18	52.249		
5,500.00	5,425.25	5,396.00	5,394.10	24.71	18.75	128.44	-1,746.78	-103.01	2,161.79	2,119.86	41.93	51.556		
5,600.00	5,523.78	5,400.00	5,398.09	25.17	18.77	128.45	-1,746.80	-102.91	2,173.88	2,131.62	42.27	51.434 SF		
5,700.00	5,621.78	5,400.00	5,398.09	25.64	18.77	164.32	-1,746.80	-102.91	2,195.91	2,153.42	42.50	51.675		
5,800.00	5,716.63	5,400.00	5,398.09	26.12	18.77	-176.60	-1,746.80	-102.91	2,236.53	2,193.91	42.61	52.484		
5,900.00	5,805.45	5,400.00	5,398.09	26.60	18.77	-165.67	-1,746.80	-102.91	2,293.73	2,251.09	42.63	53.799		
6,000.00	5,885.54	5,400.00	5,398.09	27.08	18.77	-155.95	-1,746.80	-102.91	2,364.65	2,322.06	42.58	55.529		
6,100.00	5,954.47	5,400.00	5,398.09	27.57	18.77	-144.03	-1,746.80	-102.91	2,446.04	2,403.55	42.49	57.573		
6,200.00	6,010.13	5,400.00	5,398.09	28.08	18.77	-126.81	-1,746.80	-102.91	2,534.55	2,492.19	42.36	59.827		
6,300.00	6,050.85	5,400.00	5,398.09	28.62	18.77	-102.73	-1,746.80	-102.91	2,626.92	2,584.68	42.24	62.190		
6,400.00	6,075.38	5,400.00	5,398.09	29.22	18.77	-77.24	-1,746.80	-102.91	2,720.08	2,677.95	42.13	64.563		
6,500.00	6,083.00	5,400.00	5,398.09	29.87	18.77	-59.18	-1,746.80	-102.91	2,811.29	2,769.24	42.05	66.857		
6,600.00	6,083.00	5,400.00	5,398.09	30.60	18.77	-59.18	-1,746.80	-102.91	2,901.29	2,859.28	42.00	69.076		
6,700.00	6,083.00	5,400.00	5,398.09	31.42	18.77	-59.18	-1,746.80	-102.91	2,991.92	2,949.95	41.96	71.297		
6,800.00	6,083.00	5,400.00	5,398.09	32.32	18.77	-59.18	-1,746.80	-102.91	3,083.13	3,041.19	41.94	73.520		
6,900.00	6,083.00	5,400.00	5,398.09	33.30	18.77	-59.18	-1,746.80	-102.91	3,174.87	3,132.95	41.92	75.744		
7,000.00	6,083.00	5,400.00	5,398.09	34.35	18.77	-59.18	-1,746.80	-102.91	3,267.09	3,225.19	41.90	77.969		
7,100.00	6,083.00	5,400.00	5,398.09	35.45	18.77	-59.18	-1,746.80	-102.91	3,359.76	3,317.87	41.90	80.194		
7,200.00	6,083.00	5,400.00	5,398.09	36.62	18.77	-59.18	-1,746.80	-102.91	3,452.84	3,410.95	41.89	82.418		
7,300.00	6,083.00	5,400.00	5,398.09	37.83	18.77	-59.18	-1,746.80	-102.91	3,546.30	3,504.40	41.90	84.642		
7,400.00	6,083.00	5,400.00	5,398.09	39.09	18.77	-59.18	-1,746.80	-102.91	3,640.10	3,598.19	41.91	86.864		
7,500.00	6,083.00	5,400.00	5,398.09	40.39	18.77	-59.18	-1,746.80	-102.91	3,734.23	3,692.31	41.92	89.085		
7,600.00	6,083.00	5,400.00	5,398.09	41.73	18.77	-59.18	-1,746.80	-102.91	3,828.65	3,786.72	41.93	91.304		
7,700.00	6,083.00	5,400.00	5,398.09	43.10	18.77	-59.18	-1,746.80	-102.91	3,923.35	3,881.40	41.95	93.521		
7,800.00	6,083.00	5,400.00	5,398.09	44.50	18.77	-59.18	-1,746.80	-102.91	4,018.30	3,976.33	41.97	95.736		
7,900.00	6,083.00	5,400.00	5,398.09	45.93	18.77	-59.18	-1,746.80	-102.91	4,113.50	4,071.50	42.00	97.948		
8,000.00	6,083.00	5,400.00	5,398.09	47.38	18.77	-59.18	-1,746.80	-102.91	4,208.92	4,166.89	42.02	100.157		
8,100.00	6,083.00	5,400.00	5,398.09	48.85	18.77	-59.18	-1,746.80	-102.91	4,304.54	4,262.49	42.05	102.364		
8,200.00	6,083.00	5,400.00	5,398.09	50.34	18.77	-59.18	-1,746.80	-102.91	4,400.36	4,358.28	42.08	104.567		
8,300.00	6,083.00	5,400.00	5,398.09	51.85	18.77	-59.18	-1,746.80	-102.91	4,496.37	4,454.25	42.11	106.767		
8,400.00	6,083.00	5,400.00	5,398.09	53.38	18.77	-59.18	-1,746.80	-102.91	4,592.54	4,550.39	42.15	108.963		
8,500.00	6,083.00	5,400.00	5,398.09	54.92	18.77	-59.18	-1,746.80	-102.91	4,688.87	4,646.69	42.18	111.156		
8,600.00	6,083.00	5,400.00	5,398.09	56.48	18.77	-59.18	-1,746.80	-102.91	4,785.36	4,743.14	42.22	113.344		
8,700.00	6,083.00	5,400.00	5,398.09	58.04	18.77	-59.18	-1,746.80	-102.91	4,881.98	4,839.72	42.26	115.529		
8,800.00	6,083.00	5,400.00	5,398.09	59.63	18.77	-59.18	-1,746.80	-102.91	4,978.74	4,936.44	42.30	117.710		
8,900.00	6,083.00	5,400.00	5,398.09	61.22	18.77	-59.18	-1,746.80	-102.91	5,075.62	5,033.29	42.34	119.886		
9,000.00	6,083.00	5,400.00	5,398.09	62.82	18.77	-59.18	-1,746.80	-102.91	5,172.63	5,130.25	42.38	122.057		
9,100.00	6,083.00	5,400.00	5,398.09	64.43	18.77	-59.18	-1,746.80	-102.91	5,269.74	5,227.32	42.42	124.224		
9,200.00	6,083.00	5,400.00	5,398.09	66.05	18.77	-59.18	-1,746.80	-102.91	5,366.96	5,324.50	42.46	126.387		
9,300.00	6,083.00	5,400.00	5,398.09	67.67	18.77	-59.18	-1,746.80	-102.91	5,464.28	5,421.77	42.51	128.544		
9,400.00	6,083.00	5,400.00	5,398.09	69.31	18.77	-59.18	-1,746.80	-102.91	5,561.70	5,519.15	42.55	130.697		
9,500.00	6,083.00	5,400.00	5,398.09	70.95	18.77	-59.18	-1,746.80	-102.91	5,659.21	5,616.61	42.60	132.844		
9,600.00	6,083.00	5,400.00	5,398.09	72.60	18.77	-59.18	-1,746.80	-102.91	5,756.80	5,714.15	42.65	134.986		
9,700.00	6,083.00	5,400.00	5,398.09	74.25	18.77	-59.18	-1,746.80	-102.91	5,854.47	5,811.78	42.70	137.123		
9,800.00	6,083.00	5,400.00	5,398.09	75.91	18.77	-59.18	-1,746.80	-102.91	5,952.22	5,909.48	42.74	139.254		
9,900.00	6,083.00	5,400.00	5,398.09	77.57	18.77	-59.18	-1,746.80	-102.91	6,050.05	6,007.25	42.79	141.380		
10,000.00	6,083.00	5,400.00	5,398.09	79.24	18.77	-59.18	-1,746.80	-102.91	6,147.94	6,105.10	42.84	143.500		
10,100.00	6,083.00	5,400.00	5,398.09	80.91	18.77	-59.18	-1,746.80	-102.91	6,245.90	6,203.01	42.89	145.614		
10,200.00	6,083.00	5,400.00	5,398.09	82.59	18.77	-59.18	-1,746.80	-102.91	6,343.92	6,300.98	42.94	147.723		
10,300.00	6,083.00	5,400.00	5,398.09	84.27	18.77	-59.18	-1,746.80	-102.91	6,442.01	6,399.01	43.00	149.825		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	85.95	18.77	-59.18	-1,746.80	-102.91	6,540.15	6,497.10	43.05	151.921	
10,500.00	6,083.00	5,400.00	5,398.09	87.64	18.77	-59.18	-1,746.80	-102.91	6,638.35	6,595.25	43.10	154.012	
10,600.00	6,083.00	5,400.00	5,398.09	89.34	18.77	-59.18	-1,746.80	-102.91	6,736.60	6,693.45	43.16	156.095	
10,700.00	6,083.00	5,400.00	5,398.09	91.03	18.77	-59.18	-1,746.80	-102.91	6,834.90	6,791.69	43.21	158.173	
10,800.00	6,083.00	5,400.00	5,398.09	92.73	18.77	-59.18	-1,746.80	-102.91	6,933.26	6,889.99	43.27	160.244	
10,900.00	6,083.00	5,400.00	5,398.09	94.43	18.77	-59.18	-1,746.80	-102.91	7,031.65	6,988.33	43.32	162.309	
11,000.00	6,083.00	5,400.00	5,398.09	96.13	18.77	-59.18	-1,746.80	-102.91	7,130.09	7,086.72	43.38	164.367	
11,100.00	6,083.00	5,400.00	5,398.09	97.84	18.77	-59.18	-1,746.80	-102.91	7,228.58	7,185.14	43.44	166.418	
11,200.00	6,083.00	5,400.00	5,398.09	99.55	18.77	-59.18	-1,746.80	-102.91	7,327.11	7,283.61	43.49	168.463	
11,300.00	6,083.00	5,400.00	5,398.09	101.26	18.77	-59.18	-1,746.80	-102.91	7,425.67	7,382.12	43.55	170.501	
11,400.00	6,083.00	5,400.00	5,398.09	102.97	18.77	-59.18	-1,746.80	-102.91	7,524.27	7,480.66	43.61	172.532	
11,500.00	6,083.00	5,400.00	5,398.09	104.68	18.77	-59.18	-1,746.80	-102.91	7,622.91	7,579.24	43.67	174.556	
11,600.00	6,083.00	5,400.00	5,398.09	106.40	18.77	-59.18	-1,746.80	-102.91	7,721.59	7,677.86	43.73	176.573	
11,700.00	6,083.00	5,400.00	5,398.09	108.12	18.77	-59.18	-1,746.80	-102.91	7,820.30	7,776.50	43.79	178.583	
11,800.00	6,083.00	5,400.00	5,398.09	109.84	18.77	-59.18	-1,746.80	-102.91	7,919.04	7,875.18	43.85	180.585	
11,900.00	6,083.00	5,400.00	5,398.09	111.56	18.77	-59.18	-1,746.80	-102.91	8,017.81	7,973.89	43.91	182.581	
12,000.00	6,083.00	5,400.00	5,398.09	113.29	18.77	-59.18	-1,746.80	-102.91	8,116.61	8,072.63	43.98	184.569	
12,100.00	6,083.00	5,400.00	5,398.09	115.01	18.77	-59.18	-1,746.80	-102.91	8,215.44	8,171.40	44.04	186.550	
12,200.00	6,083.00	5,400.00	5,398.09	116.74	18.77	-59.18	-1,746.80	-102.91	8,314.30	8,270.20	44.10	188.524	
12,300.00	6,083.00	5,400.00	5,398.09	118.47	18.77	-59.18	-1,746.80	-102.91	8,413.18	8,369.02	44.17	190.490	
12,400.00	6,083.00	5,400.00	5,398.09	120.19	18.77	-59.18	-1,746.80	-102.91	8,512.10	8,467.87	44.23	192.449	
12,500.00	6,083.00	5,400.00	5,398.09	121.93	18.77	-59.18	-1,746.80	-102.91	8,611.03	8,566.74	44.30	194.400	
12,600.00	6,083.00	5,400.00	5,398.09	123.66	18.77	-59.18	-1,746.80	-102.91	8,709.99	8,665.63	44.36	196.343	
12,700.00	6,083.00	5,400.00	5,398.09	125.39	18.77	-59.18	-1,746.80	-102.91	8,808.98	8,764.55	44.43	198.279	
12,800.00	6,083.00	5,400.00	5,398.09	127.12	18.77	-59.18	-1,746.80	-102.91	8,907.99	8,863.49	44.49	200.208	
12,900.00	6,083.00	5,400.00	5,398.09	128.86	18.77	-59.18	-1,746.80	-102.91	9,007.02	8,962.45	44.56	202.128	
13,000.00	6,083.00	5,400.00	5,398.09	130.60	18.77	-59.18	-1,746.80	-102.91	9,106.07	9,061.44	44.63	204.041	
13,100.00	6,083.00	5,400.00	5,398.09	132.33	18.77	-59.18	-1,746.80	-102.91	9,205.14	9,160.44	44.70	205.947	
13,200.00	6,083.00	5,400.00	5,398.09	134.07	18.77	-59.18	-1,746.80	-102.91	9,304.23	9,259.46	44.77	207.844	
13,300.00	6,083.00	5,400.00	5,398.09	135.81	18.77	-59.18	-1,746.80	-102.91	9,403.34	9,358.50	44.83	209.733	
13,400.00	6,083.00	5,400.00	5,398.09	137.55	18.77	-59.18	-1,746.80	-102.91	9,502.47	9,457.56	44.90	211.615	
13,500.00	6,083.00	5,400.00	5,398.09	139.29	18.77	-59.18	-1,746.80	-102.91	9,601.61	9,556.64	44.97	213.489	
13,600.00	6,083.00	5,400.00	5,398.09	141.03	18.77	-59.18	-1,746.80	-102.91	9,700.78	9,655.73	45.05	215.355	
13,700.00	6,083.00	5,400.00	5,398.09	142.78	18.77	-59.18	-1,746.80	-102.91	9,799.96	9,754.84	45.12	217.213	
13,800.00	6,083.00	5,400.00	5,398.09	144.52	18.77	-59.18	-1,746.80	-102.91	9,899.16	9,853.97	45.19	219.062	
13,900.00	6,083.00	5,400.00	5,398.09	146.26	18.77	-59.18	-1,746.80	-102.91	9,998.37	9,953.11	45.26	220.904	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	-95.65	-388.41	-3,926.75	3,945.92	3,945.37	0.55	7,173.914	CC	
200.00	199.98	123.98	123.98	0.62	1.72	-173.34	-388.41	-3,926.75	3,947.65	3,945.30	2.35	1,682.285	ES	
300.00	299.84	223.84	223.84	0.99	3.96	-173.34	-388.41	-3,926.75	3,952.85	3,947.90	4.95	798.566		
400.00	399.45	323.45	323.45	1.36	6.02	-173.33	-388.41	-3,926.75	3,961.51	3,954.13	7.38	536.899		
500.00	498.70	422.70	422.70	1.76	8.05	-173.33	-388.41	-3,926.75	3,973.61	3,963.84	9.77	406.649		
600.00	597.47	521.47	521.47	2.18	10.05	-173.32	-388.41	-3,926.75	3,989.14	3,976.99	12.15	328.255		
700.00	695.99	619.99	619.99	2.62	12.04	-173.35	-388.41	-3,926.75	4,006.13	3,991.63	14.51	276.188		
800.00	794.52	718.52	718.52	3.06	14.03	-173.38	-388.41	-3,926.75	4,023.13	4,006.27	16.86	238.648		
900.00	893.05	817.05	817.05	3.51	16.02	-173.40	-388.41	-3,926.75	4,040.12	4,020.91	19.21	210.299		
1,000.00	991.57	915.57	915.57	3.97	18.01	-173.43	-388.41	-3,926.75	4,057.12	4,035.55	21.56	188.135		
1,100.00	1,090.10	1,014.10	1,014.10	4.42	19.99	-173.46	-388.41	-3,926.75	4,074.11	4,050.19	23.92	170.331		
1,200.00	1,188.62	1,112.62	1,112.62	4.88	21.98	-173.49	-388.41	-3,926.75	4,091.11	4,064.84	26.27	155.717		
1,300.00	1,287.15	1,211.15	1,211.15	5.34	23.96	-173.51	-388.41	-3,926.75	4,108.11	4,079.48	28.63	143.505		
1,400.00	1,385.68	1,309.68	1,309.68	5.79	25.94	-173.54	-388.41	-3,926.75	4,125.11	4,094.12	30.98	133.148		
1,500.00	1,484.20	1,408.20	1,408.20	6.25	27.93	-173.57	-388.41	-3,926.75	4,142.11	4,108.77	33.34	124.254		
1,600.00	1,582.73	1,506.73	1,506.73	6.71	29.91	-173.59	-388.41	-3,926.75	4,159.11	4,123.42	35.69	116.534		
1,700.00	1,681.26	1,605.26	1,605.26	7.17	31.89	-173.62	-388.41	-3,926.75	4,176.11	4,138.06	38.04	109.768		
1,800.00	1,779.78	1,703.78	1,703.78	7.63	33.87	-173.64	-388.41	-3,926.75	4,193.11	4,152.71	40.40	103.791		
1,900.00	1,878.31	1,802.31	1,802.31	8.09	35.86	-173.67	-388.41	-3,926.75	4,210.11	4,167.36	42.75	98.473		
2,000.00	1,976.83	1,900.83	1,900.83	8.55	37.84	-173.70	-388.41	-3,926.75	4,227.12	4,182.01	45.11	93.709		
2,100.00	2,075.36	1,999.36	1,999.36	9.01	39.82	-173.72	-388.41	-3,926.75	4,244.12	4,196.66	47.46	89.419		
2,200.00	2,173.89	2,097.89	2,097.89	9.47	41.80	-173.75	-388.41	-3,926.75	4,261.13	4,211.31	49.82	85.533		
2,300.00	2,272.41	2,196.41	2,196.41	9.93	43.78	-173.77	-388.41	-3,926.75	4,278.13	4,225.96	52.17	81.999		
2,400.00	2,370.94	2,294.94	2,294.94	10.40	45.77	-173.80	-388.41	-3,926.75	4,295.14	4,240.61	54.53	78.769		
2,500.00	2,469.47	2,393.47	2,393.47	10.86	47.75	-173.82	-388.41	-3,926.75	4,312.15	4,255.27	56.88	75.808		
2,600.00	2,567.99	2,491.99	2,491.99	11.32	49.73	-173.85	-388.41	-3,926.75	4,329.16	4,269.92	59.24	73.081		
2,700.00	2,666.52	2,590.52	2,590.52	11.78	51.71	-173.87	-388.41	-3,926.75	4,346.17	4,284.57	61.59	70.563		
2,800.00	2,765.05	2,689.05	2,689.05	12.24	53.69	-173.89	-388.41	-3,926.75	4,363.18	4,299.23	63.95	68.230		
2,900.00	2,863.57	2,787.57	2,787.57	12.70	55.68	-173.92	-388.41	-3,926.75	4,380.19	4,313.88	66.30	66.064		
3,000.00	2,962.10	2,886.10	2,886.10	13.16	57.66	-173.94	-388.41	-3,926.75	4,397.20	4,328.54	68.66	64.045		
3,100.00	3,060.62	2,984.62	2,984.62	13.63	59.64	-173.96	-388.41	-3,926.75	4,414.21	4,343.20	71.01	62.161		
3,200.00	3,159.15	3,083.15	3,083.15	14.09	61.62	-173.99	-388.41	-3,926.75	4,431.22	4,357.86	73.37	60.398		
3,300.00	3,257.68	3,181.68	3,181.68	14.55	63.60	-174.01	-388.41	-3,926.75	4,448.24	4,372.52	75.72	58.744		
3,400.00	3,356.20	3,280.20	3,280.20	15.01	65.58	-174.03	-388.41	-3,926.75	4,465.25	4,387.18	78.08	57.190		
3,500.00	3,454.73	3,378.73	3,378.73	15.47	67.57	-174.06	-388.41	-3,926.75	4,482.27	4,401.84	80.43	55.727		
3,600.00	3,553.26	3,477.26	3,477.26	15.93	69.55	-174.08	-388.41	-3,926.75	4,499.28	4,416.50	82.79	54.347		
3,700.00	3,651.78	3,575.78	3,575.78	16.40	71.53	-174.10	-388.41	-3,926.75	4,516.30	4,431.16	85.14	53.044		
3,800.00	3,750.31	3,674.31	3,674.31	16.86	73.51	-174.12	-388.41	-3,926.75	4,533.32	4,445.82	87.50	51.811		
3,900.00	3,848.83	3,772.83	3,772.83	17.32	75.49	-174.15	-388.41	-3,926.75	4,550.34	4,460.48	89.85	50.642		
4,000.00	3,947.36	3,871.36	3,871.36	17.78	77.47	-174.17	-388.41	-3,926.75	4,567.35	4,475.15	92.21	49.533		
4,100.00	4,045.89	3,969.89	3,969.89	18.24	79.45	-174.19	-388.41	-3,926.75	4,584.37	4,489.81	94.56	48.479		
4,200.00	4,144.41	4,068.41	4,068.41	18.70	81.44	-174.21	-388.41	-3,926.75	4,601.39	4,504.47	96.92	47.477		
4,300.00	4,242.94	4,166.94	4,166.94	19.17	83.42	-174.23	-388.41	-3,926.75	4,618.41	4,519.14	99.27	46.522		
4,400.00	4,341.47	4,265.47	4,265.47	19.63	85.40	-174.25	-388.41	-3,926.75	4,635.43	4,533.80	101.63	45.611		
4,500.00	4,439.99	4,363.99	4,363.99	20.09	87.38	-174.27	-388.41	-3,926.75	4,652.46	4,548.47	103.98	44.742		
4,600.00	4,538.52	4,462.52	4,462.52	20.55	89.36	-174.30	-388.41	-3,926.75	4,669.48	4,563.14	106.34	43.911		
4,700.00	4,637.04	4,561.04	4,561.04	21.01	91.34	-174.32	-388.41	-3,926.75	4,686.50	4,577.81	108.69	43.116		
4,800.00	4,735.57	4,659.57	4,659.57	21.48	93.33	-174.34	-388.41	-3,926.75	4,703.52	4,592.47	111.05	42.355		
4,900.00	4,834.10	4,758.10	4,758.10	21.94	95.31	-174.36	-388.41	-3,926.75	4,720.55	4,607.14	113.41	41.625		
5,000.00	4,932.62	4,856.62	4,856.62	22.40	97.29	-174.38	-388.41	-3,926.75	4,737.57	4,621.81	115.76	40.925		
5,100.00	5,031.15	4,955.15	4,955.15	22.86	99.27	-174.40	-388.41	-3,926.75	4,754.60	4,636.48	118.12	40.254		
5,200.00	5,129.68	5,053.68	5,053.68	23.32	101.25	-174.42	-388.41	-3,926.75	4,771.62	4,651.15	120.47	39.608		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	5,228.20	5,152.20	5,152.20	23.79	103.23	-174.44	-388.41	-3,926.75	4,788.65	4,665.82	122.83	38.987		
5,400.00	5,326.73	5,250.73	5,250.73	24.25	105.21	-174.46	-388.41	-3,926.75	4,805.68	4,680.49	125.18	38.389		
5,500.00	5,425.25	5,349.25	5,349.25	24.71	107.20	-174.48	-388.41	-3,926.75	4,822.70	4,695.17	127.54	37.814		
5,600.00	5,523.78	5,447.78	5,447.78	25.17	109.18	-174.50	-388.41	-3,926.75	4,839.73	4,709.84	129.89	37.259		
5,700.00	5,621.78	5,545.78	5,545.78	25.64	111.15	-138.11	-388.41	-3,926.75	4,857.44	4,725.20	132.24	36.731		
5,800.00	5,716.63	5,640.63	5,640.63	26.12	113.05	-119.45	-388.41	-3,926.75	4,876.80	4,742.27	134.53	36.249		
5,900.00	5,805.45	5,729.45	5,729.45	26.60	114.84	-110.46	-388.41	-3,926.75	4,897.49	4,760.78	136.71	35.824		
6,000.00	5,885.54	5,809.54	5,809.54	27.08	116.45	-104.95	-388.41	-3,926.75	4,919.27	4,780.55	138.72	35.461		
6,100.00	5,954.47	5,878.47	5,878.47	27.57	117.84	-100.97	-388.41	-3,926.75	4,941.95	4,801.42	140.53	35.167		
6,200.00	6,010.13	5,934.13	5,934.13	28.08	118.96	-97.75	-388.41	-3,926.75	4,965.33	4,823.24	142.09	34.945		
6,300.00	6,050.85	5,974.85	5,974.85	28.62	119.78	-94.91	-388.41	-3,926.75	4,989.16	4,845.78	143.38	34.797		
6,400.00	6,075.38	5,999.38	5,999.38	29.22	120.27	-92.30	-388.41	-3,926.75	5,013.09	4,868.72	144.37	34.725 SF		
6,500.00	6,083.00	6,007.00	6,007.00	29.87	120.42	-90.00	-388.41	-3,926.75	5,036.65	4,891.61	145.04	34.727		
6,600.00	6,083.00	6,007.00	6,007.00	30.60	120.42	-90.00	-388.41	-3,926.75	5,060.91	4,915.31	145.60	34.759		
6,700.00	6,083.00	6,007.00	6,007.00	31.42	120.42	-90.00	-388.41	-3,926.75	5,087.03	4,940.81	146.22	34.790		
6,800.00	6,083.00	6,007.00	6,007.00	32.32	120.42	-90.00	-388.41	-3,926.75	5,114.97	4,968.08	146.89	34.822		
6,900.00	6,083.00	6,007.00	6,007.00	33.30	120.42	-90.00	-388.41	-3,926.75	5,144.70	4,997.09	147.60	34.855		
7,000.00	6,083.00	6,007.00	6,007.00	34.35	120.42	-90.00	-388.41	-3,926.75	5,176.19	5,027.83	148.35	34.891		
7,100.00	6,083.00	6,007.00	6,007.00	35.45	120.42	-90.00	-388.41	-3,926.75	5,209.41	5,060.28	149.13	34.932		
7,200.00	6,083.00	6,007.00	6,007.00	36.62	120.42	-90.00	-388.41	-3,926.75	5,244.32	5,094.39	149.93	34.978		
7,300.00	6,083.00	6,007.00	6,007.00	37.83	120.42	-90.00	-388.41	-3,926.75	5,280.90	5,130.15	150.75	35.030		
7,400.00	6,083.00	6,007.00	6,007.00	39.09	120.42	-90.00	-388.41	-3,926.75	5,319.11	5,167.53	151.59	35.089		
7,500.00	6,083.00	6,007.00	6,007.00	40.39	120.42	-90.00	-388.41	-3,926.75	5,358.92	5,206.48	152.43	35.156		
7,600.00	6,083.00	6,007.00	6,007.00	41.73	120.42	-90.00	-388.41	-3,926.75	5,400.28	5,246.99	153.28	35.230		
7,700.00	6,083.00	6,007.00	6,007.00	43.10	120.42	-90.00	-388.41	-3,926.75	5,443.16	5,289.02	154.14	35.314		
7,800.00	6,083.00	6,007.00	6,007.00	44.50	120.42	-90.00	-388.41	-3,926.75	5,487.53	5,332.54	154.99	35.405		
7,900.00	6,083.00	6,007.00	6,007.00	45.93	120.42	-90.00	-388.41	-3,926.75	5,533.36	5,377.51	155.84	35.506		
8,000.00	6,083.00	6,007.00	6,007.00	47.38	120.42	-90.00	-388.41	-3,926.75	5,580.60	5,423.91	156.69	35.616		
8,100.00	6,083.00	6,007.00	6,007.00	48.85	120.42	-90.00	-388.41	-3,926.75	5,629.22	5,471.69	157.53	35.734		
8,200.00	6,083.00	6,007.00	6,007.00	50.34	120.42	-90.00	-388.41	-3,926.75	5,679.18	5,520.82	158.36	35.862		
8,300.00	6,083.00	6,007.00	6,007.00	51.85	120.42	-90.00	-388.41	-3,926.75	5,730.45	5,571.27	159.18	35.999		
8,400.00	6,083.00	6,007.00	6,007.00	53.38	120.42	-90.00	-388.41	-3,926.75	5,783.00	5,623.01	159.99	36.145		
8,500.00	6,083.00	6,007.00	6,007.00	54.92	120.42	-90.00	-388.41	-3,926.75	5,836.79	5,676.00	160.79	36.300		
8,600.00	6,083.00	6,007.00	6,007.00	56.48	120.42	-90.00	-388.41	-3,926.75	5,891.79	5,730.21	161.58	36.464		
8,700.00	6,083.00	6,007.00	6,007.00	58.04	120.42	-90.00	-388.41	-3,926.75	5,947.96	5,785.60	162.35	36.636		
8,800.00	6,083.00	6,007.00	6,007.00	59.63	120.42	-90.00	-388.41	-3,926.75	6,005.26	5,842.15	163.11	36.817		
8,900.00	6,083.00	6,007.00	6,007.00	61.22	120.42	-90.00	-388.41	-3,926.75	6,063.68	5,899.83	163.85	37.007		
9,000.00	6,083.00	6,007.00	6,007.00	62.82	120.42	-90.00	-388.41	-3,926.75	6,123.17	5,958.59	164.58	37.204		
9,100.00	6,083.00	6,007.00	6,007.00	64.43	120.42	-90.00	-388.41	-3,926.75	6,183.71	6,018.41	165.30	37.409		
9,200.00	6,083.00	6,007.00	6,007.00	66.05	120.42	-90.00	-388.41	-3,926.75	6,245.26	6,079.26	166.00	37.623		
9,300.00	6,083.00	6,007.00	6,007.00	67.67	120.42	-90.00	-388.41	-3,926.75	6,307.79	6,141.11	166.68	37.843		
9,400.00	6,083.00	6,007.00	6,007.00	69.31	120.42	-90.00	-388.41	-3,926.75	6,371.29	6,203.93	167.35	38.071		
9,500.00	6,083.00	6,007.00	6,007.00	70.95	120.42	-90.00	-388.41	-3,926.75	6,435.71	6,267.70	168.01	38.306		
9,600.00	6,083.00	6,007.00	6,007.00	72.60	120.42	-90.00	-388.41	-3,926.75	6,501.02	6,332.38	168.65	38.549		
9,700.00	6,083.00	6,007.00	6,007.00	74.25	120.42	-90.00	-388.41	-3,926.75	6,567.22	6,397.95	169.27	38.797		
9,800.00	6,083.00	6,007.00	6,007.00	75.91	120.42	-90.00	-388.41	-3,926.75	6,634.26	6,464.38	169.88	39.053		
9,900.00	6,083.00	6,007.00	6,007.00	77.57	120.42	-90.00	-388.41	-3,926.75	6,702.12	6,531.64	170.47	39.315		
10,000.00	6,083.00	6,007.00	6,007.00	79.24	120.42	-90.00	-388.41	-3,926.75	6,770.77	6,599.72	171.05	39.583		
10,100.00	6,083.00	6,007.00	6,007.00	80.91	120.42	-90.00	-388.41	-3,926.75	6,840.20	6,668.58	171.62	39.857		
10,200.00	6,083.00	6,007.00	6,007.00	82.59	120.42	-90.00	-388.41	-3,926.75	6,910.38	6,738.21	172.17	40.136		
10,300.00	6,083.00	6,007.00	6,007.00	84.27	120.42	-90.00	-388.41	-3,926.75	6,981.29	6,808.58	172.71	40.422		
10,400.00	6,083.00	6,007.00	6,007.00	85.95	120.42	-90.00	-388.41	-3,926.75	7,052.90	6,879.67	173.24	40.712		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	87.64	120.42	-90.00	-388.41	-3,926.75	7,125.20	6,951.45	173.75	41.008	
10,600.00	6,083.00	6,007.00	6,007.00	89.34	120.42	-90.00	-388.41	-3,926.75	7,198.16	7,023.91	174.25	41.309	
10,700.00	6,083.00	6,007.00	6,007.00	91.03	120.42	-90.00	-388.41	-3,926.75	7,271.76	7,097.02	174.74	41.615	
10,800.00	6,083.00	6,007.00	6,007.00	92.73	120.42	-90.00	-388.41	-3,926.75	7,345.99	7,170.77	175.21	41.926	
10,900.00	6,083.00	6,007.00	6,007.00	94.43	120.42	-90.00	-388.41	-3,926.75	7,420.82	7,245.14	175.68	42.241	
11,000.00	6,083.00	6,007.00	6,007.00	96.13	120.42	-90.00	-388.41	-3,926.75	7,496.24	7,320.11	176.13	42.561	
11,100.00	6,083.00	6,007.00	6,007.00	97.84	120.42	-90.00	-388.41	-3,926.75	7,572.22	7,395.65	176.57	42.885	
11,200.00	6,083.00	6,007.00	6,007.00	99.55	120.42	-90.00	-388.41	-3,926.75	7,648.76	7,471.76	177.00	43.214	
11,300.00	6,083.00	6,007.00	6,007.00	101.26	120.42	-90.00	-388.41	-3,926.75	7,725.84	7,548.42	177.42	43.546	
11,400.00	6,083.00	6,007.00	6,007.00	102.97	120.42	-90.00	-388.41	-3,926.75	7,803.44	7,625.61	177.83	43.882	
11,500.00	6,083.00	6,007.00	6,007.00	104.68	120.42	-90.00	-388.41	-3,926.75	7,881.54	7,703.31	178.23	44.222	
11,600.00	6,083.00	6,007.00	6,007.00	106.40	120.42	-90.00	-388.41	-3,926.75	7,960.13	7,781.51	178.61	44.566	
11,700.00	6,083.00	6,007.00	6,007.00	108.12	120.42	-90.00	-388.41	-3,926.75	8,039.19	7,860.20	178.99	44.913	
11,800.00	6,083.00	6,007.00	6,007.00	109.84	120.42	-90.00	-388.41	-3,926.75	8,118.72	7,939.36	179.36	45.264	
11,900.00	6,083.00	6,007.00	6,007.00	111.56	120.42	-90.00	-388.41	-3,926.75	8,198.70	8,018.97	179.73	45.618	
12,000.00	6,083.00	6,007.00	6,007.00	113.29	120.42	-90.00	-388.41	-3,926.75	8,279.11	8,099.03	180.08	45.975	
12,100.00	6,083.00	6,007.00	6,007.00	115.01	120.42	-90.00	-388.41	-3,926.75	8,359.95	8,179.52	180.42	46.335	
12,200.00	6,083.00	6,007.00	6,007.00	116.74	120.42	-90.00	-388.41	-3,926.75	8,441.19	8,260.43	180.76	46.699	
12,300.00	6,083.00	6,007.00	6,007.00	118.47	120.42	-90.00	-388.41	-3,926.75	8,522.84	8,341.75	181.09	47.065	
12,400.00	6,083.00	6,007.00	6,007.00	120.19	120.42	-90.00	-388.41	-3,926.75	8,604.87	8,423.46	181.41	47.434	
12,500.00	6,083.00	6,007.00	6,007.00	121.93	120.42	-90.00	-388.41	-3,926.75	8,687.28	8,505.56	181.72	47.805	
12,600.00	6,083.00	6,007.00	6,007.00	123.66	120.42	-90.00	-388.41	-3,926.75	8,770.05	8,588.02	182.03	48.180	
12,700.00	6,083.00	6,007.00	6,007.00	125.39	120.42	-90.00	-388.41	-3,926.75	8,853.18	8,670.85	182.33	48.557	
12,800.00	6,083.00	6,007.00	6,007.00	127.12	120.42	-90.00	-388.41	-3,926.75	8,936.66	8,754.04	182.62	48.936	
12,900.00	6,083.00	6,007.00	6,007.00	128.86	120.42	-90.00	-388.41	-3,926.75	9,020.47	8,837.56	182.90	49.318	
13,000.00	6,083.00	6,007.00	6,007.00	130.60	120.42	-90.00	-388.41	-3,926.75	9,104.61	8,921.42	183.18	49.702	
13,100.00	6,083.00	6,007.00	6,007.00	132.33	120.42	-90.00	-388.41	-3,926.75	9,189.06	9,005.61	183.46	50.089	
13,200.00	6,083.00	6,007.00	6,007.00	134.07	120.42	-90.00	-388.41	-3,926.75	9,273.83	9,090.10	183.72	50.477	
13,300.00	6,083.00	6,007.00	6,007.00	135.81	120.42	-90.00	-388.41	-3,926.75	9,358.89	9,174.91	183.98	50.868	
13,400.00	6,083.00	6,007.00	6,007.00	137.55	120.42	-90.00	-388.41	-3,926.75	9,444.25	9,260.01	184.24	51.260	
13,500.00	6,083.00	6,007.00	6,007.00	139.29	120.42	-90.00	-388.41	-3,926.75	9,529.90	9,345.41	184.49	51.655	
13,600.00	6,083.00	6,007.00	6,007.00	141.03	120.42	-90.00	-388.41	-3,926.75	9,615.82	9,431.08	184.74	52.052	
13,700.00	6,083.00	6,007.00	6,007.00	142.78	120.42	-90.00	-388.41	-3,926.75	9,702.01	9,517.03	184.98	52.450	
13,800.00	6,083.00	6,007.00	6,007.00	144.52	120.42	-90.00	-388.41	-3,926.75	9,788.46	9,603.25	185.21	52.850	
13,900.00	6,083.00	6,007.00	6,007.00	146.26	120.42	-90.00	-388.41	-3,926.75	9,875.17	9,689.73	185.44	53.252	
14,000.00	6,083.00	6,007.00	6,007.00	148.01	120.42	-90.00	-388.41	-3,926.75	9,962.13	9,776.46	185.67	53.656	
14,100.00	6,083.00	6,007.00	6,007.00	149.75	120.42	-90.00	-388.41	-3,926.75	10,049.33	9,863.44	185.89	54.061	
14,200.00	6,083.00	6,007.00	6,007.00	151.50	120.42	-90.00	-388.41	-3,926.75	10,136.77	9,950.66	186.10	54.468	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	72.00	902.25	2,777.08	6,839.99					
100.00	100.00	10,624.00	6,231.41	0.27	121.87	72.00	902.25	2,777.08	6,749.70	6,710.98	38.72	174.325		
200.00	199.98	10,624.00	6,231.41	0.62	121.87	-6.14	902.25	2,777.08	6,658.94	6,620.18	38.76	171.782		
300.00	299.84	10,624.00	6,231.41	0.99	121.87	-6.66	902.25	2,777.08	6,567.02	6,528.17	38.84	169.074		
400.00	399.45	10,624.00	6,231.41	1.36	121.87	-7.27	902.25	2,777.08	6,473.99	6,435.06	38.93	166.296		
500.00	498.70	10,624.00	6,231.41	1.76	121.87	-8.01	902.25	2,777.08	6,379.94	6,340.91	39.03	163.460		
600.00	597.47	10,624.00	6,231.41	2.18	121.87	-8.83	902.25	2,777.08	6,284.93	6,245.78	39.15	160.541		
700.00	695.99	10,624.00	6,231.41	2.62	121.87	-8.83	902.25	2,777.08	6,189.62	6,150.37	39.24	157.724		
800.00	794.52	10,624.00	6,231.41	3.06	121.87	-8.83	902.25	2,777.08	6,094.45	6,055.10	39.35	154.878		
900.00	893.05	10,624.00	6,231.41	3.51	121.87	-8.83	902.25	2,777.08	5,999.44	5,959.97	39.47	152.008		
1,000.00	991.57	10,624.00	6,231.41	3.97	121.87	-8.83	902.25	2,777.08	5,904.60	5,865.00	39.60	149.117		
1,100.00	1,090.10	10,624.00	6,231.41	4.42	121.87	-8.83	902.25	2,777.08	5,809.93	5,770.19	39.74	146.208		
1,200.00	1,188.62	10,624.00	6,231.41	4.88	121.87	-8.83	902.25	2,777.08	5,715.44	5,675.55	39.89	143.285		
1,300.00	1,287.15	10,624.00	6,231.41	5.34	121.87	-8.83	902.25	2,777.08	5,621.14	5,581.09	40.05	140.351		
1,400.00	1,385.68	10,624.00	6,231.41	5.79	121.87	-8.83	902.25	2,777.08	5,527.04	5,486.81	40.22	137.409		
1,500.00	1,484.20	10,624.00	6,231.41	6.25	121.87	-8.83	902.25	2,777.08	5,433.15	5,392.74	40.41	134.461		
1,600.00	1,582.73	10,624.00	6,231.41	6.71	121.87	-8.83	902.25	2,777.08	5,339.48	5,298.88	40.60	131.511		
1,700.00	1,681.26	10,624.00	6,231.41	7.17	121.87	-8.83	902.25	2,777.08	5,246.05	5,205.25	40.81	128.561		
1,800.00	1,779.78	10,624.00	6,231.41	7.63	121.87	-8.83	902.25	2,777.08	5,152.87	5,111.84	41.02	125.613		
1,900.00	1,878.31	10,624.00	6,231.41	8.09	121.87	-8.83	902.25	2,777.08	5,059.94	5,018.69	41.25	122.668		
2,000.00	1,976.83	10,624.00	6,231.41	8.55	121.87	-8.83	902.25	2,777.08	4,967.29	4,925.80	41.49	119.730		
2,100.00	2,075.36	10,624.00	6,231.41	9.01	121.87	-8.83	902.25	2,777.08	4,874.93	4,833.19	41.74	116.799		
2,200.00	2,173.89	10,624.00	6,231.41	9.47	121.87	-8.83	902.25	2,777.08	4,782.88	4,740.88	42.00	113.878		
2,300.00	2,272.41	10,624.00	6,231.41	9.93	121.87	-8.83	902.25	2,777.08	4,691.15	4,648.88	42.27	110.968		
2,400.00	2,370.94	10,624.00	6,231.41	10.40	121.87	-8.83	902.25	2,777.08	4,599.77	4,557.21	42.56	108.071		
2,500.00	2,469.47	10,624.00	6,231.41	10.86	121.87	-8.83	902.25	2,777.08	4,508.75	4,465.89	42.86	105.188		
2,600.00	2,567.99	10,624.00	6,231.41	11.32	121.87	-8.83	902.25	2,777.08	4,418.12	4,374.94	43.18	102.320		
2,700.00	2,666.52	10,624.00	6,231.41	11.78	121.87	-8.83	902.25	2,777.08	4,327.91	4,284.40	43.51	99.470		
2,800.00	2,765.05	10,624.00	6,231.41	12.24	121.87	-8.83	902.25	2,777.08	4,238.13	4,194.28	43.86	96.638		
2,900.00	2,863.57	10,624.00	6,231.41	12.70	121.87	-8.83	902.25	2,777.08	4,148.82	4,104.60	44.22	93.827		
3,000.00	2,962.10	10,624.00	6,231.41	13.16	121.87	-8.83	902.25	2,777.08	4,060.01	4,015.41	44.60	91.037		
3,100.00	3,060.62	10,624.00	6,231.41	13.63	121.87	-8.83	902.25	2,777.08	3,971.73	3,926.74	45.00	88.270		
3,200.00	3,159.15	10,624.00	6,231.41	14.09	121.87	-8.83	902.25	2,777.08	3,884.02	3,838.61	45.41	85.528		
3,300.00	3,257.68	10,624.00	6,231.41	14.55	121.87	-8.83	902.25	2,777.08	3,796.92	3,751.07	45.85	82.813		
3,400.00	3,356.20	10,624.00	6,231.41	15.01	121.87	-8.83	902.25	2,777.08	3,710.47	3,664.16	46.31	80.126		
3,500.00	3,454.73	10,624.00	6,231.41	15.47	121.87	-8.83	902.25	2,777.08	3,624.71	3,577.93	46.79	77.468		
3,600.00	3,553.26	10,624.00	6,231.41	15.93	121.87	-8.83	902.25	2,777.08	3,539.71	3,492.41	47.30	74.843		
3,700.00	3,651.78	10,624.00	6,231.41	16.40	121.87	-8.83	902.25	2,777.08	3,455.50	3,407.68	47.83	72.252		
3,800.00	3,750.31	10,624.00	6,231.41	16.86	121.87	-8.83	902.25	2,777.08	3,372.16	3,323.78	48.38	69.696		
3,900.00	3,848.83	10,624.00	6,231.41	17.32	121.87	-8.83	902.25	2,777.08	3,289.75	3,240.78	48.97	67.179		
4,000.00	3,947.36	10,624.00	6,231.41	17.78	121.87	-8.83	902.25	2,777.08	3,208.34	3,158.75	49.59	64.703		
4,100.00	4,045.89	10,624.00	6,231.41	18.24	121.87	-8.83	902.25	2,777.08	3,128.00	3,077.77	50.23	62.270		
4,200.00	4,144.41	10,624.00	6,231.41	18.70	121.87	-8.83	902.25	2,777.08	3,048.83	2,997.92	50.91	59.883		
4,300.00	4,242.94	10,624.00	6,231.41	19.17	121.87	-8.83	902.25	2,777.08	2,970.91	2,919.29	51.63	57.544		
4,400.00	4,341.47	10,624.00	6,231.41	19.63	121.87	-8.83	902.25	2,777.08	2,894.36	2,841.98	52.38	55.258		
4,500.00	4,439.99	10,624.00	6,231.41	20.09	121.87	-8.83	902.25	2,777.08	2,819.27	2,766.10	53.17	53.027		
4,600.00	4,538.52	10,624.00	6,231.41	20.55	121.87	-8.83	902.25	2,777.08	2,745.77	2,691.78	53.99	50.855		
4,700.00	4,637.04	10,624.00	6,231.41	21.01	121.87	-8.83	902.25	2,777.08	2,673.99	2,619.13	54.86	48.745		
4,800.00	4,735.57	10,624.00	6,231.41	21.48	121.87	-8.83	902.25	2,777.08	2,604.07	2,548.31	55.76	46.701		
4,900.00	4,834.10	10,624.00	6,231.41	21.94	121.87	-8.83	902.25	2,777.08	2,536.17	2,479.47	56.70	44.726		
5,000.00	4,932.62	10,624.00	6,231.41	22.40	121.87	-8.83	902.25	2,777.08	2,470.45	2,412.77	57.69	42.826		
5,100.00	5,031.15	10,624.00	6,231.41	22.86	121.87	-8.83	902.25	2,777.08	2,407.10	2,348.39	58.70	41.004		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	5,129.68	10,624.00	6,231.41	23.32	121.87	-8.83	902.25	2,777.08	2,346.29	2,286.53	59.76	39.264		
5,300.00	5,228.20	10,624.00	6,231.41	23.79	121.87	-8.83	902.25	2,777.08	2,288.24	2,227.40	60.84	37.611		
5,400.00	5,326.73	10,624.00	6,231.41	24.25	121.87	-8.83	902.25	2,777.08	2,233.16	2,171.22	61.95	36.048		
5,500.00	5,425.25	10,624.00	6,231.41	24.71	121.87	-8.83	902.25	2,777.08	2,181.28	2,118.21	63.08	34.581		
5,600.00	5,523.78	10,624.00	6,231.41	25.17	121.87	-8.83	902.25	2,777.08	2,132.83	2,068.61	64.22	33.213		
5,700.00	5,621.78	10,624.00	6,231.41	25.64	121.87	30.35	902.25	2,777.08	2,086.16	2,021.09	65.06	32.063		
5,800.00	5,716.63	10,624.00	6,231.41	26.12	121.87	52.53	902.25	2,777.08	2,038.80	1,973.76	65.04	31.345		
5,900.00	5,805.45	10,624.00	6,231.41	26.60	121.87	65.06	902.25	2,777.08	1,992.14	1,928.02	64.12	31.068		
6,000.00	5,885.54	10,624.00	6,231.41	27.08	121.87	73.83	902.25	2,777.08	1,947.69	1,885.35	62.34	31.242		
6,100.00	5,954.47	10,624.00	6,231.41	27.57	121.87	80.51	902.25	2,777.08	1,907.00	1,847.16	59.83	31.871		
6,200.00	6,010.13	10,624.00	6,231.41	28.08	121.87	85.65	902.25	2,777.08	1,871.58	1,814.75	56.83	32.932		
6,300.00	6,050.85	10,624.00	6,231.41	28.62	121.87	89.45	902.25	2,777.08	1,842.85	1,789.16	53.69	34.323		
6,400.00	6,075.38	10,624.00	6,231.41	29.22	121.87	91.98	902.25	2,777.08	1,822.01	1,771.09	50.92	35.781		
6,500.00	6,083.00	10,624.00	6,231.41	29.87	121.87	93.25	902.25	2,777.08	1,809.97	1,760.81	49.17	36.813		
6,600.00	6,083.00	10,624.00	6,231.41	30.60	121.87	93.25	902.25	2,777.08	1,805.09	1,755.96	49.13	36.741		
6,638.23	6,083.00	10,624.00	6,231.41	30.91	121.87	93.25	902.25	2,777.08	1,804.69	1,755.02	49.67	36.334	CC	
6,700.00	6,083.00	10,624.00	6,231.41	31.42	121.87	93.25	902.25	2,777.08	1,805.75	1,754.59	51.15	35.301	ES	
6,800.00	6,083.00	10,624.00	6,231.41	32.32	121.87	93.25	902.25	2,777.08	1,811.92	1,756.89	55.04	32.921		
6,900.00	6,083.00	10,624.00	6,231.41	33.30	121.87	93.25	902.25	2,777.08	1,823.58	1,763.32	60.25	30.265		
7,000.00	6,083.00	10,624.00	6,231.41	34.35	121.87	93.25	902.25	2,777.08	1,840.59	1,774.34	66.25	27.781		
7,100.00	6,083.00	10,624.00	6,231.41	35.45	121.87	93.25	902.25	2,777.08	1,862.83	1,790.20	72.63	25.648		
7,200.00	6,083.00	10,624.00	6,231.41	36.62	121.87	93.25	902.25	2,777.08	1,890.10	1,810.99	79.11	23.892		
7,300.00	6,083.00	10,624.00	6,231.41	37.83	121.87	93.25	902.25	2,777.08	1,922.20	1,836.69	85.51	22.479		
7,400.00	6,083.00	10,624.00	6,231.41	39.09	121.87	93.25	902.25	2,777.08	1,958.88	1,867.16	91.72	21.358		
7,500.00	6,083.00	10,624.00	6,231.41	40.39	121.87	93.25	902.25	2,777.08	1,999.89	1,902.24	97.65	20.481		
7,600.00	6,083.00	10,624.00	6,231.41	41.73	121.87	93.25	902.25	2,777.08	2,044.97	1,941.71	103.26	19.804		
7,700.00	6,083.00	10,624.00	6,231.41	43.10	121.87	93.25	902.25	2,777.08	2,093.86	1,985.33	108.53	19.293		
7,800.00	6,083.00	10,624.00	6,231.41	44.50	121.87	93.25	902.25	2,777.08	2,146.30	2,032.85	113.45	18.919		
7,900.00	6,083.00	10,624.00	6,231.41	45.93	121.87	93.25	902.25	2,777.08	2,202.04	2,084.02	118.02	18.658		
8,000.00	6,083.00	10,624.00	6,231.41	47.38	121.87	93.25	902.25	2,777.08	2,260.83	2,138.58	122.25	18.494		
8,100.00	6,083.00	10,624.00	6,231.41	48.85	121.87	93.25	902.25	2,777.08	2,322.43	2,196.29	126.15	18.411		
8,200.00	6,083.00	10,624.00	6,231.41	50.34	121.87	93.25	902.25	2,777.08	2,386.64	2,256.90	129.74	18.396	SF	
8,300.00	6,083.00	10,624.00	6,231.41	51.85	121.87	93.25	902.25	2,777.08	2,453.24	2,320.21	133.04	18.440		
8,400.00	6,083.00	10,624.00	6,231.41	53.38	121.87	93.25	902.25	2,777.08	2,522.05	2,385.99	136.07	18.535		
8,500.00	6,083.00	10,624.00	6,231.41	54.92	121.87	93.25	902.25	2,777.08	2,592.90	2,454.05	138.85	18.674		
8,600.00	6,083.00	10,624.00	6,231.41	56.48	121.87	93.25	902.25	2,777.08	2,665.61	2,524.21	141.40	18.852		
8,700.00	6,083.00	10,624.00	6,231.41	58.04	121.87	93.25	902.25	2,777.08	2,740.04	2,596.30	143.74	19.063		
8,800.00	6,083.00	10,624.00	6,231.41	59.63	121.87	93.25	902.25	2,777.08	2,816.06	2,670.17	145.89	19.303		
8,900.00	6,083.00	10,624.00	6,231.41	61.22	121.87	93.25	902.25	2,777.08	2,893.53	2,745.68	147.86	19.570		
9,000.00	6,083.00	10,624.00	6,231.41	62.82	121.87	93.25	902.25	2,777.08	2,972.35	2,822.69	149.67	19.860		
9,100.00	6,083.00	10,624.00	6,231.41	64.43	121.87	93.25	902.25	2,777.08	3,052.41	2,901.08	151.33	20.170		
9,200.00	6,083.00	10,624.00	6,231.41	66.05	121.87	93.25	902.25	2,777.08	3,133.62	2,980.76	152.86	20.500		
9,300.00	6,083.00	10,624.00	6,231.41	67.67	121.87	93.25	902.25	2,777.08	3,215.89	3,061.62	154.27	20.845		
9,400.00	6,083.00	10,624.00	6,231.41	69.31	121.87	93.25	902.25	2,777.08	3,299.14	3,143.56	155.57	21.206		
9,500.00	6,083.00	10,624.00	6,231.41	70.95	121.87	93.25	902.25	2,777.08	3,383.29	3,226.52	156.77	21.581		
9,600.00	6,083.00	10,624.00	6,231.41	72.60	121.87	93.25	902.25	2,777.08	3,468.29	3,310.40	157.88	21.968		
9,700.00	6,083.00	10,624.00	6,231.41	74.25	121.87	93.25	902.25	2,777.08	3,554.06	3,395.16	158.91	22.366		
9,800.00	6,083.00	10,624.00	6,231.41	75.91	121.87	93.25	902.25	2,777.08	3,640.57	3,480.71	159.86	22.774		
9,900.00	6,083.00	10,624.00	6,231.41	77.57	121.87	93.25	902.25	2,777.08	3,727.74	3,567.01	160.74	23.191		
10,000.00	6,083.00	10,624.00	6,231.41	79.24	121.87	93.25	902.25	2,777.08	3,815.55	3,654.00	161.56	23.618		
10,100.00	6,083.00	10,624.00	6,231.41	80.91	121.87	93.25	902.25	2,777.08	3,903.94	3,741.63	162.32	24.052		
10,200.00	6,083.00	10,624.00	6,231.41	82.59	121.87	93.25	902.25	2,777.08	3,992.89	3,829.86	163.02	24.493		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	84.27	121.87	93.25	902.25	2,777.08	4,082.34	3,918.66	163.68	24.941		
10,400.00	6,083.00	10,624.00	6,231.41	85.95	121.87	93.25	902.25	2,777.08	4,172.27	4,007.97	164.30	25.395		
10,500.00	6,083.00	10,624.00	6,231.41	87.64	121.87	93.25	902.25	2,777.08	4,262.65	4,097.78	164.87	25.854		
10,600.00	6,083.00	10,624.00	6,231.41	89.34	121.87	93.25	902.25	2,777.08	4,353.45	4,188.04	165.41	26.319		
10,700.00	6,083.00	10,624.00	6,231.41	91.03	121.87	93.25	902.25	2,777.08	4,444.65	4,278.74	165.91	26.789		
10,800.00	6,083.00	10,624.00	6,231.41	92.73	121.87	93.25	902.25	2,777.08	4,536.22	4,369.83	166.39	27.263		
10,900.00	6,083.00	10,624.00	6,231.41	94.43	121.87	93.25	902.25	2,777.08	4,628.13	4,461.30	166.83	27.742		
11,000.00	6,083.00	10,624.00	6,231.41	96.13	121.87	93.25	902.25	2,777.08	4,720.38	4,553.13	167.25	28.224		
11,100.00	6,083.00	10,624.00	6,231.41	97.84	121.87	93.25	902.25	2,777.08	4,812.93	4,645.30	167.64	28.710		
11,200.00	6,083.00	10,624.00	6,231.41	99.55	121.87	93.25	902.25	2,777.08	4,905.78	4,737.77	168.01	29.200		
11,300.00	6,083.00	10,624.00	6,231.41	101.26	121.87	93.25	902.25	2,777.08	4,998.90	4,830.55	168.36	29.692		
11,400.00	6,083.00	10,624.00	6,231.41	102.97	121.87	93.25	902.25	2,777.08	5,092.29	4,923.60	168.69	30.188		
11,500.00	6,083.00	10,624.00	6,231.41	104.68	121.87	93.25	902.25	2,777.08	5,185.92	5,016.92	169.00	30.687		
11,600.00	6,083.00	10,624.00	6,231.41	106.40	121.87	93.25	902.25	2,777.08	5,279.78	5,110.49	169.29	31.188		
11,700.00	6,083.00	10,624.00	6,231.41	108.12	121.87	93.25	902.25	2,777.08	5,373.87	5,204.30	169.57	31.691		
11,800.00	6,083.00	10,624.00	6,231.41	109.84	121.87	93.25	902.25	2,777.08	5,468.16	5,298.33	169.83	32.197		
11,900.00	6,083.00	10,624.00	6,231.41	111.56	121.87	93.25	902.25	2,777.08	5,562.66	5,392.57	170.09	32.705		
12,000.00	6,083.00	10,624.00	6,231.41	113.29	121.87	93.25	902.25	2,777.08	5,657.34	5,487.02	170.32	33.215		
12,100.00	6,083.00	10,624.00	6,231.41	115.01	121.87	93.25	902.25	2,777.08	5,752.21	5,581.65	170.55	33.727		
12,200.00	6,083.00	10,624.00	6,231.41	116.74	121.87	93.25	902.25	2,777.08	5,847.24	5,676.47	170.77	34.241		
12,300.00	6,083.00	10,624.00	6,231.41	118.47	121.87	93.25	902.25	2,777.08	5,942.44	5,771.46	170.98	34.756		
12,400.00	6,083.00	10,624.00	6,231.41	120.19	121.87	93.25	902.25	2,777.08	6,037.79	5,866.62	171.17	35.273		
12,500.00	6,083.00	10,624.00	6,231.41	121.93	121.87	93.25	902.25	2,777.08	6,133.29	5,961.93	171.36	35.792		
12,600.00	6,083.00	10,624.00	6,231.41	123.66	121.87	93.25	902.25	2,777.08	6,228.94	6,057.39	171.54	36.311		
12,700.00	6,083.00	10,624.00	6,231.41	125.39	121.87	93.25	902.25	2,777.08	6,324.71	6,153.00	171.72	36.833		
12,800.00	6,083.00	10,624.00	6,231.41	127.12	121.87	93.25	902.25	2,777.08	6,420.62	6,248.74	171.88	37.355		
12,900.00	6,083.00	10,624.00	6,231.41	128.86	121.87	93.25	902.25	2,777.08	6,516.65	6,344.61	172.04	37.879		
13,000.00	6,083.00	10,624.00	6,231.41	130.60	121.87	93.25	902.25	2,777.08	6,612.80	6,440.60	172.19	38.403		
13,100.00	6,083.00	10,624.00	6,231.41	132.33	121.87	93.25	902.25	2,777.08	6,709.06	6,536.72	172.34	38.929		
13,200.00	6,083.00	10,624.00	6,231.41	134.07	121.87	93.25	902.25	2,777.08	6,805.42	6,632.94	172.48	39.456		
13,300.00	6,083.00	10,624.00	6,231.41	135.81	121.87	93.25	902.25	2,777.08	6,901.89	6,729.27	172.62	39.983		
13,400.00	6,083.00	10,624.00	6,231.41	137.55	121.87	93.25	902.25	2,777.08	6,998.46	6,825.71	172.75	40.512		
13,500.00	6,083.00	10,624.00	6,231.41	139.29	121.87	93.25	902.25	2,777.08	7,095.13	6,922.25	172.88	41.041		
13,600.00	6,083.00	10,624.00	6,231.41	141.03	121.87	93.25	902.25	2,777.08	7,191.88	7,018.88	173.00	41.571		
13,700.00	6,083.00	10,624.00	6,231.41	142.78	121.87	93.25	902.25	2,777.08	7,288.73	7,115.61	173.12	42.102		
13,800.00	6,083.00	10,624.00	6,231.41	144.52	121.87	93.25	902.25	2,777.08	7,385.66	7,212.42	173.24	42.633		
13,900.00	6,083.00	10,624.00	6,231.41	146.26	121.87	93.25	902.25	2,777.08	7,482.66	7,309.32	173.35	43.165		
14,000.00	6,083.00	10,624.00	6,231.41	148.01	121.87	93.25	902.25	2,777.08	7,579.75	7,406.29	173.46	43.698		
14,100.00	6,083.00	10,624.00	6,231.41	149.75	121.87	93.25	902.25	2,777.08	7,676.91	7,503.35	173.56	44.231		
14,200.00	6,083.00	10,624.00	6,231.41	151.50	121.87	93.25	902.25	2,777.08	7,774.15	7,600.48	173.67	44.765		
14,300.00	6,083.00	10,624.00	6,231.41	153.25	121.87	93.25	902.25	2,777.08	7,871.45	7,697.68	173.77	45.299		
14,400.00	6,083.00	10,624.00	6,231.41	154.99	121.87	93.25	902.25	2,777.08	7,968.82	7,794.95	173.86	45.834		
14,500.00	6,083.00	10,624.00	6,231.41	156.74	121.87	93.25	902.25	2,777.08	8,066.25	7,892.29	173.96	46.369		
14,600.00	6,083.00	10,624.00	6,231.41	158.49	121.87	93.25	902.25	2,777.08	8,163.75	7,989.69	174.05	46.904		
14,700.00	6,083.00	10,624.00	6,231.41	160.24	121.87	93.25	902.25	2,777.08	8,261.30	8,087.16	174.14	47.440		
14,800.00	6,083.00	10,624.00	6,231.41	161.99	121.87	93.25	902.25	2,777.08	8,358.92	8,184.68	174.23	47.976		
14,900.00	6,083.00	10,624.00	6,231.41	163.74	121.87	93.25	902.25	2,777.08	8,456.58	8,282.27	174.32	48.512		
15,000.00	6,083.00	10,624.00	6,231.41	165.49	121.87	93.25	902.25	2,777.08	8,554.31	8,379.90	174.40	49.049		
15,100.00	6,083.00	10,624.00	6,231.41	167.24	121.87	93.25	902.25	2,777.08	8,652.08	8,477.60	174.49	49.586		
15,200.00	6,083.00	10,624.00	6,231.41	168.99	121.87	93.25	902.25	2,777.08	8,749.91	8,575.34	174.57	50.123		
15,300.00	6,083.00	10,624.00	6,231.41	170.74	121.87	93.25	902.25	2,777.08	8,847.78	8,673.13	174.65	50.661		
15,400.00	6,083.00	10,624.00	6,231.41	172.50	121.87	93.25	902.25	2,777.08	8,945.70	8,770.98	174.73	51.198		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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												Offset Site Error:	0.00 usft
SEC 5-T5N-R61W - EXIST HZ ESTERLING 44-33H - OWB - FINAL SURVEY												Offset Well Error:	0.00 usft
Survey Program: 146-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
15,500.00	6,083.00	10,624.00	6,231.41	174.25	121.87	93.25	902.25	2,777.08	9,043.67	8,868.86	174.80	51.736	
15,600.00	6,083.00	10,624.00	6,231.41	176.00	121.87	93.25	902.25	2,777.08	9,141.68	8,966.80	174.88	52.274	
15,700.00	6,083.00	10,624.00	6,231.41	177.76	121.87	93.25	902.25	2,777.08	9,239.73	9,064.78	174.96	52.812	
15,800.00	6,083.00	10,624.00	6,231.41	179.51	121.87	93.25	902.25	2,777.08	9,337.83	9,162.80	175.03	53.350	
15,900.00	6,083.00	10,624.00	6,231.41	181.27	121.87	93.25	902.25	2,777.08	9,435.96	9,260.86	175.10	53.888	
16,000.00	6,083.00	10,624.00	6,231.41	183.02	121.87	93.25	902.25	2,777.08	9,534.13	9,358.96	175.17	54.426	
16,100.00	6,083.00	10,624.00	6,231.41	184.78	121.87	93.25	902.25	2,777.08	9,632.35	9,457.10	175.25	54.965	
16,101.43	6,083.00	10,624.00	6,231.41	184.81	121.87	93.25	902.25	2,777.08	9,633.75	9,456.43	177.32	54.330	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	-89.01	48.61	-2,799.28	2,799.70	2,799.38	0.32	8,713.156	CC	
104.45	104.45	34.78	34.78	0.28	0.06	-166.70	48.61	-2,799.28	2,799.70	2,799.36	0.35	8,110.548	ES	
200.00	199.98	134.10	134.10	0.62	0.23	-166.70	48.61	-2,799.16	2,801.29	2,800.43	0.86	3,266.760		
300.00	299.84	237.94	237.94	0.99	0.41	-166.70	48.63	-2,798.90	2,806.13	2,804.73	1.40	2,004.331		
400.00	399.45	341.56	341.56	1.36	0.59	-166.71	48.65	-2,798.49	2,814.22	2,812.27	1.95	1,446.034		
500.00	498.70	444.84	444.84	1.76	0.77	-166.71	48.68	-2,797.94	2,825.55	2,823.06	2.50	1,132.415		
600.00	597.47	549.18	549.17	2.18	1.03	-166.73	48.73	-2,797.22	2,840.10	2,836.97	3.13	908.635		
700.00	695.99	656.06	656.05	2.62	1.41	-166.81	49.06	-2,796.21	2,855.83	2,851.96	3.87	737.680		
800.00	794.52	744.80	744.79	3.06	1.73	-166.87	49.52	-2,795.36	2,871.57	2,867.01	4.55	630.452		
900.00	893.05	834.60	834.58	3.51	2.05	-166.93	50.02	-2,794.87	2,887.70	2,882.46	5.24	550.720		
1,000.00	991.57	944.39	944.37	3.97	2.44	-167.00	50.60	-2,794.18	2,903.76	2,897.75	6.01	483.479		
1,100.00	1,090.10	1,030.02	1,030.00	4.42	2.74	-167.06	50.98	-2,793.55	2,919.73	2,913.06	6.68	437.363		
1,200.00	1,188.62	1,105.68	1,105.66	4.88	3.00	-167.11	51.22	-2,793.56	2,936.44	2,929.13	7.31	401.897		
1,300.00	1,287.15	1,206.98	1,206.95	5.34	3.34	-167.18	51.49	-2,794.07	2,953.62	2,945.59	8.03	367.933		
1,400.00	1,385.68	1,312.92	1,312.89	5.79	3.71	-167.25	51.97	-2,794.16	2,970.40	2,961.63	8.77	338.816		
1,500.00	1,484.20	1,399.81	1,399.78	6.25	4.01	-167.31	52.34	-2,794.38	2,987.35	2,977.91	9.44	316.440		
1,600.00	1,582.73	1,505.69	1,505.66	6.71	4.38	-167.38	52.63	-2,794.87	3,004.51	2,994.33	10.18	295.038		
1,700.00	1,681.26	1,618.04	1,618.01	7.17	4.77	-167.46	52.66	-2,794.73	3,021.08	3,010.13	10.95	275.889		
1,800.00	1,779.78	1,707.39	1,707.36	7.63	5.08	-167.52	52.63	-2,794.63	3,037.69	3,026.06	11.63	261.152		
1,900.00	1,878.31	1,809.01	1,808.98	8.09	5.43	-167.60	52.56	-2,794.71	3,054.48	3,042.13	12.36	247.189		
2,000.00	1,976.83	1,917.91	1,917.88	8.55	5.80	-167.68	52.06	-2,794.45	3,070.96	3,057.85	13.11	234.267		
2,100.00	2,075.36	2,019.60	2,019.57	9.01	6.16	-167.76	51.42	-2,793.99	3,087.25	3,073.41	13.84	223.106		
2,200.00	2,173.89	2,109.56	2,109.51	9.47	6.47	-167.84	50.66	-2,793.61	3,103.57	3,089.05	14.52	213.714		
2,300.00	2,272.41	2,193.86	2,193.81	9.93	6.76	-167.92	49.42	-2,793.62	3,120.32	3,105.13	15.18	205.494		
2,400.00	2,370.94	2,299.52	2,299.46	10.40	7.13	-168.02	47.67	-2,793.79	3,137.23	3,121.30	15.93	196.962		
2,500.00	2,469.47	2,408.11	2,408.04	10.86	7.51	-168.11	46.49	-2,793.61	3,153.83	3,137.14	16.69	189.020		
2,600.00	2,567.99	2,516.26	2,516.18	11.32	7.89	-168.20	45.67	-2,793.11	3,170.13	3,152.69	17.44	181.743		
2,700.00	2,666.52	2,610.68	2,610.60	11.78	8.22	-168.27	45.02	-2,792.61	3,186.37	3,168.22	18.15	175.561		
2,800.00	2,765.05	2,703.94	2,703.85	12.24	8.55	-168.34	44.39	-2,792.22	3,202.73	3,183.88	18.85	169.906		
2,900.00	2,863.57	2,794.85	2,794.77	12.70	8.86	-168.40	44.34	-2,792.05	3,219.31	3,199.77	19.54	164.759		
3,000.00	2,962.10	2,907.14	2,907.05	13.16	9.26	-168.45	45.49	-2,791.84	3,235.88	3,215.57	20.31	159.314		
3,100.00	3,060.62	3,011.50	3,011.37	13.63	9.62	-168.46	48.03	-2,791.14	3,251.94	3,230.89	21.05	154.466		
3,200.00	3,159.15	3,095.16	3,095.02	14.09	9.91	-168.49	49.59	-2,790.80	3,268.28	3,246.56	21.71	150.518		
3,300.00	3,257.68	3,191.01	3,190.87	14.55	10.25	-168.53	50.52	-2,790.73	3,284.96	3,262.54	22.42	146.502		
3,400.00	3,356.20	3,288.00	3,287.85	15.01	10.59	-168.57	51.46	-2,790.53	3,301.52	3,278.39	23.14	142.698		
3,500.00	3,454.73	3,374.37	3,374.22	15.47	10.89	-168.60	52.50	-2,790.54	3,318.30	3,294.49	23.81	139.382		
3,600.00	3,553.26	3,460.19	3,460.03	15.93	11.19	-168.63	53.88	-2,791.05	3,335.62	3,311.15	24.48	136.285		
3,700.00	3,651.78	3,581.17	3,580.98	16.40	11.61	-168.67	55.46	-2,791.48	3,352.73	3,327.44	25.29	132.590		
3,800.00	3,750.31	3,685.31	3,685.12	16.86	11.98	-168.71	56.59	-2,791.38	3,369.39	3,343.35	26.03	129.438		
3,900.00	3,848.83	3,792.68	3,792.48	17.32	12.36	-168.75	58.35	-2,791.15	3,385.93	3,359.14	26.79	126.389		
4,000.00	3,947.36	3,913.25	3,913.01	17.78	12.78	-168.77	61.10	-2,790.30	3,401.97	3,374.37	27.60	123.246		
4,100.00	4,045.89	4,004.48	4,004.21	18.24	13.11	-168.78	63.46	-2,789.47	3,417.81	3,389.51	28.30	120.778		
4,200.00	4,144.41	4,098.48	4,098.17	18.70	13.44	-168.79	65.81	-2,788.80	3,433.84	3,404.84	29.00	118.389		
4,300.00	4,242.94	4,197.31	4,196.99	19.17	13.79	-168.82	67.74	-2,788.13	3,449.92	3,420.19	29.73	116.038		
4,400.00	4,341.47	4,340.40	4,340.06	19.63	14.29	-168.87	69.29	-2,786.37	3,465.52	3,434.88	30.64	113.115		
4,500.00	4,439.99	4,426.76	4,426.39	20.09	14.60	-168.91	69.56	-2,784.55	3,480.26	3,448.95	31.31	111.158		
4,600.00	4,538.52	4,489.63	4,489.26	20.55	14.82	-168.95	69.50	-2,783.83	3,495.93	3,464.05	31.88	109.651		
4,700.00	4,637.04	4,559.29	4,558.92	21.01	15.06	-168.99	69.22	-2,783.75	3,512.60	3,480.12	32.48	108.148		
4,800.00	4,735.57	4,648.74	4,648.37	21.48	15.36	-169.04	69.10	-2,784.04	3,529.72	3,496.57	33.16	106.460		
4,900.00	4,834.10	4,728.92	4,728.55	21.94	15.64	-169.08	69.39	-2,784.56	3,547.17	3,513.38	33.79	104.967		
5,000.00	4,932.62	4,800.32	4,799.94	22.40	15.89	-169.11	69.97	-2,785.55	3,565.31	3,530.91	34.39	103.663		
5,100.00	5,031.15	4,887.30	4,886.90	22.86	16.19	-169.14	70.96	-2,787.36	3,584.11	3,549.05	35.06	102.231		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,129.68	5,004.29	5,003.87	23.32	16.59	-169.19	71.21	-2,789.45	3,602.68	3,566.82	35.85	100.483		
5,300.00	5,228.20	5,117.36	5,116.93	23.79	16.99	-169.25	71.06	-2,790.94	3,620.79	3,584.16	36.63	98.845		
5,400.00	5,326.73	5,225.50	5,225.06	24.25	17.36	-169.30	71.41	-2,791.98	3,638.54	3,601.15	37.39	97.317		
5,500.00	5,425.25	5,330.90	5,330.45	24.71	17.73	-169.35	71.61	-2,792.78	3,656.09	3,617.96	38.13	95.873		
5,600.00	5,523.78	5,438.25	5,437.81	25.17	18.10	-169.41	71.50	-2,793.34	3,673.44	3,634.55	38.89	94.463		
5,700.00	5,621.78	5,533.09	5,532.64	25.64	18.43	-133.10	71.11	-2,793.72	3,690.81	3,651.21	39.59	93.215		
5,800.00	5,716.63	5,590.68	5,590.20	26.12	18.62	-114.54	69.67	-2,794.19	3,708.91	3,668.75	40.16	92.361		
5,900.00	5,805.45	5,632.05	5,617.29	26.60	19.43	-108.02	-4.20	-2,787.83	3,725.06	3,683.61	41.45	89.869		
6,000.00	5,885.54	5,656.00	5,637.72	27.08	19.52	-102.77	-16.65	-2,786.52	3,742.50	3,700.59	41.91	89.306		
6,100.00	5,954.47	5,656.00	5,637.72	27.57	19.52	-98.58	-16.65	-2,786.52	3,761.81	3,719.53	42.28	88.973		
6,200.00	6,010.13	5,656.00	5,637.72	28.08	19.52	-95.10	-16.65	-2,786.52	3,782.54	3,739.87	42.67	88.638		
6,300.00	6,050.85	5,656.00	5,637.72	28.62	19.52	-92.09	-16.65	-2,786.52	3,804.04	3,760.95	43.10	88.267		
6,400.00	6,075.38	5,645.40	5,628.71	29.22	19.48	-89.32	-11.10	-2,787.08	3,825.62	3,782.10	43.51	87.922		
6,500.00	6,083.00	5,628.72	5,614.43	29.87	19.42	-86.99	-2.51	-2,788.01	3,846.44	3,802.50	43.94	87.545		
6,600.00	6,083.00	5,793.00	5,783.30	30.60	19.30	-86.52	14.89	-2,789.90	3,867.76	3,823.42	44.34	87.233		
6,700.00	6,083.00	5,762.00	5,755.39	31.42	19.20	-86.10	28.28	-2,791.27	3,891.22	3,846.41	44.81	86.844		
6,800.00	6,083.00	5,762.00	5,755.39	32.32	19.20	-86.10	28.28	-2,791.27	3,916.95	3,871.50	45.45	86.190		
6,900.00	6,083.00	5,747.61	5,742.16	33.30	19.15	-85.90	33.93	-2,791.93	3,944.93	3,898.87	46.06	85.651		
7,000.00	6,083.00	5,730.00	5,725.79	34.35	19.09	-85.65	40.34	-2,792.83	3,975.22	3,928.53	46.69	85.149		
7,100.00	6,083.00	5,730.00	5,725.79	35.45	19.09	-85.65	40.34	-2,792.83	4,007.60	3,960.19	47.41	84.536		
7,200.00	6,083.00	5,699.74	5,697.20	36.62	19.00	-85.22	50.12	-2,794.15	4,042.10	3,994.08	48.02	84.180		
7,300.00	6,083.00	5,672.49	5,670.97	37.83	18.90	-84.83	57.50	-2,794.73	4,078.52	4,029.87	48.65	83.841		
7,400.00	6,083.00	5,669.00	5,667.58	39.09	18.89	-84.78	58.34	-2,794.76	4,116.95	4,067.56	49.38	83.365		
7,500.00	6,083.00	5,656.10	5,655.01	40.39	18.85	-84.59	61.21	-2,794.82	4,157.35	4,107.27	50.08	83.011		
7,600.00	6,083.00	5,650.45	5,649.47	41.73	18.83	-84.50	62.34	-2,794.81	4,199.74	4,148.93	50.81	82.656		
7,700.00	6,083.00	5,638.00	5,637.22	43.10	18.79	-84.32	64.54	-2,794.75	4,244.06	4,192.56	51.50	82.408		
7,800.00	6,083.00	5,638.00	5,637.22	44.50	18.79	-84.32	64.54	-2,794.75	4,290.18	4,237.94	52.24	82.122		
7,900.00	6,083.00	5,638.00	5,637.22	45.93	18.79	-84.32	64.54	-2,794.75	4,338.12	4,285.15	52.97	81.893		
8,000.00	6,083.00	5,638.00	5,637.22	47.38	18.79	-84.32	64.54	-2,794.75	4,387.82	4,334.13	53.69	81.722		
8,100.00	6,083.00	5,638.00	5,637.22	48.85	18.79	-84.32	64.54	-2,794.75	4,439.22	4,384.82	54.40	81.607		
8,200.00	6,083.00	5,638.00	5,637.22	50.34	18.79	-84.32	64.54	-2,794.75	4,492.25	4,437.16	55.09	81.546		
8,300.00	6,083.00	5,638.00	5,637.22	51.85	18.79	-84.32	64.54	-2,794.75	4,546.86	4,491.10	55.76	81.539 SF		
8,400.00	6,083.00	5,638.00	5,637.22	53.38	18.79	-84.32	64.54	-2,794.75	4,603.00	4,546.58	56.42	81.582		
8,500.00	6,083.00	5,623.33	5,622.70	54.92	18.74	-84.10	66.66	-2,794.60	4,660.45	4,603.46	57.00	81.769		
8,600.00	6,083.00	5,621.52	5,620.90	56.48	18.73	-84.07	66.89	-2,794.58	4,719.43	4,661.82	57.61	81.918		
8,700.00	6,083.00	5,607.00	5,606.47	58.04	18.68	-83.86	68.44	-2,794.40	4,779.90	4,721.75	58.15	82.200		
8,800.00	6,083.00	5,607.00	5,606.47	59.63	18.68	-83.86	68.44	-2,794.40	4,841.52	4,782.78	58.74	82.424		
8,900.00	6,083.00	5,607.00	5,606.47	61.22	18.68	-83.86	68.44	-2,794.40	4,904.40	4,845.09	59.31	82.689		
9,000.00	6,083.00	5,607.00	5,606.47	62.82	18.68	-83.86	68.44	-2,794.40	4,968.51	4,908.64	59.87	82.994		
9,100.00	6,083.00	5,607.00	5,606.47	64.43	18.68	-83.86	68.44	-2,794.40	5,033.78	4,973.38	60.40	83.337		
9,200.00	6,083.00	5,607.00	5,606.47	66.05	18.68	-83.86	68.44	-2,794.40	5,100.18	5,039.25	60.92	83.715		
9,300.00	6,083.00	5,607.00	5,606.47	67.67	18.68	-83.86	68.44	-2,794.40	5,167.66	5,106.23	61.43	84.128		
9,400.00	6,083.00	5,607.00	5,606.47	69.31	18.68	-83.86	68.44	-2,794.40	5,236.18	5,174.27	61.91	84.573		
9,500.00	6,083.00	5,607.00	5,606.47	70.95	18.68	-83.86	68.44	-2,794.40	5,305.70	5,243.32	62.38	85.049		
9,600.00	6,083.00	5,607.00	5,606.47	72.60	18.68	-83.86	68.44	-2,794.40	5,376.18	5,313.34	62.84	85.555		
9,700.00	6,083.00	5,607.00	5,606.47	74.25	18.68	-83.86	68.44	-2,794.40	5,447.59	5,384.31	63.28	86.088		
9,800.00	6,083.00	5,607.00	5,606.47	75.91	18.68	-83.86	68.44	-2,794.40	5,519.88	5,456.18	63.70	86.648		
9,900.00	6,083.00	5,607.00	5,606.47	77.57	18.68	-83.86	68.44	-2,794.40	5,593.03	5,528.91	64.12	87.233		
10,000.00	6,083.00	5,607.00	5,606.47	79.24	18.68	-83.86	68.44	-2,794.40	5,667.00	5,602.48	64.51	87.842		
10,100.00	6,083.00	5,607.00	5,606.47	80.91	18.68	-83.86	68.44	-2,794.40	5,741.75	5,676.86	64.90	88.474		
10,200.00	6,083.00	5,607.00	5,606.47	82.59	18.68	-83.86	68.44	-2,794.40	5,817.27	5,752.00	65.27	89.128		
10,300.00	6,083.00	5,607.00	5,606.47	84.27	18.68	-83.86	68.44	-2,794.40	5,893.51	5,827.89	65.63	89.802		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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		
10,400.00	6,083.00	5,607.00	5,606.47	85.95	18.68	-83.86	68.44	-2,794.40	5,970.46	5,904.49	65.97	90.496		
10,500.00	6,083.00	5,607.00	5,606.47	87.64	18.68	-83.86	68.44	-2,794.40	6,048.08	5,981.77	66.31	91.209		
10,600.00	6,083.00	5,607.00	5,606.47	89.34	18.68	-83.86	68.44	-2,794.40	6,126.35	6,059.71	66.63	91.939		
10,700.00	6,083.00	5,607.00	5,606.47	91.03	18.68	-83.86	68.44	-2,794.40	6,205.24	6,138.29	66.95	92.686		
10,800.00	6,083.00	5,607.00	5,606.47	92.73	18.68	-83.86	68.44	-2,794.40	6,284.74	6,217.48	67.25	93.450		
10,900.00	6,083.00	5,607.00	5,606.47	94.43	18.68	-83.86	68.44	-2,794.40	6,364.81	6,297.26	67.55	94.228		
11,000.00	6,083.00	5,607.00	5,606.47	96.13	18.68	-83.86	68.44	-2,794.40	6,445.44	6,377.61	67.83	95.022		
11,100.00	6,083.00	5,607.00	5,606.47	97.84	18.68	-83.86	68.44	-2,794.40	6,526.60	6,458.50	68.11	95.829		
11,200.00	6,083.00	5,607.00	5,606.47	99.55	18.68	-83.86	68.44	-2,794.40	6,608.29	6,539.91	68.37	96.649		
11,300.00	6,083.00	5,607.00	5,606.47	101.26	18.68	-83.86	68.44	-2,794.40	6,690.47	6,621.83	68.63	97.483		
11,400.00	6,083.00	5,607.00	5,606.47	102.97	18.68	-83.86	68.44	-2,794.40	6,773.12	6,704.24	68.88	98.328		
11,500.00	6,083.00	5,607.00	5,606.47	104.68	18.68	-83.86	68.44	-2,794.40	6,856.25	6,787.12	69.13	99.184		
11,600.00	6,083.00	5,592.13	5,591.65	106.40	18.63	-83.63	69.58	-2,794.21	6,939.63	6,870.33	69.30	100.139		
11,700.00	6,083.00	5,591.57	5,591.09	108.12	18.63	-83.62	69.62	-2,794.20	7,023.61	6,954.09	69.53	101.021		
11,800.00	6,083.00	5,591.02	5,590.54	109.84	18.62	-83.62	69.65	-2,794.20	7,108.01	7,038.26	69.75	101.912		
11,900.00	6,083.00	5,590.49	5,590.01	111.56	18.62	-83.61	69.68	-2,794.19	7,192.80	7,122.84	69.96	102.813		
12,000.00	6,083.00	5,589.98	5,589.50	113.29	18.62	-83.60	69.71	-2,794.18	7,277.98	7,207.82	70.17	103.723		
12,100.00	6,083.00	5,575.00	5,574.54	115.01	18.57	-83.38	70.43	-2,794.01	7,363.71	7,293.40	70.31	104.736		
12,200.00	6,083.00	5,575.00	5,574.54	116.74	18.57	-83.38	70.43	-2,794.01	7,449.61	7,379.10	70.51	105.659		
12,300.00	6,083.00	5,575.00	5,574.54	118.47	18.57	-83.38	70.43	-2,794.01	7,535.86	7,465.16	70.70	106.591		
12,400.00	6,083.00	5,575.00	5,574.54	120.19	18.57	-83.38	70.43	-2,794.01	7,622.44	7,551.56	70.89	107.530		
12,500.00	6,083.00	5,575.00	5,574.54	121.93	18.57	-83.38	70.43	-2,794.01	7,709.35	7,638.28	71.07	108.476		
12,600.00	6,083.00	5,575.00	5,574.54	123.66	18.57	-83.38	70.43	-2,794.01	7,796.58	7,725.33	71.25	109.429		
12,700.00	6,083.00	5,575.00	5,574.54	125.39	18.57	-83.38	70.43	-2,794.01	7,884.10	7,812.68	71.42	110.389		
12,800.00	6,083.00	5,575.00	5,574.54	127.12	18.57	-83.38	70.43	-2,794.01	7,971.93	7,900.33	71.59	111.355		
12,900.00	6,083.00	5,575.00	5,574.54	128.86	18.57	-83.38	70.43	-2,794.01	8,060.03	7,988.27	71.76	112.327		
13,000.00	6,083.00	5,575.00	5,574.54	130.60	18.57	-83.38	70.43	-2,794.01	8,148.41	8,076.49	71.92	113.304		
13,100.00	6,083.00	5,575.00	5,574.54	132.33	18.57	-83.38	70.43	-2,794.01	8,237.05	8,164.98	72.07	114.287		
13,200.00	6,083.00	5,575.00	5,574.54	134.07	18.57	-83.38	70.43	-2,794.01	8,325.95	8,253.73	72.23	115.276		
13,300.00	6,083.00	5,575.00	5,574.54	135.81	18.57	-83.38	70.43	-2,794.01	8,415.11	8,342.73	72.38	116.269		
13,400.00	6,083.00	5,575.00	5,574.54	137.55	18.57	-83.38	70.43	-2,794.01	8,504.50	8,431.98	72.52	117.267		
13,500.00	6,083.00	5,575.00	5,574.54	139.29	18.57	-83.38	70.43	-2,794.01	8,594.12	8,521.46	72.67	118.269		
13,600.00	6,083.00	5,575.00	5,574.54	141.03	18.57	-83.38	70.43	-2,794.01	8,683.98	8,611.17	72.81	119.276		
13,700.00	6,083.00	5,575.00	5,574.54	142.78	18.57	-83.38	70.43	-2,794.01	8,774.05	8,701.11	72.94	120.287		
13,800.00	6,083.00	5,575.00	5,574.54	144.52	18.57	-83.38	70.43	-2,794.01	8,864.33	8,791.26	73.08	121.301		
13,900.00	6,083.00	5,575.00	5,574.54	146.26	18.57	-83.38	70.43	-2,794.01	8,954.83	8,881.62	73.21	122.320		
14,000.00	6,083.00	5,575.00	5,574.54	148.01	18.57	-83.38	70.43	-2,794.01	9,045.52	8,972.18	73.34	123.342		
14,100.00	6,083.00	5,575.00	5,574.54	149.75	18.57	-83.38	70.43	-2,794.01	9,136.40	9,062.94	73.46	124.367		
14,200.00	6,083.00	5,575.00	5,574.54	151.50	18.57	-83.38	70.43	-2,794.01	9,227.48	9,153.89	73.59	125.395		
14,300.00	6,083.00	5,575.00	5,574.54	153.25	18.57	-83.38	70.43	-2,794.01	9,318.74	9,245.03	73.71	126.427		
14,400.00	6,083.00	5,575.00	5,574.54	154.99	18.57	-83.38	70.43	-2,794.01	9,410.17	9,336.34	73.83	127.461		
14,500.00	6,083.00	5,575.00	5,574.54	156.74	18.57	-83.38	70.43	-2,794.01	9,501.78	9,427.83	73.94	128.498		
14,600.00	6,083.00	5,575.00	5,574.54	158.49	18.57	-83.38	70.43	-2,794.01	9,593.55	9,519.49	74.06	129.538		
14,700.00	6,083.00	5,575.00	5,574.54	160.24	18.57	-83.38	70.43	-2,794.01	9,685.49	9,611.32	74.17	130.580		
14,800.00	6,083.00	5,575.00	5,574.54	161.99	18.57	-83.38	70.43	-2,794.01	9,777.59	9,703.31	74.28	131.625		
14,900.00	6,083.00	5,575.00	5,574.54	163.74	18.57	-83.38	70.43	-2,794.01	9,869.84	9,795.45	74.39	132.671		
15,000.00	6,083.00	5,575.00	5,574.54	165.49	18.57	-83.38	70.43	-2,794.01	9,962.24	9,887.74	74.50	133.720		
15,100.00	6,083.00	5,575.00	5,574.54	167.24	18.57	-83.38	70.43	-2,794.01	10,054.78	9,980.18	74.61	134.771		

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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	142.62	-4,636.36	3,542.65	5,834.91	5,834.51	0.40	N/A		
200.00	199.98	175.98	175.98	0.62	0.30	64.95	-4,636.36	3,542.65	5,834.17	5,833.25	0.93	6,292.154		
300.00	299.84	275.84	275.84	0.99	0.48	65.04	-4,636.36	3,542.65	5,831.96	5,830.50	1.46	3,994.556		
400.00	399.45	375.45	375.45	1.36	0.65	65.18	-4,636.36	3,542.65	5,828.28	5,826.27	2.00	2,907.287		
500.00	498.70	474.70	474.70	1.76	0.83	65.38	-4,636.36	3,542.65	5,823.15	5,820.57	2.58	2,258.896		
600.00	597.47	928.00	926.95	2.18	2.47	66.37	-4,637.04	3,518.73	5,813.54	5,808.92	4.62	1,258.207		
700.00	695.99	963.88	962.49	2.62	2.61	66.47	-4,638.10	3,513.92	5,800.97	5,795.79	5.18	1,119.774		
800.00	794.52	1,021.00	1,018.98	3.06	2.83	66.64	-4,641.18	3,506.03	5,789.81	5,783.97	5.83	992.693		
900.00	893.05	1,021.00	1,018.98	3.51	2.83	66.64	-4,641.18	3,506.03	5,779.46	5,773.20	6.27	922.061		
1,000.00	991.57	10,762.00	6,125.90	3.97	84.61	26.19	-178.98	2,617.78	5,739.48	5,683.57	55.92	102.646		
1,100.00	1,090.10	10,762.00	6,125.90	4.42	84.61	26.19	-178.98	2,617.78	5,643.83	5,587.61	56.22	100.388		
1,200.00	1,188.62	10,762.00	6,125.90	4.88	84.61	26.19	-178.98	2,617.78	5,548.34	5,491.79	56.54	98.129		
1,300.00	1,287.15	10,762.00	6,125.90	5.34	84.61	26.19	-178.98	2,617.78	5,453.00	5,396.12	56.88	95.871		
1,400.00	1,385.68	10,762.00	6,125.90	5.79	84.61	26.19	-178.98	2,617.78	5,357.83	5,300.60	57.23	93.616		
1,500.00	1,484.20	10,762.00	6,125.90	6.25	84.61	26.19	-178.98	2,617.78	5,262.85	5,205.24	57.60	91.366		
1,600.00	1,582.73	10,762.00	6,125.90	6.71	84.61	26.19	-178.98	2,617.78	5,168.05	5,110.06	57.99	89.121		
1,700.00	1,681.26	10,762.00	6,125.90	7.17	84.61	26.19	-178.98	2,617.78	5,073.45	5,015.06	58.39	86.883		
1,800.00	1,779.78	10,762.00	6,125.90	7.63	84.61	26.19	-178.98	2,617.78	4,979.06	4,920.25	58.82	84.654		
1,900.00	1,878.31	10,762.00	6,125.90	8.09	84.61	26.19	-178.98	2,617.78	4,884.90	4,825.64	59.26	82.436		
2,000.00	1,976.83	10,762.00	6,125.90	8.55	84.61	26.19	-178.98	2,617.78	4,790.97	4,731.26	59.72	80.228		
2,100.00	2,075.36	10,762.00	6,125.90	9.01	84.61	26.19	-178.98	2,617.78	4,697.30	4,637.10	60.20	78.032		
2,200.00	2,173.89	10,762.00	6,125.90	9.47	84.61	26.19	-178.98	2,617.78	4,603.89	4,543.19	60.70	75.851		
2,300.00	2,272.41	10,762.00	6,125.90	9.93	84.61	26.19	-178.98	2,617.78	4,510.76	4,449.54	61.22	73.684		
2,400.00	2,370.94	10,762.00	6,125.90	10.40	84.61	26.19	-178.98	2,617.78	4,417.93	4,356.17	61.76	71.533		
2,500.00	2,469.47	10,762.00	6,125.90	10.86	84.61	26.19	-178.98	2,617.78	4,325.43	4,263.10	62.33	69.398		
2,600.00	2,567.99	10,762.00	6,125.90	11.32	84.61	26.19	-178.98	2,617.78	4,233.26	4,170.34	62.92	67.282		
2,700.00	2,666.52	10,762.00	6,125.90	11.78	84.61	26.19	-178.98	2,617.78	4,141.46	4,077.92	63.53	65.185		
2,800.00	2,765.05	10,762.00	6,125.90	12.24	84.61	26.19	-178.98	2,617.78	4,050.04	3,985.87	64.18	63.108		
2,900.00	2,863.57	10,762.00	6,125.90	12.70	84.61	26.19	-178.98	2,617.78	3,959.04	3,894.20	64.85	61.053		
3,000.00	2,962.10	10,762.00	6,125.90	13.16	84.61	26.19	-178.98	2,617.78	3,868.49	3,802.94	65.55	59.020		
3,100.00	3,060.62	10,762.00	6,125.90	13.63	84.61	26.19	-178.98	2,617.78	3,778.41	3,712.13	66.28	57.011		
3,200.00	3,159.15	10,762.00	6,125.90	14.09	84.61	26.19	-178.98	2,617.78	3,688.84	3,621.80	67.04	55.027		
3,300.00	3,257.68	10,762.00	6,125.90	14.55	84.61	26.19	-178.98	2,617.78	3,599.82	3,531.99	67.83	53.069		
3,400.00	3,356.20	10,762.00	6,125.90	15.01	84.61	26.19	-178.98	2,617.78	3,511.40	3,442.73	68.66	51.139		
3,500.00	3,454.73	10,762.00	6,125.90	15.47	84.61	26.19	-178.98	2,617.78	3,423.61	3,354.07	69.53	49.238		
3,600.00	3,553.26	10,762.00	6,125.90	15.93	84.61	26.19	-178.98	2,617.78	3,336.50	3,266.07	70.44	47.367		
3,700.00	3,651.78	10,762.00	6,125.90	16.40	84.61	26.19	-178.98	2,617.78	3,250.14	3,178.76	71.39	45.529		
3,800.00	3,750.31	10,762.00	6,125.90	16.86	84.61	26.19	-178.98	2,617.78	3,164.59	3,092.21	72.38	43.724		
3,900.00	3,848.83	10,762.00	6,125.90	17.32	84.61	26.19	-178.98	2,617.78	3,079.90	3,006.49	73.41	41.954		
4,000.00	3,947.36	10,762.00	6,125.90	17.78	84.61	26.19	-178.98	2,617.78	2,996.16	2,921.67	74.49	40.222		
4,100.00	4,045.89	10,762.00	6,125.90	18.24	84.61	26.19	-178.98	2,617.78	2,913.44	2,837.82	75.62	38.528		
4,200.00	4,144.41	10,762.00	6,125.90	18.70	84.61	26.19	-178.98	2,617.78	2,831.84	2,755.05	76.79	36.876		
4,300.00	4,242.94	10,762.00	6,125.90	19.17	84.61	26.19	-178.98	2,617.78	2,751.45	2,673.43	78.02	35.266		
4,400.00	4,341.47	10,762.00	6,125.90	19.63	84.61	26.19	-178.98	2,617.78	2,672.39	2,593.10	79.29	33.702		
4,500.00	4,439.99	10,762.00	6,125.90	20.09	84.61	26.19	-178.98	2,617.78	2,594.77	2,514.15	80.62	32.186		
4,600.00	4,538.52	10,762.00	6,125.90	20.55	84.61	26.19	-178.98	2,617.78	2,518.73	2,436.74	81.99	30.719		
4,700.00	4,637.04	10,762.00	6,125.90	21.01	84.61	26.19	-178.98	2,617.78	2,444.42	2,361.01	83.41	29.305		
4,800.00	4,735.57	10,762.00	6,125.90	21.48	84.61	26.19	-178.98	2,617.78	2,372.00	2,287.12	84.88	27.945		
4,900.00	4,834.10	10,762.00	6,125.90	21.94	84.61	26.19	-178.98	2,617.78	2,301.64	2,215.26	86.39	26.644		
5,000.00	4,932.62	10,762.00	6,125.90	22.40	84.61	26.19	-178.98	2,617.78	2,233.55	2,145.62	87.92	25.403		
5,100.00	5,031.15	10,762.00	6,125.90	22.86	84.61	26.19	-178.98	2,617.78	2,167.93	2,078.44	89.49	24.226		
5,200.00	5,129.68	10,762.00	6,125.90	23.32	84.61	26.19	-178.98	2,617.78	2,105.01	2,013.95	91.06	23.116		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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				
5,300.00	5,228.20	10,762.00	6,125.90	23.79	84.61	26.19	-178.98	2,617.78	2,045.06	1,952.42	92.64	22.076				
5,400.00	5,326.73	10,762.00	6,125.90	24.25	84.61	26.19	-178.98	2,617.78	1,988.33	1,894.13	94.20	21.108				
5,500.00	5,425.25	10,762.00	6,125.90	24.71	84.61	26.19	-178.98	2,617.78	1,935.10	1,839.39	95.71	20.217				
5,600.00	5,523.78	10,762.00	6,125.90	25.17	84.61	26.19	-178.98	2,617.78	1,885.68	1,788.51	97.17	19.406				
5,700.00	5,621.78	10,762.00	6,125.90	25.64	84.61	65.05	-178.98	2,617.78	1,841.86	1,743.38	98.48	18.703				
5,800.00	5,716.63	10,762.00	6,125.90	26.12	84.61	85.49	-178.98	2,617.78	1,807.45	1,707.97	99.48	18.168				
5,900.00	5,805.45	10,762.00	6,125.90	26.60	84.61	95.03	-178.98	2,617.78	1,784.12	1,684.00	100.12	17.820				
6,000.00	5,885.54	10,762.00	6,125.90	27.08	84.61	99.87	-178.98	2,617.78	1,773.01	1,672.65	100.36	17.667				
6,036.89	5,912.39	10,762.00	6,125.90	27.25	84.61	100.91	-178.98	2,617.78	1,772.13	1,671.77	100.36	17.658	CC, ES, SF			
6,100.00	5,954.47	10,762.00	6,125.90	27.57	84.61	101.95	-178.98	2,617.78	1,774.69	1,674.47	100.22	17.708				
6,200.00	6,010.13	10,762.00	6,125.90	28.08	84.61	101.98	-178.98	2,617.78	1,789.09	1,689.34	99.76	17.935				
6,300.00	6,050.85	10,762.00	6,125.90	28.62	84.61	100.26	-178.98	2,617.78	1,815.46	1,716.43	99.03	18.332				
6,400.00	6,075.38	10,762.00	6,125.90	29.22	84.61	96.91	-178.98	2,617.78	1,852.52	1,754.39	98.14	18.877				
6,500.00	6,083.00	10,762.00	6,125.90	29.87	84.61	92.33	-178.98	2,617.78	1,898.55	1,801.41	97.14	19.544				
6,600.00	6,083.00	10,762.00	6,125.90	30.60	84.61	92.33	-178.98	2,617.78	1,950.18	1,854.07	96.12	20.290				
6,700.00	6,083.00	10,762.00	6,125.90	31.42	84.61	92.33	-178.98	2,617.78	2,005.47	1,910.39	95.08	21.092				
6,800.00	6,083.00	10,762.00	6,125.90	32.32	84.61	92.33	-178.98	2,617.78	2,064.13	1,970.08	94.05	21.948				
6,900.00	6,083.00	10,762.00	6,125.90	33.30	84.61	92.33	-178.98	2,617.78	2,125.87	2,032.86	93.02	22.855				
7,000.00	6,083.00	10,762.00	6,125.90	34.35	84.61	92.33	-178.98	2,617.78	2,190.44	2,098.45	91.99	23.811				
7,100.00	6,083.00	10,762.00	6,125.90	35.45	84.61	92.33	-178.98	2,617.78	2,257.60	2,166.61	90.99	24.812				
7,200.00	6,083.00	10,762.00	6,125.90	36.62	84.61	92.33	-178.98	2,617.78	2,327.11	2,237.11	90.00	25.856				
7,300.00	6,083.00	10,762.00	6,125.90	37.83	84.61	92.33	-178.98	2,617.78	2,398.78	2,309.74	89.05	26.939				
7,400.00	6,083.00	10,762.00	6,125.90	39.09	84.61	92.33	-178.98	2,617.78	2,472.42	2,384.30	88.12	28.058				
7,500.00	6,083.00	10,762.00	6,125.90	40.39	84.61	92.33	-178.98	2,617.78	2,547.86	2,460.63	87.23	29.210				
7,600.00	6,083.00	10,762.00	6,125.90	41.73	84.61	92.33	-178.98	2,617.78	2,624.94	2,538.57	86.37	30.393				
7,700.00	6,083.00	10,762.00	6,125.90	43.10	84.61	92.33	-178.98	2,617.78	2,703.52	2,617.97	85.55	31.603				
7,800.00	6,083.00	10,762.00	6,125.90	44.50	84.61	92.33	-178.98	2,617.78	2,783.47	2,698.71	84.76	32.839				
7,900.00	6,083.00	10,762.00	6,125.90	45.93	84.61	92.33	-178.98	2,617.78	2,864.68	2,780.67	84.01	34.098				
8,000.00	6,083.00	10,762.00	6,125.90	47.38	84.61	92.33	-178.98	2,617.78	2,947.05	2,863.75	83.30	35.378				
8,100.00	6,083.00	10,762.00	6,125.90	48.85	84.61	92.33	-178.98	2,617.78	3,030.48	2,947.85	82.63	36.676				
8,200.00	6,083.00	10,762.00	6,125.90	50.34	84.61	92.33	-178.98	2,617.78	3,114.89	3,032.90	81.99	37.991				
8,300.00	6,083.00	10,762.00	6,125.90	51.85	84.61	92.33	-178.98	2,617.78	3,200.19	3,118.81	81.39	39.320				
8,400.00	6,083.00	10,762.00	6,125.90	53.38	84.61	92.33	-178.98	2,617.78	3,286.33	3,205.51	80.82	40.663				
8,500.00	6,083.00	10,762.00	6,125.90	54.92	84.61	92.33	-178.98	2,617.78	3,373.23	3,292.94	80.28	42.017				
8,600.00	6,083.00	10,762.00	6,125.90	56.48	84.61	92.33	-178.98	2,617.78	3,460.83	3,381.05	79.78	43.380				
8,700.00	6,083.00	10,762.00	6,125.90	58.04	84.61	92.33	-178.98	2,617.78	3,549.09	3,469.79	79.30	44.753				
8,800.00	6,083.00	10,762.00	6,125.90	59.63	84.61	92.33	-178.98	2,617.78	3,637.96	3,559.11	78.86	46.133				
8,900.00	6,083.00	10,762.00	6,125.90	61.22	84.61	92.33	-178.98	2,617.78	3,727.40	3,648.96	78.44	47.519				
9,000.00	6,083.00	10,762.00	6,125.90	62.82	84.61	92.33	-178.98	2,617.78	3,817.35	3,739.31	78.05	48.911				
9,100.00	6,083.00	10,762.00	6,125.90	64.43	84.61	92.33	-178.98	2,617.78	3,907.80	3,830.12	77.68	50.306				
9,200.00	6,083.00	10,762.00	6,125.90	66.05	84.61	92.33	-178.98	2,617.78	3,998.70	3,921.36	77.34	51.705				
9,300.00	6,083.00	10,762.00	6,125.90	67.67	84.61	92.33	-178.98	2,617.78	4,090.03	4,013.01	77.02	53.107				
9,400.00	6,083.00	10,762.00	6,125.90	69.31	84.61	92.33	-178.98	2,617.78	4,181.75	4,105.03	76.71	54.510				
9,500.00	6,083.00	10,762.00	6,125.90	70.95	84.61	92.33	-178.98	2,617.78	4,273.84	4,197.41	76.43	55.915				
9,600.00	6,083.00	10,762.00	6,125.90	72.60	84.61	92.33	-178.98	2,617.78	4,366.28	4,290.11	76.17	57.320				
9,700.00	6,083.00	10,762.00	6,125.90	74.25	84.61	92.33	-178.98	2,617.78	4,459.05	4,383.12	75.93	58.726				
9,800.00	6,083.00	10,762.00	6,125.90	75.91	84.61	92.33	-178.98	2,617.78	4,552.13	4,476.42	75.70	60.131				
9,900.00	6,083.00	10,762.00	6,125.90	77.57	84.61	92.33	-178.98	2,617.78	4,645.49	4,570.00	75.49	61.535				
10,000.00	6,083.00	10,762.00	6,125.90	79.24	84.61	92.33	-178.98	2,617.78	4,739.12	4,663.82	75.30	62.938				
10,100.00	6,083.00	10,762.00	6,125.90	80.91	84.61	92.33	-178.98	2,617.78	4,833.01	4,757.89	75.12	64.339				
10,200.00	6,083.00	10,762.00	6,125.90	82.59	84.61	92.33	-178.98	2,617.78	4,927.14	4,852.19	74.95	65.739				
10,300.00	6,083.00	10,762.00	6,125.90	84.27	84.61	92.33	-178.98	2,617.78	5,021.49	4,946.70	74.80	67.137				

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	85.95	84.61	92.33	-178.98	2,617.78	5,116.06	5,041.41	74.65	68.532		
10,500.00	6,083.00	10,762.00	6,125.90	87.64	84.61	92.33	-178.98	2,617.78	5,210.84	5,136.32	74.52	69.925		
10,600.00	6,083.00	10,762.00	6,125.90	89.34	84.61	92.33	-178.98	2,617.78	5,305.80	5,231.40	74.40	71.315		
10,700.00	6,083.00	10,762.00	6,125.90	91.03	84.61	92.33	-178.98	2,617.78	5,400.95	5,326.66	74.29	72.703		
10,800.00	6,083.00	10,762.00	6,125.90	92.73	84.61	92.33	-178.98	2,617.78	5,496.27	5,422.08	74.19	74.087		
10,900.00	6,083.00	10,762.00	6,125.90	94.43	84.61	92.33	-178.98	2,617.78	5,591.75	5,517.65	74.09	75.468		
11,000.00	6,083.00	10,762.00	6,125.90	96.13	84.61	92.33	-178.98	2,617.78	5,687.39	5,613.38	74.01	76.847		
11,100.00	6,083.00	10,762.00	6,125.90	97.84	84.61	92.33	-178.98	2,617.78	5,783.17	5,709.24	73.93	78.222		
11,200.00	6,083.00	10,762.00	6,125.90	99.55	84.61	92.33	-178.98	2,617.78	5,879.10	5,805.23	73.86	79.594		
11,300.00	6,083.00	10,762.00	6,125.90	101.26	84.61	92.33	-178.98	2,617.78	5,975.15	5,901.35	73.80	80.962		
11,400.00	6,083.00	10,762.00	6,125.90	102.97	84.61	92.33	-178.98	2,617.78	6,071.34	5,997.59	73.75	82.327		
11,500.00	6,083.00	10,762.00	6,125.90	104.68	84.61	92.33	-178.98	2,617.78	6,167.65	6,093.95	73.70	83.689		
11,600.00	6,083.00	10,762.00	6,125.90	106.40	84.61	92.33	-178.98	2,617.78	6,264.07	6,190.42	73.65	85.047		
11,700.00	6,083.00	10,762.00	6,125.90	108.12	84.61	92.33	-178.98	2,617.78	6,360.61	6,286.99	73.62	86.402		
11,800.00	6,083.00	10,762.00	6,125.90	109.84	84.61	92.33	-178.98	2,617.78	6,457.25	6,383.66	73.58	87.753		
11,900.00	6,083.00	10,762.00	6,125.90	111.56	84.61	92.33	-178.98	2,617.78	6,553.99	6,480.43	73.56	89.101		
12,000.00	6,083.00	10,762.00	6,125.90	113.29	84.61	92.33	-178.98	2,617.78	6,650.82	6,577.29	73.53	90.445		
12,100.00	6,083.00	10,762.00	6,125.90	115.01	84.61	92.33	-178.98	2,617.78	6,747.75	6,674.23	73.52	91.786		
12,200.00	6,083.00	10,762.00	6,125.90	116.74	84.61	92.33	-178.98	2,617.78	6,844.77	6,771.27	73.50	93.124		
12,300.00	6,083.00	10,762.00	6,125.90	118.47	84.61	92.33	-178.98	2,617.78	6,941.87	6,868.38	73.49	94.458		
12,400.00	6,083.00	10,762.00	6,125.90	120.19	84.61	92.33	-178.98	2,617.78	7,039.05	6,965.57	73.49	95.789		
12,500.00	6,083.00	10,762.00	6,125.90	121.93	84.61	92.33	-178.98	2,617.78	7,136.31	7,062.83	73.48	97.116		
12,600.00	6,083.00	10,762.00	6,125.90	123.66	84.61	92.33	-178.98	2,617.78	7,233.65	7,160.17	73.48	98.440		
12,700.00	6,083.00	10,762.00	6,125.90	125.39	84.61	92.33	-178.98	2,617.78	7,331.06	7,257.57	73.49	99.761		
12,800.00	6,083.00	10,762.00	6,125.90	127.12	84.61	92.33	-178.98	2,617.78	7,428.53	7,355.04	73.49	101.078		
12,900.00	6,083.00	10,762.00	6,125.90	128.86	84.61	92.33	-178.98	2,617.78	7,526.07	7,452.57	73.50	102.392		
13,000.00	6,083.00	10,762.00	6,125.90	130.60	84.61	92.33	-178.98	2,617.78	7,623.68	7,550.17	73.51	103.703		
13,100.00	6,083.00	10,762.00	6,125.90	132.33	84.61	92.33	-178.98	2,617.78	7,721.35	7,647.82	73.53	105.010		
13,200.00	6,083.00	10,762.00	6,125.90	134.07	84.61	92.33	-178.98	2,617.78	7,819.07	7,745.53	73.55	106.315		
13,300.00	6,083.00	10,762.00	6,125.90	135.81	84.61	92.33	-178.98	2,617.78	7,916.86	7,843.29	73.57	107.616		
13,400.00	6,083.00	10,762.00	6,125.90	137.55	84.61	92.33	-178.98	2,617.78	8,014.70	7,941.11	73.59	108.914		
13,500.00	6,083.00	10,762.00	6,125.90	139.29	84.61	92.33	-178.98	2,617.78	8,112.59	8,038.97	73.61	110.208		
13,600.00	6,083.00	10,762.00	6,125.90	141.03	84.61	92.33	-178.98	2,617.78	8,210.53	8,136.89	73.64	111.500		
13,700.00	6,083.00	10,762.00	6,125.90	142.78	84.61	92.33	-178.98	2,617.78	8,308.52	8,234.85	73.66	112.789		
13,800.00	6,083.00	10,762.00	6,125.90	144.52	84.61	92.33	-178.98	2,617.78	8,406.56	8,332.86	73.69	114.074		
13,900.00	6,083.00	10,762.00	6,125.90	146.26	84.61	92.33	-178.98	2,617.78	8,504.64	8,430.91	73.72	115.356		
14,000.00	6,083.00	10,762.00	6,125.90	148.01	84.61	92.33	-178.98	2,617.78	8,602.77	8,529.01	73.76	116.636		
14,100.00	6,083.00	10,762.00	6,125.90	149.75	84.61	92.33	-178.98	2,617.78	8,700.94	8,627.14	73.79	117.912		
14,200.00	6,083.00	10,762.00	6,125.90	151.50	84.61	92.33	-178.98	2,617.78	8,799.15	8,725.32	73.83	119.185		
14,300.00	6,083.00	10,762.00	6,125.90	153.25	84.61	92.33	-178.98	2,617.78	8,897.40	8,823.53	73.86	120.455		
14,400.00	6,083.00	10,762.00	6,125.90	154.99	84.61	92.33	-178.98	2,617.78	8,995.69	8,921.79	73.90	121.723		
14,500.00	6,083.00	10,762.00	6,125.90	156.74	84.61	92.33	-178.98	2,617.78	9,094.02	9,020.07	73.94	122.987		
14,600.00	6,083.00	10,762.00	6,125.90	158.49	84.61	92.33	-178.98	2,617.78	9,192.38	9,118.40	73.98	124.248		
14,700.00	6,083.00	10,762.00	6,125.90	160.24	84.61	92.33	-178.98	2,617.78	9,290.78	9,216.75	74.03	125.507		
14,800.00	6,083.00	10,762.00	6,125.90	161.99	84.61	92.33	-178.98	2,617.78	9,389.21	9,315.14	74.07	126.763		
14,900.00	6,083.00	10,762.00	6,125.90	163.74	84.61	92.33	-178.98	2,617.78	9,487.67	9,413.56	74.11	128.015		
15,000.00	6,083.00	10,762.00	6,125.90	165.49	84.61	92.33	-178.98	2,617.78	9,586.17	9,512.01	74.16	129.265		
15,100.00	6,083.00	10,762.00	6,125.90	167.24	84.61	92.33	-178.98	2,617.78	9,684.70	9,610.49	74.21	130.512		
15,200.00	6,083.00	10,762.00	6,125.90	168.99	84.61	92.33	-178.98	2,617.78	9,783.25	9,709.00	74.25	131.756		
15,300.00	6,083.00	10,762.00	6,125.90	170.74	84.61	92.33	-178.98	2,617.78	9,881.84	9,807.54	74.30	132.998		
15,400.00	6,083.00	10,762.00	6,125.90	172.50	84.61	92.33	-178.98	2,617.78	9,980.46	9,906.11	74.35	134.236		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	-97.60	-169.70	-1,271.67	6,283.60					
100.00	100.00	16,154.00	6,092.23	0.27	178.30	-97.60	-169.70	-1,271.67	6,185.74	6,095.27	90.47	68.377		
200.00	199.98	16,154.00	6,092.23	0.62	178.30	-175.95	-169.70	-1,271.67	6,088.33	5,997.64	90.69	67.134		
300.00	299.84	16,154.00	6,092.23	0.99	178.30	-176.44	-169.70	-1,271.67	5,991.88	5,900.93	90.96	65.876		
400.00	399.45	16,154.00	6,092.23	1.36	178.30	-176.81	-169.70	-1,271.67	5,896.55	5,805.27	91.28	64.599		
500.00	498.70	16,154.00	6,092.23	1.76	178.30	-177.10	-169.70	-1,271.67	5,802.51	5,710.85	91.66	63.302		
600.00	597.47	16,154.00	6,092.23	2.18	178.30	-177.33	-169.70	-1,271.67	5,709.94	5,617.83	92.11	61.994		
700.00	695.99	16,154.00	6,092.23	2.62	178.30	-177.33	-169.70	-1,271.67	5,618.21	5,525.57	92.64	60.646		
800.00	794.52	16,154.00	6,092.23	3.06	178.30	-177.33	-169.70	-1,271.67	5,526.76	5,433.55	93.21	59.292		
900.00	893.05	16,154.00	6,092.23	3.51	178.30	-177.33	-169.70	-1,271.67	5,435.62	5,341.79	93.83	57.932		
1,000.00	991.57	16,154.00	6,092.23	3.97	178.30	-177.33	-169.70	-1,271.67	5,344.79	5,250.31	94.48	56.568		
1,100.00	1,090.10	16,154.00	6,092.23	4.42	178.30	-177.33	-169.70	-1,271.67	5,254.30	5,159.12	95.18	55.203		
1,200.00	1,188.62	16,154.00	6,092.23	4.88	178.30	-177.33	-169.70	-1,271.67	5,164.15	5,068.23	95.92	53.836		
1,300.00	1,287.15	16,154.00	6,092.23	5.34	178.30	-177.33	-169.70	-1,271.67	5,074.38	4,977.67	96.71	52.469		
1,400.00	1,385.68	16,154.00	6,092.23	5.79	178.30	-177.33	-169.70	-1,271.67	4,985.00	4,887.45	97.55	51.104		
1,500.00	1,484.20	16,154.00	6,092.23	6.25	178.30	-177.33	-169.70	-1,271.67	4,896.02	4,797.59	98.43	49.743		
1,600.00	1,582.73	16,154.00	6,092.23	6.71	178.30	-177.33	-169.70	-1,271.67	4,807.48	4,708.12	99.36	48.385		
1,700.00	1,681.26	16,154.00	6,092.23	7.17	178.30	-177.33	-169.70	-1,271.67	4,719.40	4,619.06	100.34	47.033		
1,800.00	1,779.78	16,154.00	6,092.23	7.63	178.30	-177.33	-169.70	-1,271.67	4,631.80	4,530.42	101.38	45.688		
1,900.00	1,878.31	16,154.00	6,092.23	8.09	178.30	-177.33	-169.70	-1,271.67	4,544.71	4,442.24	102.47	44.351		
2,000.00	1,976.83	16,154.00	6,092.23	8.55	178.30	-177.33	-169.70	-1,271.67	4,458.17	4,354.54	103.62	43.023		
2,100.00	2,075.36	16,154.00	6,092.23	9.01	178.30	-177.33	-169.70	-1,271.67	4,372.20	4,267.36	104.84	41.705		
2,200.00	2,173.89	16,154.00	6,092.23	9.47	178.30	-177.33	-169.70	-1,271.67	4,286.83	4,180.72	106.11	40.398		
2,300.00	2,272.41	16,154.00	6,092.23	9.93	178.30	-177.33	-169.70	-1,271.67	4,202.12	4,094.66	107.46	39.105		
2,400.00	2,370.94	16,154.00	6,092.23	10.40	178.30	-177.33	-169.70	-1,271.67	4,118.09	4,009.21	108.87	37.825		
2,500.00	2,469.47	16,154.00	6,092.23	10.86	178.30	-177.33	-169.70	-1,271.67	4,034.78	3,924.43	110.36	36.561		
2,600.00	2,567.99	16,154.00	6,092.23	11.32	178.30	-177.33	-169.70	-1,271.67	3,952.26	3,840.33	111.92	35.313		
2,700.00	2,666.52	16,154.00	6,092.23	11.78	178.30	-177.33	-169.70	-1,271.67	3,870.55	3,756.99	113.56	34.083		
2,800.00	2,765.05	16,154.00	6,092.23	12.24	178.30	-177.33	-169.70	-1,271.67	3,789.73	3,674.44	115.29	32.872		
2,900.00	2,863.57	16,154.00	6,092.23	12.70	178.30	-177.33	-169.70	-1,271.67	3,709.83	3,592.73	117.10	31.681		
3,000.00	2,962.10	16,154.00	6,092.23	13.16	178.30	-177.33	-169.70	-1,271.67	3,630.94	3,511.94	119.00	30.512		
3,100.00	3,060.62	16,154.00	6,092.23	13.63	178.30	-177.33	-169.70	-1,271.67	3,553.11	3,432.12	120.99	29.367		
3,200.00	3,159.15	16,154.00	6,092.23	14.09	178.30	-177.33	-169.70	-1,271.67	3,476.41	3,353.33	123.07	28.246		
3,300.00	3,257.68	16,154.00	6,092.23	14.55	178.30	-177.33	-169.70	-1,271.67	3,400.92	3,275.66	125.26	27.152		
3,400.00	3,356.20	16,154.00	6,092.23	15.01	178.30	-177.33	-169.70	-1,271.67	3,326.73	3,199.19	127.54	26.084		
3,500.00	3,454.73	16,154.00	6,092.23	15.47	178.30	-177.33	-169.70	-1,271.67	3,253.91	3,123.99	129.92	25.046		
3,600.00	3,553.26	16,154.00	6,092.23	15.93	178.30	-177.33	-169.70	-1,271.67	3,182.58	3,050.18	132.40	24.037		
3,700.00	3,651.78	16,154.00	6,092.23	16.40	178.30	-177.33	-169.70	-1,271.67	3,112.82	2,977.84	134.98	23.061		
3,800.00	3,750.31	16,154.00	6,092.23	16.86	178.30	-177.33	-169.70	-1,271.67	3,044.75	2,907.08	137.67	22.117		
3,900.00	3,848.83	16,154.00	6,092.23	17.32	178.30	-177.33	-169.70	-1,271.67	2,978.48	2,838.03	140.45	21.207		
4,000.00	3,947.36	16,154.00	6,092.23	17.78	178.30	-177.33	-169.70	-1,271.67	2,914.13	2,770.82	143.32	20.333		
4,100.00	4,045.89	16,154.00	6,092.23	18.24	178.30	-177.33	-169.70	-1,271.67	2,851.85	2,705.56	146.28	19.496		
4,200.00	4,144.41	16,154.00	6,092.23	18.70	178.30	-177.33	-169.70	-1,271.67	2,791.75	2,642.43	149.32	18.696		
4,300.00	4,242.94	16,154.00	6,092.23	19.17	178.30	-177.33	-169.70	-1,271.67	2,733.99	2,581.55	152.44	17.935		
4,400.00	4,341.47	16,154.00	6,092.23	19.63	178.30	-177.33	-169.70	-1,271.67	2,678.72	2,523.11	155.61	17.214		
4,500.00	4,439.99	16,154.00	6,092.23	20.09	178.30	-177.33	-169.70	-1,271.67	2,626.10	2,467.27	158.83	16.534		
4,600.00	4,538.52	16,154.00	6,092.23	20.55	178.30	-177.33	-169.70	-1,271.67	2,576.29	2,414.21	162.08	15.895		
4,700.00	4,637.04	16,154.00	6,092.23	21.01	178.30	-177.33	-169.70	-1,271.67	2,529.45	2,364.11	165.34	15.299		
4,800.00	4,735.57	16,154.00	6,092.23	21.48	178.30	-177.33	-169.70	-1,271.67	2,485.75	2,317.16	168.59	14.745		
4,900.00	4,834.10	16,154.00	6,092.23	21.94	178.30	-177.33	-169.70	-1,271.67	2,445.36	2,273.57	171.79	14.234		
5,000.00	4,932.62	16,154.00	6,092.23	22.40	178.30	-177.33	-169.70	-1,271.67	2,408.45	2,233.51	174.94	13.768		
5,100.00	5,031.15	16,154.00	6,092.23	22.86	178.30	-177.33	-169.70	-1,271.67	2,375.18	2,197.19	177.99	13.345		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	5,129.68	16,154.00	6,092.23	23.32	178.30	-177.33	-169.70	-1,271.67	2,345.70	2,164.79	180.91	12.966		
5,300.00	5,228.20	16,154.00	6,092.23	23.79	178.30	-177.33	-169.70	-1,271.67	2,320.17	2,136.48	183.68	12.631		
5,400.00	5,326.73	16,154.00	6,092.23	24.25	178.30	-177.33	-169.70	-1,271.67	2,298.70	2,112.43	186.27	12.341		
5,500.00	5,425.25	16,154.00	6,092.23	24.71	178.30	-177.33	-169.70	-1,271.67	2,281.42	2,092.78	188.64	12.094		
5,600.00	5,523.78	16,154.00	6,092.23	25.17	178.30	-177.33	-169.70	-1,271.67	2,268.42	2,077.64	190.77	11.891		
5,700.00	5,621.78	16,154.00	6,092.23	25.64	178.30	-142.96	-169.70	-1,271.67	2,260.84	2,068.30	192.54	11.742		
5,751.62	5,671.32	16,154.00	6,092.23	25.89	178.30	-132.33	-169.70	-1,271.67	2,259.83	2,066.60	193.23	11.695	CC, ES	
5,800.00	5,716.63	16,154.00	6,092.23	26.12	178.30	-125.99	-169.70	-1,271.67	2,260.72	2,066.99	193.73	11.670	SF	
5,900.00	5,805.45	16,154.00	6,092.23	26.60	178.30	-117.95	-169.70	-1,271.67	2,268.09	2,073.81	194.28	11.674		
6,000.00	5,885.54	16,154.00	6,092.23	27.08	178.30	-112.67	-169.70	-1,271.67	2,282.66	2,088.47	194.19	11.755		
6,100.00	5,954.47	16,154.00	6,092.23	27.57	178.30	-108.28	-169.70	-1,271.67	2,303.86	2,110.36	193.50	11.906		
6,200.00	6,010.13	16,154.00	6,092.23	28.08	178.30	-104.12	-169.70	-1,271.67	2,330.87	2,138.62	192.25	12.124		
6,300.00	6,050.85	16,154.00	6,092.23	28.62	178.30	-99.94	-169.70	-1,271.67	2,362.69	2,172.16	190.53	12.401		
6,400.00	6,075.38	16,154.00	6,092.23	29.22	178.30	-95.71	-169.70	-1,271.67	2,398.18	2,209.75	188.43	12.727		
6,500.00	6,083.00	16,154.00	6,092.23	29.87	178.30	-91.74	-169.70	-1,271.67	2,436.13	2,250.08	186.05	13.094		
6,600.00	6,083.00	16,154.00	6,092.23	30.60	178.30	-91.74	-169.70	-1,271.67	2,476.73	2,293.21	183.52	13.496		
6,700.00	6,083.00	16,154.00	6,092.23	31.42	178.30	-91.74	-169.70	-1,271.67	2,520.65	2,339.74	180.91	13.933		
6,800.00	6,083.00	16,154.00	6,092.23	32.32	178.30	-91.74	-169.70	-1,271.67	2,567.71	2,389.48	178.23	14.407		
6,900.00	6,083.00	16,154.00	6,092.23	33.30	178.30	-91.74	-169.70	-1,271.67	2,617.75	2,442.25	175.51	14.915		
7,000.00	6,083.00	16,154.00	6,092.23	34.35	178.30	-91.74	-169.70	-1,271.67	2,670.60	2,497.84	172.76	15.459		
7,100.00	6,083.00	16,154.00	6,092.23	35.45	178.30	-91.74	-169.70	-1,271.67	2,726.09	2,556.10	169.99	16.036		
7,200.00	6,083.00	16,154.00	6,092.23	36.62	178.30	-91.74	-169.70	-1,271.67	2,784.07	2,616.84	167.23	16.648		
7,300.00	6,083.00	16,154.00	6,092.23	37.83	178.30	-91.74	-169.70	-1,271.67	2,844.39	2,679.90	164.49	17.292		
7,400.00	6,083.00	16,154.00	6,092.23	39.09	178.30	-91.74	-169.70	-1,271.67	2,906.89	2,745.12	161.77	17.969		
7,500.00	6,083.00	16,154.00	6,092.23	40.39	178.30	-91.74	-169.70	-1,271.67	2,971.45	2,812.36	159.09	18.678		
7,600.00	6,083.00	16,154.00	6,092.23	41.73	178.30	-91.74	-169.70	-1,271.67	3,037.93	2,881.47	156.45	19.417		
7,700.00	6,083.00	16,154.00	6,092.23	43.10	178.30	-91.74	-169.70	-1,271.67	3,106.20	2,952.33	153.87	20.188		
7,800.00	6,083.00	16,154.00	6,092.23	44.50	178.30	-91.74	-169.70	-1,271.67	3,176.15	3,024.82	151.33	20.988		
7,900.00	6,083.00	16,154.00	6,092.23	45.93	178.30	-91.74	-169.70	-1,271.67	3,247.68	3,098.82	148.86	21.817		
8,000.00	6,083.00	16,154.00	6,092.23	47.38	178.30	-91.74	-169.70	-1,271.67	3,320.68	3,174.23	146.44	22.675		
8,100.00	6,083.00	16,154.00	6,092.23	48.85	178.30	-91.74	-169.70	-1,271.67	3,395.05	3,250.96	144.10	23.561		
8,200.00	6,083.00	16,154.00	6,092.23	50.34	178.30	-91.74	-169.70	-1,271.67	3,470.72	3,328.90	141.81	24.474		
8,300.00	6,083.00	16,154.00	6,092.23	51.85	178.30	-91.74	-169.70	-1,271.67	3,547.58	3,407.99	139.59	25.414		
8,400.00	6,083.00	16,154.00	6,092.23	53.38	178.30	-91.74	-169.70	-1,271.67	3,625.58	3,488.14	137.44	26.379		
8,500.00	6,083.00	16,154.00	6,092.23	54.92	178.30	-91.74	-169.70	-1,271.67	3,704.63	3,569.28	135.36	27.370		
8,600.00	6,083.00	16,154.00	6,092.23	56.48	178.30	-91.74	-169.70	-1,271.67	3,784.68	3,651.34	133.34	28.385		
8,700.00	6,083.00	16,154.00	6,092.23	58.04	178.30	-91.74	-169.70	-1,271.67	3,865.65	3,734.27	131.38	29.424		
8,800.00	6,083.00	16,154.00	6,092.23	59.63	178.30	-91.74	-169.70	-1,271.67	3,947.50	3,818.01	129.49	30.486		
8,900.00	6,083.00	16,154.00	6,092.23	61.22	178.30	-91.74	-169.70	-1,271.67	4,030.16	3,902.51	127.66	31.570		
9,000.00	6,083.00	16,154.00	6,092.23	62.82	178.30	-91.74	-169.70	-1,271.67	4,113.60	3,987.71	125.89	32.677		
9,100.00	6,083.00	16,154.00	6,092.23	64.43	178.30	-91.74	-169.70	-1,271.67	4,197.76	4,073.58	124.17	33.805		
9,200.00	6,083.00	16,154.00	6,092.23	66.05	178.30	-91.74	-169.70	-1,271.67	4,282.60	4,160.08	122.52	34.954		
9,300.00	6,083.00	16,154.00	6,092.23	67.67	178.30	-91.74	-169.70	-1,271.67	4,368.08	4,247.16	120.92	36.123		
9,400.00	6,083.00	16,154.00	6,092.23	69.31	178.30	-91.74	-169.70	-1,271.67	4,454.17	4,334.79	119.38	37.311		
9,500.00	6,083.00	16,154.00	6,092.23	70.95	178.30	-91.74	-169.70	-1,271.67	4,540.83	4,422.94	117.89	38.518		
9,600.00	6,083.00	16,154.00	6,092.23	72.60	178.30	-91.74	-169.70	-1,271.67	4,628.02	4,511.58	116.45	39.744		
9,700.00	6,083.00	16,154.00	6,092.23	74.25	178.30	-91.74	-169.70	-1,271.67	4,715.73	4,600.67	115.05	40.987		
9,800.00	6,083.00	16,154.00	6,092.23	75.91	178.30	-91.74	-169.70	-1,271.67	4,803.91	4,690.20	113.71	42.248		
9,900.00	6,083.00	16,154.00	6,092.23	77.57	178.30	-91.74	-169.70	-1,271.67	4,892.55	4,780.14	112.41	43.525		
10,000.00	6,083.00	16,154.00	6,092.23	79.24	178.30	-91.74	-169.70	-1,271.67	4,981.62	4,870.46	111.15	44.818		
10,100.00	6,083.00	16,154.00	6,092.23	80.91	178.30	-91.74	-169.70	-1,271.67	5,071.09	4,961.15	109.94	46.127		
10,200.00	6,083.00	16,154.00	6,092.23	82.59	178.30	-91.74	-169.70	-1,271.67	5,160.96	5,052.19	108.76	47.451		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	84.27	178.30	-91.74	-169.70	-1,271.67	5,251.18	5,143.55	107.63	48.789		
10,400.00	6,083.00	16,154.00	6,092.23	85.95	178.30	-91.74	-169.70	-1,271.67	5,341.76	5,235.23	106.53	50.141		
10,500.00	6,083.00	16,154.00	6,092.23	87.64	178.30	-91.74	-169.70	-1,271.67	5,432.67	5,327.19	105.48	51.507		
10,600.00	6,083.00	16,154.00	6,092.23	89.34	178.30	-91.74	-169.70	-1,271.67	5,523.89	5,419.44	104.45	52.885		
10,700.00	6,083.00	16,154.00	6,092.23	91.03	178.30	-91.74	-169.70	-1,271.67	5,615.41	5,511.95	103.46	54.276		
10,800.00	6,083.00	16,154.00	6,092.23	92.73	178.30	-91.74	-169.70	-1,271.67	5,707.22	5,604.72	102.50	55.679		
10,900.00	6,083.00	16,154.00	6,092.23	94.43	178.30	-91.74	-169.70	-1,271.67	5,799.29	5,697.72	101.57	57.094		
11,000.00	6,083.00	16,154.00	6,092.23	96.13	178.30	-91.74	-169.70	-1,271.67	5,891.63	5,790.95	100.68	58.520		
11,100.00	6,083.00	16,154.00	6,092.23	97.84	178.30	-91.74	-169.70	-1,271.67	5,984.21	5,884.40	99.81	59.956		
11,200.00	6,083.00	16,154.00	6,092.23	99.55	178.30	-91.74	-169.70	-1,271.67	6,077.03	5,978.06	98.97	61.403		
11,300.00	6,083.00	16,154.00	6,092.23	101.26	178.30	-91.74	-169.70	-1,271.67	6,170.07	6,071.91	98.16	62.859		
11,400.00	6,083.00	16,154.00	6,092.23	102.97	178.30	-91.74	-169.70	-1,271.67	6,263.32	6,165.95	97.37	64.325		
11,500.00	6,083.00	16,154.00	6,092.23	104.68	178.30	-91.74	-169.70	-1,271.67	6,356.78	6,260.18	96.61	65.799		
11,600.00	6,083.00	16,154.00	6,092.23	106.40	178.30	-91.74	-169.70	-1,271.67	6,450.44	6,354.57	95.87	67.283		
11,700.00	6,083.00	16,154.00	6,092.23	108.12	178.30	-91.74	-169.70	-1,271.67	6,544.28	6,449.13	95.16	68.774		
11,800.00	6,083.00	16,154.00	6,092.23	109.84	178.30	-91.74	-169.70	-1,271.67	6,638.31	6,543.84	94.46	70.273		
11,900.00	6,083.00	16,154.00	6,092.23	111.56	178.30	-91.74	-169.70	-1,271.67	6,732.50	6,638.71	93.79	71.779		
12,000.00	6,083.00	16,154.00	6,092.23	113.29	178.30	-91.74	-169.70	-1,271.67	6,826.87	6,733.72	93.15	73.293		
12,100.00	6,083.00	16,154.00	6,092.23	115.01	178.30	-91.74	-169.70	-1,271.67	6,921.39	6,828.87	92.52	74.813		
12,200.00	6,083.00	16,154.00	6,092.23	116.74	178.30	-91.74	-169.70	-1,271.67	7,016.06	6,924.15	91.91	76.339		
12,300.00	6,083.00	16,154.00	6,092.23	118.47	178.30	-91.74	-169.70	-1,271.67	7,110.87	7,019.56	91.32	77.871		
12,400.00	6,083.00	16,154.00	6,092.23	120.19	178.30	-91.74	-169.70	-1,271.67	7,205.83	7,115.09	90.74	79.409		
12,500.00	6,083.00	16,154.00	6,092.23	121.93	178.30	-91.74	-169.70	-1,271.67	7,300.92	7,210.74	90.19	80.952		
12,600.00	6,083.00	16,154.00	6,092.23	123.66	178.30	-91.74	-169.70	-1,271.67	7,396.15	7,306.50	89.65	82.500		
12,700.00	6,083.00	16,154.00	6,092.23	125.39	178.30	-91.74	-169.70	-1,271.67	7,491.49	7,402.36	89.13	84.053		
12,800.00	6,083.00	16,154.00	6,092.23	127.12	178.30	-91.74	-169.70	-1,271.67	7,586.96	7,498.34	88.62	85.610		
12,900.00	6,083.00	16,154.00	6,092.23	128.86	178.30	-91.74	-169.70	-1,271.67	7,682.54	7,594.41	88.13	87.170		
13,000.00	6,083.00	16,154.00	6,092.23	130.60	178.30	-91.74	-169.70	-1,271.67	7,778.23	7,690.58	87.66	88.735		
13,100.00	6,083.00	16,154.00	6,092.23	132.33	178.30	-91.74	-169.70	-1,271.67	7,874.03	7,786.84	87.20	90.303		
13,200.00	6,083.00	16,154.00	6,092.23	134.07	178.30	-91.74	-169.70	-1,271.67	7,969.93	7,883.19	86.75	91.874		
13,300.00	6,083.00	16,154.00	6,092.23	135.81	178.30	-91.74	-169.70	-1,271.67	8,065.94	7,979.62	86.31	93.448		
13,400.00	6,083.00	16,154.00	6,092.23	137.55	178.30	-91.74	-169.70	-1,271.67	8,162.03	8,076.14	85.89	95.025		
13,500.00	6,083.00	16,154.00	6,092.23	139.29	178.30	-91.74	-169.70	-1,271.67	8,258.23	8,172.74	85.49	96.604		
13,600.00	6,083.00	16,154.00	6,092.23	141.03	178.30	-91.74	-169.70	-1,271.67	8,354.51	8,269.42	85.09	98.185		
13,700.00	6,083.00	16,154.00	6,092.23	142.78	178.30	-91.74	-169.70	-1,271.67	8,450.87	8,366.17	84.71	99.768		
13,800.00	6,083.00	16,154.00	6,092.23	144.52	178.30	-91.74	-169.70	-1,271.67	8,547.32	8,462.99	84.33	101.352		
13,900.00	6,083.00	16,154.00	6,092.23	146.26	178.30	-91.74	-169.70	-1,271.67	8,643.85	8,559.88	83.97	102.938		
14,000.00	6,083.00	16,154.00	6,092.23	148.01	178.30	-91.74	-169.70	-1,271.67	8,740.46	8,656.84	83.62	104.525		
14,100.00	6,083.00	16,154.00	6,092.23	149.75	178.30	-91.74	-169.70	-1,271.67	8,837.15	8,753.87	83.28	106.113		
14,200.00	6,083.00	16,154.00	6,092.23	151.50	178.30	-91.74	-169.70	-1,271.67	8,933.90	8,850.95	82.95	107.701		
14,300.00	6,083.00	16,154.00	6,092.23	153.25	178.30	-91.74	-169.70	-1,271.67	9,030.73	8,948.10	82.63	109.290		
14,400.00	6,083.00	16,154.00	6,092.23	154.99	178.30	-91.74	-169.70	-1,271.67	9,127.63	9,045.31	82.32	110.879		
14,500.00	6,083.00	16,154.00	6,092.23	156.74	178.30	-91.74	-169.70	-1,271.67	9,224.59	9,142.57	82.02	112.469		
14,600.00	6,083.00	16,154.00	6,092.23	158.49	178.30	-91.74	-169.70	-1,271.67	9,321.62	9,239.89	81.73	114.058		
14,700.00	6,083.00	16,154.00	6,092.23	160.24	178.30	-91.74	-169.70	-1,271.67	9,418.71	9,337.26	81.44	115.647		
14,800.00	6,083.00	16,154.00	6,092.23	161.99	178.30	-91.74	-169.70	-1,271.67	9,515.86	9,434.69	81.17	117.236		
14,900.00	6,083.00	16,154.00	6,092.23	163.74	178.30	-91.74	-169.70	-1,271.67	9,613.06	9,532.16	80.90	118.823		
15,000.00	6,083.00	16,154.00	6,092.23	165.49	178.30	-91.74	-169.70	-1,271.67	9,710.33	9,629.69	80.64	120.410		
15,100.00	6,083.00	16,154.00	6,092.23	167.24	178.30	-91.74	-169.70	-1,271.67	9,807.65	9,727.26	80.39	121.996		
15,200.00	6,083.00	16,154.00	6,092.23	168.99	178.30	-91.74	-169.70	-1,271.67	9,905.02	9,824.87	80.15	123.581		
15,300.00	6,083.00	16,154.00	6,092.23	170.74	178.30	-91.74	-169.70	-1,271.67	10,002.45	9,922.53	79.91	125.165		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	-92.46	-139.89	-3,261.41	6,975.86					
100.00	100.00	16,242.00	6,103.92	0.27	179.17	-92.46	-139.89	-3,261.41	6,887.64	6,776.90	110.75	62.192		
200.00	199.98	16,242.00	6,103.92	0.62	179.17	-170.74	-139.89	-3,261.41	6,800.60	6,689.18	111.41	61.039		
300.00	299.84	16,242.00	6,103.92	0.99	179.17	-171.24	-139.89	-3,261.41	6,715.69	6,603.55	112.14	59.885		
400.00	399.45	16,242.00	6,103.92	1.36	179.17	-171.68	-139.89	-3,261.41	6,633.12	6,520.15	112.96	58.720		
500.00	498.70	16,242.00	6,103.92	1.76	179.17	-172.06	-139.89	-3,261.41	6,553.06	6,439.18	113.88	57.546		
600.00	597.47	16,242.00	6,103.92	2.18	179.17	-172.36	-139.89	-3,261.41	6,475.70	6,360.83	114.87	56.375		
700.00	695.99	16,242.00	6,103.92	2.62	179.17	-172.36	-139.89	-3,261.41	6,399.93	6,283.94	115.99	55.174		
800.00	794.52	16,242.00	6,103.92	3.06	179.17	-172.36	-139.89	-3,261.41	6,324.84	6,207.67	117.17	53.980		
900.00	893.05	16,242.00	6,103.92	3.51	179.17	-172.36	-139.89	-3,261.41	6,250.44	6,132.05	118.39	52.793		
1,000.00	991.57	16,242.00	6,103.92	3.97	179.17	-172.36	-139.89	-3,261.41	6,176.77	6,057.10	119.66	51.618		
1,100.00	1,090.10	16,242.00	6,103.92	4.42	179.17	-172.36	-139.89	-3,261.41	6,103.84	5,982.87	120.98	50.455		
1,200.00	1,188.62	16,242.00	6,103.92	4.88	179.17	-172.36	-139.89	-3,261.41	6,031.69	5,909.36	122.33	49.306		
1,300.00	1,287.15	16,242.00	6,103.92	5.34	179.17	-172.36	-139.89	-3,261.41	5,960.35	5,836.62	123.73	48.173		
1,400.00	1,385.68	16,242.00	6,103.92	5.79	179.17	-172.36	-139.89	-3,261.41	5,889.84	5,764.67	125.16	47.057		
1,500.00	1,484.20	16,242.00	6,103.92	6.25	179.17	-172.36	-139.89	-3,261.41	5,820.19	5,693.55	126.64	45.959		
1,600.00	1,582.73	16,242.00	6,103.92	6.71	179.17	-172.36	-139.89	-3,261.41	5,751.44	5,623.29	128.15	44.879		
1,700.00	1,681.26	16,242.00	6,103.92	7.17	179.17	-172.36	-139.89	-3,261.41	5,683.62	5,553.91	129.70	43.820		
1,800.00	1,779.78	16,242.00	6,103.92	7.63	179.17	-172.36	-139.89	-3,261.41	5,616.76	5,485.46	131.29	42.780		
1,900.00	1,878.31	16,242.00	6,103.92	8.09	179.17	-172.36	-139.89	-3,261.41	5,550.89	5,417.97	132.92	41.762		
2,000.00	1,976.83	16,242.00	6,103.92	8.55	179.17	-172.36	-139.89	-3,261.41	5,486.06	5,351.48	134.58	40.765		
2,100.00	2,075.36	16,242.00	6,103.92	9.01	179.17	-172.36	-139.89	-3,261.41	5,422.29	5,286.02	136.27	39.790		
2,200.00	2,173.89	16,242.00	6,103.92	9.47	179.17	-172.36	-139.89	-3,261.41	5,359.64	5,221.63	138.00	38.838		
2,300.00	2,272.41	16,242.00	6,103.92	9.93	179.17	-172.36	-139.89	-3,261.41	5,298.12	5,158.36	139.76	37.908		
2,400.00	2,370.94	16,242.00	6,103.92	10.40	179.17	-172.36	-139.89	-3,261.41	5,237.80	5,096.25	141.55	37.002		
2,500.00	2,469.47	16,242.00	6,103.92	10.86	179.17	-172.36	-139.89	-3,261.41	5,178.71	5,035.33	143.38	36.120		
2,600.00	2,567.99	16,242.00	6,103.92	11.32	179.17	-172.36	-139.89	-3,261.41	5,120.88	4,975.65	145.23	35.261		
2,700.00	2,666.52	16,242.00	6,103.92	11.78	179.17	-172.36	-139.89	-3,261.41	5,064.37	4,917.27	147.11	34.427		
2,800.00	2,765.05	16,242.00	6,103.92	12.24	179.17	-172.36	-139.89	-3,261.41	5,009.22	4,860.21	149.01	33.617		
2,900.00	2,863.57	16,242.00	6,103.92	12.70	179.17	-172.36	-139.89	-3,261.41	4,955.48	4,804.54	150.93	32.832		
3,000.00	2,962.10	16,242.00	6,103.92	13.16	179.17	-172.36	-139.89	-3,261.41	4,903.18	4,750.30	152.88	32.073		
3,100.00	3,060.62	16,242.00	6,103.92	13.63	179.17	-172.36	-139.89	-3,261.41	4,852.38	4,697.54	154.84	31.338		
3,200.00	3,159.15	16,242.00	6,103.92	14.09	179.17	-172.36	-139.89	-3,261.41	4,803.13	4,646.31	156.82	30.629		
3,300.00	3,257.68	16,242.00	6,103.92	14.55	179.17	-172.36	-139.89	-3,261.41	4,755.47	4,596.66	158.80	29.945		
3,400.00	3,356.20	16,242.00	6,103.92	15.01	179.17	-172.36	-139.89	-3,261.41	4,709.45	4,548.65	160.80	29.287		
3,500.00	3,454.73	16,242.00	6,103.92	15.47	179.17	-172.36	-139.89	-3,261.41	4,665.12	4,502.32	162.80	28.655		
3,600.00	3,553.26	16,242.00	6,103.92	15.93	179.17	-172.36	-139.89	-3,261.41	4,622.53	4,457.73	164.80	28.049		
3,700.00	3,651.78	16,242.00	6,103.92	16.40	179.17	-172.36	-139.89	-3,261.41	4,581.73	4,414.93	166.80	27.468		
3,800.00	3,750.31	16,242.00	6,103.92	16.86	179.17	-172.36	-139.89	-3,261.41	4,542.76	4,373.97	168.79	26.914		
3,900.00	3,848.83	16,242.00	6,103.92	17.32	179.17	-172.36	-139.89	-3,261.41	4,505.67	4,334.91	170.77	26.385		
4,000.00	3,947.36	16,242.00	6,103.92	17.78	179.17	-172.36	-139.89	-3,261.41	4,470.52	4,297.79	172.73	25.882		
4,100.00	4,045.89	16,242.00	6,103.92	18.24	179.17	-172.36	-139.89	-3,261.41	4,437.34	4,262.67	174.67	25.404		
4,200.00	4,144.41	16,242.00	6,103.92	18.70	179.17	-172.36	-139.89	-3,261.41	4,406.18	4,229.60	176.58	24.953		
4,300.00	4,242.94	16,242.00	6,103.92	19.17	179.17	-172.36	-139.89	-3,261.41	4,377.08	4,198.62	178.46	24.527		
4,400.00	4,341.47	16,242.00	6,103.92	19.63	179.17	-172.36	-139.89	-3,261.41	4,350.09	4,169.79	180.30	24.127		
4,500.00	4,439.99	16,242.00	6,103.92	20.09	179.17	-172.36	-139.89	-3,261.41	4,325.24	4,143.14	182.10	23.752		
4,600.00	4,538.52	16,242.00	6,103.92	20.55	179.17	-172.36	-139.89	-3,261.41	4,302.57	4,118.72	183.85	23.402		
4,700.00	4,637.04	16,242.00	6,103.92	21.01	179.17	-172.36	-139.89	-3,261.41	4,282.12	4,096.57	185.55	23.078		
4,800.00	4,735.57	16,242.00	6,103.92	21.48	179.17	-172.36	-139.89	-3,261.41	4,263.92	4,076.72	187.20	22.778		
4,900.00	4,834.10	16,242.00	6,103.92	21.94	179.17	-172.36	-139.89	-3,261.41	4,247.99	4,059.22	188.78	22.503		
5,000.00	4,932.62	16,242.00	6,103.92	22.40	179.17	-172.36	-139.89	-3,261.41	4,234.37	4,044.08	190.29	22.252		
5,100.00	5,031.15	16,242.00	6,103.92	22.86	179.17	-172.36	-139.89	-3,261.41	4,223.07	4,031.34	191.73	22.026		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	5,129.68	16,242.00	6,103.92	23.32	179.17	-172.36	-139.89	-3,261.41	4,214.11	4,021.01	193.10	21.823		
5,300.00	5,228.20	16,242.00	6,103.92	23.79	179.17	-172.36	-139.89	-3,261.41	4,207.52	4,013.12	194.39	21.644		
5,400.00	5,326.73	16,242.00	6,103.92	24.25	179.17	-172.36	-139.89	-3,261.41	4,203.29	4,007.69	195.60	21.489		
5,500.00	5,425.25	16,242.00	6,103.92	24.71	179.17	-172.36	-139.89	-3,261.41	4,201.44	4,004.71	196.72	21.357		
5,527.82	5,452.66	16,242.00	6,103.92	24.84	179.17	-172.36	-139.89	-3,261.41	4,201.34	4,004.32	197.02	21.324 CC		
5,600.00	5,523.78	16,242.00	6,103.92	25.17	179.17	-172.36	-139.89	-3,261.41	4,201.96	4,004.20	197.76	21.248 ES		
5,700.00	5,621.78	16,242.00	6,103.92	25.64	179.17	-137.09	-139.89	-3,261.41	4,205.37	4,006.65	198.72	21.162		
5,800.00	5,716.63	16,242.00	6,103.92	26.12	179.17	-119.41	-139.89	-3,261.41	4,212.45	4,012.85	199.60	21.105		
5,900.00	5,805.45	16,242.00	6,103.92	26.60	179.17	-111.03	-139.89	-3,261.41	4,222.99	4,022.60	200.38	21.075		
6,000.00	5,885.54	16,242.00	6,103.92	27.08	179.17	-105.83	-139.89	-3,261.41	4,236.63	4,035.57	201.06	21.071 SF		
6,100.00	5,954.47	16,242.00	6,103.92	27.57	179.17	-101.95	-139.89	-3,261.41	4,252.95	4,051.32	201.63	21.093		
6,200.00	6,010.13	16,242.00	6,103.92	28.08	179.17	-98.71	-139.89	-3,261.41	4,271.42	4,069.33	202.09	21.136		
6,300.00	6,050.85	16,242.00	6,103.92	28.62	179.17	-95.84	-139.89	-3,261.41	4,291.45	4,089.01	202.44	21.198		
6,400.00	6,075.38	16,242.00	6,103.92	29.22	179.17	-93.27	-139.89	-3,261.41	4,312.41	4,109.72	202.69	21.276		
6,500.00	6,083.00	16,242.00	6,103.92	29.87	179.17	-91.11	-139.89	-3,261.41	4,333.67	4,130.82	202.84	21.365		
6,600.00	6,083.00	16,242.00	6,103.92	30.60	179.17	-91.11	-139.89	-3,261.41	4,356.09	4,153.15	202.94	21.464		
6,700.00	6,083.00	16,242.00	6,103.92	31.42	179.17	-91.11	-139.89	-3,261.41	4,380.69	4,177.67	203.02	21.578		
6,800.00	6,083.00	16,242.00	6,103.92	32.32	179.17	-91.11	-139.89	-3,261.41	4,407.41	4,204.35	203.06	21.705		
6,900.00	6,083.00	16,242.00	6,103.92	33.30	179.17	-91.11	-139.89	-3,261.41	4,436.23	4,233.17	203.06	21.847		
7,000.00	6,083.00	16,242.00	6,103.92	34.35	179.17	-91.11	-139.89	-3,261.41	4,467.10	4,264.08	203.02	22.003		
7,100.00	6,083.00	16,242.00	6,103.92	35.45	179.17	-91.11	-139.89	-3,261.41	4,499.98	4,297.04	202.94	22.174		
7,200.00	6,083.00	16,242.00	6,103.92	36.62	179.17	-91.11	-139.89	-3,261.41	4,534.83	4,332.01	202.82	22.358		
7,300.00	6,083.00	16,242.00	6,103.92	37.83	179.17	-91.11	-139.89	-3,261.41	4,571.61	4,368.95	202.66	22.558		
7,400.00	6,083.00	16,242.00	6,103.92	39.09	179.17	-91.11	-139.89	-3,261.41	4,610.25	4,407.80	202.45	22.772		
7,500.00	6,083.00	16,242.00	6,103.92	40.39	179.17	-91.11	-139.89	-3,261.41	4,650.73	4,448.53	202.20	23.000		
7,600.00	6,083.00	16,242.00	6,103.92	41.73	179.17	-91.11	-139.89	-3,261.41	4,692.99	4,491.08	201.91	23.243		
7,700.00	6,083.00	16,242.00	6,103.92	43.10	179.17	-91.11	-139.89	-3,261.41	4,736.99	4,535.41	201.57	23.500		
7,800.00	6,083.00	16,242.00	6,103.92	44.50	179.17	-91.11	-139.89	-3,261.41	4,782.67	4,581.47	201.20	23.771		
7,900.00	6,083.00	16,242.00	6,103.92	45.93	179.17	-91.11	-139.89	-3,261.41	4,829.99	4,629.20	200.78	24.056		
8,000.00	6,083.00	16,242.00	6,103.92	47.38	179.17	-91.11	-139.89	-3,261.41	4,878.90	4,678.57	200.33	24.354		
8,100.00	6,083.00	16,242.00	6,103.92	48.85	179.17	-91.11	-139.89	-3,261.41	4,929.35	4,729.51	199.84	24.666		
8,200.00	6,083.00	16,242.00	6,103.92	50.34	179.17	-91.11	-139.89	-3,261.41	4,981.30	4,781.98	199.32	24.992		
8,300.00	6,083.00	16,242.00	6,103.92	51.85	179.17	-91.11	-139.89	-3,261.41	5,034.70	4,835.94	198.76	25.330		
8,400.00	6,083.00	16,242.00	6,103.92	53.38	179.17	-91.11	-139.89	-3,261.41	5,089.51	4,891.32	198.18	25.681		
8,500.00	6,083.00	16,242.00	6,103.92	54.92	179.17	-91.11	-139.89	-3,261.41	5,145.67	4,948.10	197.57	26.044		
8,600.00	6,083.00	16,242.00	6,103.92	56.48	179.17	-91.11	-139.89	-3,261.41	5,203.15	5,006.21	196.94	26.420		
8,700.00	6,083.00	16,242.00	6,103.92	58.04	179.17	-91.11	-139.89	-3,261.41	5,261.91	5,065.63	196.28	26.808		
8,800.00	6,083.00	16,242.00	6,103.92	59.63	179.17	-91.11	-139.89	-3,261.41	5,321.89	5,126.29	195.60	27.207		
8,900.00	6,083.00	16,242.00	6,103.92	61.22	179.17	-91.11	-139.89	-3,261.41	5,383.07	5,188.16	194.91	27.619		
9,000.00	6,083.00	16,242.00	6,103.92	62.82	179.17	-91.11	-139.89	-3,261.41	5,445.39	5,251.19	194.20	28.041		
9,100.00	6,083.00	16,242.00	6,103.92	64.43	179.17	-91.11	-139.89	-3,261.41	5,508.82	5,315.35	193.47	28.474		
9,200.00	6,083.00	16,242.00	6,103.92	66.05	179.17	-91.11	-139.89	-3,261.41	5,573.33	5,380.60	192.73	28.918		
9,300.00	6,083.00	16,242.00	6,103.92	67.67	179.17	-91.11	-139.89	-3,261.41	5,638.87	5,446.89	191.98	29.373		
9,400.00	6,083.00	16,242.00	6,103.92	69.31	179.17	-91.11	-139.89	-3,261.41	5,705.41	5,514.20	191.22	29.838		
9,500.00	6,083.00	16,242.00	6,103.92	70.95	179.17	-91.11	-139.89	-3,261.41	5,772.92	5,582.47	190.45	30.313		
9,600.00	6,083.00	16,242.00	6,103.92	72.60	179.17	-91.11	-139.89	-3,261.41	5,841.36	5,651.69	189.67	30.797		
9,700.00	6,083.00	16,242.00	6,103.92	74.25	179.17	-91.11	-139.89	-3,261.41	5,910.69	5,721.80	188.89	31.292		
9,800.00	6,083.00	16,242.00	6,103.92	75.91	179.17	-91.11	-139.89	-3,261.41	5,980.90	5,792.79	188.11	31.795		
9,900.00	6,083.00	16,242.00	6,103.92	77.57	179.17	-91.11	-139.89	-3,261.41	6,051.94	5,864.62	187.32	32.308		
10,000.00	6,083.00	16,242.00	6,103.92	79.24	179.17	-91.11	-139.89	-3,261.41	6,123.80	5,937.27	186.53	32.830		
10,100.00	6,083.00	16,242.00	6,103.92	80.91	179.17	-91.11	-139.89	-3,261.41	6,196.43	6,010.69	185.74	33.360		
10,200.00	6,083.00	16,242.00	6,103.92	82.59	179.17	-91.11	-139.89	-3,261.41	6,269.82	6,084.86	184.95	33.899		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	84.27	179.17	-91.11	-139.89	-3,261.41	6,343.93	6,159.77	184.17	34.447		
10,400.00	6,083.00	16,242.00	6,103.92	85.95	179.17	-91.11	-139.89	-3,261.41	6,418.75	6,235.37	183.38	35.002		
10,500.00	6,083.00	16,242.00	6,103.92	87.64	179.17	-91.11	-139.89	-3,261.41	6,494.24	6,311.64	182.60	35.565		
10,600.00	6,083.00	16,242.00	6,103.92	89.34	179.17	-91.11	-139.89	-3,261.41	6,570.39	6,388.57	181.82	36.136		
10,700.00	6,083.00	16,242.00	6,103.92	91.03	179.17	-91.11	-139.89	-3,261.41	6,647.18	6,466.13	181.05	36.715		
10,800.00	6,083.00	16,242.00	6,103.92	92.73	179.17	-91.11	-139.89	-3,261.41	6,724.57	6,544.29	180.28	37.301		
10,900.00	6,083.00	16,242.00	6,103.92	94.43	179.17	-91.11	-139.89	-3,261.41	6,802.55	6,623.03	179.52	37.894		
11,000.00	6,083.00	16,242.00	6,103.92	96.13	179.17	-91.11	-139.89	-3,261.41	6,881.10	6,702.34	178.76	38.494		
11,100.00	6,083.00	16,242.00	6,103.92	97.84	179.17	-91.11	-139.89	-3,261.41	6,960.20	6,782.19	178.01	39.101		
11,200.00	6,083.00	16,242.00	6,103.92	99.55	179.17	-91.11	-139.89	-3,261.41	7,039.83	6,862.57	177.26	39.714		
11,300.00	6,083.00	16,242.00	6,103.92	101.26	179.17	-91.11	-139.89	-3,261.41	7,119.98	6,943.46	176.52	40.335		
11,400.00	6,083.00	16,242.00	6,103.92	102.97	179.17	-91.11	-139.89	-3,261.41	7,200.62	7,024.83	175.79	40.961		
11,500.00	6,083.00	16,242.00	6,103.92	104.68	179.17	-91.11	-139.89	-3,261.41	7,281.75	7,106.68	175.07	41.594		
11,600.00	6,083.00	16,242.00	6,103.92	106.40	179.17	-91.11	-139.89	-3,261.41	7,363.34	7,188.98	174.35	42.233		
11,700.00	6,083.00	16,242.00	6,103.92	108.12	179.17	-91.11	-139.89	-3,261.41	7,445.37	7,271.73	173.64	42.877		
11,800.00	6,083.00	16,242.00	6,103.92	109.84	179.17	-91.11	-139.89	-3,261.41	7,527.84	7,354.90	172.94	43.528		
11,900.00	6,083.00	16,242.00	6,103.92	111.56	179.17	-91.11	-139.89	-3,261.41	7,610.74	7,438.48	172.25	44.184		
12,000.00	6,083.00	16,242.00	6,103.92	113.29	179.17	-91.11	-139.89	-3,261.41	7,694.03	7,522.47	171.57	44.845		
12,100.00	6,083.00	16,242.00	6,103.92	115.01	179.17	-91.11	-139.89	-3,261.41	7,777.73	7,606.83	170.89	45.512		
12,200.00	6,083.00	16,242.00	6,103.92	116.74	179.17	-91.11	-139.89	-3,261.41	7,861.80	7,691.57	170.23	46.184		
12,300.00	6,083.00	16,242.00	6,103.92	118.47	179.17	-91.11	-139.89	-3,261.41	7,946.24	7,776.67	169.57	46.862		
12,400.00	6,083.00	16,242.00	6,103.92	120.19	179.17	-91.11	-139.89	-3,261.41	8,031.04	7,862.12	168.92	47.544		
12,500.00	6,083.00	16,242.00	6,103.92	121.93	179.17	-91.11	-139.89	-3,261.41	8,116.19	7,947.91	168.28	48.231		
12,600.00	6,083.00	16,242.00	6,103.92	123.66	179.17	-91.11	-139.89	-3,261.41	8,201.67	8,034.02	167.65	48.923		
12,700.00	6,083.00	16,242.00	6,103.92	125.39	179.17	-91.11	-139.89	-3,261.41	8,287.47	8,120.45	167.02	49.619		
12,800.00	6,083.00	16,242.00	6,103.92	127.12	179.17	-91.11	-139.89	-3,261.41	8,373.59	8,207.19	166.41	50.320		
12,900.00	6,083.00	16,242.00	6,103.92	128.86	179.17	-91.11	-139.89	-3,261.41	8,460.02	8,294.22	165.80	51.025		
13,000.00	6,083.00	16,242.00	6,103.92	130.60	179.17	-91.11	-139.89	-3,261.41	8,546.74	8,381.54	165.20	51.735		
13,100.00	6,083.00	16,242.00	6,103.92	132.33	179.17	-91.11	-139.89	-3,261.41	8,633.75	8,469.14	164.61	52.449		
13,200.00	6,083.00	16,242.00	6,103.92	134.07	179.17	-91.11	-139.89	-3,261.41	8,721.04	8,557.01	164.03	53.166		
13,300.00	6,083.00	16,242.00	6,103.92	135.81	179.17	-91.11	-139.89	-3,261.41	8,808.60	8,645.14	163.46	53.888		
13,400.00	6,083.00	16,242.00	6,103.92	137.55	179.17	-91.11	-139.89	-3,261.41	8,896.42	8,733.52	162.90	54.614		
13,500.00	6,083.00	16,242.00	6,103.92	139.29	179.17	-91.11	-139.89	-3,261.41	8,984.49	8,822.15	162.34	55.343		
13,600.00	6,083.00	16,242.00	6,103.92	141.03	179.17	-91.11	-139.89	-3,261.41	9,072.82	8,911.02	161.79	56.077		
13,700.00	6,083.00	16,242.00	6,103.92	142.78	179.17	-91.11	-139.89	-3,261.41	9,161.38	9,000.12	161.25	56.813		
13,800.00	6,083.00	16,242.00	6,103.92	144.52	179.17	-91.11	-139.89	-3,261.41	9,250.17	9,089.45	160.72	57.554		
13,900.00	6,083.00	16,242.00	6,103.92	146.26	179.17	-91.11	-139.89	-3,261.41	9,339.20	9,179.00	160.20	58.297		
14,000.00	6,083.00	16,242.00	6,103.92	148.01	179.17	-91.11	-139.89	-3,261.41	9,428.44	9,268.75	159.68	59.044		
14,100.00	6,083.00	16,242.00	6,103.92	149.75	179.17	-91.11	-139.89	-3,261.41	9,517.89	9,358.72	159.18	59.795		
14,200.00	6,083.00	16,242.00	6,103.92	151.50	179.17	-91.11	-139.89	-3,261.41	9,607.56	9,448.88	158.68	60.548		
14,300.00	6,083.00	16,242.00	6,103.92	153.25	179.17	-91.11	-139.89	-3,261.41	9,697.42	9,539.24	158.18	61.305		
14,400.00	6,083.00	16,242.00	6,103.92	154.99	179.17	-91.11	-139.89	-3,261.41	9,787.49	9,629.79	157.70	62.064		
14,500.00	6,083.00	16,242.00	6,103.92	156.74	179.17	-91.11	-139.89	-3,261.41	9,877.74	9,720.52	157.22	62.827		
14,600.00	6,083.00	16,242.00	6,103.92	158.49	179.17	-91.11	-139.89	-3,261.41	9,968.18	9,811.43	156.75	63.592		
14,700.00	6,083.00	16,242.00	6,103.92	160.24	179.17	-91.11	-139.89	-3,261.41	10,058.80	9,902.51	156.29	64.360		
14,800.00	6,083.00	16,242.00	6,103.92	161.99	179.17	-91.11	-139.89	-3,261.41	10,149.60	9,993.76	155.83	65.131		

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	-95.56	-195.09	-2,004.76	6,474.08					
100.00	100.00	16,091.00	6,093.77	0.27	178.75	-95.56	-195.09	-2,004.76	6,379.12	6,282.12	97.00	65.764		
200.00	199.98	16,091.00	6,093.77	0.62	178.75	-173.88	-195.09	-2,004.76	6,284.89	6,187.46	97.43	64.510		
300.00	299.84	16,091.00	6,093.77	0.99	178.75	-174.39	-195.09	-2,004.76	6,192.08	6,094.17	97.91	63.244		
400.00	399.45	16,091.00	6,093.77	1.36	178.75	-174.81	-195.09	-2,004.76	6,100.88	6,002.42	98.47	61.959		
500.00	498.70	16,091.00	6,093.77	1.76	178.75	-175.16	-195.09	-2,004.76	6,011.48	5,912.37	99.11	60.656		
600.00	597.47	16,091.00	6,093.77	2.18	178.75	-175.43	-195.09	-2,004.76	5,924.06	5,824.23	99.82	59.344		
700.00	695.99	16,091.00	6,093.77	2.62	178.75	-175.43	-195.09	-2,004.76	5,837.78	5,737.12	100.66	57.995		
800.00	794.52	16,091.00	6,093.77	3.06	178.75	-175.43	-195.09	-2,004.76	5,751.95	5,650.40	101.54	56.645		
900.00	893.05	16,091.00	6,093.77	3.51	178.75	-175.43	-195.09	-2,004.76	5,666.58	5,564.10	102.48	55.295		
1,000.00	991.57	16,091.00	6,093.77	3.97	178.75	-175.43	-195.09	-2,004.76	5,581.70	5,478.24	103.46	53.948		
1,100.00	1,090.10	16,091.00	6,093.77	4.42	178.75	-175.43	-195.09	-2,004.76	5,497.33	5,392.83	104.50	52.607		
1,200.00	1,188.62	16,091.00	6,093.77	4.88	178.75	-175.43	-195.09	-2,004.76	5,413.49	5,307.90	105.58	51.272		
1,300.00	1,287.15	16,091.00	6,093.77	5.34	178.75	-175.43	-195.09	-2,004.76	5,330.20	5,223.48	106.72	49.945		
1,400.00	1,385.68	16,091.00	6,093.77	5.79	178.75	-175.43	-195.09	-2,004.76	5,247.50	5,139.60	107.91	48.629		
1,500.00	1,484.20	16,091.00	6,093.77	6.25	178.75	-175.43	-195.09	-2,004.76	5,165.42	5,056.27	109.15	47.324		
1,600.00	1,582.73	16,091.00	6,093.77	6.71	178.75	-175.43	-195.09	-2,004.76	5,083.97	4,973.53	110.44	46.033		
1,700.00	1,681.26	16,091.00	6,093.77	7.17	178.75	-175.43	-195.09	-2,004.76	5,003.20	4,891.41	111.79	44.756		
1,800.00	1,779.78	16,091.00	6,093.77	7.63	178.75	-175.43	-195.09	-2,004.76	4,923.13	4,809.94	113.19	43.494		
1,900.00	1,878.31	16,091.00	6,093.77	8.09	178.75	-175.43	-195.09	-2,004.76	4,843.81	4,729.16	114.65	42.249		
2,000.00	1,976.83	16,091.00	6,093.77	8.55	178.75	-175.43	-195.09	-2,004.76	4,765.26	4,649.09	116.17	41.021		
2,100.00	2,075.36	16,091.00	6,093.77	9.01	178.75	-175.43	-195.09	-2,004.76	4,687.53	4,569.79	117.74	39.813		
2,200.00	2,173.89	16,091.00	6,093.77	9.47	178.75	-175.43	-195.09	-2,004.76	4,610.66	4,491.28	119.37	38.624		
2,300.00	2,272.41	16,091.00	6,093.77	9.93	178.75	-175.43	-195.09	-2,004.76	4,534.69	4,413.62	121.07	37.456		
2,400.00	2,370.94	16,091.00	6,093.77	10.40	178.75	-175.43	-195.09	-2,004.76	4,459.67	4,336.84	122.82	36.310		
2,500.00	2,469.47	16,091.00	6,093.77	10.86	178.75	-175.43	-195.09	-2,004.76	4,385.64	4,261.00	124.64	35.187		
2,600.00	2,567.99	16,091.00	6,093.77	11.32	178.75	-175.43	-195.09	-2,004.76	4,312.66	4,186.15	126.52	34.087		
2,700.00	2,666.52	16,091.00	6,093.77	11.78	178.75	-175.43	-195.09	-2,004.76	4,240.79	4,112.33	128.46	33.012		
2,800.00	2,765.05	16,091.00	6,093.77	12.24	178.75	-175.43	-195.09	-2,004.76	4,170.08	4,039.61	130.47	31.963		
2,900.00	2,863.57	16,091.00	6,093.77	12.70	178.75	-175.43	-195.09	-2,004.76	4,100.58	3,968.05	132.54	30.939		
3,000.00	2,962.10	16,091.00	6,093.77	13.16	178.75	-175.43	-195.09	-2,004.76	4,032.37	3,897.70	134.67	29.943		
3,100.00	3,060.62	16,091.00	6,093.77	13.63	178.75	-175.43	-195.09	-2,004.76	3,965.51	3,828.64	136.86	28.975		
3,200.00	3,159.15	16,091.00	6,093.77	14.09	178.75	-175.43	-195.09	-2,004.76	3,900.06	3,760.95	139.11	28.035		
3,300.00	3,257.68	16,091.00	6,093.77	14.55	178.75	-175.43	-195.09	-2,004.76	3,836.10	3,694.68	141.43	27.124		
3,400.00	3,356.20	16,091.00	6,093.77	15.01	178.75	-175.43	-195.09	-2,004.76	3,773.72	3,629.92	143.79	26.244		
3,500.00	3,454.73	16,091.00	6,093.77	15.47	178.75	-175.43	-195.09	-2,004.76	3,712.97	3,566.76	146.21	25.394		
3,600.00	3,553.26	16,091.00	6,093.77	15.93	178.75	-175.43	-195.09	-2,004.76	3,653.96	3,505.27	148.68	24.575		
3,700.00	3,651.78	16,091.00	6,093.77	16.40	178.75	-175.43	-195.09	-2,004.76	3,596.75	3,445.55	151.20	23.788		
3,800.00	3,750.31	16,091.00	6,093.77	16.86	178.75	-175.43	-195.09	-2,004.76	3,541.45	3,387.70	153.75	23.034		
3,900.00	3,848.83	16,091.00	6,093.77	17.32	178.75	-175.43	-195.09	-2,004.76	3,488.13	3,331.80	156.34	22.312		
4,000.00	3,947.36	16,091.00	6,093.77	17.78	178.75	-175.43	-195.09	-2,004.76	3,436.91	3,277.96	158.95	21.623		
4,100.00	4,045.89	16,091.00	6,093.77	18.24	178.75	-175.43	-195.09	-2,004.76	3,387.85	3,226.28	161.58	20.967		
4,200.00	4,144.41	16,091.00	6,093.77	18.70	178.75	-175.43	-195.09	-2,004.76	3,341.07	3,176.86	164.21	20.346		
4,300.00	4,242.94	16,091.00	6,093.77	19.17	178.75	-175.43	-195.09	-2,004.76	3,296.67	3,129.82	166.85	19.758		
4,400.00	4,341.47	16,091.00	6,093.77	19.63	178.75	-175.43	-195.09	-2,004.76	3,254.73	3,085.25	169.47	19.205		
4,500.00	4,439.99	16,091.00	6,093.77	20.09	178.75	-175.43	-195.09	-2,004.76	3,215.35	3,043.27	172.07	18.686		
4,600.00	4,538.52	16,091.00	6,093.77	20.55	178.75	-175.43	-195.09	-2,004.76	3,178.63	3,003.99	174.64	18.201		
4,700.00	4,637.04	16,091.00	6,093.77	21.01	178.75	-175.43	-195.09	-2,004.76	3,144.67	2,967.51	177.15	17.751		
4,800.00	4,735.57	16,091.00	6,093.77	21.48	178.75	-175.43	-195.09	-2,004.76	3,113.55	2,933.94	179.60	17.336		
4,900.00	4,834.10	16,091.00	6,093.77	21.94	178.75	-175.43	-195.09	-2,004.76	3,085.35	2,903.37	181.98	16.954		
5,000.00	4,932.62	16,091.00	6,093.77	22.40	178.75	-175.43	-195.09	-2,004.76	3,060.17	2,875.91	184.26	16.608		
5,100.00	5,031.15	16,091.00	6,093.77	22.86	178.75	-175.43	-195.09	-2,004.76	3,038.07	2,851.63	186.44	16.295		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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		
5,200.00	5,129.68	16,091.00	6,093.77	23.32	178.75	-175.43	-195.09	-2,004.76	3,019.12	2,830.62	188.50	16.016		
5,300.00	5,228.20	16,091.00	6,093.77	23.79	178.75	-175.43	-195.09	-2,004.76	3,003.39	2,812.95	190.43	15.771		
5,400.00	5,326.73	16,091.00	6,093.77	24.25	178.75	-175.43	-195.09	-2,004.76	2,990.91	2,798.69	192.22	15.560		
5,500.00	5,425.25	16,091.00	6,093.77	24.71	178.75	-175.43	-195.09	-2,004.76	2,981.74	2,787.89	193.85	15.381		
5,600.00	5,523.78	16,091.00	6,093.77	25.17	178.75	-175.43	-195.09	-2,004.76	2,975.91	2,780.58	195.33	15.236		
5,680.25	5,602.49	16,091.00	6,093.77	25.55	178.75	-145.48	-195.09	-2,004.76	2,974.29	2,777.94	196.35	15.148		
5,700.00	5,621.78	16,091.00	6,093.77	25.64	178.75	-140.58	-195.09	-2,004.76	2,974.27	2,777.69	196.58	15.130	CC, ES	
5,800.00	5,716.63	16,091.00	6,093.77	26.12	178.75	-123.20	-195.09	-2,004.76	2,978.34	2,780.81	197.53	15.078	SF	
5,900.00	5,805.45	16,091.00	6,093.77	26.60	178.75	-114.92	-195.09	-2,004.76	2,987.99	2,789.86	198.14	15.080		
6,000.00	5,885.54	16,091.00	6,093.77	27.08	178.75	-109.60	-195.09	-2,004.76	3,002.88	2,804.48	198.40	15.135		
6,100.00	5,954.47	16,091.00	6,093.77	27.57	178.75	-105.37	-195.09	-2,004.76	3,022.49	2,824.16	198.33	15.240		
6,200.00	6,010.13	16,091.00	6,093.77	28.08	178.75	-101.58	-195.09	-2,004.76	3,046.12	2,848.18	197.95	15.389		
6,300.00	6,050.85	16,091.00	6,093.77	28.62	178.75	-97.97	-195.09	-2,004.76	3,072.99	2,875.70	197.29	15.576		
6,400.00	6,075.38	16,091.00	6,093.77	29.22	178.75	-94.48	-195.09	-2,004.76	3,102.20	2,905.81	196.39	15.796		
6,500.00	6,083.00	16,091.00	6,093.77	29.87	178.75	-91.34	-195.09	-2,004.76	3,132.81	2,937.51	195.31	16.040		
6,600.00	6,083.00	16,091.00	6,093.77	30.60	178.75	-91.34	-195.09	-2,004.76	3,165.37	2,971.26	194.11	16.307		
6,700.00	6,083.00	16,091.00	6,093.77	31.42	178.75	-91.34	-195.09	-2,004.76	3,200.72	3,007.88	192.84	16.598		
6,800.00	6,083.00	16,091.00	6,093.77	32.32	178.75	-91.34	-195.09	-2,004.76	3,238.78	3,047.28	191.50	16.913		
6,900.00	6,083.00	16,091.00	6,093.77	33.30	178.75	-91.34	-195.09	-2,004.76	3,279.44	3,089.34	190.10	17.251		
7,000.00	6,083.00	16,091.00	6,093.77	34.35	178.75	-91.34	-195.09	-2,004.76	3,322.62	3,133.98	188.64	17.614		
7,100.00	6,083.00	16,091.00	6,093.77	35.45	178.75	-91.34	-195.09	-2,004.76	3,368.21	3,181.08	187.13	17.999		
7,200.00	6,083.00	16,091.00	6,093.77	36.62	178.75	-91.34	-195.09	-2,004.76	3,416.12	3,230.55	185.58	18.408		
7,300.00	6,083.00	16,091.00	6,093.77	37.83	178.75	-91.34	-195.09	-2,004.76	3,466.26	3,282.27	183.98	18.840		
7,400.00	6,083.00	16,091.00	6,093.77	39.09	178.75	-91.34	-195.09	-2,004.76	3,518.52	3,336.16	182.36	19.294		
7,500.00	6,083.00	16,091.00	6,093.77	40.39	178.75	-91.34	-195.09	-2,004.76	3,572.82	3,392.11	180.72	19.770		
7,600.00	6,083.00	16,091.00	6,093.77	41.73	178.75	-91.34	-195.09	-2,004.76	3,629.06	3,450.01	179.05	20.268		
7,700.00	6,083.00	16,091.00	6,093.77	43.10	178.75	-91.34	-195.09	-2,004.76	3,687.16	3,509.79	177.37	20.788		
7,800.00	6,083.00	16,091.00	6,093.77	44.50	178.75	-91.34	-195.09	-2,004.76	3,747.03	3,571.34	175.68	21.328		
7,900.00	6,083.00	16,091.00	6,093.77	45.93	178.75	-91.34	-195.09	-2,004.76	3,808.58	3,634.58	174.00	21.889		
8,000.00	6,083.00	16,091.00	6,093.77	47.38	178.75	-91.34	-195.09	-2,004.76	3,871.73	3,699.43	172.31	22.470		
8,100.00	6,083.00	16,091.00	6,093.77	48.85	178.75	-91.34	-195.09	-2,004.76	3,936.42	3,765.79	170.62	23.071		
8,200.00	6,083.00	16,091.00	6,093.77	50.34	178.75	-91.34	-195.09	-2,004.76	4,002.55	3,833.60	168.95	23.691		
8,300.00	6,083.00	16,091.00	6,093.77	51.85	178.75	-91.34	-195.09	-2,004.76	4,070.07	3,902.79	167.29	24.330		
8,400.00	6,083.00	16,091.00	6,093.77	53.38	178.75	-91.34	-195.09	-2,004.76	4,138.90	3,973.27	165.64	24.988		
8,500.00	6,083.00	16,091.00	6,093.77	54.92	178.75	-91.34	-195.09	-2,004.76	4,208.99	4,044.98	164.01	25.663		
8,600.00	6,083.00	16,091.00	6,093.77	56.48	178.75	-91.34	-195.09	-2,004.76	4,280.26	4,117.86	162.40	26.356		
8,700.00	6,083.00	16,091.00	6,093.77	58.04	178.75	-91.34	-195.09	-2,004.76	4,352.67	4,191.85	160.81	27.067		
8,800.00	6,083.00	16,091.00	6,093.77	59.63	178.75	-91.34	-195.09	-2,004.76	4,426.14	4,266.90	159.25	27.794		
8,900.00	6,083.00	16,091.00	6,093.77	61.22	178.75	-91.34	-195.09	-2,004.76	4,500.64	4,342.94	157.71	28.538		
9,000.00	6,083.00	16,091.00	6,093.77	62.82	178.75	-91.34	-195.09	-2,004.76	4,576.12	4,419.93	156.19	29.298		
9,100.00	6,083.00	16,091.00	6,093.77	64.43	178.75	-91.34	-195.09	-2,004.76	4,652.52	4,497.81	154.70	30.074		
9,200.00	6,083.00	16,091.00	6,093.77	66.05	178.75	-91.34	-195.09	-2,004.76	4,729.79	4,576.55	153.24	30.865		
9,300.00	6,083.00	16,091.00	6,093.77	67.67	178.75	-91.34	-195.09	-2,004.76	4,807.91	4,656.10	151.81	31.671		
9,400.00	6,083.00	16,091.00	6,093.77	69.31	178.75	-91.34	-195.09	-2,004.76	4,886.83	4,736.42	150.41	32.491		
9,500.00	6,083.00	16,091.00	6,093.77	70.95	178.75	-91.34	-195.09	-2,004.76	4,966.50	4,817.47	149.03	33.326		
9,600.00	6,083.00	16,091.00	6,093.77	72.60	178.75	-91.34	-195.09	-2,004.76	5,046.90	4,899.22	147.68	34.174		
9,700.00	6,083.00	16,091.00	6,093.77	74.25	178.75	-91.34	-195.09	-2,004.76	5,127.98	4,981.62	146.36	35.036		
9,800.00	6,083.00	16,091.00	6,093.77	75.91	178.75	-91.34	-195.09	-2,004.76	5,209.73	5,064.66	145.07	35.911		
9,900.00	6,083.00	16,091.00	6,093.77	77.57	178.75	-91.34	-195.09	-2,004.76	5,292.10	5,148.29	143.81	36.799		
10,000.00	6,083.00	16,091.00	6,093.77	79.24	178.75	-91.34	-195.09	-2,004.76	5,375.07	5,232.49	142.58	37.700		
10,100.00	6,083.00	16,091.00	6,093.77	80.91	178.75	-91.34	-195.09	-2,004.76	5,458.61	5,317.24	141.37	38.612		
10,200.00	6,083.00	16,091.00	6,093.77	82.59	178.75	-91.34	-195.09	-2,004.76	5,542.70	5,402.51	140.19	39.537		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	84.27	178.75	-91.34	-195.09	-2,004.76	5,627.30	5,488.26	139.04	40.472		
10,400.00	6,083.00	16,091.00	6,093.77	85.95	178.75	-91.34	-195.09	-2,004.76	5,712.41	5,574.49	137.92	41.420		
10,500.00	6,083.00	16,091.00	6,093.77	87.64	178.75	-91.34	-195.09	-2,004.76	5,797.99	5,661.17	136.82	42.378		
10,600.00	6,083.00	16,091.00	6,093.77	89.34	178.75	-91.34	-195.09	-2,004.76	5,884.02	5,748.28	135.74	43.346		
10,700.00	6,083.00	16,091.00	6,093.77	91.03	178.75	-91.34	-195.09	-2,004.76	5,970.49	5,835.79	134.70	44.326		
10,800.00	6,083.00	16,091.00	6,093.77	92.73	178.75	-91.34	-195.09	-2,004.76	6,057.38	5,923.70	133.67	45.315		
10,900.00	6,083.00	16,091.00	6,093.77	94.43	178.75	-91.34	-195.09	-2,004.76	6,144.66	6,011.99	132.68	46.314		
11,000.00	6,083.00	16,091.00	6,093.77	96.13	178.75	-91.34	-195.09	-2,004.76	6,232.33	6,100.63	131.70	47.322		
11,100.00	6,083.00	16,091.00	6,093.77	97.84	178.75	-91.34	-195.09	-2,004.76	6,320.36	6,189.61	130.75	48.340		
11,200.00	6,083.00	16,091.00	6,093.77	99.55	178.75	-91.34	-195.09	-2,004.76	6,408.75	6,278.93	129.82	49.366		
11,300.00	6,083.00	16,091.00	6,093.77	101.26	178.75	-91.34	-195.09	-2,004.76	6,497.47	6,368.55	128.91	50.402		
11,400.00	6,083.00	16,091.00	6,093.77	102.97	178.75	-91.34	-195.09	-2,004.76	6,586.51	6,458.48	128.03	51.446		
11,500.00	6,083.00	16,091.00	6,093.77	104.68	178.75	-91.34	-195.09	-2,004.76	6,675.87	6,548.70	127.16	52.498		
11,600.00	6,083.00	16,091.00	6,093.77	106.40	178.75	-91.34	-195.09	-2,004.76	6,765.52	6,639.20	126.32	53.558		
11,700.00	6,083.00	16,091.00	6,093.77	108.12	178.75	-91.34	-195.09	-2,004.76	6,855.46	6,729.96	125.50	54.626		
11,800.00	6,083.00	16,091.00	6,093.77	109.84	178.75	-91.34	-195.09	-2,004.76	6,945.67	6,820.98	124.69	55.702		
11,900.00	6,083.00	16,091.00	6,093.77	111.56	178.75	-91.34	-195.09	-2,004.76	7,036.15	6,912.24	123.91	56.785		
12,000.00	6,083.00	16,091.00	6,093.77	113.29	178.75	-91.34	-195.09	-2,004.76	7,126.88	7,003.74	123.14	57.875		
12,100.00	6,083.00	16,091.00	6,093.77	115.01	178.75	-91.34	-195.09	-2,004.76	7,217.86	7,095.47	122.39	58.972		
12,200.00	6,083.00	16,091.00	6,093.77	116.74	178.75	-91.34	-195.09	-2,004.76	7,309.07	7,187.41	121.66	60.076		
12,300.00	6,083.00	16,091.00	6,093.77	118.47	178.75	-91.34	-195.09	-2,004.76	7,400.51	7,279.56	120.95	61.186		
12,400.00	6,083.00	16,091.00	6,093.77	120.19	178.75	-91.34	-195.09	-2,004.76	7,492.17	7,371.92	120.26	62.302		
12,500.00	6,083.00	16,091.00	6,093.77	121.93	178.75	-91.34	-195.09	-2,004.76	7,584.04	7,464.47	119.58	63.425		
12,600.00	6,083.00	16,091.00	6,093.77	123.66	178.75	-91.34	-195.09	-2,004.76	7,676.12	7,557.20	118.91	64.553		
12,700.00	6,083.00	16,091.00	6,093.77	125.39	178.75	-91.34	-195.09	-2,004.76	7,768.39	7,650.12	118.26	65.687		
12,800.00	6,083.00	16,091.00	6,093.77	127.12	178.75	-91.34	-195.09	-2,004.76	7,860.84	7,743.21	117.63	66.827		
12,900.00	6,083.00	16,091.00	6,093.77	128.86	178.75	-91.34	-195.09	-2,004.76	7,953.49	7,836.47	117.01	67.972		
13,000.00	6,083.00	16,091.00	6,093.77	130.60	178.75	-91.34	-195.09	-2,004.76	8,046.30	7,929.89	116.41	69.122		
13,100.00	6,083.00	16,091.00	6,093.77	132.33	178.75	-91.34	-195.09	-2,004.76	8,139.29	8,023.47	115.82	70.277		
13,200.00	6,083.00	16,091.00	6,093.77	134.07	178.75	-91.34	-195.09	-2,004.76	8,232.44	8,117.20	115.24	71.437		
13,300.00	6,083.00	16,091.00	6,093.77	135.81	178.75	-91.34	-195.09	-2,004.76	8,325.75	8,211.07	114.68	72.602		
13,400.00	6,083.00	16,091.00	6,093.77	137.55	178.75	-91.34	-195.09	-2,004.76	8,419.22	8,305.09	114.13	73.771		
13,500.00	6,083.00	16,091.00	6,093.77	139.29	178.75	-91.34	-195.09	-2,004.76	8,512.83	8,399.24	113.59	74.944		
13,600.00	6,083.00	16,091.00	6,093.77	141.03	178.75	-91.34	-195.09	-2,004.76	8,606.58	8,493.52	113.06	76.122		
13,700.00	6,083.00	16,091.00	6,093.77	142.78	178.75	-91.34	-195.09	-2,004.76	8,700.48	8,587.93	112.55	77.303		
13,800.00	6,083.00	16,091.00	6,093.77	144.52	178.75	-91.34	-195.09	-2,004.76	8,794.51	8,682.46	112.05	78.489		
13,900.00	6,083.00	16,091.00	6,093.77	146.26	178.75	-91.34	-195.09	-2,004.76	8,888.67	8,777.11	111.56	79.678		
14,000.00	6,083.00	16,091.00	6,093.77	148.01	178.75	-91.34	-195.09	-2,004.76	8,982.96	8,871.88	111.08	80.871		
14,100.00	6,083.00	16,091.00	6,093.77	149.75	178.75	-91.34	-195.09	-2,004.76	9,077.37	8,966.76	110.61	82.067		
14,200.00	6,083.00	16,091.00	6,093.77	151.50	178.75	-91.34	-195.09	-2,004.76	9,171.89	9,061.74	110.15	83.267		
14,300.00	6,083.00	16,091.00	6,093.77	153.25	178.75	-91.34	-195.09	-2,004.76	9,266.54	9,156.83	109.70	84.469		
14,400.00	6,083.00	16,091.00	6,093.77	154.99	178.75	-91.34	-195.09	-2,004.76	9,361.29	9,252.02	109.26	85.675		
14,500.00	6,083.00	16,091.00	6,093.77	156.74	178.75	-91.34	-195.09	-2,004.76	9,456.15	9,347.31	108.84	86.884		
14,600.00	6,083.00	16,091.00	6,093.77	158.49	178.75	-91.34	-195.09	-2,004.76	9,551.12	9,442.70	108.42	88.095		
14,700.00	6,083.00	16,091.00	6,093.77	160.24	178.75	-91.34	-195.09	-2,004.76	9,646.19	9,538.18	108.01	89.309		
14,800.00	6,083.00	16,091.00	6,093.77	161.99	178.75	-91.34	-195.09	-2,004.76	9,741.35	9,633.74	107.61	90.526		
14,900.00	6,083.00	16,091.00	6,093.77	163.74	178.75	-91.34	-195.09	-2,004.76	9,836.61	9,729.40	107.22	91.744		
15,000.00	6,083.00	16,091.00	6,093.77	165.49	178.75	-91.34	-195.09	-2,004.76	9,931.97	9,825.14	106.83	92.966		
15,100.00	6,083.00	16,091.00	6,093.77	167.24	178.75	-91.34	-195.09	-2,004.76	10,027.42	9,920.96	106.46	94.189		

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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		
0.00	0.00	0.00	0.00	0.00	0.00	-61.10	88.53	-160.34	183.38					
100.00	100.00	91.36	91.36	0.27	0.16	-61.10	88.47	-160.27	183.07	182.64	0.43	428.549		
108.05	108.05	99.44	99.44	0.30	0.17	-138.80	88.46	-160.26	183.06	182.59	0.47	389.672	CC, ES	
200.00	199.98	191.73	191.73	0.62	0.33	-139.16	88.28	-160.03	184.08	183.13	0.96	192.645		
300.00	299.84	292.00	292.00	0.99	0.51	-140.19	87.94	-159.63	187.56	186.07	1.49	125.916		
400.00	399.45	392.05	392.05	1.36	0.68	-141.82	87.47	-159.06	193.63	191.60	2.03	95.343		
500.00	498.70	491.78	491.77	1.76	0.85	-143.91	86.86	-158.32	202.45	199.87	2.58	78.489		
600.00	597.47	590.84	590.82	2.18	1.19	-146.29	86.32	-157.41	214.27	210.96	3.31	64.824		
700.00	695.99	689.73	689.71	2.62	1.55	-148.63	86.09	-156.29	227.61	223.58	4.04	56.399		
800.00	794.52	788.35	788.32	3.06	1.90	-150.64	86.08	-155.06	241.25	236.48	4.77	50.626		
900.00	893.05	886.89	886.85	3.51	2.25	-152.44	86.09	-153.90	255.21	249.72	5.49	46.456		
1,000.00	991.57	985.71	985.67	3.97	2.60	-154.08	85.99	-152.78	269.42	263.20	6.22	43.294		
1,100.00	1,090.10	1,084.53	1,084.48	4.42	2.96	-155.61	85.61	-151.68	283.79	276.84	6.95	40.824		
1,200.00	1,188.62	1,182.64	1,182.58	4.88	3.31	-157.01	85.08	-150.60	298.32	290.64	7.68	38.867		
1,300.00	1,287.15	1,274.40	1,274.34	5.34	3.63	-158.36	83.96	-150.85	314.24	305.88	8.36	37.600		
1,400.00	1,385.68	1,360.00	1,359.86	5.79	3.92	-159.72	82.01	-153.64	333.14	324.15	8.99	37.060		
1,500.00	1,484.20	1,448.80	1,448.42	6.25	4.22	-161.19	79.16	-159.40	355.28	345.65	9.63	36.902	SF	
1,600.00	1,582.73	1,535.61	1,534.81	6.71	4.51	-162.53	76.19	-167.43	380.28	370.03	10.25	37.104		
1,700.00	1,681.26	1,627.09	1,625.64	7.17	4.83	-163.88	72.48	-177.70	407.38	396.47	10.90	37.367		
1,800.00	1,779.78	1,707.66	1,705.35	7.63	5.12	-165.14	67.83	-188.38	436.62	425.14	11.47	38.054		
1,900.00	1,878.31	1,787.88	1,784.28	8.09	5.42	-166.27	63.12	-201.86	469.43	457.40	12.04	39.001		
2,000.00	1,976.83	1,876.04	1,870.69	8.55	5.77	-167.33	58.27	-218.67	504.60	491.93	12.67	39.837		
2,100.00	2,075.36	1,967.92	1,960.65	9.01	6.15	-168.44	51.92	-236.25	540.02	526.69	13.34	40.494		
2,200.00	2,173.89	2,056.50	2,047.19	9.47	6.53	-169.50	44.69	-253.71	576.23	562.24	13.98	41.214		
2,300.00	2,272.41	2,150.27	2,138.72	9.93	6.94	-170.47	37.25	-272.68	613.07	598.39	14.68	41.773		
2,400.00	2,370.94	2,243.27	2,229.72	10.40	7.36	-171.22	30.99	-290.82	649.27	633.91	15.37	42.249		
2,500.00	2,469.47	2,326.87	2,311.28	10.86	7.74	-171.84	25.12	-308.19	686.76	670.78	15.98	42.979		
2,600.00	2,567.99	2,419.83	2,401.85	11.32	8.18	-172.55	17.47	-327.70	724.66	707.98	16.68	43.454		
2,700.00	2,666.52	2,510.92	2,490.63	11.78	8.62	-173.10	10.97	-347.01	762.73	745.37	17.36	43.937		
2,800.00	2,765.05	2,602.70	2,580.11	12.24	9.06	-173.55	5.13	-366.55	800.85	782.80	18.05	44.369		
2,900.00	2,863.57	2,689.79	2,664.93	12.70	9.49	-173.95	-0.63	-385.49	839.47	820.76	18.70	44.889		
3,000.00	2,962.10	2,793.04	2,765.59	13.16	9.99	-174.38	-7.43	-407.41	877.62	858.13	19.49	45.018		
3,100.00	3,060.62	2,886.77	2,857.10	13.63	10.45	-174.70	-12.98	-426.91	915.34	895.13	20.21	45.302		
3,200.00	3,159.15	2,989.62	2,957.68	14.09	10.95	-175.01	-18.68	-447.59	952.38	931.38	20.99	45.369		
3,300.00	3,257.68	3,088.52	3,054.54	14.55	11.43	-175.31	-24.64	-466.69	988.74	966.99	21.74	45.471		
3,400.00	3,356.20	3,184.59	3,148.74	15.01	11.89	-175.60	-30.66	-484.58	1,024.52	1,002.04	22.47	45.586		
3,500.00	3,454.73	3,269.01	3,231.41	15.47	12.30	-175.89	-36.74	-500.55	1,060.72	1,037.61	23.11	45.895		
3,600.00	3,553.26	3,354.73	3,315.17	15.93	12.73	-176.19	-43.57	-517.45	1,097.80	1,074.04	23.76	46.201		
3,700.00	3,651.78	3,447.43	3,405.37	16.40	13.16	-176.54	-52.28	-541.49	1,133.14	1,108.36	24.78	45.726		
3,800.00	3,750.31	3,543.68	3,503.83	16.86	13.59	-176.79	-59.00	-562.76	1,165.64	1,139.82	25.82	45.145		
3,900.00	3,848.83	3,642.82	3,602.10	17.32	14.08	-177.10	-65.79	-579.80	1,190.04	1,162.73	27.32	43.563		
4,000.00	3,947.36	3,741.70	3,701.98	17.78	14.55	-177.09	-72.50	-597.07	1,216.19	1,187.07	28.12	42.895		
4,100.00	4,045.89	3,840.77	3,799.55	18.24	15.03	-177.04	-79.31	-614.38	1,242.33	1,211.22	28.81	42.411		
4,200.00	4,144.41	3,939.84	3,897.57	18.70	15.50	-176.94	-86.12	-631.69	1,268.47	1,236.31	29.52	41.920		
4,300.00	4,242.94	4,038.91	4,000.10	19.17	16.00	-176.80	-92.93	-648.99	1,294.61	1,261.45	30.20	41.489		
4,400.00	4,341.47	4,137.98	4,100.10	19.63	16.47	-176.70	-99.74	-666.30	1,320.75	1,286.59	30.88	41.090		
4,500.00	4,439.99	4,237.05	4,200.10	20.09	16.94	-176.68	-106.55	-683.61	1,346.89	1,311.73	31.52	40.802		
4,600.00	4,538.52	4,336.12	4,300.10	20.55	17.41	-176.65	-113.36	-700.92	1,373.03	1,337.87	32.20	40.483		
4,700.00	4,637.04	4,435.19	4,399.10	21.01	17.88	-176.61	-120.17	-718.23	1,399.17	1,363.01	32.91	40.152		
4,800.00	4,735.57	4,534.26	4,498.10	21.48	18.35	-176.55	-126.98	-735.54	1,425.31	1,388.15	33.62	39.824		
4,900.00	4,834.10	4,633.33	4,597.10	21.94	18.82	-176.54	-133.79	-752.85	1,451.45	1,413.29	34.40	39.416		
5,000.00	4,932.62	4,732.40	4,696.10	22.40	19.29	-176.60	-140.60	-770.16	1,477.59	1,439.43	35.11	39.074		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	5,031.15	5,078.78	5,033.71	22.86	18.49	-176.66	-43.97	-576.44	1,388.14	1,352.34	35.80	38.770		
5,200.00	5,129.68	5,175.83	5,130.76	23.32	18.78	-176.72	-44.37	-575.65	1,404.49	1,367.99	36.50	38.476		
5,300.00	5,228.20	5,276.61	5,231.53	23.79	19.09	-176.79	-45.08	-574.72	1,420.79	1,383.57	37.22	38.174		
5,400.00	5,326.73	5,374.84	5,329.75	24.25	19.40	-176.88	-46.10	-573.65	1,436.97	1,399.05	37.92	37.890		
5,500.00	5,425.25	5,468.65	5,423.55	24.71	19.69	-176.96	-47.18	-572.84	1,453.39	1,414.78	38.61	37.639		
5,600.00	5,523.78	5,572.43	5,527.32	25.17	20.02	-177.06	-48.65	-572.11	1,470.03	1,430.68	39.35	37.360		
5,700.00	5,621.78	5,679.66	5,634.20	25.64	20.36	-141.25	-55.88	-569.53	1,486.86	1,446.77	40.10	37.081		
5,800.00	5,716.63	5,750.00	5,702.94	26.12	20.59	-123.41	-70.22	-566.20	1,506.96	1,466.27	40.68	37.042		
5,900.00	5,805.45	5,798.00	5,748.87	26.60	20.75	-114.67	-83.92	-563.89	1,532.48	1,491.34	41.14	37.252		
6,000.00	5,885.54	5,818.05	5,767.82	27.08	20.83	-108.12	-90.43	-563.15	1,564.32	1,522.91	41.40	37.783		
6,100.00	5,954.47	5,845.00	5,793.11	27.57	20.92	-102.75	-99.74	-562.90	1,602.46	1,560.79	41.67	38.452		
6,200.00	6,010.13	5,845.00	5,793.11	28.08	20.92	-96.66	-99.74	-562.90	1,645.19	1,603.44	41.75	39.404		
6,300.00	6,050.85	5,845.00	5,793.11	28.62	20.92	-90.64	-99.74	-562.90	1,691.59	1,649.76	41.83	40.436		
6,400.00	6,075.38	5,845.00	5,793.11	29.22	20.92	-84.80	-99.74	-562.90	1,740.02	1,698.08	41.95	41.481		
6,500.00	6,083.00	5,845.00	5,793.11	29.87	20.92	-79.63	-99.74	-562.90	1,788.92	1,746.81	42.10	42.488		
6,600.00	6,083.00	5,819.79	5,769.46	30.60	20.83	-78.78	-91.01	-563.11	1,839.25	1,797.13	42.11	43.674		
6,700.00	6,083.00	5,798.00	5,748.87	31.42	20.75	-78.05	-83.92	-563.89	1,893.80	1,851.63	42.17	44.909		
6,800.00	6,083.00	5,798.00	5,748.87	32.32	20.75	-78.05	-83.92	-563.89	1,951.49	1,909.09	42.40	46.022		
6,900.00	6,083.00	5,798.00	5,748.87	33.30	20.75	-78.05	-83.92	-563.89	2,012.50	1,969.86	42.64	47.197		
7,000.00	6,083.00	5,782.23	5,733.88	34.35	20.70	-77.52	-79.11	-564.65	2,076.37	2,033.60	42.77	48.547		
7,100.00	6,083.00	5,771.97	5,724.07	35.45	20.67	-77.17	-76.14	-565.15	2,142.87	2,099.93	42.94	49.904		
7,200.00	6,083.00	5,750.00	5,702.94	36.62	20.59	-76.44	-70.22	-566.20	2,211.88	2,168.85	43.03	51.403		
7,300.00	6,083.00	5,750.00	5,702.94	37.83	20.59	-76.44	-70.22	-566.20	2,282.87	2,239.61	43.26	52.767		
7,400.00	6,083.00	5,750.00	5,702.94	39.09	20.59	-76.44	-70.22	-566.20	2,355.97	2,312.49	43.49	54.175		
7,500.00	6,083.00	5,750.00	5,702.94	40.39	20.59	-76.44	-70.22	-566.20	2,430.99	2,387.29	43.70	55.623		
7,600.00	6,083.00	5,750.00	5,702.94	41.73	20.59	-76.44	-70.22	-566.20	2,507.75	2,463.84	43.91	57.109		
7,700.00	6,083.00	5,728.13	5,681.73	43.10	20.52	-75.70	-64.96	-567.25	2,585.72	2,541.74	43.98	58.789		
7,800.00	6,083.00	5,722.87	5,676.62	44.50	20.50	-75.53	-63.80	-567.51	2,665.31	2,621.17	44.15	60.375		
7,900.00	6,083.00	5,703.00	5,657.18	45.93	20.44	-74.86	-59.78	-568.49	2,746.38	2,702.16	44.22	62.109		
8,000.00	6,083.00	5,703.00	5,657.18	47.38	20.44	-74.86	-59.78	-568.49	2,828.36	2,783.96	44.40	63.705		
8,100.00	6,083.00	5,703.00	5,657.18	48.85	20.44	-74.86	-59.78	-568.49	2,911.47	2,866.90	44.57	65.326		
8,200.00	6,083.00	5,703.00	5,657.18	50.34	20.44	-74.86	-59.78	-568.49	2,995.61	2,950.88	44.73	66.971		
8,300.00	6,083.00	5,703.00	5,657.18	51.85	20.44	-74.86	-59.78	-568.49	3,080.70	3,035.81	44.88	68.636		
8,400.00	6,083.00	5,703.00	5,657.18	53.38	20.44	-74.86	-59.78	-568.49	3,166.66	3,121.62	45.03	70.320		
8,500.00	6,083.00	5,703.00	5,657.18	54.92	20.44	-74.86	-59.78	-568.49	3,253.42	3,208.24	45.17	72.021		
8,600.00	6,083.00	5,703.00	5,657.18	56.48	20.44	-74.86	-59.78	-568.49	3,340.92	3,295.61	45.31	73.739		
8,700.00	6,083.00	5,703.00	5,657.18	58.04	20.44	-74.86	-59.78	-568.49	3,429.11	3,383.67	45.44	75.470		
8,800.00	6,083.00	5,703.00	5,657.18	59.63	20.44	-74.86	-59.78	-568.49	3,517.92	3,472.36	45.56	77.215		
8,900.00	6,083.00	5,703.00	5,657.18	61.22	20.44	-74.86	-59.78	-568.49	3,607.33	3,561.65	45.68	78.971		
9,000.00	6,083.00	5,681.62	5,636.13	62.82	20.37	-74.14	-56.17	-569.45	3,696.87	3,651.17	45.70	80.897		
9,100.00	6,083.00	5,679.42	5,633.96	64.43	20.36	-74.07	-55.85	-569.54	3,787.23	3,741.43	45.80	82.690		
9,200.00	6,083.00	5,677.34	5,631.89	66.05	20.35	-74.00	-55.55	-569.62	3,878.05	3,832.15	45.90	84.490		
9,300.00	6,083.00	5,655.00	5,609.74	67.67	20.28	-73.25	-52.85	-570.39	3,969.68	3,923.78	45.91	86.475		
9,400.00	6,083.00	5,655.00	5,609.74	69.31	20.28	-73.25	-52.85	-570.39	4,061.28	4,015.28	46.01	88.272		
9,500.00	6,083.00	5,655.00	5,609.74	70.95	20.28	-73.25	-52.85	-570.39	4,153.27	4,107.16	46.11	90.076		
9,600.00	6,083.00	5,655.00	5,609.74	72.60	20.28	-73.25	-52.85	-570.39	4,245.62	4,199.42	46.21	91.885		
9,700.00	6,083.00	5,655.00	5,609.74	74.25	20.28	-73.25	-52.85	-570.39	4,338.31	4,292.01	46.30	93.700		
9,800.00	6,083.00	5,655.00	5,609.74	75.91	20.28	-73.25	-52.85	-570.39	4,431.32	4,384.93	46.39	95.519		
9,900.00	6,083.00	5,655.00	5,609.74	77.57	20.28	-73.25	-52.85	-570.39	4,524.62	4,478.14	46.48	97.343		
10,000.00	6,083.00	5,655.00	5,609.74	79.24	20.28	-73.25	-52.85	-570.39	4,618.21	4,571.64	46.57	99.170		
10,100.00	6,083.00	5,655.00	5,609.74	80.91	20.28	-73.25	-52.85	-570.39	4,712.06	4,665.40	46.65	100.999		
10,200.00	6,083.00	5,655.00	5,609.74	82.59	20.28	-73.25	-52.85	-570.39	4,806.15	4,759.42	46.74	102.831		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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												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	84.27	20.28	-73.25	-52.85	-570.39	4,900.49	4,853.67	46.82	104.665	
10,400.00	6,083.00	5,655.00	5,609.74	85.95	20.28	-73.25	-52.85	-570.39	4,995.04	4,948.14	46.90	106.501	
10,500.00	6,083.00	5,655.00	5,609.74	87.64	20.28	-73.25	-52.85	-570.39	5,089.80	5,042.82	46.98	108.338	
10,600.00	6,083.00	5,655.00	5,609.74	89.34	20.28	-73.25	-52.85	-570.39	5,184.75	5,137.69	47.06	110.175	
10,700.00	6,083.00	5,655.00	5,609.74	91.03	20.28	-73.25	-52.85	-570.39	5,279.90	5,232.76	47.14	112.013	
10,800.00	6,083.00	5,655.00	5,609.74	92.73	20.28	-73.25	-52.85	-570.39	5,375.22	5,328.00	47.21	113.852	
10,900.00	6,083.00	5,655.00	5,609.74	94.43	20.28	-73.25	-52.85	-570.39	5,470.70	5,423.41	47.29	115.690	
11,000.00	6,083.00	5,655.00	5,609.74	96.13	20.28	-73.25	-52.85	-570.39	5,566.35	5,518.98	47.36	117.527	
11,100.00	6,083.00	5,655.00	5,609.74	97.84	20.28	-73.25	-52.85	-570.39	5,662.14	5,614.71	47.44	119.364	
11,200.00	6,083.00	5,655.00	5,609.74	99.55	20.28	-73.25	-52.85	-570.39	5,758.08	5,710.57	47.51	121.200	
11,300.00	6,083.00	5,655.00	5,609.74	101.26	20.28	-73.25	-52.85	-570.39	5,854.15	5,806.57	47.58	123.034	
11,400.00	6,083.00	5,655.00	5,609.74	102.97	20.28	-73.25	-52.85	-570.39	5,950.36	5,902.71	47.65	124.868	
11,500.00	6,083.00	5,655.00	5,609.74	104.68	20.28	-73.25	-52.85	-570.39	6,046.69	5,998.96	47.72	126.699	
11,600.00	6,083.00	5,655.00	5,609.74	106.40	20.28	-73.25	-52.85	-570.39	6,143.13	6,095.33	47.80	128.528	
11,700.00	6,083.00	5,655.00	5,609.74	108.12	20.28	-73.25	-52.85	-570.39	6,239.69	6,191.82	47.87	130.356	
11,800.00	6,083.00	5,655.00	5,609.74	109.84	20.28	-73.25	-52.85	-570.39	6,336.35	6,288.41	47.94	132.181	
11,900.00	6,083.00	5,655.00	5,609.74	111.56	20.28	-73.25	-52.85	-570.39	6,433.11	6,385.11	48.01	134.003	
12,000.00	6,083.00	5,655.00	5,609.74	113.29	20.28	-73.25	-52.85	-570.39	6,529.98	6,481.90	48.08	135.823	
12,100.00	6,083.00	5,655.00	5,609.74	115.01	20.28	-73.25	-52.85	-570.39	6,626.93	6,578.78	48.15	137.640	
12,200.00	6,083.00	5,655.00	5,609.74	116.74	20.28	-73.25	-52.85	-570.39	6,723.98	6,675.76	48.22	139.454	
12,300.00	6,083.00	5,655.00	5,609.74	118.47	20.28	-73.25	-52.85	-570.39	6,821.11	6,772.82	48.29	141.265	
12,400.00	6,083.00	5,655.00	5,609.74	120.19	20.28	-73.25	-52.85	-570.39	6,918.32	6,869.96	48.36	143.073	
12,500.00	6,083.00	5,655.00	5,609.74	121.93	20.28	-73.25	-52.85	-570.39	7,015.61	6,967.18	48.42	144.877	
12,600.00	6,083.00	5,655.00	5,609.74	123.66	20.28	-73.25	-52.85	-570.39	7,112.97	7,064.48	48.49	146.677	
12,700.00	6,083.00	5,655.00	5,609.74	125.39	20.28	-73.25	-52.85	-570.39	7,210.41	7,161.85	48.56	148.474	
12,800.00	6,083.00	5,655.00	5,609.74	127.12	20.28	-73.25	-52.85	-570.39	7,307.92	7,259.29	48.63	150.267	
12,900.00	6,083.00	5,655.00	5,609.74	128.86	20.28	-73.25	-52.85	-570.39	7,405.49	7,356.79	48.70	152.056	
13,000.00	6,083.00	5,655.00	5,609.74	130.60	20.28	-73.25	-52.85	-570.39	7,503.13	7,454.36	48.77	153.842	
13,100.00	6,083.00	5,655.00	5,609.74	132.33	20.28	-73.25	-52.85	-570.39	7,600.83	7,551.99	48.84	155.623	
13,200.00	6,083.00	5,633.19	5,588.02	134.07	20.21	-72.52	-51.00	-570.99	7,698.24	7,649.40	48.84	157.621	
13,300.00	6,083.00	5,632.58	5,587.41	135.81	20.21	-72.50	-50.96	-571.01	7,796.03	7,747.13	48.91	159.401	
13,400.00	6,083.00	5,631.99	5,586.81	137.55	20.21	-72.48	-50.92	-571.02	7,893.88	7,844.91	48.98	161.176	
13,500.00	6,083.00	5,631.41	5,586.23	139.29	20.21	-72.46	-50.88	-571.03	7,991.79	7,942.74	49.05	162.947	
13,600.00	6,083.00	5,630.84	5,585.67	141.03	20.20	-72.44	-50.84	-571.05	8,089.74	8,040.63	49.11	164.713	
13,700.00	6,083.00	5,630.28	5,585.11	142.78	20.20	-72.42	-50.80	-571.06	8,187.74	8,138.56	49.18	166.474	
13,800.00	6,083.00	5,629.74	5,584.57	144.52	20.20	-72.40	-50.77	-571.08	8,285.79	8,236.54	49.25	168.230	
13,900.00	6,083.00	5,608.00	5,562.87	146.26	20.13	-71.68	-49.69	-571.55	8,384.21	8,334.96	49.25	170.225	
14,000.00	6,083.00	5,608.00	5,562.87	148.01	20.13	-71.68	-49.69	-571.55	8,482.34	8,433.01	49.33	171.966	
14,100.00	6,083.00	5,608.00	5,562.87	149.75	20.13	-71.68	-49.69	-571.55	8,580.50	8,531.11	49.40	173.703	
14,200.00	6,083.00	5,608.00	5,562.87	151.50	20.13	-71.68	-49.69	-571.55	8,678.71	8,629.24	49.47	175.434	
14,300.00	6,083.00	5,608.00	5,562.87	153.25	20.13	-71.68	-49.69	-571.55	8,776.96	8,727.42	49.54	177.161	
14,400.00	6,083.00	5,608.00	5,562.87	154.99	20.13	-71.68	-49.69	-571.55	8,875.25	8,825.64	49.62	178.882	
14,500.00	6,083.00	5,608.00	5,562.87	156.74	20.13	-71.68	-49.69	-571.55	8,973.58	8,923.89	49.69	180.598	
14,600.00	6,083.00	5,608.00	5,562.87	158.49	20.13	-71.68	-49.69	-571.55	9,071.94	9,022.18	49.76	182.309	
14,700.00	6,083.00	5,608.00	5,562.87	160.24	20.13	-71.68	-49.69	-571.55	9,170.34	9,120.50	49.83	184.014	
14,800.00	6,083.00	5,608.00	5,562.87	161.99	20.13	-71.68	-49.69	-571.55	9,268.77	9,218.86	49.91	185.714	
14,900.00	6,083.00	5,608.00	5,562.87	163.74	20.13	-71.68	-49.69	-571.55	9,367.24	9,317.25	49.98	187.409	
15,000.00	6,083.00	5,608.00	5,562.87	165.49	20.13	-71.68	-49.69	-571.55	9,465.73	9,415.68	50.06	189.098	
15,100.00	6,083.00	5,608.00	5,562.87	167.24	20.13	-71.68	-49.69	-571.55	9,564.26	9,514.13	50.13	190.781	
15,200.00	6,083.00	5,608.00	5,562.87	168.99	20.13	-71.68	-49.69	-571.55	9,662.82	9,612.61	50.21	192.459	
15,300.00	6,083.00	5,608.00	5,562.87	170.74	20.13	-71.68	-49.69	-571.55	9,761.41	9,711.13	50.28	194.131	
15,400.00	6,083.00	5,608.00	5,562.87	172.50	20.13	-71.68	-49.69	-571.55	9,860.03	9,809.67	50.36	195.798	

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	
15,500.00	6,083.00	5,608.00	5,562.87	174.25	20.13	-71.68	-49.69	-571.55	9,958.67	9,908.24	50.43	197.459	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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		
0.00	0.00	16,045.00	6,103.52	0.00	176.36	-91.78	-142.59	-4,576.40	7,713.44					
100.00	100.00	16,045.00	6,103.52	0.27	176.36	-91.78	-142.59	-4,576.40	7,633.19	7,508.50	124.69	61.217		
200.00	199.98	16,045.00	6,103.52	0.62	176.36	-169.94	-142.59	-4,576.40	7,554.47	7,429.00	125.47	60.208		
300.00	299.84	16,045.00	6,103.52	0.99	176.36	-170.34	-142.59	-4,576.40	7,478.46	7,352.14	126.32	59.205		
400.00	399.45	16,045.00	6,103.52	1.36	176.36	-170.69	-142.59	-4,576.40	7,405.33	7,278.09	127.24	58.198		
500.00	498.70	16,045.00	6,103.52	1.76	176.36	-171.00	-142.59	-4,576.40	7,335.27	7,207.01	128.26	57.190		
600.00	597.47	16,045.00	6,103.52	2.18	176.36	-171.26	-142.59	-4,576.40	7,268.43	7,139.08	129.35	56.192		
700.00	695.99	16,045.00	6,103.52	2.62	176.36	-171.26	-142.59	-4,576.40	7,203.48	7,072.92	130.56	55.174		
800.00	794.52	16,045.00	6,103.52	3.06	176.36	-171.26	-142.59	-4,576.40	7,139.34	7,007.53	131.81	54.165		
900.00	893.05	16,045.00	6,103.52	3.51	176.36	-171.26	-142.59	-4,576.40	7,076.03	6,942.94	133.09	53.168		
1,000.00	991.57	16,045.00	6,103.52	3.97	176.36	-171.26	-142.59	-4,576.40	7,013.57	6,879.17	134.40	52.185		
1,100.00	1,090.10	16,045.00	6,103.52	4.42	176.36	-171.26	-142.59	-4,576.40	6,951.99	6,816.26	135.73	51.218		
1,200.00	1,188.62	16,045.00	6,103.52	4.88	176.36	-171.26	-142.59	-4,576.40	6,891.31	6,754.22	137.09	50.267		
1,300.00	1,287.15	16,045.00	6,103.52	5.34	176.36	-171.26	-142.59	-4,576.40	6,831.56	6,693.08	138.48	49.333		
1,400.00	1,385.68	16,045.00	6,103.52	5.79	176.36	-171.26	-142.59	-4,576.40	6,772.76	6,632.87	139.88	48.418		
1,500.00	1,484.20	16,045.00	6,103.52	6.25	176.36	-171.26	-142.59	-4,576.40	6,714.93	6,573.62	141.30	47.521		
1,600.00	1,582.73	16,045.00	6,103.52	6.71	176.36	-171.26	-142.59	-4,576.40	6,658.10	6,515.35	142.75	46.643		
1,700.00	1,681.26	16,045.00	6,103.52	7.17	176.36	-171.26	-142.59	-4,576.40	6,602.29	6,458.09	144.20	45.785		
1,800.00	1,779.78	16,045.00	6,103.52	7.63	176.36	-171.26	-142.59	-4,576.40	6,547.54	6,401.86	145.68	44.946		
1,900.00	1,878.31	16,045.00	6,103.52	8.09	176.36	-171.26	-142.59	-4,576.40	6,493.87	6,346.70	147.16	44.127		
2,000.00	1,976.83	16,045.00	6,103.52	8.55	176.36	-171.26	-142.59	-4,576.40	6,441.30	6,292.64	148.66	43.329		
2,100.00	2,075.36	16,045.00	6,103.52	9.01	176.36	-171.26	-142.59	-4,576.40	6,389.86	6,239.69	150.17	42.550		
2,200.00	2,173.89	16,045.00	6,103.52	9.47	176.36	-171.26	-142.59	-4,576.40	6,339.58	6,187.89	151.69	41.792		
2,300.00	2,272.41	16,045.00	6,103.52	9.93	176.36	-171.26	-142.59	-4,576.40	6,290.50	6,137.27	153.22	41.055		
2,400.00	2,370.94	16,045.00	6,103.52	10.40	176.36	-171.26	-142.59	-4,576.40	6,242.62	6,087.87	154.76	40.338		
2,500.00	2,469.47	16,045.00	6,103.52	10.86	176.36	-171.26	-142.59	-4,576.40	6,196.00	6,039.70	156.30	39.642		
2,600.00	2,567.99	16,045.00	6,103.52	11.32	176.36	-171.26	-142.59	-4,576.40	6,150.64	5,992.80	157.85	38.966		
2,700.00	2,666.52	16,045.00	6,103.52	11.78	176.36	-171.26	-142.59	-4,576.40	6,106.59	5,947.19	159.39	38.311		
2,800.00	2,765.05	16,045.00	6,103.52	12.24	176.36	-171.26	-142.59	-4,576.40	6,063.86	5,902.92	160.94	37.677		
2,900.00	2,863.57	16,045.00	6,103.52	12.70	176.36	-171.26	-142.59	-4,576.40	6,022.49	5,860.01	162.49	37.064		
3,000.00	2,962.10	16,045.00	6,103.52	13.16	176.36	-171.26	-142.59	-4,576.40	5,982.51	5,818.48	164.03	36.472		
3,100.00	3,060.62	16,045.00	6,103.52	13.63	176.36	-171.26	-142.59	-4,576.40	5,943.94	5,778.37	165.57	35.900		
3,200.00	3,159.15	16,045.00	6,103.52	14.09	176.36	-171.26	-142.59	-4,576.40	5,906.81	5,739.72	167.10	35.349		
3,300.00	3,257.68	16,045.00	6,103.52	14.55	176.36	-171.26	-142.59	-4,576.40	5,871.16	5,702.54	168.62	34.819		
3,400.00	3,356.20	16,045.00	6,103.52	15.01	176.36	-171.26	-142.59	-4,576.40	5,836.99	5,666.86	170.13	34.309		
3,500.00	3,454.73	16,045.00	6,103.52	15.47	176.36	-171.26	-142.59	-4,576.40	5,804.35	5,632.73	171.62	33.820		
3,600.00	3,553.26	16,045.00	6,103.52	15.93	176.36	-171.26	-142.59	-4,576.40	5,773.26	5,600.15	173.10	33.351		
3,700.00	3,651.78	16,045.00	6,103.52	16.40	176.36	-171.26	-142.59	-4,576.40	5,743.74	5,569.17	174.56	32.903		
3,800.00	3,750.31	16,045.00	6,103.52	16.86	176.36	-171.26	-142.59	-4,576.40	5,715.82	5,539.81	176.00	32.475		
3,900.00	3,848.83	16,045.00	6,103.52	17.32	176.36	-171.26	-142.59	-4,576.40	5,689.51	5,512.09	177.42	32.068		
4,000.00	3,947.36	16,045.00	6,103.52	17.78	176.36	-171.26	-142.59	-4,576.40	5,664.85	5,486.04	178.81	31.680		
4,100.00	4,045.89	16,045.00	6,103.52	18.24	176.36	-171.26	-142.59	-4,576.40	5,641.86	5,461.68	180.18	31.313		
4,200.00	4,144.41	16,045.00	6,103.52	18.70	176.36	-171.26	-142.59	-4,576.40	5,620.55	5,439.04	181.51	30.965		
4,300.00	4,242.94	16,045.00	6,103.52	19.17	176.36	-171.26	-142.59	-4,576.40	5,600.95	5,418.13	182.81	30.637		
4,400.00	4,341.47	16,045.00	6,103.52	19.63	176.36	-171.26	-142.59	-4,576.40	5,583.07	5,398.98	184.08	30.329		
4,500.00	4,439.99	16,045.00	6,103.52	20.09	176.36	-171.26	-142.59	-4,576.40	5,566.92	5,381.61	185.32	30.040		
4,600.00	4,538.52	16,045.00	6,103.52	20.55	176.36	-171.26	-142.59	-4,576.40	5,552.54	5,366.03	186.51	29.771		
4,700.00	4,637.04	16,045.00	6,103.52	21.01	176.36	-171.26	-142.59	-4,576.40	5,539.91	5,352.25	187.66	29.520		
4,800.00	4,735.57	16,045.00	6,103.52	21.48	176.36	-171.26	-142.59	-4,576.40	5,529.08	5,340.30	188.78	29.289		
4,900.00	4,834.10	16,045.00	6,103.52	21.94	176.36	-171.26	-142.59	-4,576.40	5,520.03	5,330.18	189.84	29.077		
5,000.00	4,932.62	16,045.00	6,103.52	22.40	176.36	-171.26	-142.59	-4,576.40	5,512.78	5,321.91	190.87	28.883		
5,100.00	5,031.15	16,045.00	6,103.52	22.86	176.36	-171.26	-142.59	-4,576.40	5,507.33	5,315.49	191.84	28.708		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	5,129.68	16,045.00	6,103.52	23.32	176.36	-171.26	-142.59	-4,576.40	5,503.70	5,310.93	192.77	28.551	CC	
5,300.00	5,228.20	16,045.00	6,103.52	23.79	176.36	-171.26	-142.59	-4,576.40	5,501.88	5,308.24	193.65	28.412		
5,349.94	5,277.41	16,045.00	6,103.52	24.02	176.36	-171.26	-142.59	-4,576.40	5,501.66	5,307.59	194.07	28.349	ES	
5,400.00	5,326.73	16,045.00	6,103.52	24.25	176.36	-171.26	-142.59	-4,576.40	5,501.89	5,307.41	194.48	28.291		
5,500.00	5,425.25	16,045.00	6,103.52	24.71	176.36	-171.26	-142.59	-4,576.40	5,503.70	5,308.45	195.25	28.187		
5,600.00	5,523.78	16,045.00	6,103.52	25.17	176.36	-171.26	-142.59	-4,576.40	5,507.34	5,311.36	195.98	28.101		
5,700.00	5,621.78	16,045.00	6,103.52	25.64	176.36	-135.79	-142.59	-4,576.40	5,513.16	5,316.50	196.65	28.035		
5,800.00	5,716.63	16,045.00	6,103.52	26.12	176.36	-117.96	-142.59	-4,576.40	5,521.69	5,324.43	197.26	27.992		
5,900.00	5,805.45	16,045.00	6,103.52	26.60	176.36	-109.54	-142.59	-4,576.40	5,532.68	5,334.90	197.79	27.973	SF	
6,000.00	5,885.54	16,045.00	6,103.52	27.08	176.36	-104.39	-142.59	-4,576.40	5,545.79	5,347.54	198.25	27.974		
6,100.00	5,954.47	16,045.00	6,103.52	27.57	176.36	-100.67	-142.59	-4,576.40	5,560.59	5,361.95	198.64	27.994		
6,200.00	6,010.13	16,045.00	6,103.52	28.08	176.36	-97.68	-142.59	-4,576.40	5,576.63	5,377.66	198.97	28.028		
6,300.00	6,050.85	16,045.00	6,103.52	28.62	176.36	-95.16	-142.59	-4,576.40	5,593.41	5,394.17	199.25	28.073		
6,400.00	6,075.38	16,045.00	6,103.52	29.22	176.36	-93.00	-142.59	-4,576.40	5,610.43	5,410.94	199.48	28.125		
6,500.00	6,083.00	16,045.00	6,103.52	29.87	176.36	-91.29	-142.59	-4,576.40	5,627.15	5,427.47	199.68	28.180		
6,600.00	6,083.00	16,045.00	6,103.52	30.60	176.36	-91.29	-142.59	-4,576.40	5,644.57	5,444.69	199.88	28.240		
6,700.00	6,083.00	16,045.00	6,103.52	31.42	176.36	-91.29	-142.59	-4,576.40	5,663.69	5,463.61	200.09	28.306		
6,800.00	6,083.00	16,045.00	6,103.52	32.32	176.36	-91.29	-142.59	-4,576.40	5,684.52	5,484.22	200.30	28.380		
6,900.00	6,083.00	16,045.00	6,103.52	33.30	176.36	-91.29	-142.59	-4,576.40	5,707.01	5,506.50	200.51	28.462		
7,000.00	6,083.00	16,045.00	6,103.52	34.35	176.36	-91.29	-142.59	-4,576.40	5,731.17	5,530.45	200.72	28.552		
7,100.00	6,083.00	16,045.00	6,103.52	35.45	176.36	-91.29	-142.59	-4,576.40	5,756.96	5,556.04	200.92	28.652		
7,200.00	6,083.00	16,045.00	6,103.52	36.62	176.36	-91.29	-142.59	-4,576.40	5,784.37	5,583.25	201.11	28.762		
7,300.00	6,083.00	16,045.00	6,103.52	37.83	176.36	-91.29	-142.59	-4,576.40	5,813.36	5,612.08	201.28	28.881		
7,400.00	6,083.00	16,045.00	6,103.52	39.09	176.36	-91.29	-142.59	-4,576.40	5,843.93	5,642.49	201.44	29.011		
7,500.00	6,083.00	16,045.00	6,103.52	40.39	176.36	-91.29	-142.59	-4,576.40	5,876.03	5,674.47	201.57	29.152		
7,600.00	6,083.00	16,045.00	6,103.52	41.73	176.36	-91.29	-142.59	-4,576.40	5,909.66	5,707.99	201.67	29.303		
7,700.00	6,083.00	16,045.00	6,103.52	43.10	176.36	-91.29	-142.59	-4,576.40	5,944.77	5,743.02	201.75	29.466		
7,800.00	6,083.00	16,045.00	6,103.52	44.50	176.36	-91.29	-142.59	-4,576.40	5,981.36	5,779.55	201.81	29.639		
7,900.00	6,083.00	16,045.00	6,103.52	45.93	176.36	-91.29	-142.59	-4,576.40	6,019.38	5,817.55	201.83	29.823		
8,000.00	6,083.00	16,045.00	6,103.52	47.38	176.36	-91.29	-142.59	-4,576.40	6,058.81	5,856.98	201.83	30.019		
8,100.00	6,083.00	16,045.00	6,103.52	48.85	176.36	-91.29	-142.59	-4,576.40	6,099.63	5,897.83	201.80	30.225		
8,200.00	6,083.00	16,045.00	6,103.52	50.34	176.36	-91.29	-142.59	-4,576.40	6,141.81	5,940.06	201.75	30.443		
8,300.00	6,083.00	16,045.00	6,103.52	51.85	176.36	-91.29	-142.59	-4,576.40	6,185.31	5,983.65	201.66	30.671		
8,400.00	6,083.00	16,045.00	6,103.52	53.38	176.36	-91.29	-142.59	-4,576.40	6,230.12	6,028.57	201.55	30.911		
8,500.00	6,083.00	16,045.00	6,103.52	54.92	176.36	-91.29	-142.59	-4,576.40	6,276.20	6,074.78	201.41	31.161		
8,600.00	6,083.00	16,045.00	6,103.52	56.48	176.36	-91.29	-142.59	-4,576.40	6,323.52	6,122.27	201.25	31.421		
8,700.00	6,083.00	16,045.00	6,103.52	58.04	176.36	-91.29	-142.59	-4,576.40	6,372.07	6,171.01	201.06	31.692		
8,800.00	6,083.00	16,045.00	6,103.52	59.63	176.36	-91.29	-142.59	-4,576.40	6,421.80	6,220.96	200.85	31.974		
8,900.00	6,083.00	16,045.00	6,103.52	61.22	176.36	-91.29	-142.59	-4,576.40	6,472.70	6,272.09	200.61	32.265		
9,000.00	6,083.00	16,045.00	6,103.52	62.82	176.36	-91.29	-142.59	-4,576.40	6,524.73	6,324.38	200.35	32.567		
9,100.00	6,083.00	16,045.00	6,103.52	64.43	176.36	-91.29	-142.59	-4,576.40	6,577.87	6,377.81	200.06	32.879		
9,200.00	6,083.00	16,045.00	6,103.52	66.05	176.36	-91.29	-142.59	-4,576.40	6,632.10	6,432.34	199.76	33.200		
9,300.00	6,083.00	16,045.00	6,103.52	67.67	176.36	-91.29	-142.59	-4,576.40	6,687.38	6,487.94	199.44	33.531		
9,400.00	6,083.00	16,045.00	6,103.52	69.31	176.36	-91.29	-142.59	-4,576.40	6,743.69	6,544.59	199.10	33.871		
9,500.00	6,083.00	16,045.00	6,103.52	70.95	176.36	-91.29	-142.59	-4,576.40	6,801.00	6,602.26	198.74	34.221		
9,600.00	6,083.00	16,045.00	6,103.52	72.60	176.36	-91.29	-142.59	-4,576.40	6,859.29	6,660.93	198.36	34.580		
9,700.00	6,083.00	16,045.00	6,103.52	74.25	176.36	-91.29	-142.59	-4,576.40	6,918.54	6,720.57	197.97	34.948		
9,800.00	6,083.00	16,045.00	6,103.52	75.91	176.36	-91.29	-142.59	-4,576.40	6,978.71	6,781.15	197.56	35.324		
9,900.00	6,083.00	16,045.00	6,103.52	77.57	176.36	-91.29	-142.59	-4,576.40	7,039.80	6,842.66	197.14	35.709		
10,000.00	6,083.00	16,045.00	6,103.52	79.24	176.36	-91.29	-142.59	-4,576.40	7,101.76	6,905.06	196.71	36.103		
10,100.00	6,083.00	16,045.00	6,103.52	80.91	176.36	-91.29	-142.59	-4,576.40	7,164.59	6,968.33	196.26	36.505		
10,200.00	6,083.00	16,045.00	6,103.52	82.59	176.36	-91.29	-142.59	-4,576.40	7,228.25	7,032.45	195.81	36.915		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 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	84.27	176.36	-91.29	-142.59	-4,576.40	7,292.73	7,097.39	195.34	37.333		
10,400.00	6,083.00	16,045.00	6,103.52	85.95	176.36	-91.29	-142.59	-4,576.40	7,358.00	7,163.14	194.87	37.759		
10,500.00	6,083.00	16,045.00	6,103.52	87.64	176.36	-91.29	-142.59	-4,576.40	7,424.05	7,229.67	194.38	38.193		
10,600.00	6,083.00	16,045.00	6,103.52	89.34	176.36	-91.29	-142.59	-4,576.40	7,490.85	7,296.96	193.89	38.634		
10,700.00	6,083.00	16,045.00	6,103.52	91.03	176.36	-91.29	-142.59	-4,576.40	7,558.38	7,364.99	193.39	39.083		
10,800.00	6,083.00	16,045.00	6,103.52	92.73	176.36	-91.29	-142.59	-4,576.40	7,626.62	7,433.73	192.89	39.539		
10,900.00	6,083.00	16,045.00	6,103.52	94.43	176.36	-91.29	-142.59	-4,576.40	7,695.56	7,503.18	192.38	40.002		
11,000.00	6,083.00	16,045.00	6,103.52	96.13	176.36	-91.29	-142.59	-4,576.40	7,765.18	7,573.31	191.86	40.472		
11,100.00	6,083.00	16,045.00	6,103.52	97.84	176.36	-91.29	-142.59	-4,576.40	7,835.45	7,644.10	191.35	40.949		
11,200.00	6,083.00	16,045.00	6,103.52	99.55	176.36	-91.29	-142.59	-4,576.40	7,906.36	7,715.54	190.82	41.433		
11,300.00	6,083.00	16,045.00	6,103.52	101.26	176.36	-91.29	-142.59	-4,576.40	7,977.90	7,787.60	190.30	41.923		
11,400.00	6,083.00	16,045.00	6,103.52	102.97	176.36	-91.29	-142.59	-4,576.40	8,050.04	7,860.27	189.77	42.420		
11,500.00	6,083.00	16,045.00	6,103.52	104.68	176.36	-91.29	-142.59	-4,576.40	8,122.77	7,933.53	189.24	42.923		
11,600.00	6,083.00	16,045.00	6,103.52	106.40	176.36	-91.29	-142.59	-4,576.40	8,196.08	8,007.37	188.71	43.432		
11,700.00	6,083.00	16,045.00	6,103.52	108.12	176.36	-91.29	-142.59	-4,576.40	8,269.95	8,081.77	188.18	43.947		
11,800.00	6,083.00	16,045.00	6,103.52	109.84	176.36	-91.29	-142.59	-4,576.40	8,344.36	8,156.71	187.65	44.469		
11,900.00	6,083.00	16,045.00	6,103.52	111.56	176.36	-91.29	-142.59	-4,576.40	8,419.30	8,232.19	187.11	44.996		
12,000.00	6,083.00	16,045.00	6,103.52	113.29	176.36	-91.29	-142.59	-4,576.40	8,494.76	8,308.18	186.58	45.529		
12,100.00	6,083.00	16,045.00	6,103.52	115.01	176.36	-91.29	-142.59	-4,576.40	8,570.72	8,384.67	186.05	46.067		
12,200.00	6,083.00	16,045.00	6,103.52	116.74	176.36	-91.29	-142.59	-4,576.40	8,647.16	8,461.65	185.52	46.611		
12,300.00	6,083.00	16,045.00	6,103.52	118.47	176.36	-91.29	-142.59	-4,576.40	8,724.09	8,539.10	184.99	47.161		
12,400.00	6,083.00	16,045.00	6,103.52	120.19	176.36	-91.29	-142.59	-4,576.40	8,801.48	8,617.02	184.46	47.715		
12,500.00	6,083.00	16,045.00	6,103.52	121.93	176.36	-91.29	-142.59	-4,576.40	8,879.32	8,695.39	183.93	48.275		
12,600.00	6,083.00	16,045.00	6,103.52	123.66	176.36	-91.29	-142.59	-4,576.40	8,957.60	8,774.19	183.41	48.840		
12,700.00	6,083.00	16,045.00	6,103.52	125.39	176.36	-91.29	-142.59	-4,576.40	9,036.31	8,853.43	182.88	49.410		
12,800.00	6,083.00	16,045.00	6,103.52	127.12	176.36	-91.29	-142.59	-4,576.40	9,115.44	8,933.07	182.36	49.985		
12,900.00	6,083.00	16,045.00	6,103.52	128.86	176.36	-91.29	-142.59	-4,576.40	9,194.97	9,013.13	181.85	50.565		
13,000.00	6,083.00	16,045.00	6,103.52	130.60	176.36	-91.29	-142.59	-4,576.40	9,274.90	9,093.57	181.33	51.149		
13,100.00	6,083.00	16,045.00	6,103.52	132.33	176.36	-91.29	-142.59	-4,576.40	9,355.22	9,174.40	180.82	51.738		
13,200.00	6,083.00	16,045.00	6,103.52	134.07	176.36	-91.29	-142.59	-4,576.40	9,435.91	9,255.60	180.31	52.331		
13,300.00	6,083.00	16,045.00	6,103.52	135.81	176.36	-91.29	-142.59	-4,576.40	9,516.97	9,337.16	179.81	52.929		
13,400.00	6,083.00	16,045.00	6,103.52	137.55	176.36	-91.29	-142.59	-4,576.40	9,598.38	9,419.08	179.30	53.531		
13,500.00	6,083.00	16,045.00	6,103.52	139.29	176.36	-91.29	-142.59	-4,576.40	9,680.15	9,501.34	178.81	54.138		
13,600.00	6,083.00	16,045.00	6,103.52	141.03	176.36	-91.29	-142.59	-4,576.40	9,762.25	9,583.94	178.31	54.748		
13,700.00	6,083.00	16,045.00	6,103.52	142.78	176.36	-91.29	-142.59	-4,576.40	9,844.68	9,666.86	177.82	55.363		
13,800.00	6,083.00	16,045.00	6,103.52	144.52	176.36	-91.29	-142.59	-4,576.40	9,927.44	9,750.11	177.33	55.982		
13,900.00	6,083.00	16,045.00	6,103.52	146.26	176.36	-91.29	-142.59	-4,576.40	10,010.51	9,833.66	176.85	56.604		
14,000.00	6,083.00	16,045.00	6,103.52	148.01	176.36	-91.29	-142.59	-4,576.40	10,093.89	9,917.52	176.37	57.231		

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	-34.95	6,064.13	-4,238.38	9,659.23					
100.00	100.00	10,650.00	6,204.92	0.27	83.48	-34.95	6,064.13	-4,238.38	9,595.25	9,549.48	45.76	209.682		
200.00	199.98	10,650.00	6,204.92	0.62	83.48	-114.13	6,064.13	-4,238.38	9,532.41	9,486.51	45.90	207.678		
300.00	299.84	10,650.00	6,204.92	0.99	83.48	-115.53	6,064.13	-4,238.38	9,471.35	9,425.25	46.10	205.444		
400.00	399.45	10,650.00	6,204.92	1.36	83.48	-116.85	6,064.13	-4,238.38	9,412.16	9,365.78	46.38	202.939		
500.00	498.70	10,650.00	6,204.92	1.76	83.48	-118.08	6,064.13	-4,238.38	9,354.96	9,308.23	46.73	200.188		
600.00	597.47	10,650.00	6,204.92	2.18	83.48	-119.16	6,064.13	-4,238.38	9,299.84	9,252.69	47.15	197.253		
700.00	695.99	10,650.00	6,204.92	2.62	83.48	-119.16	6,064.13	-4,238.38	9,246.08	9,198.44	47.64	194.087		
800.00	794.52	10,650.00	6,204.92	3.06	83.48	-119.16	6,064.13	-4,238.38	9,193.10	9,144.94	48.16	190.898		
900.00	893.05	10,650.00	6,204.92	3.51	83.48	-119.16	6,064.13	-4,238.38	9,140.90	9,092.20	48.69	187.718		
1,000.00	991.57	10,650.00	6,204.92	3.97	83.48	-119.16	6,064.13	-4,238.38	9,089.50	9,040.25	49.25	184.563		
1,100.00	1,090.10	10,650.00	6,204.92	4.42	83.48	-119.16	6,064.13	-4,238.38	9,038.91	8,989.10	49.82	181.447		
1,200.00	1,188.62	10,650.00	6,204.92	4.88	83.48	-119.16	6,064.13	-4,238.38	8,989.16	8,938.76	50.39	178.378		
1,300.00	1,287.15	10,650.00	6,204.92	5.34	83.48	-119.16	6,064.13	-4,238.38	8,940.24	8,889.26	50.98	175.361		
1,400.00	1,385.68	10,650.00	6,204.92	5.79	83.48	-119.16	6,064.13	-4,238.38	8,892.18	8,840.61	51.58	172.400		
1,500.00	1,484.20	10,650.00	6,204.92	6.25	83.48	-119.16	6,064.13	-4,238.38	8,844.99	8,792.81	52.18	169.497		
1,600.00	1,582.73	10,650.00	6,204.92	6.71	83.48	-119.16	6,064.13	-4,238.38	8,798.69	8,745.89	52.80	166.655		
1,700.00	1,681.26	10,650.00	6,204.92	7.17	83.48	-119.16	6,064.13	-4,238.38	8,753.28	8,699.87	53.41	163.873		
1,800.00	1,779.78	10,650.00	6,204.92	7.63	83.48	-119.16	6,064.13	-4,238.38	8,708.78	8,654.74	54.04	161.154		
1,900.00	1,878.31	10,650.00	6,204.92	8.09	83.48	-119.16	6,064.13	-4,238.38	8,665.21	8,610.54	54.67	158.496		
2,000.00	1,976.83	10,650.00	6,204.92	8.55	83.48	-119.16	6,064.13	-4,238.38	8,622.58	8,567.27	55.31	155.901		
2,100.00	2,075.36	10,650.00	6,204.92	9.01	83.48	-119.16	6,064.13	-4,238.38	8,580.90	8,524.95	55.95	153.368		
2,200.00	2,173.89	10,650.00	6,204.92	9.47	83.48	-119.16	6,064.13	-4,238.38	8,540.19	8,483.59	56.60	150.896		
2,300.00	2,272.41	10,650.00	6,204.92	9.93	83.48	-119.16	6,064.13	-4,238.38	8,500.46	8,443.21	57.25	148.486		
2,400.00	2,370.94	10,650.00	6,204.92	10.40	83.48	-119.16	6,064.13	-4,238.38	8,461.73	8,403.83	57.90	146.138		
2,500.00	2,469.47	10,650.00	6,204.92	10.86	83.48	-119.16	6,064.13	-4,238.38	8,424.00	8,365.44	58.56	143.849		
2,600.00	2,567.99	10,650.00	6,204.92	11.32	83.48	-119.16	6,064.13	-4,238.38	8,387.30	8,328.08	59.22	141.621		
2,700.00	2,666.52	10,650.00	6,204.92	11.78	83.48	-119.16	6,064.13	-4,238.38	8,351.64	8,291.75	59.89	139.453		
2,800.00	2,765.05	10,650.00	6,204.92	12.24	83.48	-119.16	6,064.13	-4,238.38	8,317.02	8,256.46	60.56	137.343		
2,900.00	2,863.57	10,650.00	6,204.92	12.70	83.48	-119.16	6,064.13	-4,238.38	8,283.46	8,222.24	61.23	135.291		
3,000.00	2,962.10	10,650.00	6,204.92	13.16	83.48	-119.16	6,064.13	-4,238.38	8,250.99	8,189.09	61.90	133.297		
3,100.00	3,060.62	10,650.00	6,204.92	13.63	83.48	-119.16	6,064.13	-4,238.38	8,219.60	8,157.02	62.57	131.360		
3,200.00	3,159.15	10,650.00	6,204.92	14.09	83.48	-119.16	6,064.13	-4,238.38	8,189.31	8,126.06	63.25	129.478		
3,300.00	3,257.68	10,650.00	6,204.92	14.55	83.48	-119.16	6,064.13	-4,238.38	8,160.13	8,096.21	63.92	127.653		
3,400.00	3,356.20	10,650.00	6,204.92	15.01	83.48	-119.16	6,064.13	-4,238.38	8,132.08	8,067.48	64.60	125.881		
3,500.00	3,454.73	10,650.00	6,204.92	15.47	83.48	-119.16	6,064.13	-4,238.38	8,105.17	8,039.89	65.28	124.164		
3,600.00	3,553.26	10,650.00	6,204.92	15.93	83.48	-119.16	6,064.13	-4,238.38	8,079.40	8,013.45	65.95	122.500		
3,700.00	3,651.78	10,650.00	6,204.92	16.40	83.48	-119.16	6,064.13	-4,238.38	8,054.79	7,988.16	66.63	120.888		
3,800.00	3,750.31	10,650.00	6,204.92	16.86	83.48	-119.16	6,064.13	-4,238.38	8,031.36	7,964.05	67.31	119.328		
3,900.00	3,848.83	10,650.00	6,204.92	17.32	83.48	-119.16	6,064.13	-4,238.38	8,009.10	7,941.12	67.98	117.818		
4,000.00	3,947.36	10,650.00	6,204.92	17.78	83.48	-119.16	6,064.13	-4,238.38	7,988.03	7,919.38	68.65	116.359		
4,100.00	4,045.89	10,650.00	6,204.92	18.24	83.48	-119.16	6,064.13	-4,238.38	7,968.17	7,898.85	69.32	114.949		
4,200.00	4,144.41	10,650.00	6,204.92	18.70	83.48	-119.16	6,064.13	-4,238.38	7,949.51	7,879.52	69.99	113.588		
4,300.00	4,242.94	10,650.00	6,204.92	19.17	83.48	-119.16	6,064.13	-4,238.38	7,932.06	7,861.42	70.65	112.275		
4,400.00	4,341.47	10,650.00	6,204.92	19.63	83.48	-119.16	6,064.13	-4,238.38	7,915.85	7,844.54	71.31	111.008		
4,500.00	4,439.99	10,650.00	6,204.92	20.09	83.48	-119.16	6,064.13	-4,238.38	7,900.86	7,828.90	71.96	109.788		
4,600.00	4,538.52	10,650.00	6,204.92	20.55	83.48	-119.16	6,064.13	-4,238.38	7,887.12	7,814.50	72.62	108.614		
4,700.00	4,637.04	10,650.00	6,204.92	21.01	83.48	-119.16	6,064.13	-4,238.38	7,874.62	7,801.35	73.26	107.484		
4,800.00	4,735.57	10,650.00	6,204.92	21.48	83.48	-119.16	6,064.13	-4,238.38	7,863.37	7,789.47	73.90	106.399		
4,900.00	4,834.10	10,650.00	6,204.92	21.94	83.48	-119.16	6,064.13	-4,238.38	7,853.38	7,778.84	74.54	105.356		
5,000.00	4,932.62	10,650.00	6,204.92	22.40	83.48	-119.16	6,064.13	-4,238.38	7,844.65	7,769.48	75.17	104.356		
5,100.00	5,031.15	10,650.00	6,204.92	22.86	83.48	-119.16	6,064.13	-4,238.38	7,837.19	7,761.39	75.80	103.398		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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		
5,200.00	5,129.68	10,650.00	6,204.92	23.32	83.48	-119.16	6,064.13	-4,238.38	7,831.00	7,754.59	76.41	102.482		
5,300.00	5,228.20	10,650.00	6,204.92	23.79	83.48	-119.16	6,064.13	-4,238.38	7,826.08	7,749.06	77.02	101.605		
5,400.00	5,326.73	10,650.00	6,204.92	24.25	83.48	-119.16	6,064.13	-4,238.38	7,822.44	7,744.81	77.63	100.768		
5,500.00	5,425.25	10,650.00	6,204.92	24.71	83.48	-119.16	6,064.13	-4,238.38	7,820.07	7,741.85	78.22	99.970		
5,600.00	5,523.78	10,650.00	6,204.92	25.17	83.48	-119.16	6,064.13	-4,238.38	7,818.98	7,740.17	78.81	99.211		
5,700.00	5,621.78	10,650.00	6,204.92	25.64	83.48	-84.49	6,064.13	-4,238.38	7,814.51	7,735.06	79.45	98.360		
5,800.00	5,716.63	10,650.00	6,204.92	26.12	83.48	-68.61	6,064.13	-4,238.38	7,798.53	7,718.32	80.22	97.217		
5,900.00	5,805.45	10,650.00	6,204.92	26.60	83.48	-63.25	6,064.13	-4,238.38	7,771.32	7,690.21	81.10	95.820		
6,000.00	5,885.54	10,650.00	6,204.92	27.08	83.48	-62.38	6,064.13	-4,238.38	7,733.57	7,651.48	82.09	94.206		
6,100.00	5,954.47	10,650.00	6,204.92	27.57	83.48	-64.26	6,064.13	-4,238.38	7,686.30	7,603.13	83.17	92.415		
6,200.00	6,010.13	10,650.00	6,204.92	28.08	83.48	-68.34	6,064.13	-4,238.38	7,630.78	7,546.45	84.33	90.488		
6,300.00	6,050.85	10,650.00	6,204.92	28.62	83.48	-74.46	6,064.13	-4,238.38	7,568.53	7,482.98	85.55	88.471		
6,400.00	6,075.38	10,650.00	6,204.92	29.22	83.48	-82.46	6,064.13	-4,238.38	7,501.31	7,414.50	86.81	86.408		
6,500.00	6,083.00	10,650.00	6,204.92	29.87	83.48	-91.39	6,064.13	-4,238.38	7,431.05	7,342.95	88.10	84.348		
6,600.00	6,083.00	10,650.00	6,204.92	30.60	83.48	-91.39	6,064.13	-4,238.38	7,360.38	7,270.96	89.42	82.315		
6,700.00	6,083.00	10,650.00	6,204.92	31.42	83.48	-91.39	6,064.13	-4,238.38	7,290.40	7,199.61	90.79	80.303		
6,800.00	6,083.00	10,650.00	6,204.92	32.32	83.48	-91.39	6,064.13	-4,238.38	7,221.12	7,128.92	92.21	78.315		
6,900.00	6,083.00	10,650.00	6,204.92	33.30	83.48	-91.39	6,064.13	-4,238.38	7,152.58	7,058.90	93.68	76.354		
7,000.00	6,083.00	10,650.00	6,204.92	34.35	83.48	-91.39	6,064.13	-4,238.38	7,084.78	6,989.58	95.19	74.424		
7,100.00	6,083.00	10,650.00	6,204.92	35.45	83.48	-91.39	6,064.13	-4,238.38	7,017.75	6,920.99	96.76	72.527		
7,200.00	6,083.00	10,650.00	6,204.92	36.62	83.48	-91.39	6,064.13	-4,238.38	6,951.51	6,853.14	98.37	70.664		
7,300.00	6,083.00	10,650.00	6,204.92	37.83	83.48	-91.39	6,064.13	-4,238.38	6,886.09	6,786.06	100.03	68.839		
7,400.00	6,083.00	10,650.00	6,204.92	39.09	83.48	-91.39	6,064.13	-4,238.38	6,821.51	6,719.77	101.74	67.051		
7,500.00	6,083.00	10,650.00	6,204.92	40.39	83.48	-91.39	6,064.13	-4,238.38	6,757.79	6,654.31	103.48	65.304		
7,600.00	6,083.00	10,650.00	6,204.92	41.73	83.48	-91.39	6,064.13	-4,238.38	6,694.95	6,589.68	105.27	63.597		
7,700.00	6,083.00	10,650.00	6,204.92	43.10	83.48	-91.39	6,064.13	-4,238.38	6,633.03	6,525.93	107.10	61.933		
7,800.00	6,083.00	10,650.00	6,204.92	44.50	83.48	-91.39	6,064.13	-4,238.38	6,572.05	6,463.08	108.97	60.311		
7,900.00	6,083.00	10,650.00	6,204.92	45.93	83.48	-91.39	6,064.13	-4,238.38	6,512.03	6,401.16	110.88	58.732		
8,000.00	6,083.00	10,650.00	6,204.92	47.38	83.48	-91.39	6,064.13	-4,238.38	6,453.01	6,340.19	112.82	57.196		
8,100.00	6,083.00	10,650.00	6,204.92	48.85	83.48	-91.39	6,064.13	-4,238.38	6,395.00	6,280.20	114.80	55.704		
8,200.00	6,083.00	10,650.00	6,204.92	50.34	83.48	-91.39	6,064.13	-4,238.38	6,338.04	6,221.22	116.82	54.256		
8,300.00	6,083.00	10,650.00	6,204.92	51.85	83.48	-91.39	6,064.13	-4,238.38	6,282.16	6,163.29	118.86	52.852		
8,400.00	6,083.00	10,650.00	6,204.92	53.38	83.48	-91.39	6,064.13	-4,238.38	6,227.38	6,106.43	120.94	51.491		
8,500.00	6,083.00	10,650.00	6,204.92	54.92	83.48	-91.39	6,064.13	-4,238.38	6,173.73	6,050.68	123.05	50.173		
8,600.00	6,083.00	10,650.00	6,204.92	56.48	83.48	-91.39	6,064.13	-4,238.38	6,121.25	5,996.06	125.18	48.898		
8,700.00	6,083.00	10,650.00	6,204.92	58.04	83.48	-91.39	6,064.13	-4,238.38	6,069.96	5,942.61	127.34	47.666		
8,800.00	6,083.00	10,650.00	6,204.92	59.63	83.48	-91.39	6,064.13	-4,238.38	6,019.89	5,890.37	129.53	46.476		
8,900.00	6,083.00	10,650.00	6,204.92	61.22	83.48	-91.39	6,064.13	-4,238.38	5,971.08	5,839.35	131.73	45.327		
9,000.00	6,083.00	10,650.00	6,204.92	62.82	83.48	-91.39	6,064.13	-4,238.38	5,923.56	5,789.60	133.96	44.220		
9,100.00	6,083.00	10,650.00	6,204.92	64.43	83.48	-91.39	6,064.13	-4,238.38	5,877.35	5,741.16	136.20	43.153		
9,200.00	6,083.00	10,650.00	6,204.92	66.05	83.48	-91.39	6,064.13	-4,238.38	5,832.50	5,694.04	138.45	42.126		
9,300.00	6,083.00	10,650.00	6,204.92	67.67	83.48	-91.39	6,064.13	-4,238.38	5,789.02	5,648.30	140.72	41.138		
9,400.00	6,083.00	10,650.00	6,204.92	69.31	83.48	-91.39	6,064.13	-4,238.38	5,746.95	5,603.95	143.00	40.189		
9,500.00	6,083.00	10,650.00	6,204.92	70.95	83.48	-91.39	6,064.13	-4,238.38	5,706.33	5,561.05	145.28	39.277		
9,600.00	6,083.00	10,650.00	6,204.92	72.60	83.48	-91.39	6,064.13	-4,238.38	5,667.18	5,519.61	147.57	38.403		
9,700.00	6,083.00	10,650.00	6,204.92	74.25	83.48	-91.39	6,064.13	-4,238.38	5,629.53	5,479.67	149.86	37.565		
9,800.00	6,083.00	10,650.00	6,204.92	75.91	83.48	-91.39	6,064.13	-4,238.38	5,593.42	5,441.27	152.15	36.763		
9,900.00	6,083.00	10,650.00	6,204.92	77.57	83.48	-91.39	6,064.13	-4,238.38	5,558.88	5,404.44	154.43	35.996		
10,000.00	6,083.00	10,650.00	6,204.92	79.24	83.48	-91.39	6,064.13	-4,238.38	5,525.92	5,369.22	156.70	35.263		
10,100.00	6,083.00	10,650.00	6,204.92	80.91	83.48	-91.39	6,064.13	-4,238.38	5,494.59	5,335.63	158.97	34.564		
10,200.00	6,083.00	10,650.00	6,204.92	82.59	83.48	-91.39	6,064.13	-4,238.38	5,464.91	5,303.70	161.21	33.898		
10,300.00	6,083.00	10,650.00	6,204.92	84.27	83.48	-91.39	6,064.13	-4,238.38	5,436.91	5,273.47	163.44	33.265		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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		
10,400.00	6,083.00	10,650.00	6,204.92	85.95	83.48	-91.39	6,064.13	-4,238.38	5,410.61	5,244.96	165.65	32.663		
10,500.00	6,083.00	10,650.00	6,204.92	87.64	83.48	-91.39	6,064.13	-4,238.38	5,386.04	5,218.21	167.83	32.092		
10,600.00	6,083.00	10,650.00	6,204.92	89.34	83.48	-91.39	6,064.13	-4,238.38	5,363.22	5,193.24	169.99	31.551		
10,700.00	6,083.00	10,650.00	6,204.92	91.03	83.48	-91.39	6,064.13	-4,238.38	5,342.18	5,170.07	172.11	31.040		
10,800.00	6,083.00	10,650.00	6,204.92	92.73	83.48	-91.39	6,064.13	-4,238.38	5,322.93	5,148.74	174.19	30.557		
10,900.00	6,083.00	10,650.00	6,204.92	94.43	83.48	-91.39	6,064.13	-4,238.38	5,305.50	5,129.26	176.24	30.103		
11,000.00	6,083.00	10,650.00	6,204.92	96.13	83.48	-91.39	6,064.13	-4,238.38	5,289.90	5,111.66	178.25	29.677		
11,100.00	6,083.00	10,650.00	6,204.92	97.84	83.48	-91.39	6,064.13	-4,238.38	5,276.15	5,095.95	180.21	29.278		
11,200.00	6,083.00	10,650.00	6,204.92	99.55	83.48	-91.39	6,064.13	-4,238.38	5,264.27	5,082.15	182.12	28.905		
11,300.00	6,083.00	10,650.00	6,204.92	101.26	83.48	-91.39	6,064.13	-4,238.38	5,254.26	5,070.28	183.98	28.559		
11,400.00	6,083.00	10,650.00	6,204.92	102.97	83.48	-91.39	6,064.13	-4,238.38	5,246.14	5,060.35	185.79	28.237		
11,500.00	6,083.00	10,650.00	6,204.92	104.68	83.48	-91.39	6,064.13	-4,238.38	5,239.91	5,052.38	187.54	27.941		
11,600.00	6,083.00	10,650.00	6,204.92	106.40	83.48	-91.39	6,064.13	-4,238.38	5,235.59	5,046.36	189.23	27.668		
11,700.00	6,083.00	10,650.00	6,204.92	108.12	83.48	-91.39	6,064.13	-4,238.38	5,233.18	5,042.32	190.86	27.419		
11,776.37	6,083.00	10,650.00	6,204.92	109.43	83.48	-91.39	6,064.13	-4,238.38	5,232.62	5,040.56	192.06	27.245 CC		
11,800.00	6,083.00	10,650.00	6,204.92	109.84	83.48	-91.39	6,064.13	-4,238.38	5,232.67	5,040.25	192.42	27.194		
11,900.00	6,083.00	10,650.00	6,204.92	111.56	83.48	-91.39	6,064.13	-4,238.38	5,234.08	5,040.16	193.92	26.990 ES		
12,000.00	6,083.00	10,650.00	6,204.92	113.29	83.48	-91.39	6,064.13	-4,238.38	5,237.40	5,042.04	195.36	26.809		
12,100.00	6,083.00	10,627.82	6,205.15	115.01	83.10	-91.39	6,086.27	-4,239.58	5,242.57	5,046.15	196.42	26.690		
12,200.00	6,083.00	10,337.52	6,206.23	116.74	78.08	-91.40	6,376.37	-4,249.89	5,246.39	5,052.63	193.76	27.076		
12,300.00	6,083.00	10,146.54	6,202.48	118.47	74.80	-91.36	6,567.30	-4,252.36	5,248.28	5,055.84	192.44	27.272		
12,400.00	6,083.00	10,069.00	6,203.76	120.19	73.48	-91.37	6,644.81	-4,252.59	5,248.93	5,056.13	192.81	27.224		
12,500.00	6,083.00	10,010.40	6,206.61	121.93	72.48	-91.40	6,703.34	-4,253.07	5,250.19	5,056.73	193.45	27.139		
12,600.00	6,083.00	9,939.82	6,210.20	123.66	71.28	-91.44	6,773.82	-4,254.12	5,252.12	5,058.21	193.91	27.085		
12,700.00	6,083.00	9,877.00	6,211.72	125.39	70.21	-91.46	6,836.61	-4,255.32	5,254.51	5,060.02	194.48	27.018		
12,800.00	6,083.00	9,827.99	6,212.01	127.12	69.37	-91.46	6,885.60	-4,256.69	5,257.76	5,062.53	195.23	26.931		
12,900.00	6,083.00	9,781.00	6,212.05	128.86	68.57	-91.46	6,932.54	-4,258.65	5,262.19	5,066.20	195.99	26.850		
13,000.00	6,083.00	9,622.92	6,211.83	130.60	65.87	-91.46	7,090.52	-4,264.37	5,265.94	5,070.70	195.24	26.972		
13,100.00	6,083.00	9,408.90	6,213.13	132.33	62.26	-91.47	7,304.47	-4,269.24	5,268.52	5,074.82	193.70	27.199		
13,200.00	6,083.00	9,286.34	6,213.38	134.07	60.21	-91.47	7,427.02	-4,270.49	5,269.89	5,076.43	193.45	27.241		
13,300.00	6,083.00	9,181.76	6,215.05	135.81	58.47	-91.49	7,531.59	-4,271.16	5,270.90	5,077.43	193.47	27.244		
13,400.00	6,083.00	9,110.00	6,215.97	137.55	57.27	-91.50	7,603.34	-4,271.84	5,272.22	5,078.27	193.95	27.183		
13,500.00	6,083.00	9,075.92	6,216.17	139.29	56.71	-91.50	7,637.41	-4,272.47	5,274.44	5,079.49	194.95	27.055		
13,600.00	6,083.00	9,014.00	6,216.31	141.03	55.68	-91.50	7,699.29	-4,274.75	5,278.16	5,082.61	195.55	26.991		
13,700.00	6,083.00	8,987.74	6,216.35	142.78	55.24	-91.50	7,725.52	-4,276.00	5,282.64	5,086.04	196.60	26.869		
13,800.00	6,083.00	8,788.18	6,217.26	144.52	51.95	-91.51	7,924.93	-4,283.27	5,286.60	5,091.20	195.40	27.055		
13,900.00	6,083.00	8,656.30	6,216.42	146.26	49.80	-91.50	8,056.77	-4,286.47	5,289.34	5,094.24	195.10	27.111		
14,000.00	6,083.00	8,515.96	6,215.12	148.01	47.53	-91.49	8,197.09	-4,288.82	5,291.28	5,096.58	194.70	27.177		
14,100.00	6,083.00	8,442.00	6,215.14	149.75	46.35	-91.48	8,271.04	-4,290.11	5,293.33	5,098.13	195.19	27.118		
14,200.00	6,083.00	8,324.82	6,215.72	151.50	44.49	-91.49	8,388.19	-4,292.28	5,295.56	5,100.42	195.14	27.138		
14,300.00	6,083.00	8,188.60	6,216.31	153.25	42.36	-91.50	8,524.41	-4,293.70	5,296.90	5,102.04	194.85	27.184		
14,400.00	6,083.00	8,154.00	6,216.39	154.99	41.82	-91.50	8,559.00	-4,293.99	5,298.50	5,102.61	195.89	27.048		
14,500.00	6,083.00	8,088.95	6,216.81	156.74	40.82	-91.50	8,624.04	-4,295.16	5,300.86	5,104.33	196.53	26.972		
14,600.00	6,083.00	7,769.00	6,222.36	158.49	36.03	-91.56	8,943.89	-4,298.32	5,303.00	5,108.96	194.04	27.329		
14,700.00	6,083.00	7,701.30	6,221.67	160.24	35.05	-91.55	9,011.58	-4,297.54	5,302.19	5,107.43	194.76	27.224		
14,800.00	6,083.00	7,577.00	6,217.23	161.99	33.29	-91.50	9,135.79	-4,296.61	5,301.73	5,106.93	194.80	27.216		
14,885.96	6,083.00	7,538.84	6,216.02	163.49	32.77	-91.49	9,173.93	-4,296.32	5,301.32	5,105.63	195.69	27.091		
14,900.00	6,083.00	7,532.98	6,215.90	163.74	32.69	-91.49	9,179.79	-4,296.31	5,301.33	5,105.50	195.83	27.070		
15,000.00	6,083.00	7,480.00	6,215.45	165.49	31.96	-91.49	9,232.77	-4,296.59	5,302.06	5,105.32	196.75	26.948		
15,100.00	6,083.00	7,440.90	6,215.59	167.24	31.44	-91.49	9,271.86	-4,297.19	5,303.78	5,105.96	197.81	26.812		
15,200.00	6,083.00	7,384.00	6,215.79	168.99	30.67	-91.49	9,328.74	-4,298.50	5,306.41	5,107.73	198.68	26.709		
15,300.00	6,083.00	7,302.36	6,217.28	170.74	29.61	-91.50	9,410.33	-4,300.83	5,309.63	5,110.32	199.31	26.640		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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	
15,400.00	6,083.00	7,235.44	6,219.89	172.50	28.77	-91.53	9,477.17	-4,302.95	5,313.26	5,113.15	200.10	26.552	
15,500.00	6,083.00	7,097.00	6,225.30	174.25	27.08	-91.59	9,615.42	-4,307.79	5,317.33	5,117.02	200.31	26.545	
15,600.00	6,083.00	7,043.57	6,226.51	176.00	26.48	-91.60	9,668.80	-4,309.53	5,321.00	5,119.70	201.30	26.433	
15,700.00	6,083.00	6,702.61	6,227.75	177.76	23.15	-91.61	10,009.64	-4,316.89	5,325.06	5,124.61	200.45	26.565	
15,800.00	6,083.00	6,596.98	6,222.99	179.51	22.35	-91.56	10,115.14	-4,316.14	5,324.57	5,123.14	201.43	26.433	
15,900.00	6,083.00	6,519.00	6,213.75	181.27	21.82	-91.46	10,192.55	-4,315.82	5,324.20	5,121.59	202.62	26.277	
15,904.50	6,083.00	6,519.00	6,213.75	181.34	21.82	-91.46	10,192.55	-4,315.82	5,324.20	5,121.52	202.68	26.269	
16,000.00	6,083.00	6,441.94	6,199.01	183.02	21.37	-91.30	10,268.15	-4,315.98	5,324.29	5,120.43	203.86	26.117	
16,100.00	6,083.00	6,361.00	6,171.41	184.78	20.94	-91.01	10,344.13	-4,316.85	5,325.00	5,119.87	205.14	25.958	
16,101.43	6,083.00	6,361.00	6,171.41	184.81	20.94	-91.01	10,344.13	-4,316.85	5,325.02	5,119.86	205.16	25.956 SF	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 6-61-3-0857BH - 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		
0.00	0.00	10,700.00	6,210.16	0.00	83.52	-31.69	6,067.17	-3,746.32	9,460.37					
100.00	100.00	10,700.00	6,210.16	0.27	83.52	-31.69	6,067.17	-3,746.32	9,394.95	9,352.16	42.80	219.528		
200.00	199.98	10,700.00	6,210.16	0.62	83.52	-110.97	6,067.17	-3,746.32	9,330.60	9,287.74	42.87	217.658		
300.00	299.84	10,700.00	6,210.16	0.99	83.52	-112.46	6,067.17	-3,746.32	9,267.86	9,224.86	43.00	215.528		
400.00	399.45	10,700.00	6,210.16	1.36	83.52	-113.88	6,067.17	-3,746.32	9,206.83	9,163.63	43.20	213.097		
500.00	498.70	10,700.00	6,210.16	1.76	83.52	-115.22	6,067.17	-3,746.32	9,147.62	9,104.14	43.48	210.385		
600.00	597.47	10,700.00	6,210.16	2.18	83.52	-116.38	6,067.17	-3,746.32	9,090.34	9,046.52	43.82	207.450		
700.00	695.99	10,700.00	6,210.16	2.62	83.52	-116.38	6,067.17	-3,746.32	9,034.35	8,990.11	44.23	204.247		
800.00	794.52	10,700.00	6,210.16	3.06	83.52	-116.38	6,067.17	-3,746.32	8,979.11	8,934.44	44.67	201.001		
900.00	893.05	10,700.00	6,210.16	3.51	83.52	-116.38	6,067.17	-3,746.32	8,924.66	8,879.53	45.13	197.745		
1,000.00	991.57	10,700.00	6,210.16	3.97	83.52	-116.38	6,067.17	-3,746.32	8,871.00	8,825.39	45.61	194.503		
1,100.00	1,090.10	10,700.00	6,210.16	4.42	83.52	-116.38	6,067.17	-3,746.32	8,818.15	8,772.05	46.10	191.288		
1,200.00	1,188.62	10,700.00	6,210.16	4.88	83.52	-116.38	6,067.17	-3,746.32	8,766.12	8,719.52	46.60	188.111		
1,300.00	1,287.15	10,700.00	6,210.16	5.34	83.52	-116.38	6,067.17	-3,746.32	8,714.93	8,667.82	47.11	184.979		
1,400.00	1,385.68	10,700.00	6,210.16	5.79	83.52	-116.38	6,067.17	-3,746.32	8,664.59	8,616.95	47.63	181.897		
1,500.00	1,484.20	10,700.00	6,210.16	6.25	83.52	-116.38	6,067.17	-3,746.32	8,615.11	8,566.95	48.16	178.868		
1,600.00	1,582.73	10,700.00	6,210.16	6.71	83.52	-116.38	6,067.17	-3,746.32	8,566.52	8,517.82	48.70	175.894		
1,700.00	1,681.26	10,700.00	6,210.16	7.17	83.52	-116.38	6,067.17	-3,746.32	8,518.82	8,469.58	49.25	172.979		
1,800.00	1,779.78	10,700.00	6,210.16	7.63	83.52	-116.38	6,067.17	-3,746.32	8,472.04	8,422.24	49.80	170.121		
1,900.00	1,878.31	10,700.00	6,210.16	8.09	83.52	-116.38	6,067.17	-3,746.32	8,426.18	8,375.82	50.36	167.324		
2,000.00	1,976.83	10,700.00	6,210.16	8.55	83.52	-116.38	6,067.17	-3,746.32	8,381.27	8,330.34	50.92	164.587		
2,100.00	2,075.36	10,700.00	6,210.16	9.01	83.52	-116.38	6,067.17	-3,746.32	8,337.31	8,285.82	51.49	161.910		
2,200.00	2,173.89	10,700.00	6,210.16	9.47	83.52	-116.38	6,067.17	-3,746.32	8,294.33	8,242.26	52.07	159.293		
2,300.00	2,272.41	10,700.00	6,210.16	9.93	83.52	-116.38	6,067.17	-3,746.32	8,252.33	8,199.68	52.65	156.737		
2,400.00	2,370.94	10,700.00	6,210.16	10.40	83.52	-116.38	6,067.17	-3,746.32	8,211.34	8,158.10	53.24	154.242		
2,500.00	2,469.47	10,700.00	6,210.16	10.86	83.52	-116.38	6,067.17	-3,746.32	8,171.36	8,117.53	53.83	151.807		
2,600.00	2,567.99	10,700.00	6,210.16	11.32	83.52	-116.38	6,067.17	-3,746.32	8,132.42	8,078.00	54.42	149.431		
2,700.00	2,666.52	10,700.00	6,210.16	11.78	83.52	-116.38	6,067.17	-3,746.32	8,094.52	8,039.50	55.02	147.116		
2,800.00	2,765.05	10,700.00	6,210.16	12.24	83.52	-116.38	6,067.17	-3,746.32	8,057.69	8,002.07	55.62	144.860		
2,900.00	2,863.57	10,700.00	6,210.16	12.70	83.52	-116.38	6,067.17	-3,746.32	8,021.94	7,965.71	56.23	142.662		
3,000.00	2,962.10	10,700.00	6,210.16	13.16	83.52	-116.38	6,067.17	-3,746.32	7,987.28	7,930.44	56.84	140.523		
3,100.00	3,060.62	10,700.00	6,210.16	13.63	83.52	-116.38	6,067.17	-3,746.32	7,953.72	7,896.27	57.45	138.442		
3,200.00	3,159.15	10,700.00	6,210.16	14.09	83.52	-116.38	6,067.17	-3,746.32	7,921.29	7,863.22	58.07	136.419		
3,300.00	3,257.68	10,700.00	6,210.16	14.55	83.52	-116.38	6,067.17	-3,746.32	7,889.99	7,831.30	58.68	134.452		
3,400.00	3,356.20	10,700.00	6,210.16	15.01	83.52	-116.38	6,067.17	-3,746.32	7,859.83	7,800.53	59.30	132.541		
3,500.00	3,454.73	10,700.00	6,210.16	15.47	83.52	-116.38	6,067.17	-3,746.32	7,830.84	7,770.92	59.92	130.687		
3,600.00	3,553.26	10,700.00	6,210.16	15.93	83.52	-116.38	6,067.17	-3,746.32	7,803.02	7,742.48	60.54	128.887		
3,700.00	3,651.78	10,700.00	6,210.16	16.40	83.52	-116.38	6,067.17	-3,746.32	7,776.39	7,715.23	61.16	127.142		
3,800.00	3,750.31	10,700.00	6,210.16	16.86	83.52	-116.38	6,067.17	-3,746.32	7,750.96	7,689.17	61.79	125.450		
3,900.00	3,848.83	10,700.00	6,210.16	17.32	83.52	-116.38	6,067.17	-3,746.32	7,726.74	7,664.33	62.41	123.812		
4,000.00	3,947.36	10,700.00	6,210.16	17.78	83.52	-116.38	6,067.17	-3,746.32	7,703.74	7,640.71	63.03	122.226		
4,100.00	4,045.89	10,700.00	6,210.16	18.24	83.52	-116.38	6,067.17	-3,746.32	7,681.97	7,618.32	63.65	120.693		
4,200.00	4,144.41	10,700.00	6,210.16	18.70	83.52	-116.38	6,067.17	-3,746.32	7,661.45	7,597.18	64.27	119.210		
4,300.00	4,242.94	10,700.00	6,210.16	19.17	83.52	-116.38	6,067.17	-3,746.32	7,642.18	7,577.29	64.89	117.778		
4,400.00	4,341.47	10,700.00	6,210.16	19.63	83.52	-116.38	6,067.17	-3,746.32	7,624.17	7,558.67	65.50	116.396		
4,500.00	4,439.99	10,700.00	6,210.16	20.09	83.52	-116.38	6,067.17	-3,746.32	7,607.43	7,541.32	66.12	115.063		
4,600.00	4,538.52	10,700.00	6,210.16	20.55	83.52	-116.38	6,067.17	-3,746.32	7,591.98	7,525.25	66.73	113.778		
4,700.00	4,637.04	10,700.00	6,210.16	21.01	83.52	-116.38	6,067.17	-3,746.32	7,577.81	7,510.48	67.33	112.542		
4,800.00	4,735.57	10,700.00	6,210.16	21.48	83.52	-116.38	6,067.17	-3,746.32	7,564.94	7,497.00	67.94	111.352		
4,900.00	4,834.10	10,700.00	6,210.16	21.94	83.52	-116.38	6,067.17	-3,746.32	7,553.37	7,484.83	68.54	110.208		
5,000.00	4,932.62	10,700.00	6,210.16	22.40	83.52	-116.38	6,067.17	-3,746.32	7,543.11	7,473.98	69.13	109.110		
5,100.00	5,031.15	10,700.00	6,210.16	22.86	83.52	-116.38	6,067.17	-3,746.32	7,534.16	7,464.44	69.72	108.057		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 6-61-3-0857BH - 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		
5,200.00	5,129.68	10,700.00	6,210.16	23.32	83.52	-116.38	6,067.17	-3,746.32	7,526.53	7,456.22	70.31	107.049		
5,300.00	5,228.20	10,700.00	6,210.16	23.79	83.52	-116.38	6,067.17	-3,746.32	7,520.23	7,449.34	70.89	106.083		
5,400.00	5,326.73	10,700.00	6,210.16	24.25	83.52	-116.38	6,067.17	-3,746.32	7,515.24	7,443.78	71.46	105.161		
5,500.00	5,425.25	10,700.00	6,210.16	24.71	83.52	-116.38	6,067.17	-3,746.32	7,511.59	7,439.56	72.03	104.280		
5,600.00	5,523.78	10,700.00	6,210.16	25.17	83.52	-116.38	6,067.17	-3,746.32	7,509.27	7,436.67	72.59	103.441		
5,700.00	5,621.78	10,700.00	6,210.16	25.64	83.52	-81.78	6,067.17	-3,746.32	7,503.42	7,430.21	73.21	102.497		
5,800.00	5,716.63	10,700.00	6,210.16	26.12	83.52	-65.96	6,067.17	-3,746.32	7,485.61	7,411.66	73.95	101.223		
5,900.00	5,805.45	10,700.00	6,210.16	26.60	83.52	-60.68	6,067.17	-3,746.32	7,456.15	7,381.33	74.81	99.663		
6,000.00	5,885.54	10,700.00	6,210.16	27.08	83.52	-59.91	6,067.17	-3,746.32	7,415.78	7,340.00	75.78	97.860		
6,100.00	5,954.47	10,700.00	6,210.16	27.57	83.52	-61.96	6,067.17	-3,746.32	7,365.58	7,288.74	76.84	95.858		
6,200.00	6,010.13	10,700.00	6,210.16	28.08	83.52	-66.35	6,067.17	-3,746.32	7,306.88	7,228.90	77.98	93.707		
6,300.00	6,050.85	10,700.00	6,210.16	28.62	83.52	-72.99	6,067.17	-3,746.32	7,241.28	7,162.10	79.18	91.456		
6,400.00	6,075.38	10,700.00	6,210.16	29.22	83.52	-81.76	6,067.17	-3,746.32	7,170.61	7,090.19	80.43	89.157		
6,500.00	6,083.00	10,700.00	6,210.16	29.87	83.52	-91.62	6,067.17	-3,746.32	7,096.92	7,015.21	81.70	86.863		
6,600.00	6,083.00	10,700.00	6,210.16	30.60	83.52	-91.62	6,067.17	-3,746.32	7,022.82	6,939.81	83.01	84.601		
6,700.00	6,083.00	10,700.00	6,210.16	31.42	83.52	-91.62	6,067.17	-3,746.32	6,949.37	6,865.00	84.37	82.366		
6,800.00	6,083.00	10,700.00	6,210.16	32.32	83.52	-91.62	6,067.17	-3,746.32	6,876.59	6,790.81	85.79	80.159		
6,900.00	6,083.00	10,700.00	6,210.16	33.30	83.52	-91.62	6,067.17	-3,746.32	6,804.51	6,717.26	87.25	77.986		
7,000.00	6,083.00	10,700.00	6,210.16	34.35	83.52	-91.62	6,067.17	-3,746.32	6,733.14	6,644.37	88.77	75.848		
7,100.00	6,083.00	10,700.00	6,210.16	35.45	83.52	-91.62	6,067.17	-3,746.32	6,662.50	6,572.16	90.34	73.749		
7,200.00	6,083.00	10,700.00	6,210.16	36.62	83.52	-91.62	6,067.17	-3,746.32	6,592.62	6,500.66	91.96	71.689		
7,300.00	6,083.00	10,700.00	6,210.16	37.83	83.52	-91.62	6,067.17	-3,746.32	6,523.53	6,429.90	93.63	69.673		
7,400.00	6,083.00	10,700.00	6,210.16	39.09	83.52	-91.62	6,067.17	-3,746.32	6,455.25	6,359.90	95.35	67.700		
7,500.00	6,083.00	10,700.00	6,210.16	40.39	83.52	-91.62	6,067.17	-3,746.32	6,387.80	6,290.69	97.12	65.773		
7,600.00	6,083.00	10,700.00	6,210.16	41.73	83.52	-91.62	6,067.17	-3,746.32	6,321.22	6,222.29	98.94	63.893		
7,700.00	6,083.00	10,700.00	6,210.16	43.10	83.52	-91.62	6,067.17	-3,746.32	6,255.53	6,154.73	100.80	62.060		
7,800.00	6,083.00	10,700.00	6,210.16	44.50	83.52	-91.62	6,067.17	-3,746.32	6,190.75	6,088.04	102.71	60.276		
7,900.00	6,083.00	10,700.00	6,210.16	45.93	83.52	-91.62	6,067.17	-3,746.32	6,126.92	6,022.26	104.66	58.540		
8,000.00	6,083.00	10,700.00	6,210.16	47.38	83.52	-91.62	6,067.17	-3,746.32	6,064.07	5,957.41	106.66	56.854		
8,100.00	6,083.00	10,700.00	6,210.16	48.85	83.52	-91.62	6,067.17	-3,746.32	6,002.23	5,893.53	108.70	55.218		
8,200.00	6,083.00	10,700.00	6,210.16	50.34	83.52	-91.62	6,067.17	-3,746.32	5,941.43	5,830.64	110.78	53.631		
8,300.00	6,083.00	10,700.00	6,210.16	51.85	83.52	-91.62	6,067.17	-3,746.32	5,881.69	5,768.79	112.91	52.093		
8,400.00	6,083.00	10,700.00	6,210.16	53.38	83.52	-91.62	6,067.17	-3,746.32	5,823.07	5,708.00	115.07	50.605		
8,500.00	6,083.00	10,700.00	6,210.16	54.92	83.52	-91.62	6,067.17	-3,746.32	5,765.58	5,648.31	117.27	49.166		
8,600.00	6,083.00	10,700.00	6,210.16	56.48	83.52	-91.62	6,067.17	-3,746.32	5,709.26	5,589.76	119.50	47.775		
8,700.00	6,083.00	10,700.00	6,210.16	58.04	83.52	-91.62	6,067.17	-3,746.32	5,654.15	5,532.38	121.77	46.433		
8,800.00	6,083.00	10,700.00	6,210.16	59.63	83.52	-91.62	6,067.17	-3,746.32	5,600.29	5,476.22	124.07	45.138		
8,900.00	6,083.00	10,700.00	6,210.16	61.22	83.52	-91.62	6,067.17	-3,746.32	5,547.71	5,421.30	126.40	43.889		
9,000.00	6,083.00	10,700.00	6,210.16	62.82	83.52	-91.62	6,067.17	-3,746.32	5,496.44	5,367.68	128.76	42.688		
9,100.00	6,083.00	10,700.00	6,210.16	64.43	83.52	-91.62	6,067.17	-3,746.32	5,446.52	5,315.38	131.14	41.531		
9,200.00	6,083.00	10,700.00	6,210.16	66.05	83.52	-91.62	6,067.17	-3,746.32	5,398.00	5,264.45	133.55	40.420		
9,300.00	6,083.00	10,700.00	6,210.16	67.67	83.52	-91.62	6,067.17	-3,746.32	5,350.90	5,214.93	135.97	39.353		
9,400.00	6,083.00	10,700.00	6,210.16	69.31	83.52	-91.62	6,067.17	-3,746.32	5,305.28	5,166.86	138.41	38.329		
9,500.00	6,083.00	10,700.00	6,210.16	70.95	83.52	-91.62	6,067.17	-3,746.32	5,261.15	5,120.28	140.87	37.347		
9,600.00	6,083.00	10,700.00	6,210.16	72.60	83.52	-91.62	6,067.17	-3,746.32	5,218.58	5,075.24	143.34	36.408		
9,700.00	6,083.00	10,700.00	6,210.16	74.25	83.52	-91.62	6,067.17	-3,746.32	5,177.58	5,031.77	145.81	35.509		
9,800.00	6,083.00	10,700.00	6,210.16	75.91	83.52	-91.62	6,067.17	-3,746.32	5,138.20	4,989.91	148.29	34.651		
9,900.00	6,083.00	10,700.00	6,210.16	77.57	83.52	-91.62	6,067.17	-3,746.32	5,100.48	4,949.72	150.76	33.831		
10,000.00	6,083.00	10,700.00	6,210.16	79.24	83.52	-91.62	6,067.17	-3,746.32	5,064.45	4,911.22	153.23	33.050		
10,100.00	6,083.00	10,700.00	6,210.16	80.91	83.52	-91.62	6,067.17	-3,746.32	5,030.15	4,874.46	155.70	32.307		
10,200.00	6,083.00	10,700.00	6,210.16	82.59	83.52	-91.62	6,067.17	-3,746.32	4,997.62	4,839.47	158.15	31.601		
10,300.00	6,083.00	10,700.00	6,210.16	84.27	83.52	-91.62	6,067.17	-3,746.32	4,966.89	4,806.31	160.58	30.930		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 6-61-3-0857BH - 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	85.95	83.52	-91.62	6,067.17	-3,746.32	4,938.00	4,775.00	163.00	30.295		
10,500.00	6,083.00	10,700.00	6,210.16	87.64	83.52	-91.62	6,067.17	-3,746.32	4,910.97	4,745.58	165.38	29.695		
10,600.00	6,083.00	10,700.00	6,210.16	89.34	83.52	-91.62	6,067.17	-3,746.32	4,885.83	4,718.09	167.74	29.127		
10,700.00	6,083.00	10,700.00	6,210.16	91.03	83.52	-91.62	6,067.17	-3,746.32	4,862.63	4,692.57	170.06	28.593		
10,800.00	6,083.00	10,700.00	6,210.16	92.73	83.52	-91.62	6,067.17	-3,746.32	4,841.38	4,669.03	172.35	28.091		
10,900.00	6,083.00	10,700.00	6,210.16	94.43	83.52	-91.62	6,067.17	-3,746.32	4,822.11	4,647.52	174.59	27.620		
11,000.00	6,083.00	10,700.00	6,210.16	96.13	83.52	-91.62	6,067.17	-3,746.32	4,804.84	4,628.07	176.78	27.180		
11,100.00	6,083.00	10,700.00	6,210.16	97.84	83.52	-91.62	6,067.17	-3,746.32	4,789.60	4,610.69	178.92	26.770		
11,200.00	6,083.00	10,700.00	6,210.16	99.55	83.52	-91.62	6,067.17	-3,746.32	4,776.41	4,595.41	181.00	26.389		
11,300.00	6,083.00	10,700.00	6,210.16	101.26	83.52	-91.62	6,067.17	-3,746.32	4,765.28	4,582.25	183.02	26.036		
11,400.00	6,083.00	10,700.00	6,210.16	102.97	83.52	-91.62	6,067.17	-3,746.32	4,756.22	4,571.24	184.98	25.712		
11,500.00	6,083.00	10,700.00	6,210.16	104.68	83.52	-91.62	6,067.17	-3,746.32	4,749.26	4,562.38	186.87	25.414		
11,600.00	6,083.00	10,700.00	6,210.16	106.40	83.52	-91.62	6,067.17	-3,746.32	4,744.39	4,555.69	188.69	25.143		
11,700.00	6,083.00	10,700.00	6,210.16	108.12	83.52	-91.62	6,067.17	-3,746.32	4,741.63	4,551.19	190.44	24.898		
11,781.08	6,083.00	10,700.00	6,210.16	109.51	83.52	-91.62	6,067.17	-3,746.32	4,740.93	4,549.13	191.80	24.718		
11,800.00	6,083.00	10,700.00	6,210.16	109.84	83.52	-91.62	6,067.17	-3,746.32	4,740.97	4,548.86	192.11	24.679		
11,900.00	6,083.00	10,652.61	6,210.24	111.56	82.71	-91.62	6,114.56	-3,746.89	4,742.20	4,549.24	192.96	24.576		
12,000.00	6,083.00	10,495.17	6,209.72	113.29	80.02	-91.62	6,271.99	-3,747.51	4,742.82	4,550.75	192.07	24.693		
12,100.00	6,083.00	10,284.86	6,208.64	115.01	76.46	-91.60	6,482.28	-3,745.54	4,742.48	4,552.20	190.29	24.923		
12,200.00	6,083.00	10,208.18	6,209.24	116.74	75.17	-91.61	6,558.92	-3,743.43	4,740.23	4,549.51	190.72	24.854		
12,300.00	6,083.00	10,161.00	6,209.63	118.47	74.38	-91.62	6,606.10	-3,743.02	4,739.48	4,547.84	191.63	24.732		
12,320.01	6,083.00	10,161.00	6,209.63	118.81	74.38	-91.62	6,606.10	-3,743.02	4,739.43	4,547.47	191.96	24.689		
12,400.00	6,083.00	10,124.33	6,209.86	120.19	73.76	-91.62	6,642.76	-3,743.15	4,739.89	4,547.21	192.68	24.599		
12,500.00	6,083.00	9,932.34	6,210.09	121.93	70.53	-91.62	6,834.73	-3,742.10	4,739.55	4,548.29	191.26	24.781		
12,569.25	6,083.00	9,907.36	6,209.74	123.12	70.11	-91.62	6,859.71	-3,741.88	4,739.16	4,547.15	192.01	24.682		
12,600.00	6,083.00	9,875.00	6,209.04	123.66	69.57	-91.61	6,892.06	-3,741.96	4,739.33	4,547.33	192.00	24.684		
12,605.97	6,083.00	9,875.00	6,209.04	123.76	69.57	-91.61	6,892.06	-3,741.96	4,739.33	4,547.23	192.10	24.671		
12,700.00	6,083.00	9,828.57	6,208.28	125.39	68.79	-91.60	6,938.48	-3,742.32	4,740.06	4,547.16	192.90	24.573		
12,800.00	6,083.00	9,587.00	6,211.39	127.12	64.77	-91.64	7,180.01	-3,740.99	4,740.32	4,549.63	190.70	24.858		
12,900.00	6,083.00	9,529.32	6,212.31	128.86	63.82	-91.65	7,237.67	-3,739.65	4,738.56	4,547.10	191.46	24.749		
12,988.90	6,083.00	9,492.00	6,212.71	130.40	63.20	-91.65	7,274.98	-3,739.31	4,738.08	4,545.72	192.35	24.632		
13,000.00	6,083.00	9,492.00	6,212.71	130.60	63.20	-91.65	7,274.98	-3,739.31	4,738.09	4,545.55	192.54	24.609		
13,100.00	6,083.00	9,420.19	6,212.46	132.33	62.02	-91.65	7,346.79	-3,739.37	4,738.54	4,545.49	193.05	24.545		
13,200.00	6,083.00	9,272.92	6,209.59	134.07	59.59	-91.62	7,494.03	-3,739.46	4,738.88	4,546.48	192.40	24.630		
13,300.00	6,083.00	9,156.67	6,210.38	135.81	57.70	-91.62	7,610.27	-3,738.93	4,738.83	4,546.58	192.25	24.650		
13,400.00	6,083.00	8,991.17	6,213.52	137.55	55.03	-91.66	7,775.71	-3,735.91	4,737.24	4,545.91	191.33	24.760		
13,500.00	6,083.00	8,917.00	6,213.53	139.29	53.84	-91.66	7,849.86	-3,734.48	4,735.64	4,543.78	191.86	24.683		
13,600.00	6,083.00	8,832.15	6,211.61	141.03	52.49	-91.64	7,934.68	-3,733.26	4,734.47	4,542.25	192.23	24.630		
13,697.52	6,083.00	8,783.22	6,210.28	142.73	51.71	-91.63	7,983.58	-3,732.83	4,733.92	4,540.82	193.10	24.515 CC		
13,700.00	6,083.00	8,782.12	6,210.26	142.78	51.69	-91.63	7,984.69	-3,732.83	4,733.92	4,540.80	193.12	24.512		
13,800.00	6,083.00	8,725.00	6,209.51	144.52	50.78	-91.62	8,041.80	-3,733.10	4,734.58	4,540.68	193.90	24.418		
13,900.00	6,083.00	8,630.00	6,210.01	146.26	49.28	-91.62	8,136.80	-3,733.67	4,735.52	4,541.40	194.12	24.395		
14,000.00	6,083.00	8,630.00	6,210.01	148.01	49.28	-91.62	8,136.80	-3,733.67	4,737.62	4,541.93	195.68	24.211		
14,100.00	6,083.00	8,574.22	6,210.58	149.75	48.39	-91.63	8,192.56	-3,734.70	4,740.46	4,544.02	196.43	24.133		
14,200.00	6,083.00	8,534.00	6,210.60	151.50	47.76	-91.63	8,232.73	-3,736.75	4,745.46	4,548.09	197.37	24.044		
14,300.00	6,083.00	8,504.83	6,210.55	153.25	47.30	-91.63	8,261.83	-3,738.63	4,751.74	4,553.34	198.41	23.949		
14,400.00	6,083.00	8,309.63	6,210.38	154.99	44.23	-91.62	8,456.68	-3,750.21	4,758.43	4,561.04	197.39	24.106		
14,500.00	6,083.00	7,966.65	6,209.31	156.74	39.09	-91.60	8,799.49	-3,757.54	4,761.36	4,566.91	194.45	24.486		
14,600.00	6,083.00	7,820.39	6,208.41	158.49	37.02	-91.59	8,945.74	-3,756.08	4,760.73	4,566.59	194.14	24.523		
14,700.00	6,083.00	7,765.00	6,208.67	160.24	36.25	-91.60	9,001.12	-3,755.01	4,759.50	4,564.45	195.05	24.401		
14,754.14	6,083.00	7,725.83	6,209.09	161.19	35.71	-91.60	9,040.28	-3,754.49	4,759.10	4,563.67	195.44	24.351		
14,800.00	6,083.00	7,712.04	6,209.21	161.99	35.52	-91.60	9,054.07	-3,754.48	4,759.26	4,563.26	196.00	24.282		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 6-61-3-0857BH - 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	
14,900.00	6,083.00	7,669.00	6,209.51	163.74	34.93	-91.61	9,097.10	-3,755.07	4,760.73	4,563.68	197.04	24.161	
15,000.00	6,083.00	7,669.00	6,209.51	165.49	34.93	-91.61	9,097.10	-3,755.07	4,763.65	4,565.10	198.54	23.993	
15,100.00	6,083.00	7,612.88	6,209.72	167.24	34.17	-91.61	9,153.19	-3,757.03	4,767.74	4,568.35	199.38	23.912	
15,200.00	6,083.00	7,572.00	6,209.76	168.99	33.62	-91.61	9,194.01	-3,759.20	4,773.30	4,572.94	200.36	23.823	
15,300.00	6,083.00	7,533.25	6,209.76	170.74	33.10	-91.61	9,232.68	-3,761.75	4,780.12	4,578.78	201.34	23.741	
15,400.00	6,083.00	7,475.00	6,209.76	172.50	32.33	-91.61	9,290.75	-3,766.29	4,788.12	4,586.00	202.12	23.689	
15,500.00	6,083.00	7,197.33	6,212.24	174.25	28.91	-91.63	9,567.92	-3,782.11	4,793.56	4,592.42	201.14	23.832	
15,600.00	6,083.00	6,360.00	6,137.88	176.00	23.69	-90.74	10,388.81	-3,759.60	4,793.74	4,596.38	197.36	24.290	
15,700.00	6,083.00	6,040.00	5,941.52	177.76	23.63	-88.37	10,637.84	-3,724.74	4,779.45	4,581.50	197.95	24.145	
15,800.00	6,083.00	6,020.09	5,926.24	179.51	23.63	-88.19	10,650.43	-3,722.61	4,766.71	4,566.95	199.76	23.862	
15,900.00	6,083.00	6,008.00	5,916.71	181.27	23.62	-88.07	10,657.77	-3,721.44	4,755.80	4,554.26	201.54	23.597	
16,000.00	6,083.00	5,976.00	5,890.55	183.02	23.60	-87.75	10,676.00	-3,718.80	4,746.77	4,543.57	203.20	23.360	
16,100.00	6,083.00	5,976.00	5,890.55	184.78	23.60	-87.75	10,676.00	-3,718.80	4,739.60	4,534.70	204.90	23.131	
16,101.43	6,083.00	5,976.00	5,890.55	184.81	23.60	-87.75	10,676.00	-3,718.80	4,739.51	4,534.58	204.93	23.127 ES, SF	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	0.00	89.99	0.00	89.99					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	89.99	0.00	89.99	89.45	0.54	167.350		
200.00	199.98	199.75	199.73	0.62	0.62	-79.89	90.06	-1.73	89.75	88.51	1.24	72.112		
250.37	250.30	249.77	249.70	0.81	0.80	-82.65	90.15	-3.91	89.65	88.04	1.61	55.800 CC		
300.00	299.84	298.79	298.63	0.99	0.98	-86.43	90.27	-6.89	89.85	87.88	1.96	45.786 ES		
400.00	399.45	396.42	395.89	1.36	1.35	-96.77	90.62	-15.31	92.57	89.87	2.71	34.215		
500.00	498.70	492.01	490.78	1.76	1.72	-109.30	91.10	-26.76	101.15	97.68	3.47	29.153		
600.00	597.47	584.95	582.63	2.18	2.12	-121.59	91.69	-40.91	118.21	113.98	4.23	27.934		
700.00	695.99	675.43	671.56	2.62	2.53	-131.76	92.39	-57.55	143.34	138.40	4.95	28.985		
800.00	794.52	763.76	757.84	3.06	2.95	-139.20	93.18	-76.49	174.49	168.87	5.62	31.050		
900.00	893.05	849.86	841.33	3.51	3.40	-144.62	94.06	-97.49	210.43	204.17	6.27	33.582		
1,000.00	991.57	933.66	921.95	3.97	3.87	-148.62	95.01	-120.34	250.35	243.46	6.89	36.343		
1,100.00	1,090.10	1,015.12	999.64	4.42	4.36	-151.63	96.03	-144.80	293.68	286.19	7.49	39.191		
1,200.00	1,188.62	1,094.20	1,074.37	4.88	4.87	-153.93	97.11	-170.64	340.06	331.98	8.08	42.065		
1,300.00	1,287.15	1,170.90	1,146.13	5.34	5.41	-155.73	98.24	-197.67	389.20	380.54	8.66	44.944		
1,400.00	1,385.68	1,245.21	1,214.95	5.79	5.96	-157.16	99.41	-225.67	440.88	431.66	9.22	47.819		
1,500.00	1,484.20	1,317.15	1,280.86	6.25	6.52	-158.32	100.61	-254.48	494.91	485.15	9.76	50.686		
1,600.00	1,582.73	1,386.75	1,343.91	6.71	7.10	-159.26	101.84	-283.90	551.14	540.85	10.29	53.541		
1,700.00	1,681.26	1,454.03	1,404.18	7.17	7.69	-160.03	103.09	-313.80	609.44	598.63	10.81	56.382		
1,800.00	1,779.78	1,526.64	1,468.53	7.63	8.35	-160.75	104.49	-347.40	669.45	658.06	11.39	58.782		
1,900.00	1,878.31	1,606.15	1,538.91	8.09	9.09	-161.41	106.03	-384.36	729.75	717.70	12.05	60.569		
2,000.00	1,976.83	1,685.67	1,609.29	8.55	9.85	-161.97	107.58	-421.33	790.10	777.39	12.71	62.153		
2,100.00	2,075.36	1,765.18	1,679.67	9.01	10.61	-162.46	109.12	-458.29	850.49	837.11	13.38	63.563		
2,200.00	2,173.89	1,844.69	1,750.05	9.47	11.37	-162.88	110.66	-495.26	910.92	896.87	14.05	64.826		
2,300.00	2,272.41	1,924.20	1,820.43	9.93	12.13	-163.24	112.21	-532.22	971.37	956.65	14.73	65.963		
2,400.00	2,370.94	2,003.71	1,890.81	10.40	12.90	-163.57	113.75	-569.19	1,031.85	1,016.45	15.40	66.990		
2,500.00	2,469.47	2,083.22	1,961.19	10.86	13.67	-163.86	115.29	-606.15	1,092.35	1,076.26	16.08	67.922		
2,600.00	2,567.99	2,162.74	2,031.57	11.32	14.45	-164.11	116.84	-643.12	1,152.86	1,136.09	16.76	68.770		
2,700.00	2,666.52	2,242.25	2,101.95	11.78	15.23	-164.35	118.38	-680.08	1,213.38	1,195.93	17.45	69.546		
2,800.00	2,765.05	2,321.76	2,172.33	12.24	16.00	-164.56	119.92	-717.05	1,273.92	1,255.79	18.13	70.258		
2,900.00	2,863.57	2,401.27	2,242.71	12.70	16.78	-164.75	121.47	-754.01	1,334.46	1,315.65	18.82	70.913		
3,000.00	2,962.10	2,480.78	2,313.09	13.16	17.56	-164.92	123.01	-790.98	1,395.02	1,375.51	19.51	71.516		
3,100.00	3,060.62	2,560.30	2,383.47	13.63	18.34	-165.08	124.55	-827.95	1,455.58	1,435.39	20.20	72.075		
3,200.00	3,159.15	2,639.81	2,453.85	14.09	19.12	-165.23	126.10	-864.91	1,516.15	1,495.26	20.89	72.593		
3,300.00	3,257.68	2,719.32	2,524.23	14.55	19.91	-165.37	127.64	-901.88	1,576.73	1,555.15	21.58	73.074		
3,400.00	3,356.20	2,798.83	2,594.61	15.01	20.69	-165.49	129.19	-938.84	1,637.31	1,615.04	22.27	73.523		
3,500.00	3,454.73	2,878.34	2,664.99	15.47	21.48	-165.61	130.73	-975.81	1,697.89	1,674.93	22.96	73.941		
3,600.00	3,553.26	2,957.85	2,735.37	15.93	22.26	-165.72	132.27	-1,012.77	1,758.48	1,734.82	23.66	74.332		
3,700.00	3,651.78	3,037.37	2,805.75	16.40	23.05	-165.82	133.82	-1,049.74	1,819.07	1,794.72	24.35	74.698		
3,800.00	3,750.31	3,116.88	2,876.13	16.86	23.83	-165.92	135.36	-1,086.70	1,879.67	1,854.62	25.05	75.042		
3,900.00	3,848.83	3,196.39	2,946.51	17.32	24.62	-166.01	136.90	-1,123.67	1,940.27	1,914.52	25.74	75.365		
4,000.00	3,947.36	3,275.90	3,016.89	17.78	25.40	-166.09	138.45	-1,160.63	2,000.87	1,974.43	26.44	75.669		
4,100.00	4,045.89	3,355.41	3,087.27	18.24	26.19	-166.17	139.99	-1,197.60	2,061.47	2,034.33	27.14	75.955		
4,200.00	4,144.41	3,434.93	3,157.65	18.70	26.98	-166.24	141.53	-1,234.56	2,122.08	2,094.24	27.84	76.225		
4,300.00	4,242.94	3,514.44	3,228.03	19.17	27.77	-166.31	143.08	-1,271.53	2,182.69	2,154.15	28.54	76.480		
4,400.00	4,341.47	3,593.95	3,298.41	19.63	28.55	-166.38	144.62	-1,308.49	2,243.30	2,214.06	29.24	76.721		
4,500.00	4,439.99	3,673.46	3,368.79	20.09	29.34	-166.44	146.16	-1,345.46	2,303.91	2,273.97	29.94	76.949		
4,600.00	4,538.52	3,752.97	3,439.17	20.55	30.13	-166.50	147.71	-1,382.42	2,364.53	2,333.89	30.64	77.166		
4,700.00	4,637.04	3,832.48	3,509.55	21.01	30.92	-166.56	149.25	-1,419.39	2,425.14	2,393.80	31.34	77.371		
4,800.00	4,735.57	3,912.00	3,579.93	21.48	31.71	-166.61	150.79	-1,456.35	2,485.76	2,453.71	32.05	77.565		
4,900.00	4,834.10	3,991.51	3,650.31	21.94	32.49	-166.66	152.34	-1,493.32	2,546.38	2,513.63	32.75	77.750		
5,000.00	4,932.62	4,071.02	3,720.69	22.40	33.28	-166.71	153.88	-1,530.29	2,607.00	2,573.55	33.45	77.926		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,031.15	4,150.53	3,791.07	22.86	34.07	-166.76	155.42	-1,567.25	2,667.62	2,633.46	34.16	78.093		
5,200.00	5,129.68	4,230.04	3,861.45	23.32	34.86	-166.81	156.97	-1,604.22	2,728.24	2,693.38	34.86	78.252		
5,300.00	5,228.20	4,309.56	3,931.83	23.79	35.65	-166.85	158.51	-1,641.18	2,788.87	2,753.30	35.57	78.404		
5,400.00	5,326.73	4,389.07	4,002.21	24.25	36.44	-166.89	160.05	-1,678.15	2,849.49	2,813.21	36.28	78.548		
5,500.00	5,425.25	4,468.58	4,072.59	24.71	37.23	-166.93	161.60	-1,715.11	2,910.12	2,873.13	36.98	78.686		
5,600.00	5,523.78	4,548.09	4,142.97	25.17	38.02	-166.97	163.14	-1,752.08	2,970.74	2,933.05	37.69	78.817		
5,700.00	5,621.78	4,627.29	4,213.07	25.64	38.81	-125.81	164.68	-1,788.90	3,031.13	2,992.72	38.41	78.922		
5,800.00	5,716.63	4,704.25	4,281.19	26.12	39.57	-102.21	166.17	-1,824.68	3,089.95	3,050.82	39.13	78.968		
5,900.00	5,805.45	4,776.64	4,345.26	26.60	40.29	-89.21	167.58	-1,858.33	3,145.79	3,105.95	39.85	78.947		
6,000.00	5,885.54	4,842.25	4,403.34	27.08	40.94	-80.65	168.85	-1,888.83	3,197.55	3,156.99	40.56	78.841		
6,100.00	5,954.47	4,899.10	4,453.66	27.57	41.51	-74.53	169.95	-1,915.26	3,244.33	3,203.07	41.26	78.624		
6,200.00	6,010.13	4,945.46	4,494.70	28.08	41.97	-70.00	170.85	-1,936.81	3,285.47	3,243.49	41.97	78.274		
6,300.00	6,050.85	4,979.91	4,525.19	28.62	42.31	-66.62	171.52	-1,952.83	3,320.39	3,277.70	42.69	77.775		
6,400.00	6,075.38	5,001.42	4,544.23	29.22	42.52	-64.13	171.94	-1,962.83	3,348.64	3,305.22	43.42	77.123		
6,500.00	6,083.00	5,009.34	4,551.24	29.87	42.60	-62.47	172.09	-1,966.51	3,369.79	3,325.64	44.15	76.331		
6,600.00	6,083.00	5,011.12	4,552.82	30.60	42.62	-62.51	172.13	-1,967.34	3,389.26	3,344.33	44.93	75.433		
6,700.00	6,083.00	5,012.91	4,554.40	31.42	42.64	-62.54	172.16	-1,968.17	3,411.55	3,365.75	45.80	74.492		
6,800.00	6,083.00	5,014.69	4,555.98	32.32	42.66	-62.57	172.20	-1,969.00	3,436.60	3,389.87	46.73	73.536		
6,900.00	6,083.00	5,016.48	4,557.56	33.30	42.67	-62.60	172.23	-1,969.83	3,464.36	3,416.63	47.73	72.586		
7,000.00	6,083.00	5,018.26	4,559.14	34.35	42.69	-62.63	172.27	-1,970.66	3,494.76	3,445.99	48.77	71.661		
7,100.00	6,083.00	5,020.04	4,560.71	35.45	42.71	-62.66	172.30	-1,971.49	3,527.74	3,477.89	49.84	70.775		
7,200.00	6,083.00	5,021.83	4,562.29	36.62	42.73	-62.69	172.34	-1,972.32	3,563.21	3,512.27	50.95	69.942		
7,300.00	6,083.00	5,023.61	4,563.87	37.83	42.74	-62.72	172.37	-1,973.15	3,601.11	3,549.05	52.06	69.169		
7,400.00	6,083.00	5,025.40	4,565.45	39.09	42.76	-62.75	172.41	-1,973.98	3,641.37	3,588.18	53.19	68.462		
7,500.00	6,083.00	5,027.18	4,567.03	40.39	42.78	-62.78	172.44	-1,974.81	3,683.90	3,629.58	54.31	67.825		
7,600.00	6,083.00	5,028.96	4,568.61	41.73	42.80	-62.81	172.47	-1,975.64	3,728.62	3,673.18	55.44	67.259		
7,700.00	6,083.00	8,280.99	6,083.00	43.10	66.30	-90.00	1,982.68	-2,765.06	3,743.98	3,659.69	84.29	44.416		
7,800.00	6,083.00	8,380.99	6,083.00	44.50	67.04	-90.00	2,082.68	-2,764.73	3,743.98	3,656.83	87.15	42.961		
7,900.00	6,083.00	8,480.99	6,083.00	45.93	67.82	-90.00	2,182.68	-2,764.39	3,743.99	3,653.93	90.05	41.576		
8,000.00	6,083.00	8,580.99	6,083.00	47.38	68.64	-90.00	2,282.68	-2,764.06	3,743.99	3,650.99	93.00	40.258		
8,100.00	6,083.00	8,680.99	6,083.00	48.85	69.50	-90.00	2,382.68	-2,763.72	3,743.99	3,648.00	95.99	39.004		
8,200.00	6,083.00	8,780.99	6,083.00	50.34	70.40	-90.00	2,482.68	-2,763.38	3,743.99	3,644.98	99.01	37.813		
8,300.00	6,083.00	8,880.99	6,083.00	51.85	71.32	-90.00	2,582.68	-2,763.05	3,743.99	3,641.92	102.07	36.679		
8,400.00	6,083.00	8,980.99	6,083.00	53.38	72.29	-90.00	2,682.68	-2,762.71	3,743.99	3,638.83	105.16	35.602		
8,500.00	6,083.00	9,080.99	6,083.00	54.92	73.29	-90.00	2,782.68	-2,762.38	3,744.00	3,635.72	108.28	34.577		
8,600.00	6,083.00	9,180.99	6,083.00	56.48	74.32	-90.00	2,882.68	-2,762.04	3,744.00	3,632.58	111.42	33.602		
8,700.00	6,083.00	9,280.99	6,083.00	58.04	75.38	-90.00	2,982.68	-2,761.70	3,744.00	3,629.41	114.59	32.673		
8,800.00	6,083.00	9,380.99	6,083.00	59.63	76.47	-90.00	3,082.68	-2,761.37	3,744.00	3,626.22	117.78	31.789		
8,900.00	6,083.00	9,480.99	6,083.00	61.22	77.60	-90.00	3,182.68	-2,761.03	3,744.00	3,623.02	120.99	30.946		
9,000.00	6,083.00	9,580.99	6,083.00	62.82	78.75	-90.00	3,282.68	-2,760.70	3,744.01	3,619.79	124.21	30.142		
9,100.00	6,083.00	9,680.99	6,083.00	64.43	79.92	-90.00	3,382.68	-2,760.36	3,744.01	3,616.55	127.46	29.375		
9,200.00	6,083.00	9,780.99	6,083.00	66.05	81.13	-90.00	3,482.68	-2,760.03	3,744.01	3,613.29	130.72	28.642		
9,300.00	6,083.00	9,880.99	6,083.00	67.67	82.35	-90.00	3,582.68	-2,759.69	3,744.01	3,610.02	133.99	27.943		
9,400.00	6,083.00	9,980.99	6,083.00	69.31	83.61	-90.00	3,682.68	-2,759.35	3,744.01	3,606.74	137.28	27.273		
9,500.00	6,083.00	10,080.99	6,083.00	70.95	84.88	-90.00	3,782.67	-2,759.02	3,744.02	3,603.44	140.58	26.633		
9,600.00	6,083.00	10,180.99	6,083.00	72.60	86.17	-90.00	3,882.67	-2,758.68	3,744.02	3,600.13	143.89	26.020		
9,700.00	6,083.00	10,280.99	6,083.00	74.25	87.49	-90.00	3,982.67	-2,758.35	3,744.02	3,596.81	147.21	25.433		
9,800.00	6,083.00	10,380.99	6,083.00	75.91	88.82	-90.00	4,082.67	-2,758.01	3,744.02	3,593.48	150.54	24.870		
9,900.00	6,083.00	10,480.99	6,083.00	77.57	90.17	-90.00	4,182.67	-2,757.67	3,744.02	3,590.14	153.89	24.330		
10,000.00	6,083.00	10,580.99	6,083.00	79.24	91.54	-90.00	4,282.67	-2,757.34	3,744.03	3,586.79	157.24	23.811		
10,100.00	6,083.00	10,680.99	6,083.00	80.91	92.92	-90.00	4,382.67	-2,757.00	3,744.03	3,583.43	160.60	23.313		
10,200.00	6,083.00	10,780.99	6,083.00	82.59	94.32	-90.00	4,482.67	-2,756.67	3,744.03	3,580.06	163.97	22.834		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	10,880.99	6,083.00	84.27	95.74	-90.00	4,582.67	-2,756.33	3,744.03	3,576.69	167.34	22.373		
10,400.00	6,083.00	10,980.99	6,083.00	85.95	97.17	-90.00	4,682.67	-2,755.99	3,744.03	3,573.31	170.72	21.930		
10,500.00	6,083.00	11,080.99	6,083.00	87.64	98.61	-90.00	4,782.67	-2,755.66	3,744.04	3,569.92	174.11	21.503		
10,600.00	6,083.00	11,180.99	6,083.00	89.34	100.06	-90.00	4,882.67	-2,755.32	3,744.04	3,566.53	177.51	21.092		
10,700.00	6,083.00	11,280.99	6,083.00	91.03	101.53	-90.00	4,982.67	-2,754.99	3,744.04	3,563.13	180.91	20.696		
10,800.00	6,083.00	11,380.99	6,083.00	92.73	103.01	-90.00	5,082.67	-2,754.65	3,744.04	3,559.73	184.32	20.313		
10,900.00	6,083.00	11,480.99	6,083.00	94.43	104.50	-90.00	5,182.67	-2,754.31	3,744.04	3,556.32	187.73	19.944		
11,000.00	6,083.00	11,580.99	6,083.00	96.13	106.00	-90.00	5,282.67	-2,753.98	3,744.05	3,552.90	191.14	19.588		
11,100.00	6,083.00	11,680.99	6,083.00	97.84	107.51	-90.00	5,382.67	-2,753.64	3,744.05	3,549.48	194.57	19.243		
11,200.00	6,083.00	11,780.99	6,083.00	99.55	109.02	-90.00	5,482.67	-2,753.31	3,744.05	3,546.06	197.99	18.910		
11,300.00	6,083.00	11,880.99	6,083.00	101.26	110.55	-90.00	5,582.66	-2,752.97	3,744.05	3,542.63	201.42	18.588		
11,400.00	6,083.00	11,980.99	6,083.00	102.97	112.09	-90.00	5,682.66	-2,752.64	3,744.05	3,539.20	204.86	18.277		
11,500.00	6,083.00	12,080.99	6,083.00	104.68	113.63	-90.00	5,782.66	-2,752.30	3,744.05	3,535.76	208.29	17.975		
11,600.00	6,083.00	12,180.99	6,083.00	106.40	115.18	-90.00	5,882.66	-2,751.96	3,744.06	3,532.32	211.73	17.683		
11,700.00	6,083.00	12,280.99	6,083.00	108.12	116.74	-90.00	5,982.66	-2,751.63	3,744.06	3,528.88	215.18	17.400		
11,800.00	6,083.00	12,380.99	6,083.00	109.84	118.30	-90.00	6,082.66	-2,751.29	3,744.06	3,525.43	218.63	17.125		
11,900.00	6,083.00	12,480.99	6,083.00	111.56	119.88	-90.00	6,182.66	-2,750.96	3,744.06	3,521.98	222.08	16.859		
12,000.00	6,083.00	12,580.99	6,083.00	113.29	121.45	-90.00	6,282.66	-2,750.62	3,744.06	3,518.53	225.53	16.601		
12,100.00	6,083.00	12,680.99	6,083.00	115.01	123.04	-90.00	6,382.66	-2,750.28	3,744.07	3,515.08	228.99	16.350		
12,200.00	6,083.00	12,780.99	6,083.00	116.74	124.63	-90.00	6,482.66	-2,749.95	3,744.07	3,511.62	232.45	16.107		
12,300.00	6,083.00	12,880.99	6,083.00	118.47	126.22	-90.00	6,582.66	-2,749.61	3,744.07	3,508.16	235.91	15.871		
12,400.00	6,083.00	12,980.99	6,083.00	120.19	127.82	-90.00	6,682.66	-2,749.28	3,744.07	3,504.69	239.38	15.641		
12,500.00	6,083.00	13,080.99	6,083.00	121.93	129.43	-90.00	6,782.66	-2,748.94	3,744.07	3,501.23	242.85	15.418		
12,500.45	6,083.00	13,081.44	6,083.00	121.93	129.44	-90.00	6,783.11	-2,748.94	3,744.07	3,501.21	242.86	15.417		
12,600.00	6,083.00	13,152.35	6,083.00	123.66	130.58	-90.00	6,854.01	-2,748.70	3,744.19	3,498.16	246.03	15.218		
12,700.00	6,083.00	13,152.35	6,083.00	125.39	130.58	-90.00	6,854.01	-2,748.70	3,746.29	3,497.89	248.40	15.082		
12,800.00	6,083.00	13,152.35	6,083.00	127.12	130.58	-90.00	6,854.01	-2,748.70	3,751.06	3,500.45	250.61	14.968		
12,900.00	6,083.00	13,152.35	6,083.00	128.86	130.58	-90.00	6,854.01	-2,748.70	3,758.48	3,505.83	252.64	14.877		
13,000.00	6,083.00	13,152.35	6,083.00	130.60	130.58	-90.00	6,854.01	-2,748.70	3,768.54	3,514.03	254.51	14.807		
13,100.00	6,083.00	13,152.35	6,083.00	132.33	130.58	-90.00	6,854.01	-2,748.70	3,781.22	3,525.02	256.20	14.759		
13,200.00	6,083.00	13,152.35	6,083.00	134.07	130.58	-90.00	6,854.01	-2,748.70	3,796.50	3,538.78	257.72	14.731		
13,300.00	6,083.00	13,152.35	6,083.00	135.81	130.58	-90.00	6,854.01	-2,748.70	3,814.33	3,555.27	259.06	14.724 SF		
13,400.00	6,083.00	13,152.35	6,083.00	137.55	130.58	-90.00	6,854.01	-2,748.70	3,834.69	3,574.46	260.23	14.736		
13,500.00	6,083.00	13,152.35	6,083.00	139.29	130.58	-90.00	6,854.01	-2,748.70	3,857.54	3,596.30	261.24	14.766		
13,600.00	6,083.00	13,152.35	6,083.00	141.03	130.58	-90.00	6,854.01	-2,748.70	3,882.83	3,620.75	262.08	14.816		
13,700.00	6,083.00	13,152.35	6,083.00	142.78	130.58	-90.00	6,854.01	-2,748.70	3,910.51	3,647.76	262.75	14.883		
13,800.00	6,083.00	13,152.35	6,083.00	144.52	130.58	-90.00	6,854.01	-2,748.70	3,940.54	3,677.26	263.28	14.967		
13,900.00	6,083.00	13,152.35	6,083.00	146.26	130.58	-90.00	6,854.01	-2,748.70	3,972.86	3,709.21	263.65	15.069		
14,000.00	6,083.00	13,152.35	6,083.00	148.01	130.58	-90.00	6,854.01	-2,748.70	4,007.41	3,743.53	263.88	15.186		
14,100.00	6,083.00	13,152.35	6,083.00	149.75	130.58	-90.00	6,854.01	-2,748.70	4,044.14	3,780.16	263.98	15.320		
14,200.00	6,083.00	13,152.35	6,083.00	151.50	130.58	-90.00	6,854.01	-2,748.70	4,082.99	3,819.05	263.95	15.469		
14,300.00	6,083.00	13,152.35	6,083.00	153.25	130.58	-90.00	6,854.01	-2,748.70	4,123.90	3,860.11	263.79	15.633		
14,400.00	6,083.00	13,152.35	6,083.00	154.99	130.58	-90.00	6,854.01	-2,748.70	4,166.81	3,903.29	263.52	15.812		
14,500.00	6,083.00	13,152.35	6,083.00	156.74	130.58	-90.00	6,854.01	-2,748.70	4,211.66	3,948.51	263.15	16.005		
14,600.00	6,083.00	13,152.35	6,083.00	158.49	130.58	-90.00	6,854.01	-2,748.70	4,258.38	3,995.71	262.67	16.212		
14,700.00	6,083.00	13,152.35	6,083.00	160.24	130.58	-90.00	6,854.01	-2,748.70	4,306.92	4,044.82	262.10	16.432		
14,800.00	6,083.00	13,152.35	6,083.00	161.99	130.58	-90.00	6,854.01	-2,748.70	4,357.21	4,095.76	261.45	16.665		
14,900.00	6,083.00	13,152.35	6,083.00	163.74	130.58	-90.00	6,854.01	-2,748.70	4,409.20	4,148.48	260.72	16.911		
15,000.00	6,083.00	13,152.35	6,083.00	165.49	130.58	-90.00	6,854.01	-2,748.70	4,462.82	4,202.90	259.92	17.170		
15,100.00	6,083.00	13,152.35	6,083.00	167.24	130.58	-90.00	6,854.01	-2,748.70	4,518.02	4,258.96	259.06	17.440		
15,200.00	6,083.00	13,152.35	6,083.00	168.99	130.58	-90.00	6,854.01	-2,748.70	4,574.74	4,316.60	258.14	17.722		
15,300.00	6,083.00	13,152.35	6,083.00	170.74	130.58	-90.00	6,854.01	-2,748.70	4,632.93	4,375.76	257.17	18.015		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,400.00	6,083.00	13,152.35	6,083.00	172.50	130.58	-90.00	6,854.01	-2,748.70	4,692.52	4,436.37	256.15	18.320	
15,500.00	6,083.00	13,152.35	6,083.00	174.25	130.58	-90.00	6,854.01	-2,748.70	4,753.47	4,498.38	255.09	18.635	
15,600.00	6,083.00	13,152.35	6,083.00	176.00	130.58	-90.00	6,854.01	-2,748.70	4,815.73	4,561.74	253.99	18.960	
15,700.00	6,083.00	13,152.35	6,083.00	177.76	130.58	-90.00	6,854.01	-2,748.70	4,879.24	4,626.37	252.87	19.296	
15,800.00	6,083.00	13,152.35	6,083.00	179.51	130.58	-90.00	6,854.01	-2,748.70	4,943.96	4,692.25	251.71	19.641	
15,900.00	6,083.00	13,152.35	6,083.00	181.27	130.58	-90.00	6,854.01	-2,748.70	5,009.84	4,759.30	250.54	19.996	
16,000.00	6,083.00	13,152.35	6,083.00	183.02	130.58	-90.00	6,854.01	-2,748.70	5,076.83	4,827.49	249.34	20.361	
16,100.00	6,083.00	13,152.35	6,083.00	184.78	130.58	-90.00	6,854.01	-2,748.70	5,144.90	4,896.76	248.13	20.734	
16,101.43	6,083.00	13,152.35	6,083.00	184.81	130.58	-90.00	6,854.01	-2,748.70	5,145.88	4,897.41	248.47	20.710	

Civitas Resources
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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												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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	0.00	0.00	0.21	75.78	0.28	75.78				
100.00	100.00	101.63	101.63	0.27	0.15	-0.11	75.35	-0.14	75.36	74.94	0.42	179.812	
200.00	199.98	201.79	201.78	0.62	0.43	-79.95	74.27	-1.17	73.96	72.90	1.06	70.021	
278.99	278.88	279.39	279.37	0.91	0.71	-83.59	73.82	-2.05	73.02	71.41	1.62	45.192 CC	
300.00	299.84	299.82	299.80	0.99	0.78	-84.89	74.00	-2.39	73.11	71.34	1.76	41.445 ES	
400.00	399.45	396.81	396.72	1.36	1.12	-92.43	76.76	-4.40	76.11	73.63	2.48	30.665	
500.00	498.70	492.50	492.17	1.76	1.46	-101.13	82.69	-7.33	84.51	81.29	3.22	26.279	
600.00	597.47	588.67	587.88	2.18	1.82	-110.21	90.83	-12.09	98.72	94.75	3.97	24.876	
700.00	695.99	682.62	681.12	2.62	2.18	-118.19	99.83	-19.14	118.09	113.39	4.71	25.085	
800.00	794.52	776.72	774.24	3.06	2.56	-125.49	107.51	-30.25	141.41	135.98	5.43	26.028	
900.00	893.05	868.50	864.64	3.51	2.95	-132.40	111.82	-45.38	168.26	162.14	6.12	27.492	
1,000.00	991.57	956.26	950.47	3.97	3.34	-138.26	114.22	-63.52	199.56	192.79	6.77	29.485	
1,100.00	1,090.10	1,041.28	1,032.87	4.42	3.75	-143.13	115.33	-84.41	235.39	228.00	7.39	31.873	
1,200.00	1,188.62	1,124.02	1,112.38	4.88	4.18	-146.91	116.39	-107.25	275.23	267.25	7.98	34.483	
1,300.00	1,287.15	1,203.82	1,188.29	5.34	4.63	-149.94	117.04	-131.86	318.79	310.23	8.55	37.271	
1,400.00	1,385.68	1,287.26	1,267.10	5.79	5.14	-152.46	117.80	-159.25	364.87	355.70	9.17	39.787	
1,500.00	1,484.20	1,373.20	1,348.04	6.25	5.69	-154.55	118.39	-188.12	412.10	402.28	9.82	41.959	
1,600.00	1,582.73	1,460.57	1,430.29	6.71	6.27	-156.25	119.00	-217.59	459.82	449.32	10.49	43.818	
1,700.00	1,681.26	1,550.04	1,514.62	7.17	6.86	-157.54	120.51	-247.43	507.56	496.37	11.19	45.345	
1,800.00	1,779.78	1,641.45	1,600.99	7.63	7.47	-158.58	122.41	-277.34	554.93	543.02	11.91	46.575	
1,900.00	1,878.31	1,728.00	1,682.87	8.09	8.05	-159.42	124.10	-305.32	602.05	589.45	12.59	47.809	
2,000.00	1,976.83	1,805.73	1,756.10	8.55	8.58	-160.09	125.48	-331.34	650.28	637.09	13.19	49.290	
2,100.00	2,075.36	1,892.70	1,837.84	9.01	9.19	-160.76	126.95	-361.01	699.17	685.28	13.88	50.358	
2,200.00	2,173.89	1,979.66	1,919.58	9.47	9.80	-161.34	128.43	-390.67	748.12	733.54	14.58	51.321	
2,300.00	2,272.41	2,066.63	2,001.32	9.93	10.42	-161.84	129.90	-420.33	797.12	781.85	15.27	52.192	
2,400.00	2,370.94	2,153.60	2,083.05	10.40	11.03	-162.29	131.37	-449.99	846.16	830.19	15.97	52.985	
2,500.00	2,469.47	2,240.56	2,164.79	10.86	11.65	-162.69	132.84	-479.65	895.24	878.57	16.67	53.707	
2,600.00	2,567.99	2,327.53	2,246.53	11.32	12.27	-163.05	134.31	-509.31	944.35	926.98	17.37	54.369	
2,700.00	2,666.52	2,414.49	2,328.27	11.78	12.90	-163.38	135.78	-538.97	993.48	975.41	18.07	54.977	
2,800.00	2,765.05	2,501.46	2,410.01	12.24	13.52	-163.67	137.25	-568.63	1,042.64	1,023.87	18.77	55.538	
2,900.00	2,863.57	2,588.42	2,491.75	12.70	14.14	-163.94	138.72	-598.29	1,091.81	1,072.34	19.48	56.056	
3,000.00	2,962.10	2,675.39	2,573.48	13.16	14.77	-164.18	140.19	-627.95	1,141.01	1,120.82	20.18	56.535	
3,100.00	3,060.62	2,762.36	2,655.22	13.63	15.40	-164.40	141.66	-657.61	1,190.21	1,169.32	20.89	56.981	
3,200.00	3,159.15	2,849.32	2,736.96	14.09	16.02	-164.61	143.13	-687.27	1,239.43	1,217.84	21.59	57.396	
3,300.00	3,257.68	2,936.29	2,818.70	14.55	16.65	-164.80	144.60	-716.93	1,288.66	1,266.36	22.30	57.783	
3,400.00	3,356.20	3,023.25	2,900.44	15.01	17.28	-164.98	146.07	-746.59	1,337.90	1,314.89	23.01	58.146	
3,500.00	3,454.73	3,110.22	2,982.17	15.47	17.91	-165.14	147.54	-776.25	1,387.15	1,363.43	23.72	58.485	
3,600.00	3,553.26	3,197.19	3,063.91	15.93	18.54	-165.29	149.01	-805.91	1,436.41	1,411.98	24.43	58.803	
3,700.00	3,651.78	3,284.15	3,145.65	16.40	19.16	-165.44	150.48	-835.57	1,485.67	1,460.53	25.14	59.103	
3,800.00	3,750.31	3,371.12	3,227.39	16.86	19.79	-165.57	151.95	-865.23	1,534.94	1,509.09	25.85	59.385	
3,900.00	3,848.83	3,458.08	3,309.13	17.32	20.42	-165.69	153.42	-894.89	1,584.22	1,557.66	26.56	59.651	
4,000.00	3,947.36	3,545.05	3,390.87	17.78	21.06	-165.81	154.90	-924.55	1,633.50	1,606.23	27.27	59.902	
4,100.00	4,045.89	3,632.01	3,472.60	18.24	21.69	-165.92	156.37	-954.21	1,682.79	1,654.80	27.98	60.139	
4,200.00	4,144.41	3,718.98	3,554.34	18.70	22.32	-166.03	157.84	-983.87	1,732.08	1,703.38	28.69	60.364	
4,300.00	4,242.94	3,805.95	3,636.08	19.17	22.95	-166.13	159.31	-1,013.53	1,781.37	1,751.97	29.41	60.577	
4,400.00	4,341.47	3,892.91	3,717.82	19.63	23.58	-166.22	160.78	-1,043.20	1,830.67	1,800.55	30.12	60.780	
4,500.00	4,439.99	3,979.88	3,799.56	20.09	24.21	-166.31	162.25	-1,072.86	1,879.97	1,849.14	30.83	60.972	
4,600.00	4,538.52	4,066.84	3,881.30	20.55	24.84	-166.39	163.72	-1,102.52	1,929.28	1,897.73	31.55	61.155	
4,700.00	4,637.04	4,153.81	3,963.03	21.01	25.48	-166.47	165.19	-1,132.18	1,978.59	1,946.33	32.26	61.329	
4,800.00	4,735.57	4,240.77	4,044.77	21.48	26.11	-166.55	166.66	-1,161.84	2,027.90	1,994.92	32.98	61.495	
4,900.00	4,834.10	4,327.74	4,126.51	21.94	26.74	-166.62	168.13	-1,191.50	2,077.21	2,043.52	33.69	61.653	
5,000.00	4,932.62	4,414.71	4,208.25	22.40	27.37	-166.69	169.60	-1,221.16	2,126.53	2,092.12	34.41	61.804	

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
5,100.00	5,031.15	4,501.67	4,289.99	22.86	28.00	-166.75	171.07	-1,250.82	2,175.85	2,140.73	35.12	61.948		
5,200.00	5,129.68	4,588.64	4,371.73	23.32	28.64	-166.82	172.54	-1,280.48	2,225.17	2,189.33	35.84	62.086		
5,300.00	5,228.20	4,675.60	4,453.46	23.79	29.27	-166.88	174.01	-1,310.14	2,274.49	2,237.94	36.56	62.217		
5,400.00	5,326.73	4,762.57	4,535.20	24.25	29.90	-166.93	175.48	-1,339.80	2,323.82	2,286.54	37.27	62.344		
5,500.00	5,425.25	4,849.53	4,616.94	24.71	30.54	-166.99	176.95	-1,369.46	2,373.14	2,335.15	37.99	62.464		
5,600.00	5,523.78	4,936.50	4,698.68	25.17	31.17	-167.04	178.42	-1,399.12	2,422.47	2,383.76	38.71	62.580		
5,700.00	5,621.78	5,023.10	4,780.07	25.64	31.80	-127.54	179.89	-1,428.66	2,471.60	2,432.17	39.44	62.674		
5,800.00	5,716.63	5,107.19	4,859.10	26.12	32.41	-105.78	181.31	-1,457.33	2,519.50	2,479.33	40.17	62.721		
5,900.00	5,805.45	5,186.21	4,933.38	26.60	32.99	-94.35	182.65	-1,484.29	2,565.18	2,524.28	40.90	62.717		
6,000.00	5,885.54	5,257.77	5,000.64	27.08	33.51	-87.03	183.86	-1,508.69	2,607.97	2,566.35	41.62	62.657		
6,100.00	5,954.47	5,319.69	5,058.84	27.57	33.96	-81.82	184.90	-1,529.81	2,647.43	2,605.09	42.34	62.531		
6,200.00	6,010.13	5,370.09	5,106.21	28.08	34.33	-77.87	185.76	-1,547.00	2,683.26	2,640.21	43.05	62.332		
6,300.00	6,050.85	5,407.44	5,141.31	28.62	34.60	-74.74	186.39	-1,559.74	2,715.21	2,671.45	43.75	62.059		
6,400.00	6,075.38	5,430.60	5,163.08	29.22	34.77	-72.20	186.78	-1,567.64	2,743.00	2,698.56	44.45	61.714		
6,500.00	6,083.00	5,438.90	5,170.87	29.87	34.83	-70.25	186.92	-1,570.47	2,766.32	2,721.20	45.12	61.310		
6,600.00	6,083.00	5,440.47	5,172.35	30.60	34.84	-70.28	186.95	-1,571.00	2,789.42	2,743.59	45.83	60.867		
6,700.00	6,083.00	5,442.05	5,173.84	31.42	34.85	-70.32	186.97	-1,571.54	2,815.89	2,769.29	46.60	60.428		
6,800.00	6,083.00	5,443.62	5,175.32	32.32	34.86	-70.35	187.00	-1,572.08	2,845.62	2,798.20	47.42	60.010		
6,900.00	6,083.00	7,148.85	6,083.00	33.30	45.02	-89.98	1,179.85	-1,898.14	2,874.35	2,812.76	61.60	46.665		
7,000.00	6,083.00	7,248.85	6,083.00	34.35	45.68	-89.98	1,279.85	-1,897.80	2,874.35	2,810.46	63.89	44.986		
7,100.00	6,083.00	7,348.85	6,083.00	35.45	46.40	-89.98	1,379.85	-1,897.47	2,874.35	2,808.05	66.30	43.351		
7,200.00	6,083.00	7,448.85	6,083.00	36.62	47.18	-89.98	1,479.85	-1,897.13	2,874.35	2,805.54	68.81	41.771		
7,300.00	6,083.00	7,548.85	6,083.00	37.83	48.01	-89.98	1,579.85	-1,896.79	2,874.35	2,802.94	71.41	40.252		
7,400.00	6,083.00	7,648.85	6,083.00	39.09	48.90	-89.98	1,679.85	-1,896.45	2,874.35	2,800.27	74.08	38.799		
7,500.00	6,083.00	7,748.85	6,083.00	40.39	49.84	-89.98	1,779.85	-1,896.11	2,874.35	2,797.52	76.83	37.412		
7,600.00	6,083.00	7,848.85	6,083.00	41.73	50.82	-89.98	1,879.85	-1,895.77	2,874.35	2,794.71	79.64	36.093		
7,700.00	6,083.00	7,948.85	6,083.00	43.10	51.86	-89.98	1,979.84	-1,895.43	2,874.35	2,791.84	82.50	34.839		
7,800.00	6,083.00	8,048.85	6,083.00	44.50	52.94	-89.98	2,079.84	-1,895.09	2,874.35	2,788.92	85.42	33.649		
7,900.00	6,083.00	8,148.85	6,083.00	45.93	54.06	-89.98	2,179.84	-1,894.76	2,874.34	2,785.96	88.38	32.521		
8,000.00	6,083.00	8,248.85	6,083.00	47.38	55.22	-89.98	2,279.84	-1,894.42	2,874.34	2,782.95	91.39	31.452		
8,100.00	6,083.00	8,348.85	6,083.00	48.85	56.41	-89.98	2,379.84	-1,894.08	2,874.34	2,779.91	94.43	30.438		
8,200.00	6,083.00	8,448.85	6,083.00	50.34	57.64	-89.98	2,479.84	-1,893.74	2,874.34	2,776.83	97.51	29.478		
8,300.00	6,083.00	8,548.85	6,083.00	51.85	58.90	-89.98	2,579.84	-1,893.40	2,874.34	2,773.73	100.62	28.568		
8,400.00	6,083.00	8,648.85	6,083.00	53.38	60.19	-89.98	2,679.84	-1,893.06	2,874.34	2,770.59	103.75	27.704		
8,500.00	6,083.00	8,748.85	6,083.00	54.92	61.51	-89.98	2,779.84	-1,892.72	2,874.34	2,767.43	106.91	26.885		
8,600.00	6,083.00	8,848.85	6,083.00	56.48	62.85	-89.98	2,879.84	-1,892.38	2,874.34	2,764.24	110.10	26.107		
8,700.00	6,083.00	8,948.85	6,083.00	58.04	64.22	-89.98	2,979.84	-1,892.05	2,874.34	2,761.03	113.30	25.368		
8,800.00	6,083.00	9,048.85	6,083.00	59.63	65.60	-89.98	3,079.84	-1,891.71	2,874.34	2,757.81	116.53	24.666		
8,900.00	6,083.00	9,148.85	6,083.00	61.22	67.01	-89.98	3,179.84	-1,891.37	2,874.34	2,754.56	119.78	23.998		
9,000.00	6,083.00	9,248.85	6,083.00	62.82	68.44	-89.98	3,279.84	-1,891.03	2,874.33	2,751.30	123.04	23.362		
9,100.00	6,083.00	9,348.85	6,083.00	64.43	69.89	-89.98	3,379.84	-1,890.69	2,874.33	2,748.02	126.31	22.756		
9,200.00	6,083.00	9,448.85	6,083.00	66.05	71.35	-89.98	3,479.84	-1,890.35	2,874.33	2,744.73	129.60	22.178		
9,300.00	6,083.00	9,548.85	6,083.00	67.67	72.82	-89.98	3,579.84	-1,890.01	2,874.33	2,741.42	132.91	21.626		
9,400.00	6,083.00	9,648.85	6,083.00	69.31	74.32	-89.98	3,679.83	-1,889.67	2,874.33	2,738.11	136.23	21.100		
9,500.00	6,083.00	9,748.85	6,083.00	70.95	75.82	-89.98	3,779.83	-1,889.34	2,874.33	2,734.78	139.55	20.597		
9,600.00	6,083.00	9,848.85	6,083.00	72.60	77.34	-89.98	3,879.83	-1,889.00	2,874.33	2,731.44	142.89	20.115		
9,700.00	6,083.00	9,948.85	6,083.00	74.25	78.87	-89.98	3,979.83	-1,888.66	2,874.33	2,728.09	146.24	19.655		
9,800.00	6,083.00	10,048.85	6,083.00	75.91	80.41	-89.98	4,079.83	-1,888.32	2,874.33	2,724.73	149.60	19.214		
9,900.00	6,083.00	10,148.85	6,083.00	77.57	81.96	-89.98	4,179.83	-1,887.98	2,874.33	2,721.36	152.96	18.791		
10,000.00	6,083.00	10,248.85	6,083.00	79.24	83.52	-89.98	4,279.83	-1,887.64	2,874.33	2,717.99	156.34	18.385		
10,100.00	6,083.00	10,348.85	6,083.00	80.91	85.08	-89.98	4,379.83	-1,887.30	2,874.33	2,714.61	159.72	17.996		
10,200.00	6,083.00	10,448.85	6,083.00	82.59	86.66	-89.98	4,479.83	-1,886.97	2,874.32	2,711.22	163.11	17.622		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	10,548.85	6,083.00	84.27	88.25	-89.98	4,579.83	-1,886.63	2,874.32	2,707.82	166.50	17.263		
10,400.00	6,083.00	10,648.85	6,083.00	85.95	89.84	-89.98	4,679.83	-1,886.29	2,874.32	2,704.42	169.90	16.917		
10,500.00	6,083.00	10,748.85	6,083.00	87.64	91.44	-89.98	4,779.83	-1,885.95	2,874.32	2,701.01	173.31	16.585		
10,600.00	6,083.00	10,848.85	6,083.00	89.34	93.05	-89.98	4,879.83	-1,885.61	2,874.32	2,697.60	176.72	16.264		
10,700.00	6,083.00	10,948.85	6,083.00	91.03	94.66	-89.98	4,979.83	-1,885.27	2,874.32	2,694.18	180.14	15.956		
10,800.00	6,083.00	11,048.85	6,083.00	92.73	96.28	-89.98	5,079.83	-1,884.93	2,874.32	2,690.75	183.57	15.658		
10,900.00	6,083.00	11,148.85	6,083.00	94.43	97.90	-89.98	5,179.83	-1,884.59	2,874.32	2,687.32	186.99	15.371		
11,000.00	6,083.00	11,248.85	6,083.00	96.13	99.53	-89.98	5,279.83	-1,884.26	2,874.32	2,683.89	190.43	15.094		
11,100.00	6,083.00	11,348.85	6,083.00	97.84	101.17	-89.98	5,379.83	-1,883.92	2,874.32	2,680.45	193.86	14.827		
11,200.00	6,083.00	11,448.85	6,083.00	99.55	102.81	-89.98	5,479.82	-1,883.58	2,874.32	2,677.01	197.30	14.568		
11,300.00	6,083.00	11,548.85	6,083.00	101.26	104.46	-89.98	5,579.82	-1,883.24	2,874.31	2,673.57	200.75	14.318		
11,400.00	6,083.00	11,648.85	6,083.00	102.97	106.10	-89.98	5,679.82	-1,882.90	2,874.31	2,670.12	204.19	14.076		
11,500.00	6,083.00	11,748.85	6,083.00	104.68	107.76	-89.98	5,779.82	-1,882.56	2,874.31	2,666.67	207.64	13.842		
11,600.00	6,083.00	11,848.85	6,083.00	106.40	109.42	-89.98	5,879.82	-1,882.22	2,874.31	2,663.21	211.10	13.616		
11,700.00	6,083.00	11,948.85	6,083.00	108.12	111.08	-89.98	5,979.82	-1,881.88	2,874.31	2,659.76	214.56	13.397		
11,800.00	6,083.00	12,048.85	6,083.00	109.84	112.74	-89.98	6,079.82	-1,881.55	2,874.31	2,656.29	218.02	13.184		
11,900.00	6,083.00	12,148.85	6,083.00	111.56	114.41	-89.98	6,179.82	-1,881.21	2,874.31	2,652.83	221.48	12.978		
12,000.00	6,083.00	12,248.85	6,083.00	113.29	116.08	-89.98	6,279.82	-1,880.87	2,874.31	2,649.36	224.94	12.778		
12,100.00	6,083.00	12,348.85	6,083.00	115.01	117.75	-89.98	6,379.82	-1,880.53	2,874.31	2,645.90	228.41	12.584		
12,200.00	6,083.00	12,448.85	6,083.00	116.74	119.43	-89.98	6,479.82	-1,880.19	2,874.31	2,642.42	231.88	12.396		
12,300.00	6,083.00	12,548.85	6,083.00	118.47	121.11	-89.98	6,579.82	-1,879.85	2,874.31	2,638.95	235.35	12.213		
12,400.00	6,083.00	12,648.85	6,083.00	120.19	122.80	-89.98	6,679.82	-1,879.51	2,874.31	2,635.48	238.83	12.035		
12,500.00	6,083.00	12,748.85	6,083.00	121.93	124.48	-89.98	6,779.82	-1,879.17	2,874.30	2,632.00	242.31	11.862		
12,600.00	6,083.00	12,848.85	6,083.00	123.66	126.17	-89.98	6,879.82	-1,878.84	2,874.30	2,628.52	245.79	11.694		
12,700.00	6,083.00	12,948.85	6,083.00	125.39	127.86	-89.98	6,979.82	-1,878.50	2,874.30	2,625.04	249.27	11.531		
12,800.00	6,083.00	13,048.85	6,083.00	127.12	129.55	-89.98	7,079.82	-1,878.16	2,874.30	2,621.55	252.75	11.372		
12,900.00	6,083.00	13,148.85	6,083.00	128.86	131.25	-89.98	7,179.81	-1,877.82	2,874.30	2,618.07	256.23	11.217		
13,000.00	6,083.00	13,248.85	6,083.00	130.60	132.95	-89.98	7,279.81	-1,877.48	2,874.30	2,614.58	259.72	11.067		
13,100.00	6,083.00	13,348.85	6,083.00	132.33	134.65	-89.98	7,379.81	-1,877.14	2,874.30	2,611.09	263.21	10.920		
13,200.00	6,083.00	13,448.85	6,083.00	134.07	136.35	-89.98	7,479.81	-1,876.80	2,874.30	2,607.60	266.70	10.777		
13,300.00	6,083.00	13,548.85	6,083.00	135.81	138.05	-89.98	7,579.81	-1,876.46	2,874.30	2,604.11	270.19	10.638		
13,400.00	6,083.00	13,648.85	6,083.00	137.55	139.75	-89.98	7,679.81	-1,876.13	2,874.30	2,600.61	273.68	10.502		
13,500.00	6,083.00	13,748.85	6,083.00	139.29	141.46	-89.98	7,779.81	-1,875.79	2,874.30	2,597.12	277.18	10.370		
13,600.00	6,083.00	13,848.85	6,083.00	141.03	143.17	-89.98	7,879.81	-1,875.45	2,874.29	2,593.62	280.67	10.241		
13,700.00	6,083.00	13,948.85	6,083.00	142.78	144.88	-89.98	7,979.81	-1,875.11	2,874.29	2,590.13	284.17	10.115		
13,800.00	6,083.00	14,048.85	6,083.00	144.52	146.59	-89.98	8,079.81	-1,874.77	2,874.29	2,586.63	287.67	9.992		
13,900.00	6,083.00	14,148.85	6,083.00	146.26	148.30	-89.98	8,179.81	-1,874.43	2,874.29	2,583.13	291.16	9.872		
14,000.00	6,083.00	14,248.85	6,083.00	148.01	150.02	-89.98	8,279.81	-1,874.09	2,874.29	2,579.63	294.66	9.754		
14,100.00	6,083.00	14,348.85	6,083.00	149.75	151.73	-89.98	8,379.81	-1,873.76	2,874.29	2,576.12	298.17	9.640		
14,200.00	6,083.00	14,448.85	6,083.00	151.50	153.45	-89.98	8,479.81	-1,873.42	2,874.29	2,572.62	301.67	9.528		
14,300.00	6,083.00	14,548.85	6,083.00	153.25	155.17	-89.98	8,579.81	-1,873.08	2,874.29	2,569.12	305.17	9.419		
14,400.00	6,083.00	14,648.85	6,083.00	154.99	156.89	-89.98	8,679.81	-1,872.74	2,874.29	2,565.61	308.68	9.312		
14,500.00	6,083.00	14,748.85	6,083.00	156.74	158.61	-89.98	8,779.81	-1,872.40	2,874.29	2,562.11	312.18	9.207		
14,600.00	6,083.00	14,848.85	6,083.00	158.49	160.33	-89.98	8,879.81	-1,872.06	2,874.29	2,558.60	315.69	9.105		
14,700.00	6,083.00	14,948.85	6,083.00	160.24	162.06	-89.98	8,979.80	-1,871.72	2,874.29	2,555.09	319.19	9.005		
14,800.00	6,083.00	15,048.85	6,083.00	161.99	163.78	-89.98	9,079.80	-1,871.38	2,874.28	2,551.58	322.70	8.907		
14,900.00	6,083.00	15,148.85	6,083.00	163.74	165.51	-89.98	9,179.80	-1,871.05	2,874.28	2,548.07	326.21	8.811		
15,000.00	6,083.00	15,248.85	6,083.00	165.49	167.23	-89.98	9,279.80	-1,870.71	2,874.28	2,544.56	329.72	8.717		
15,100.00	6,083.00	15,348.85	6,083.00	167.24	168.96	-89.98	9,379.80	-1,870.37	2,874.28	2,541.05	333.23	8.625		
15,200.00	6,083.00	15,448.85	6,083.00	168.99	170.69	-89.98	9,479.80	-1,870.03	2,874.28	2,537.54	336.74	8.536		
15,300.00	6,083.00	15,548.85	6,083.00	170.74	172.42	-89.98	9,579.80	-1,869.69	2,874.28	2,534.02	340.26	8.447		
15,400.00	6,083.00	15,648.85	6,083.00	172.50	174.15	-89.98	9,679.80	-1,869.35	2,874.28	2,530.51	343.77	8.361		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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												Offset Site Error:	0.00 usft
SEC 5-T5N-R61W - PRONGHORN K-5 FED 32N-20-02 - OWB - PROPOSAL 2												Offset Well Error:	0.00 usft
Survey Program: 138-MWD OWSG, 1665-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
15,500.00	6,083.00	15,748.85	6,083.00	174.25	175.88	-89.98	9,779.80	-1,869.01	2,874.28	2,527.00	347.28	8.276	
15,600.00	6,083.00	15,848.85	6,083.00	176.00	177.61	-89.98	9,879.80	-1,868.67	2,874.28	2,523.48	350.80	8.194	
15,700.00	6,083.00	15,948.85	6,083.00	177.76	179.35	-89.98	9,979.80	-1,868.34	2,874.28	2,519.96	354.31	8.112	
15,800.00	6,083.00	16,048.85	6,083.00	179.51	181.08	-89.98	10,079.80	-1,868.00	2,874.28	2,516.45	357.83	8.033	
15,900.00	6,083.00	16,148.85	6,083.00	181.27	182.81	-89.98	10,179.80	-1,867.66	2,874.27	2,512.93	361.34	7.954	
16,000.00	6,083.00	16,248.85	6,083.00	183.02	184.55	-89.98	10,279.80	-1,867.32	2,874.27	2,509.41	364.86	7.878	
16,066.53	6,083.00	16,315.38	6,083.00	184.19	185.70	-89.98	10,346.32	-1,867.09	2,874.27	2,507.07	367.20	7.828	
16,100.00	6,083.00	16,318.96	6,083.00	184.78	185.77	-89.98	10,349.90	-1,867.08	2,874.43	2,506.44	367.99	7.811	
16,101.43	6,083.00	16,318.96	6,083.00	184.81	185.77	-89.98	10,349.90	-1,867.08	2,874.44	2,506.43	368.01	7.811 SF	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	0.26	61.20	0.28	61.21							
100.00	100.00	100.30	100.30	0.27	0.15	0.02	61.04	0.02	61.04	60.63	0.42	146.715				
200.00	199.98	200.23	200.22	0.62	0.43	-80.02	60.67	-0.73	60.35	59.30	1.05	57.422				
300.00	299.84	300.23	300.22	0.99	0.78	-85.77	60.34	-1.50	59.44	57.67	1.77	33.635				
400.00	399.45	400.09	400.08	1.36	1.14	-94.81	59.50	-1.93	58.75	56.26	2.50	23.529 CC				
404.45	403.88	404.52	404.51	1.38	1.15	-95.32	59.45	-1.97	58.76	56.23	2.53	23.219 ES				
500.00	498.70	497.50	497.46	1.76	1.49	-107.70	59.13	-3.88	61.64	58.40	3.24	19.039				
600.00	597.47	593.29	593.13	2.18	1.83	-121.24	60.96	-8.18	72.53	68.55	3.98	18.210				
700.00	695.99	688.96	688.55	2.62	2.17	-131.56	64.48	-14.17	90.02	85.31	4.70	19.135				
800.00	794.52	782.63	781.75	3.06	2.52	-138.17	69.43	-22.07	112.10	106.70	5.40	20.746				
900.00	893.05	874.73	873.07	3.51	2.87	-142.87	74.86	-32.74	138.25	132.16	6.08	22.721				
1,000.00	991.57	965.42	962.58	3.97	3.24	-146.79	79.28	-46.61	168.06	161.31	6.75	24.901				
1,100.00	1,090.10	1,055.79	1,051.40	4.42	3.63	-149.67	84.00	-62.52	200.66	193.25	7.41	27.069				
1,200.00	1,188.62	1,147.44	1,141.20	4.88	4.04	-151.80	89.13	-80.15	235.20	227.11	8.09	29.075				
1,300.00	1,287.15	1,240.85	1,232.68	5.34	4.47	-153.75	93.00	-98.57	270.12	261.33	8.79	30.744				
1,400.00	1,385.68	1,338.75	1,328.62	5.79	4.93	-155.76	94.84	-117.99	304.96	295.44	9.52	32.035				
1,500.00	1,484.20	1,428.36	1,416.60	6.25	5.34	-157.41	95.30	-135.02	339.06	328.87	10.18	33.294				
1,600.00	1,582.73	1,523.90	1,510.16	6.71	5.80	-158.49	98.17	-154.08	374.59	363.68	10.90	34.351				
1,700.00	1,681.26	1,617.80	1,602.32	7.17	6.24	-159.20	101.95	-171.74	409.25	397.63	11.62	35.231				
1,800.00	1,779.78	1,710.73	1,693.43	7.63	6.69	-159.61	107.07	-189.28	444.20	431.87	12.32	36.046				
1,900.00	1,878.31	1,796.09	1,777.02	8.09	7.10	-159.97	111.62	-205.97	479.80	466.83	12.97	36.999				
2,000.00	1,976.83	1,877.15	1,856.03	8.55	7.52	-160.42	114.84	-223.75	517.51	503.93	13.57	38.126				
2,100.00	2,075.36	1,957.80	1,934.24	9.01	7.94	-160.96	116.93	-243.36	557.35	543.18	14.17	39.323				
2,200.00	2,173.89	2,048.97	2,022.43	9.47	8.44	-161.55	118.81	-266.39	598.09	583.21	14.87	40.211				
2,300.00	2,272.41	2,140.13	2,110.61	9.93	8.94	-162.07	120.68	-289.42	638.87	623.29	15.58	41.017				
2,400.00	2,370.94	2,231.30	2,198.80	10.40	9.44	-162.52	122.56	-312.44	679.68	663.41	16.28	41.752				
2,500.00	2,469.47	2,322.46	2,286.99	10.86	9.94	-162.93	124.43	-335.47	720.54	703.55	16.98	42.425				
2,600.00	2,567.99	2,413.62	2,375.18	11.32	10.45	-163.29	126.31	-358.50	761.41	743.72	17.69	43.043				
2,700.00	2,666.52	2,504.79	2,463.37	11.78	10.96	-163.61	128.18	-381.52	802.31	783.92	18.40	43.612				
2,800.00	2,765.05	2,595.95	2,551.55	12.24	11.47	-163.91	130.06	-404.55	843.23	824.13	19.10	44.137				
2,900.00	2,863.57	2,687.12	2,639.74	12.70	11.98	-164.17	131.93	-427.57	884.17	864.35	19.81	44.624				
3,000.00	2,962.10	2,778.28	2,727.93	13.16	12.50	-164.41	133.81	-450.60	925.12	904.60	20.52	45.076				
3,100.00	3,060.62	2,869.44	2,816.12	13.63	13.01	-164.64	135.69	-473.63	966.08	944.85	21.23	45.498				
3,200.00	3,159.15	2,960.61	2,904.31	14.09	13.52	-164.84	137.56	-496.65	1,007.06	985.11	21.94	45.891				
3,300.00	3,257.68	3,051.77	2,992.49	14.55	14.04	-165.03	139.44	-519.68	1,048.04	1,025.38	22.66	46.258				
3,400.00	3,356.20	3,142.94	3,080.68	15.01	14.56	-165.20	141.31	-542.71	1,089.03	1,065.66	23.37	46.603				
3,500.00	3,454.73	3,234.10	3,168.87	15.47	15.07	-165.36	143.19	-565.73	1,130.03	1,105.95	24.08	46.926				
3,600.00	3,553.26	3,325.26	3,257.06	15.93	15.59	-165.51	145.06	-588.76	1,171.04	1,146.25	24.79	47.230				
3,700.00	3,651.78	3,416.43	3,345.25	16.40	16.11	-165.65	146.94	-611.79	1,212.05	1,186.55	25.51	47.517				
3,800.00	3,750.31	3,507.59	3,433.43	16.86	16.63	-165.78	148.81	-634.81	1,253.07	1,226.85	26.22	47.787				
3,900.00	3,848.83	3,598.76	3,521.62	17.32	17.15	-165.90	150.69	-657.84	1,294.10	1,267.16	26.94	48.042				
4,000.00	3,947.36	3,689.92	3,609.81	17.78	17.67	-166.02	152.56	-680.87	1,335.13	1,307.47	27.65	48.284				
4,100.00	4,045.89	3,781.08	3,698.00	18.24	18.19	-166.13	154.44	-703.89	1,376.16	1,347.79	28.37	48.513				
4,200.00	4,144.41	3,872.25	3,786.19	18.70	18.71	-166.23	156.31	-726.92	1,417.20	1,388.11	29.08	48.731				
4,300.00	4,242.94	3,963.41	3,874.37	19.17	19.23	-166.32	158.19	-749.94	1,458.24	1,428.44	29.80	48.937				
4,400.00	4,341.47	4,054.58	3,962.56	19.63	19.75	-166.42	160.07	-772.97	1,499.28	1,468.76	30.51	49.133				
4,500.00	4,439.99	4,145.74	4,050.75	20.09	20.27	-166.50	161.94	-796.00	1,540.33	1,509.09	31.23	49.320				
4,600.00	4,538.52	4,236.90	4,138.94	20.55	20.79	-166.58	163.82	-819.02	1,581.38	1,549.43	31.95	49.498				
4,700.00	4,637.04	4,328.07	4,227.13	21.01	21.32	-166.66	165.69	-842.05	1,622.43	1,589.76	32.67	49.668				
4,800.00	4,735.57	4,419.23	4,315.31	21.48	21.84	-166.73	167.57	-865.08	1,663.48	1,630.10	33.38	49.831				
4,900.00	4,834.10	4,510.40	4,403.50	21.94	22.36	-166.80	169.44	-888.10	1,704.54	1,670.44	34.10	49.986				
5,000.00	4,932.62	4,601.56	4,491.69	22.40	22.88	-166.87	171.32	-911.13	1,745.60	1,710.78	34.82	50.134				

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,031.15	4,692.72	4,579.88	22.86	23.41	-166.93	173.19	-934.16	1,786.66	1,751.12	35.54	50.276		
5,200.00	5,129.68	4,783.89	4,668.07	23.32	23.93	-166.99	175.07	-957.18	1,827.72	1,791.46	36.26	50.412		
5,300.00	5,228.20	4,875.05	4,756.26	23.79	24.45	-167.05	176.94	-980.21	1,868.78	1,831.81	36.97	50.542		
5,400.00	5,326.73	4,966.21	4,844.44	24.25	24.97	-167.11	178.82	-1,003.23	1,909.85	1,872.15	37.69	50.667		
5,500.00	5,425.25	5,057.38	4,932.63	24.71	25.50	-167.16	180.69	-1,026.26	1,950.91	1,912.50	38.41	50.787		
5,600.00	5,523.78	5,148.54	5,020.82	25.17	26.02	-167.21	182.57	-1,049.29	1,991.98	1,952.85	39.13	50.903		
5,700.00	5,621.78	5,239.34	5,108.65	25.64	26.54	-128.71	184.44	-1,072.22	2,032.89	1,993.03	39.86	51.000		
5,800.00	5,716.63	5,327.56	5,194.00	26.12	27.05	-108.11	186.25	-1,094.50	2,072.85	2,032.25	40.60	51.058		
5,900.00	5,805.45	5,410.53	5,274.26	26.60	27.53	-97.76	187.96	-1,115.46	2,111.22	2,069.89	41.33	51.080		
6,000.00	5,885.54	5,485.72	5,346.99	27.08	27.96	-91.38	189.51	-1,134.45	2,147.69	2,105.63	42.05	51.070		
6,100.00	5,954.47	5,550.85	5,410.00	27.57	28.33	-86.91	190.85	-1,150.90	2,182.19	2,139.42	42.76	51.030		
6,200.00	6,010.13	5,603.94	5,461.35	28.08	28.64	-83.45	191.94	-1,164.31	2,214.75	2,171.29	43.45	50.968		
6,300.00	6,050.85	5,643.38	5,499.50	28.62	28.86	-80.54	192.75	-1,174.27	2,245.39	2,201.27	44.12	50.888		
6,400.00	6,075.38	5,667.96	5,523.28	29.22	29.01	-77.93	193.25	-1,180.48	2,274.01	2,229.25	44.76	50.802		
6,500.00	6,083.00	6,584.49	6,083.00	29.87	33.91	-90.00	777.91	-1,324.69	2,299.54	2,247.18	52.36	43.919		
6,600.00	6,083.00	6,684.49	6,083.00	30.60	34.50	-90.00	877.91	-1,324.35	2,299.54	2,245.41	54.13	42.479		
6,700.00	6,083.00	6,784.49	6,083.00	31.42	35.17	-90.00	977.91	-1,324.01	2,299.54	2,243.47	56.07	41.010		
6,800.00	6,083.00	6,884.49	6,083.00	32.32	35.92	-90.00	1,077.91	-1,323.67	2,299.54	2,241.37	58.16	39.536		
6,900.00	6,083.00	6,984.49	6,083.00	33.30	36.74	-90.00	1,177.91	-1,323.33	2,299.54	2,239.15	60.39	38.077		
7,000.00	6,083.00	7,084.49	6,083.00	34.35	37.64	-90.00	1,277.91	-1,322.99	2,299.54	2,236.80	62.74	36.652		
7,100.00	6,083.00	7,184.49	6,083.00	35.45	38.60	-90.00	1,377.91	-1,322.65	2,299.53	2,234.34	65.20	35.270		
7,200.00	6,083.00	7,284.49	6,083.00	36.62	39.62	-90.00	1,477.91	-1,322.31	2,299.53	2,231.78	67.75	33.941		
7,300.00	6,083.00	7,384.49	6,083.00	37.83	40.70	-90.00	1,577.91	-1,321.97	2,299.53	2,229.14	70.39	32.667		
7,400.00	6,083.00	7,484.49	6,083.00	39.09	41.83	-90.00	1,677.91	-1,321.63	2,299.53	2,226.42	73.11	31.453		
7,500.00	6,083.00	7,584.49	6,083.00	40.39	43.01	-90.00	1,777.91	-1,321.29	2,299.53	2,223.63	75.90	30.299		
7,600.00	6,083.00	7,684.49	6,083.00	41.73	44.23	-90.00	1,877.91	-1,320.96	2,299.53	2,220.79	78.74	29.203		
7,700.00	6,083.00	7,784.49	6,083.00	43.10	45.50	-90.00	1,977.91	-1,320.62	2,299.53	2,217.88	81.64	28.165		
7,800.00	6,083.00	7,884.49	6,083.00	44.50	46.79	-90.00	2,077.91	-1,320.28	2,299.52	2,214.93	84.60	27.182		
7,900.00	6,083.00	7,984.49	6,083.00	45.93	48.13	-90.00	2,177.91	-1,319.94	2,299.52	2,211.93	87.59	26.253		
8,000.00	6,083.00	8,084.49	6,083.00	47.38	49.49	-90.00	2,277.91	-1,319.60	2,299.52	2,208.90	90.63	25.374		
8,100.00	6,083.00	8,184.49	6,083.00	48.85	50.87	-90.00	2,377.90	-1,319.26	2,299.52	2,205.82	93.70	24.542		
8,200.00	6,083.00	8,284.49	6,083.00	50.34	52.29	-90.00	2,477.90	-1,318.92	2,299.52	2,202.72	96.80	23.755		
8,300.00	6,083.00	8,384.49	6,083.00	51.85	53.72	-90.00	2,577.90	-1,318.58	2,299.52	2,199.58	99.94	23.010		
8,400.00	6,083.00	8,484.49	6,083.00	53.38	55.18	-90.00	2,677.90	-1,318.24	2,299.52	2,196.42	103.10	22.305		
8,500.00	6,083.00	8,584.49	6,083.00	54.92	56.65	-90.00	2,777.90	-1,317.90	2,299.52	2,193.23	106.28	21.636		
8,600.00	6,083.00	8,684.49	6,083.00	56.48	58.15	-90.00	2,877.90	-1,317.56	2,299.51	2,190.03	109.49	21.002		
8,700.00	6,083.00	8,784.49	6,083.00	58.04	59.66	-90.00	2,977.90	-1,317.23	2,299.51	2,186.80	112.72	20.401		
8,800.00	6,083.00	8,884.49	6,083.00	59.63	61.18	-90.00	3,077.90	-1,316.89	2,299.51	2,183.55	115.96	19.830		
8,900.00	6,083.00	8,984.49	6,083.00	61.22	62.72	-90.00	3,177.90	-1,316.55	2,299.51	2,180.29	119.23	19.287		
9,000.00	6,083.00	9,084.49	6,083.00	62.82	64.27	-90.00	3,277.90	-1,316.21	2,299.51	2,177.00	122.51	18.771		
9,100.00	6,083.00	9,184.49	6,083.00	64.43	65.83	-90.00	3,377.90	-1,315.87	2,299.51	2,173.71	125.80	18.279		
9,200.00	6,083.00	9,284.49	6,083.00	66.05	67.40	-90.00	3,477.90	-1,315.53	2,299.51	2,170.40	129.11	17.811		
9,300.00	6,083.00	9,384.49	6,083.00	67.67	68.99	-90.00	3,577.90	-1,315.19	2,299.51	2,167.08	132.43	17.364		
9,400.00	6,083.00	9,484.49	6,083.00	69.31	70.58	-90.00	3,677.90	-1,314.85	2,299.50	2,163.75	135.76	16.938		
9,500.00	6,083.00	9,584.49	6,083.00	70.95	72.18	-90.00	3,777.90	-1,314.51	2,299.50	2,160.40	139.10	16.531		
9,600.00	6,083.00	9,684.49	6,083.00	72.60	73.79	-90.00	3,877.90	-1,314.17	2,299.50	2,157.05	142.45	16.142		
9,700.00	6,083.00	9,784.49	6,083.00	74.25	75.41	-90.00	3,977.90	-1,313.83	2,299.50	2,153.69	145.81	15.770		
9,800.00	6,083.00	9,884.49	6,083.00	75.91	77.03	-90.00	4,077.90	-1,313.49	2,299.50	2,150.32	149.18	15.414		
9,900.00	6,083.00	9,984.49	6,083.00	77.57	78.66	-90.00	4,177.89	-1,313.16	2,299.50	2,146.94	152.56	15.073		
10,000.00	6,083.00	10,084.49	6,083.00	79.24	80.30	-90.00	4,277.89	-1,312.82	2,299.50	2,143.55	155.95	14.745		
10,100.00	6,083.00	10,184.49	6,083.00	80.91	81.94	-90.00	4,377.89	-1,312.48	2,299.50	2,140.16	159.34	14.432		
10,200.00	6,083.00	10,284.49	6,083.00	82.59	83.59	-90.00	4,477.89	-1,312.14	2,299.49	2,136.76	162.74	14.130		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	10,384.49	6,083.00	84.27	85.24	-90.00	4,577.89	-1,311.80	2,299.49	2,133.35	166.14	13.840		
10,400.00	6,083.00	10,484.49	6,083.00	85.95	86.90	-90.00	4,677.89	-1,311.46	2,299.49	2,129.94	169.55	13.562		
10,500.00	6,083.00	10,584.49	6,083.00	87.64	88.56	-90.00	4,777.89	-1,311.12	2,299.49	2,126.52	172.97	13.294		
10,600.00	6,083.00	10,684.49	6,083.00	89.34	90.23	-90.00	4,877.89	-1,310.78	2,299.49	2,123.10	176.39	13.036		
10,700.00	6,083.00	10,784.49	6,083.00	91.03	91.90	-90.00	4,977.89	-1,310.44	2,299.49	2,119.67	179.82	12.788		
10,800.00	6,083.00	10,884.49	6,083.00	92.73	93.58	-90.00	5,077.89	-1,310.10	2,299.49	2,116.24	183.25	12.548		
10,900.00	6,083.00	10,984.49	6,083.00	94.43	95.25	-90.00	5,177.89	-1,309.76	2,299.49	2,112.80	186.69	12.317		
11,000.00	6,083.00	11,084.49	6,083.00	96.13	96.94	-90.00	5,277.89	-1,309.43	2,299.48	2,109.36	190.13	12.095		
11,100.00	6,083.00	11,184.49	6,083.00	97.84	98.62	-90.00	5,377.89	-1,309.09	2,299.48	2,105.91	193.57	11.879		
11,200.00	6,083.00	11,284.49	6,083.00	99.55	100.31	-90.00	5,477.89	-1,308.75	2,299.48	2,102.46	197.02	11.671		
11,300.00	6,083.00	11,384.49	6,083.00	101.26	102.00	-90.00	5,577.89	-1,308.41	2,299.48	2,099.01	200.47	11.471		
11,400.00	6,083.00	11,484.49	6,083.00	102.97	103.70	-90.00	5,677.89	-1,308.07	2,299.48	2,095.56	203.92	11.276		
11,500.00	6,083.00	11,584.49	6,083.00	104.68	105.39	-90.00	5,777.89	-1,307.73	2,299.48	2,092.10	207.38	11.088		
11,600.00	6,083.00	11,684.49	6,083.00	106.40	107.09	-90.00	5,877.88	-1,307.39	2,299.48	2,088.64	210.84	10.906		
11,700.00	6,083.00	11,784.49	6,083.00	108.12	108.79	-90.00	5,977.88	-1,307.05	2,299.47	2,085.17	214.30	10.730		
11,800.00	6,083.00	11,884.49	6,083.00	109.84	110.50	-90.00	6,077.88	-1,306.71	2,299.47	2,081.70	217.77	10.559		
11,900.00	6,083.00	11,984.49	6,083.00	111.56	112.20	-90.00	6,177.88	-1,306.37	2,299.47	2,078.23	221.24	10.394		
12,000.00	6,083.00	12,084.49	6,083.00	113.29	113.91	-90.00	6,277.88	-1,306.03	2,299.47	2,074.76	224.71	10.233		
12,100.00	6,083.00	12,184.49	6,083.00	115.01	115.62	-90.00	6,377.88	-1,305.69	2,299.47	2,071.29	228.18	10.077		
12,200.00	6,083.00	12,284.49	6,083.00	116.74	117.33	-90.00	6,477.88	-1,305.36	2,299.47	2,067.81	231.66	9.926		
12,300.00	6,083.00	12,384.49	6,083.00	118.47	119.05	-90.00	6,577.88	-1,305.02	2,299.47	2,064.33	235.14	9.779		
12,400.00	6,083.00	12,484.49	6,083.00	120.19	120.76	-90.00	6,677.88	-1,304.68	2,299.47	2,060.85	238.62	9.637		
12,500.00	6,083.00	12,584.49	6,083.00	121.93	122.48	-90.00	6,777.88	-1,304.34	2,299.46	2,057.37	242.10	9.498		
12,600.00	6,083.00	12,684.49	6,083.00	123.66	124.20	-90.00	6,877.88	-1,304.00	2,299.46	2,053.88	245.58	9.363		
12,700.00	6,083.00	12,784.49	6,083.00	125.39	125.92	-90.00	6,977.88	-1,303.66	2,299.46	2,050.40	249.07	9.232		
12,800.00	6,083.00	12,884.49	6,083.00	127.12	127.64	-90.00	7,077.88	-1,303.32	2,299.46	2,046.91	252.55	9.105		
12,900.00	6,083.00	12,984.49	6,083.00	128.86	129.37	-90.00	7,177.88	-1,302.98	2,299.46	2,043.42	256.04	8.981		
13,000.00	6,083.00	13,084.49	6,083.00	130.60	131.09	-90.00	7,277.88	-1,302.64	2,299.46	2,039.92	259.53	8.860		
13,100.00	6,083.00	13,184.49	6,083.00	132.33	132.82	-90.00	7,377.88	-1,302.30	2,299.46	2,036.43	263.03	8.742		
13,200.00	6,083.00	13,284.49	6,083.00	134.07	134.54	-90.00	7,477.88	-1,301.96	2,299.46	2,032.94	266.52	8.628		
13,300.00	6,083.00	13,384.49	6,083.00	135.81	136.27	-90.00	7,577.87	-1,301.63	2,299.45	2,029.44	270.01	8.516		
13,400.00	6,083.00	13,484.49	6,083.00	137.55	138.00	-90.00	7,677.87	-1,301.29	2,299.45	2,025.94	273.51	8.407		
13,500.00	6,083.00	13,584.49	6,083.00	139.29	139.73	-90.00	7,777.87	-1,300.95	2,299.45	2,022.44	277.01	8.301		
13,600.00	6,083.00	13,684.49	6,083.00	141.03	141.47	-90.00	7,877.87	-1,300.61	2,299.45	2,018.94	280.51	8.197		
13,700.00	6,083.00	13,784.49	6,083.00	142.78	143.20	-90.00	7,977.87	-1,300.27	2,299.45	2,015.44	284.01	8.096		
13,800.00	6,083.00	13,884.49	6,083.00	144.52	144.93	-90.00	8,077.87	-1,299.93	2,299.45	2,011.94	287.51	7.998		
13,900.00	6,083.00	13,984.49	6,083.00	146.26	146.67	-90.00	8,177.87	-1,299.59	2,299.45	2,008.44	291.01	7.902		
14,000.00	6,083.00	14,084.49	6,083.00	148.01	148.40	-90.00	8,277.87	-1,299.25	2,299.45	2,004.93	294.51	7.808		
14,100.00	6,083.00	14,184.49	6,083.00	149.75	150.14	-90.00	8,377.87	-1,298.91	2,299.44	2,001.43	298.02	7.716		
14,200.00	6,083.00	14,284.49	6,083.00	151.50	151.88	-90.00	8,477.87	-1,298.57	2,299.44	1,997.92	301.52	7.626		
14,300.00	6,083.00	14,384.49	6,083.00	153.25	153.62	-90.00	8,577.87	-1,298.23	2,299.44	1,994.41	305.03	7.538		
14,400.00	6,083.00	14,484.49	6,083.00	154.99	155.36	-90.00	8,677.87	-1,297.89	2,299.44	1,990.90	308.54	7.453		
14,500.00	6,083.00	14,584.49	6,083.00	156.74	157.10	-90.00	8,777.87	-1,297.56	2,299.44	1,987.39	312.05	7.369		
14,600.00	6,083.00	14,684.49	6,083.00	158.49	158.84	-90.00	8,877.87	-1,297.22	2,299.44	1,983.88	315.55	7.287		
14,700.00	6,083.00	14,784.49	6,083.00	160.24	160.58	-90.00	8,977.87	-1,296.88	2,299.44	1,980.37	319.07	7.207		
14,800.00	6,083.00	14,884.49	6,083.00	161.99	162.32	-90.00	9,077.87	-1,296.54	2,299.43	1,976.86	322.58	7.128		
14,900.00	6,083.00	14,984.49	6,083.00	163.74	164.06	-90.00	9,177.87	-1,296.20	2,299.43	1,973.35	326.09	7.052		
15,000.00	6,083.00	15,084.49	6,083.00	165.49	165.81	-90.00	9,277.87	-1,295.86	2,299.43	1,969.83	329.60	6.976		
15,100.00	6,083.00	15,184.49	6,083.00	167.24	167.55	-90.00	9,377.86	-1,295.52	2,299.43	1,966.32	333.11	6.903		
15,200.00	6,083.00	15,284.49	6,083.00	168.99	169.29	-90.00	9,477.86	-1,295.18	2,299.43	1,962.80	336.63	6.831		
15,300.00	6,083.00	15,384.49	6,083.00	170.74	171.04	-90.00	9,577.86	-1,294.84	2,299.43	1,959.29	340.14	6.760		
15,400.00	6,083.00	15,484.49	6,083.00	172.50	172.79	-90.00	9,677.86	-1,294.50	2,299.43	1,955.77	343.66	6.691		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,500.00	6,083.00	15,584.49	6,083.00	174.25	174.53	-90.00	9,777.86	-1,294.16	2,299.43	1,952.25	347.17	6.623	
15,600.00	6,083.00	15,684.49	6,083.00	176.00	176.28	-90.00	9,877.86	-1,293.83	2,299.42	1,948.73	350.69	6.557	
15,700.00	6,083.00	15,784.49	6,083.00	177.76	178.03	-90.00	9,977.86	-1,293.49	2,299.42	1,945.22	354.21	6.492	
15,800.00	6,083.00	15,884.49	6,083.00	179.51	179.78	-90.00	10,077.86	-1,293.15	2,299.42	1,941.70	357.72	6.428	
15,900.00	6,083.00	15,984.49	6,083.00	181.27	181.52	-90.00	10,177.86	-1,292.81	2,299.42	1,938.18	361.24	6.365	
16,000.00	6,083.00	16,084.49	6,083.00	183.02	183.27	-90.00	10,277.86	-1,292.47	2,299.42	1,934.66	364.76	6.304	
16,077.28	6,083.00	16,161.74	6,083.00	184.38	184.65	-90.00	10,355.11	-1,292.21	2,299.42	1,931.94	367.48	6.257	
16,100.00	6,083.00	16,161.74	6,083.00	184.78	184.65	-90.00	10,355.11	-1,292.21	2,299.53	1,931.61	367.92	6.250	
16,101.43	6,083.00	16,161.74	6,083.00	184.81	184.65	-90.00	10,355.11	-1,292.21	2,299.55	1,931.60	367.94	6.250 SF	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	0.35	45.17	0.28	45.17							
100.00	100.00	100.28	100.28	0.27	0.15	0.60	44.86	0.47	44.86	44.44	0.42	107.192				
200.00	199.98	200.33	200.33	0.62	0.41	-78.94	44.05	0.77	43.69	42.65	1.03	42.372				
300.00	299.84	300.18	300.17	0.99	0.76	-86.74	43.26	0.20	42.29	40.55	1.75	24.235				
400.00	399.45	400.23	400.21	1.36	1.12	-99.50	41.94	-0.07	41.56	39.09	2.48	16.780				
404.83	404.26	405.06	405.04	1.38	1.14	-100.25	41.84	-0.07	41.56	39.05	2.51	16.536	CC, ES			
500.00	498.70	499.10	499.07	1.76	1.48	-115.99	40.28	-0.03	43.85	40.63	3.22	13.627				
600.00	597.47	596.90	596.86	2.18	1.81	-131.10	40.38	-0.17	52.82	48.87	3.95	13.373				
700.00	695.99	693.71	693.64	2.62	2.14	-141.65	41.94	-1.86	67.67	63.02	4.65	14.543				
800.00	794.52	790.23	790.06	3.06	2.47	-148.05	44.60	-5.49	86.23	80.88	5.35	16.116				
900.00	893.05	887.65	887.31	3.51	2.82	-151.78	48.24	-9.76	106.33	100.28	6.05	17.562				
1,000.00	991.57	984.21	983.66	3.97	3.16	-153.89	52.84	-14.21	127.17	120.41	6.76	18.816				
1,100.00	1,090.10	1,083.68	1,082.82	4.42	3.52	-155.01	58.80	-19.20	148.79	141.30	7.49	19.872				
1,200.00	1,188.62	1,181.88	1,180.84	4.88	3.87	-155.97	63.93	-22.37	168.55	160.34	8.21	20.532				
1,300.00	1,287.15	1,276.95	1,275.71	5.34	4.22	-156.97	68.23	-26.68	189.50	180.59	8.91	21.265				
1,400.00	1,385.68	1,374.23	1,372.79	5.79	4.57	-158.27	71.13	-32.27	211.42	201.80	9.63	21.965				
1,500.00	1,484.20	1,465.00	1,463.26	6.25	4.91	-159.16	74.40	-38.73	234.82	224.53	10.29	22.815				
1,600.00	1,582.73	1,571.49	1,569.43	6.71	5.30	-160.05	78.05	-46.07	258.08	247.00	11.08	23.294				
1,700.00	1,681.26	1,678.39	1,676.28	7.17	5.69	-161.18	79.29	-48.93	276.94	265.08	11.85	23.365				
1,800.00	1,779.78	1,769.30	1,767.15	7.63	6.01	-162.09	79.95	-51.39	295.94	283.42	12.53	23.627				
1,900.00	1,878.31	1,857.35	1,855.04	8.09	6.34	-162.84	81.03	-56.42	317.98	304.80	13.17	24.139				
2,000.00	1,976.83	1,944.13	1,941.48	8.55	6.66	-163.44	82.53	-63.98	343.01	329.21	13.80	24.851				
2,100.00	2,075.36	2,029.52	2,026.26	9.01	6.99	-163.91	84.45	-73.93	370.96	356.55	14.41	25.735				
2,200.00	2,173.89	2,113.40	2,109.21	9.47	7.32	-164.27	86.73	-86.13	401.74	386.73	15.01	26.769				
2,300.00	2,272.41	2,205.64	2,200.15	9.93	7.70	-164.59	89.55	-101.32	434.38	418.69	15.69	27.689				
2,400.00	2,370.94	2,300.12	2,293.29	10.40	8.09	-164.87	92.45	-116.93	467.09	450.69	16.39	28.492				
2,500.00	2,469.47	2,394.60	2,386.43	10.86	8.49	-165.11	95.34	-132.53	499.80	482.70	17.10	29.227				
2,600.00	2,567.99	2,489.08	2,479.56	11.32	8.89	-165.32	98.23	-148.13	532.52	514.71	17.81	29.902				
2,700.00	2,666.52	2,583.56	2,572.70	11.78	9.29	-165.50	101.13	-163.73	565.25	546.73	18.52	30.524				
2,800.00	2,765.05	2,678.04	2,665.84	12.24	9.70	-165.67	104.02	-179.34	597.98	578.75	19.23	31.099				
2,900.00	2,863.57	2,772.51	2,758.97	12.70	10.11	-165.82	106.92	-194.94	630.71	610.77	19.94	31.631				
3,000.00	2,962.10	2,866.99	2,852.11	13.16	10.52	-165.95	109.81	-210.54	663.45	642.80	20.65	32.126				
3,100.00	3,060.62	2,961.47	2,945.24	13.63	10.93	-166.07	112.70	-226.14	696.19	674.83	21.36	32.586				
3,200.00	3,159.15	3,055.95	3,038.38	14.09	11.34	-166.19	115.60	-241.75	728.93	706.86	22.08	33.016				
3,300.00	3,257.68	3,150.43	3,131.52	14.55	11.76	-166.29	118.49	-257.35	761.68	738.89	22.79	33.419				
3,400.00	3,356.20	3,244.91	3,224.65	15.01	12.18	-166.38	121.38	-272.95	794.43	770.92	23.51	33.796				
3,500.00	3,454.73	3,339.38	3,317.79	15.47	12.60	-166.46	124.28	-288.56	827.18	802.96	24.22	34.150				
3,600.00	3,553.26	3,433.86	3,410.93	15.93	13.02	-166.54	127.17	-304.16	859.93	834.99	24.94	34.484				
3,700.00	3,651.78	3,528.34	3,504.06	16.40	13.44	-166.62	130.07	-319.76	892.68	867.03	25.65	34.798				
3,800.00	3,750.31	3,622.82	3,597.20	16.86	13.86	-166.68	132.96	-335.36	925.43	899.06	26.37	35.094				
3,900.00	3,848.83	3,717.30	3,690.33	17.32	14.28	-166.75	135.85	-350.97	958.19	931.10	27.09	35.375				
4,000.00	3,947.36	3,811.78	3,783.47	17.78	14.70	-166.81	138.75	-366.57	990.94	963.14	27.80	35.640				
4,100.00	4,045.89	3,906.25	3,876.61	18.24	15.13	-166.86	141.64	-382.17	1,023.70	995.18	28.52	35.892				
4,200.00	4,144.41	4,000.73	3,969.74	18.70	15.55	-166.91	144.53	-397.77	1,056.46	1,027.22	29.24	36.131				
4,300.00	4,242.94	4,095.21	4,062.88	19.17	15.98	-166.96	147.43	-413.38	1,089.22	1,059.26	29.96	36.359				
4,400.00	4,341.47	4,189.69	4,156.02	19.63	16.40	-167.01	150.32	-428.98	1,121.98	1,091.30	30.68	36.575				
4,500.00	4,439.99	4,284.17	4,249.15	20.09	16.83	-167.05	153.22	-444.58	1,154.73	1,123.34	31.39	36.781				
4,600.00	4,538.52	4,378.65	4,342.29	20.55	17.25	-167.09	156.11	-460.18	1,187.49	1,155.38	32.11	36.978				
4,700.00	4,637.04	4,473.12	4,435.42	21.01	17.68	-167.13	159.00	-475.79	1,220.26	1,187.42	32.83	37.165				
4,800.00	4,735.57	4,567.60	4,528.56	21.48	18.11	-167.17	161.90	-491.39	1,253.02	1,219.46	33.55	37.345				
4,900.00	4,834.10	4,662.08	4,621.70	21.94	18.54	-167.20	164.79	-506.99	1,285.78	1,251.50	34.27	37.516				
5,000.00	4,932.62	4,756.56	4,714.83	22.40	18.96	-167.24	167.68	-522.59	1,318.54	1,283.55	34.99	37.680				

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,031.15	4,851.04	4,807.97	22.86	19.39	-167.27	170.58	-538.20	1,351.30	1,315.59	35.71	37.838		
5,200.00	5,129.68	4,945.52	4,901.10	23.32	19.82	-167.30	173.47	-553.80	1,384.06	1,347.63	36.43	37.989		
5,300.00	5,228.20	5,040.00	4,994.24	23.79	20.25	-167.33	176.37	-569.40	1,416.83	1,379.67	37.15	38.134		
5,400.00	5,326.73	5,134.47	5,087.38	24.25	20.68	-167.35	179.26	-585.00	1,449.59	1,411.71	37.88	38.273		
5,500.00	5,425.25	5,228.95	5,180.51	24.71	21.11	-167.38	182.15	-600.61	1,482.35	1,443.76	38.60	38.407		
5,600.00	5,523.78	5,323.43	5,273.65	25.17	21.54	-167.41	185.05	-616.21	1,515.12	1,475.80	39.32	38.535		
5,700.00	5,621.78	5,417.59	5,366.47	25.64	21.97	-129.80	187.93	-631.76	1,547.77	1,507.72	40.05	38.650		
5,800.00	5,716.63	5,509.24	5,456.82	26.12	22.39	-110.33	190.74	-646.89	1,579.77	1,538.99	40.78	38.738		
5,900.00	5,805.45	5,596.83	5,543.16	26.60	22.78	-101.13	193.48	-661.36	1,610.87	1,569.35	41.52	38.800		
6,000.00	5,885.54	5,700.06	5,643.92	27.08	23.26	-96.04	207.39	-678.20	1,640.56	1,598.12	42.44	38.652		
6,100.00	5,954.47	5,817.13	5,753.06	27.57	23.81	-92.96	244.99	-696.37	1,667.71	1,624.14	43.57	38.277		
6,200.00	6,010.13	5,952.82	5,867.05	28.08	24.46	-91.19	315.53	-715.24	1,691.16	1,646.21	44.95	37.625		
6,300.00	6,050.85	6,111.57	5,975.27	28.62	25.24	-90.36	429.61	-732.99	1,709.49	1,662.82	46.67	36.631		
6,400.00	6,075.38	6,293.77	6,056.11	29.22	26.29	-90.08	591.52	-745.99	1,721.13	1,672.32	48.81	35.260		
6,500.00	6,083.00	6,481.03	6,083.00	29.87	27.60	-90.00	775.97	-749.87	1,724.73	1,673.47	51.25	33.651		
6,600.00	6,083.00	6,581.03	6,083.00	30.60	28.41	-90.00	875.97	-749.53	1,724.72	1,671.65	53.08	32.495		
6,700.00	6,083.00	6,681.03	6,083.00	31.42	29.31	-90.00	975.97	-749.19	1,724.72	1,669.66	55.06	31.323		
6,800.00	6,083.00	6,781.03	6,083.00	32.32	30.29	-90.00	1,075.97	-748.85	1,724.72	1,667.52	57.20	30.153		
6,900.00	6,083.00	6,881.03	6,083.00	33.30	31.34	-90.00	1,175.97	-748.52	1,724.72	1,665.25	59.47	29.000		
7,000.00	6,083.00	6,981.03	6,083.00	34.35	32.47	-90.00	1,275.97	-748.18	1,724.72	1,662.85	61.86	27.879		
7,100.00	6,083.00	7,081.03	6,083.00	35.45	33.65	-90.00	1,375.97	-747.84	1,724.72	1,660.35	64.36	26.796		
7,200.00	6,083.00	7,181.03	6,083.00	36.62	34.88	-90.00	1,475.97	-747.50	1,724.71	1,657.76	66.96	25.758		
7,300.00	6,083.00	7,281.03	6,083.00	37.83	36.15	-90.00	1,575.97	-747.16	1,724.71	1,655.08	69.64	24.767		
7,400.00	6,083.00	7,381.03	6,083.00	39.09	37.47	-90.00	1,675.97	-746.82	1,724.71	1,652.32	72.39	23.825		
7,500.00	6,083.00	7,481.03	6,083.00	40.39	38.83	-90.00	1,775.97	-746.48	1,724.71	1,649.50	75.21	22.932		
7,600.00	6,083.00	7,581.03	6,083.00	41.73	40.22	-90.00	1,875.97	-746.14	1,724.71	1,646.62	78.09	22.087		
7,700.00	6,083.00	7,681.03	6,083.00	43.10	41.64	-90.00	1,975.96	-745.80	1,724.71	1,643.68	81.02	21.287		
7,800.00	6,083.00	7,781.03	6,083.00	44.50	43.08	-90.00	2,075.96	-745.46	1,724.70	1,640.70	84.00	20.532		
7,900.00	6,083.00	7,881.03	6,083.00	45.93	44.55	-90.00	2,175.96	-745.12	1,724.70	1,637.68	87.02	19.819		
8,000.00	6,083.00	7,981.03	6,083.00	47.38	46.04	-90.00	2,275.96	-744.78	1,724.70	1,634.62	90.08	19.146		
8,100.00	6,083.00	8,081.03	6,083.00	48.85	47.55	-90.00	2,375.96	-744.44	1,724.70	1,631.52	93.18	18.510		
8,200.00	6,083.00	8,181.03	6,083.00	50.34	49.08	-90.00	2,475.96	-744.10	1,724.70	1,628.39	96.30	17.909		
8,300.00	6,083.00	8,281.03	6,083.00	51.85	50.63	-90.00	2,575.96	-743.76	1,724.69	1,625.24	99.46	17.341		
8,400.00	6,083.00	8,381.03	6,083.00	53.38	52.18	-90.00	2,675.96	-743.42	1,724.69	1,622.05	102.64	16.803		
8,500.00	6,083.00	8,481.03	6,083.00	54.92	53.76	-90.00	2,775.96	-743.08	1,724.69	1,618.85	105.84	16.295		
8,600.00	6,083.00	8,581.03	6,083.00	56.48	55.34	-90.00	2,875.96	-742.74	1,724.69	1,615.62	109.07	15.813		
8,700.00	6,083.00	8,681.03	6,083.00	58.04	56.94	-90.00	2,975.96	-742.40	1,724.69	1,612.38	112.31	15.356		
8,800.00	6,083.00	8,781.03	6,083.00	59.63	58.54	-90.00	3,075.96	-742.06	1,724.69	1,609.11	115.57	14.923		
8,900.00	6,083.00	8,881.03	6,083.00	61.22	60.16	-90.00	3,175.96	-741.72	1,724.68	1,605.83	118.85	14.511		
9,000.00	6,083.00	8,981.03	6,083.00	62.82	61.78	-90.00	3,275.96	-741.38	1,724.68	1,602.54	122.15	14.120		
9,100.00	6,083.00	9,081.03	6,083.00	64.43	63.42	-90.00	3,375.96	-741.05	1,724.68	1,599.23	125.45	13.747		
9,200.00	6,083.00	9,181.03	6,083.00	66.05	65.06	-90.00	3,475.96	-740.71	1,724.68	1,595.91	128.77	13.393		
9,300.00	6,083.00	9,281.03	6,083.00	67.67	66.70	-90.00	3,575.96	-740.37	1,724.68	1,592.57	132.11	13.055		
9,400.00	6,083.00	9,381.03	6,083.00	69.31	68.36	-90.00	3,675.95	-740.03	1,724.68	1,589.23	135.45	12.733		
9,500.00	6,083.00	9,481.03	6,083.00	70.95	70.02	-90.00	3,775.95	-739.69	1,724.67	1,585.87	138.80	12.425		
9,600.00	6,083.00	9,581.03	6,083.00	72.60	71.68	-90.00	3,875.95	-739.35	1,724.67	1,582.51	142.17	12.131		
9,700.00	6,083.00	9,681.03	6,083.00	74.25	73.35	-90.00	3,975.95	-739.01	1,724.67	1,579.13	145.54	11.850		
9,800.00	6,083.00	9,781.03	6,083.00	75.91	75.02	-90.00	4,075.95	-738.67	1,724.67	1,575.75	148.92	11.581		
9,900.00	6,083.00	9,881.03	6,083.00	77.57	76.70	-90.00	4,175.95	-738.33	1,724.67	1,572.36	152.30	11.324		
10,000.00	6,083.00	9,981.03	6,083.00	79.24	78.39	-90.00	4,275.95	-737.99	1,724.67	1,568.97	155.70	11.077		
10,100.00	6,083.00	10,081.03	6,083.00	80.91	80.07	-90.00	4,375.95	-737.65	1,724.66	1,565.56	159.10	10.840		
10,200.00	6,083.00	10,181.03	6,083.00	82.59	81.76	-90.00	4,475.95	-737.31	1,724.66	1,562.16	162.51	10.613		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	10,281.03	6,083.00	84.27	83.46	-90.00	4,575.95	-736.97	1,724.66	1,558.74	165.92	10.395		
10,400.00	6,083.00	10,381.03	6,083.00	85.95	85.16	-90.00	4,675.95	-736.63	1,724.66	1,555.32	169.34	10.185		
10,500.00	6,083.00	10,481.03	6,083.00	87.64	86.86	-90.00	4,775.95	-736.29	1,724.66	1,551.89	172.76	9.983		
10,600.00	6,083.00	10,581.03	6,083.00	89.34	88.56	-90.00	4,875.95	-735.95	1,724.66	1,548.46	176.19	9.788		
10,700.00	6,083.00	10,681.03	6,083.00	91.03	90.27	-90.00	4,975.95	-735.61	1,724.65	1,545.03	179.63	9.601		
10,800.00	6,083.00	10,781.03	6,083.00	92.73	91.97	-90.00	5,075.95	-735.27	1,724.65	1,541.59	183.06	9.421		
10,900.00	6,083.00	10,881.03	6,083.00	94.43	93.68	-90.00	5,175.95	-734.93	1,724.65	1,538.15	186.51	9.247		
11,000.00	6,083.00	10,981.03	6,083.00	96.13	95.40	-90.00	5,275.95	-734.59	1,724.65	1,534.70	189.95	9.079		
11,100.00	6,083.00	11,081.03	6,083.00	97.84	97.11	-90.00	5,375.95	-734.25	1,724.65	1,531.25	193.40	8.917		
11,200.00	6,083.00	11,181.03	6,083.00	99.55	98.83	-90.00	5,475.94	-733.91	1,724.65	1,527.79	196.85	8.761		
11,300.00	6,083.00	11,281.03	6,083.00	101.26	100.55	-90.00	5,575.94	-733.58	1,724.64	1,524.33	200.31	8.610		
11,400.00	6,083.00	11,381.03	6,083.00	102.97	102.27	-90.00	5,675.94	-733.24	1,724.64	1,520.87	203.77	8.464		
11,500.00	6,083.00	11,481.03	6,083.00	104.68	104.00	-90.00	5,775.94	-732.90	1,724.64	1,517.41	207.23	8.322		
11,600.00	6,083.00	11,581.03	6,083.00	106.40	105.72	-90.00	5,875.94	-732.56	1,724.64	1,513.94	210.70	8.185		
11,700.00	6,083.00	11,681.03	6,083.00	108.12	107.45	-90.00	5,975.94	-732.22	1,724.64	1,510.47	214.17	8.053		
11,800.00	6,083.00	11,781.03	6,083.00	109.84	109.17	-90.00	6,075.94	-731.88	1,724.64	1,507.00	217.64	7.924		
11,900.00	6,083.00	11,881.03	6,083.00	111.56	110.90	-90.00	6,175.94	-731.54	1,724.63	1,503.52	221.11	7.800		
12,000.00	6,083.00	11,981.03	6,083.00	113.29	112.63	-90.00	6,275.94	-731.20	1,724.63	1,500.05	224.58	7.679		
12,100.00	6,083.00	12,081.03	6,083.00	115.01	114.37	-90.00	6,375.94	-730.86	1,724.63	1,496.57	228.06	7.562		
12,200.00	6,083.00	12,181.03	6,083.00	116.74	116.10	-90.00	6,475.94	-730.52	1,724.63	1,493.09	231.54	7.448		
12,300.00	6,083.00	12,281.03	6,083.00	118.47	117.83	-90.00	6,575.94	-730.18	1,724.63	1,489.60	235.02	7.338		
12,400.00	6,083.00	12,381.03	6,083.00	120.19	119.57	-90.00	6,675.94	-729.84	1,724.63	1,486.12	238.51	7.231		
12,500.00	6,083.00	12,481.03	6,083.00	121.93	121.31	-90.00	6,775.94	-729.50	1,724.62	1,482.63	241.99	7.127		
12,600.00	6,083.00	12,581.03	6,083.00	123.66	123.05	-90.00	6,875.94	-729.16	1,724.62	1,479.14	245.48	7.025		
12,700.00	6,083.00	12,681.03	6,083.00	125.39	124.78	-90.00	6,975.94	-728.82	1,724.62	1,475.65	248.97	6.927		
12,800.00	6,083.00	12,781.03	6,083.00	127.12	126.52	-90.00	7,075.94	-728.48	1,724.62	1,472.16	252.46	6.831		
12,900.00	6,083.00	12,881.03	6,083.00	128.86	128.27	-90.00	7,175.93	-728.14	1,724.62	1,468.66	255.95	6.738		
13,000.00	6,083.00	12,981.03	6,083.00	130.60	130.01	-90.00	7,275.93	-727.80	1,724.62	1,465.17	259.45	6.647		
13,100.00	6,083.00	13,081.03	6,083.00	132.33	131.75	-90.00	7,375.93	-727.46	1,724.61	1,461.67	262.94	6.559		
13,200.00	6,083.00	13,181.03	6,083.00	134.07	133.49	-90.00	7,475.93	-727.12	1,724.61	1,458.17	266.44	6.473		
13,300.00	6,083.00	13,281.03	6,083.00	135.81	135.24	-90.00	7,575.93	-726.78	1,724.61	1,454.67	269.94	6.389		
13,400.00	6,083.00	13,381.03	6,083.00	137.55	136.98	-90.00	7,675.93	-726.45	1,724.61	1,451.17	273.44	6.307		
13,500.00	6,083.00	13,481.03	6,083.00	139.29	138.73	-90.00	7,775.93	-726.11	1,724.61	1,447.67	276.94	6.227		
13,600.00	6,083.00	13,581.03	6,083.00	141.03	140.47	-90.00	7,875.93	-725.77	1,724.61	1,444.17	280.44	6.150		
13,700.00	6,083.00	13,681.03	6,083.00	142.78	142.22	-90.00	7,975.93	-725.43	1,724.60	1,440.66	283.94	6.074		
13,800.00	6,083.00	13,781.03	6,083.00	144.52	143.97	-90.00	8,075.93	-725.09	1,724.60	1,437.16	287.44	6.000		
13,900.00	6,083.00	13,881.03	6,083.00	146.26	145.72	-90.00	8,175.93	-724.75	1,724.60	1,433.65	290.95	5.928		
14,000.00	6,083.00	13,981.03	6,083.00	148.01	147.47	-90.00	8,275.93	-724.41	1,724.60	1,430.14	294.45	5.857		
14,100.00	6,083.00	14,081.03	6,083.00	149.75	149.22	-90.00	8,375.93	-724.07	1,724.60	1,426.64	297.96	5.788		
14,200.00	6,083.00	14,181.03	6,083.00	151.50	150.97	-90.00	8,475.93	-723.73	1,724.60	1,423.13	301.47	5.721		
14,300.00	6,083.00	14,281.03	6,083.00	153.25	152.72	-90.00	8,575.93	-723.39	1,724.59	1,419.61	304.98	5.655		
14,400.00	6,083.00	14,381.03	6,083.00	154.99	154.47	-90.00	8,675.93	-723.05	1,724.59	1,416.10	308.49	5.590		
14,500.00	6,083.00	14,481.03	6,083.00	156.74	156.22	-90.00	8,775.93	-722.71	1,724.59	1,412.59	312.00	5.528		
14,600.00	6,083.00	14,581.03	6,083.00	158.49	157.97	-90.00	8,875.93	-722.37	1,724.59	1,409.08	315.51	5.466		
14,700.00	6,083.00	14,681.03	6,083.00	160.24	159.72	-90.00	8,975.92	-722.03	1,724.59	1,405.56	319.02	5.406		
14,800.00	6,083.00	14,781.03	6,083.00	161.99	161.48	-90.00	9,075.92	-721.69	1,724.58	1,402.05	322.54	5.347		
14,900.00	6,083.00	14,881.03	6,083.00	163.74	163.23	-90.00	9,175.92	-721.35	1,724.58	1,398.53	326.05	5.289		
15,000.00	6,083.00	14,981.03	6,083.00	165.49	164.98	-90.00	9,275.92	-721.01	1,724.58	1,395.02	329.56	5.233		
15,100.00	6,083.00	15,081.03	6,083.00	167.24	166.74	-90.00	9,375.92	-720.67	1,724.58	1,391.50	333.08	5.178		
15,200.00	6,083.00	15,181.03	6,083.00	168.99	168.49	-90.00	9,475.92	-720.33	1,724.58	1,387.98	336.59	5.124		
15,300.00	6,083.00	15,281.03	6,083.00	170.74	170.25	-90.00	9,575.92	-719.99	1,724.58	1,384.47	340.11	5.071		
15,400.00	6,083.00	15,381.03	6,083.00	172.50	172.00	-90.00	9,675.92	-719.65	1,724.57	1,380.95	343.63	5.019		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,500.00	6,083.00	15,481.03	6,083.00	174.25	173.76	-90.00	9,775.92	-719.31	1,724.57	1,377.43	347.15	4.968	
15,600.00	6,083.00	15,581.03	6,083.00	176.00	175.52	-90.00	9,875.92	-718.98	1,724.57	1,373.91	350.66	4.918	
15,700.00	6,083.00	15,681.03	6,083.00	177.76	177.27	-90.00	9,975.92	-718.64	1,724.57	1,370.39	354.18	4.869	
15,800.00	6,083.00	15,781.03	6,083.00	179.51	179.03	-90.00	10,075.92	-718.30	1,724.57	1,366.87	357.70	4.821	
15,900.00	6,083.00	15,881.03	6,083.00	181.27	180.79	-90.00	10,175.92	-717.96	1,724.57	1,363.34	361.22	4.774	
16,000.00	6,083.00	15,981.03	6,083.00	183.02	182.55	-90.00	10,275.92	-717.62	1,724.56	1,359.82	364.74	4.728	
16,082.11	6,083.00	16,063.14	6,083.00	184.46	183.99	-90.00	10,358.03	-717.34	1,724.56	1,356.93	367.63	4.691	
16,100.00	6,083.00	16,063.34	6,083.00	184.78	183.99	-90.00	10,358.22	-717.34	1,724.65	1,356.75	367.91	4.688	
16,101.43	6,083.00	16,063.34	6,083.00	184.81	183.99	-90.00	10,358.22	-717.34	1,724.67	1,356.75	367.92	4.688 SF	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	29.87	0.00	29.87					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	29.87	0.00	29.87	29.34	0.54	55.558		
200.00	199.98	199.98	199.98	0.62	0.63	-81.01	29.87	0.00	29.55	28.30	1.25	23.631		
290.95	290.81	290.81	290.81	0.95	0.95	-89.99	29.87	0.00	29.19	27.28	1.90	15.330 CC		
300.00	299.84	299.84	299.84	0.99	0.99	-91.20	29.87	0.00	29.19	27.22	1.97	14.828 ES		
400.00	399.45	399.45	399.45	1.36	1.34	-107.63	29.87	0.00	30.64	27.94	2.70	11.351		
500.00	498.70	497.43	497.41	1.76	1.69	-125.72	31.06	-1.16	37.93	34.50	3.44	11.037		
600.00	597.47	595.31	595.20	2.18	2.04	-138.99	34.08	-4.12	52.87	48.69	4.17	12.669		
700.00	695.99	693.33	693.12	2.62	2.39	-146.99	37.23	-7.20	70.79	65.90	4.89	14.479		
800.00	794.52	791.35	791.04	3.06	2.75	-151.72	40.38	-10.29	89.52	83.91	5.61	15.970		
900.00	893.05	889.36	888.96	3.51	3.10	-154.81	43.52	-13.37	108.63	102.31	6.32	17.181		
1,000.00	991.57	987.38	986.88	3.97	3.46	-156.97	46.67	-16.46	127.95	120.91	7.04	18.170		
1,100.00	1,090.10	1,085.40	1,084.79	4.42	3.81	-158.56	49.82	-19.54	147.41	139.65	7.76	18.989		
1,200.00	1,188.62	1,183.42	1,182.71	4.88	4.17	-159.78	52.97	-22.62	166.95	158.46	8.48	19.676		
1,300.00	1,287.15	1,281.44	1,280.63	5.34	4.53	-160.75	56.12	-25.71	186.54	177.33	9.21	20.259		
1,400.00	1,385.68	1,379.45	1,378.55	5.79	4.88	-161.53	59.27	-28.79	206.18	196.25	9.93	20.760		
1,500.00	1,484.20	1,477.47	1,476.47	6.25	5.24	-162.18	62.42	-31.88	225.85	215.19	10.66	21.195		
1,600.00	1,582.73	1,575.49	1,574.39	6.71	5.60	-162.72	65.56	-34.96	245.54	234.16	11.38	21.575		
1,700.00	1,681.26	1,673.51	1,672.31	7.17	5.95	-163.18	68.71	-38.05	265.25	253.14	12.11	21.910		
1,800.00	1,779.78	1,771.53	1,770.23	7.63	6.31	-163.58	71.86	-41.13	284.97	272.14	12.83	22.208		
1,900.00	1,878.31	1,869.54	1,868.14	8.09	6.67	-163.93	75.01	-44.21	304.70	291.15	13.56	22.474		
2,000.00	1,976.83	1,967.56	1,966.06	8.55	7.03	-164.23	78.16	-47.30	324.45	310.16	14.28	22.714		
2,100.00	2,075.36	2,065.58	2,063.98	9.01	7.38	-164.50	81.31	-50.38	344.20	329.19	15.01	22.930		
2,200.00	2,173.89	2,163.60	2,161.90	9.47	7.74	-164.74	84.46	-53.47	363.96	348.22	15.74	23.127		
2,300.00	2,272.41	2,261.61	2,259.82	9.93	8.10	-164.95	87.60	-56.55	383.72	367.26	16.46	23.306		
2,400.00	2,370.94	2,359.63	2,357.74	10.40	8.46	-165.15	90.75	-59.64	403.49	386.30	17.19	23.470		
2,500.00	2,469.47	2,457.65	2,455.66	10.86	8.81	-165.32	93.90	-62.72	423.26	405.34	17.92	23.621		
2,600.00	2,567.99	2,555.67	2,553.57	11.32	9.17	-165.49	97.05	-65.80	443.04	424.39	18.65	23.760		
2,700.00	2,666.52	2,653.69	2,651.49	11.78	9.53	-165.63	100.20	-68.89	462.82	443.44	19.37	23.889		
2,800.00	2,765.05	2,751.70	2,749.41	12.24	9.89	-165.77	103.35	-71.97	482.60	462.50	20.10	24.008		
2,900.00	2,863.57	2,849.72	2,847.33	12.70	10.25	-165.89	106.50	-75.06	502.38	481.55	20.83	24.119		
3,000.00	2,962.10	2,947.74	2,945.25	13.16	10.60	-166.01	109.64	-78.14	522.17	500.61	21.56	24.223		
3,100.00	3,060.62	3,045.76	3,043.17	13.63	10.96	-166.11	112.79	-81.23	541.96	519.67	22.28	24.320		
3,200.00	3,159.15	3,143.78	3,141.09	14.09	11.32	-166.21	115.94	-84.31	561.75	538.73	23.01	24.410		
3,300.00	3,257.68	3,241.79	3,239.01	14.55	11.68	-166.30	119.09	-87.39	581.54	557.80	23.74	24.495		
3,400.00	3,356.20	3,339.81	3,336.92	15.01	12.03	-166.39	122.24	-90.48	601.33	576.86	24.47	24.575		
3,500.00	3,454.73	3,437.83	3,434.84	15.47	12.39	-166.47	125.39	-93.56	621.12	595.93	25.20	24.651		
3,600.00	3,553.26	3,535.85	3,532.76	15.93	12.75	-166.54	128.53	-96.65	640.92	614.99	25.93	24.722		
3,700.00	3,651.78	3,633.86	3,630.68	16.40	13.11	-166.62	131.68	-99.73	660.71	634.06	26.65	24.789		
3,800.00	3,750.31	3,731.88	3,728.60	16.86	13.47	-166.68	134.83	-102.82	680.51	653.13	27.38	24.852		
3,900.00	3,848.83	3,829.90	3,826.52	17.32	13.82	-166.75	137.98	-105.90	700.31	672.20	28.11	24.913		
4,000.00	3,947.36	3,927.92	3,924.44	17.78	14.18	-166.81	141.13	-108.98	720.11	691.27	28.84	24.970		
4,100.00	4,045.89	4,025.94	4,022.36	18.24	14.54	-166.86	144.28	-112.07	739.91	710.34	29.57	25.024		
4,200.00	4,144.41	4,123.95	4,120.27	18.70	14.90	-166.92	147.43	-115.15	759.71	729.41	30.30	25.076		
4,300.00	4,242.94	4,221.97	4,218.19	19.17	15.26	-166.97	150.57	-118.24	779.51	748.48	31.03	25.125		
4,400.00	4,341.47	4,319.99	4,316.11	19.63	15.61	-167.01	153.72	-121.32	799.31	767.55	31.75	25.172		
4,500.00	4,439.99	4,418.01	4,414.03	20.09	15.97	-167.06	156.87	-124.41	819.11	786.63	32.48	25.217		
4,600.00	4,538.52	4,516.03	4,511.95	20.55	16.33	-167.10	160.02	-127.49	838.91	805.70	33.21	25.260		
4,700.00	4,637.04	4,614.04	4,609.87	21.01	16.69	-167.15	163.17	-130.57	858.71	824.77	33.94	25.301		
4,800.00	4,735.57	4,712.06	4,707.79	21.48	17.05	-167.19	166.32	-133.66	878.52	843.85	34.67	25.340		
4,900.00	4,834.10	4,810.08	4,805.70	21.94	17.40	-167.22	169.47	-136.74	898.32	862.92	35.40	25.378		
5,000.00	4,932.62	4,908.10	4,903.62	22.40	17.76	-167.26	172.61	-139.83	918.12	882.00	36.13	25.414		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,031.15	5,006.11	5,001.54	22.86	18.12	-167.30	175.76	-142.91	937.93	901.07	36.86	25.448		
5,200.00	5,129.68	5,104.13	5,099.46	23.32	18.48	-167.33	178.91	-146.00	957.73	920.15	37.59	25.481		
5,300.00	5,228.20	5,202.15	5,197.38	23.79	18.84	-167.36	182.06	-149.08	977.54	939.22	38.31	25.513		
5,400.00	5,326.73	5,300.17	5,295.30	24.25	19.19	-167.39	185.21	-152.16	997.34	958.30	39.04	25.544		
5,500.00	5,425.25	5,398.19	5,393.22	24.71	19.55	-167.42	188.36	-155.25	1,017.15	977.37	39.77	25.574		
5,600.00	5,523.78	5,496.20	5,491.14	25.17	19.91	-167.45	191.51	-158.33	1,036.95	996.45	40.50	25.602		
5,700.00	5,621.78	5,594.77	5,589.38	25.64	20.27	-130.99	197.91	-161.42	1,056.67	1,015.42	41.25	25.617		
5,800.00	5,716.63	5,694.49	5,686.40	26.12	20.66	-112.34	220.19	-164.41	1,075.78	1,033.72	42.06	25.579		
5,900.00	5,805.45	5,795.35	5,779.12	26.60	21.08	-103.49	259.48	-167.20	1,093.70	1,050.76	42.93	25.473		
6,000.00	5,885.54	5,897.50	5,864.54	27.08	21.54	-98.30	315.20	-169.71	1,109.89	1,065.98	43.91	25.279		
6,100.00	5,954.47	6,000.97	5,939.59	27.57	22.06	-94.91	386.17	-171.85	1,123.84	1,078.84	45.00	24.974		
6,200.00	6,010.13	6,105.66	6,001.33	28.08	22.68	-92.62	470.54	-173.51	1,135.13	1,088.88	46.25	24.541		
6,300.00	6,050.85	6,211.40	6,047.07	28.62	23.39	-91.13	565.69	-174.63	1,143.40	1,095.71	47.68	23.979		
6,400.00	6,075.38	6,317.84	6,074.71	29.22	24.21	-90.27	668.32	-175.16	1,148.37	1,099.09	49.29	23.300		
6,500.00	6,083.00	6,424.01	6,083.00	29.87	25.10	-90.00	774.02	-175.06	1,149.91	1,098.88	51.03	22.534		
6,600.00	6,083.00	6,524.01	6,083.00	30.60	26.02	-90.00	874.02	-174.72	1,149.91	1,097.05	52.86	21.756		
6,700.00	6,083.00	6,624.01	6,083.00	31.42	27.02	-90.00	974.02	-174.38	1,149.91	1,095.06	54.85	20.966		
6,800.00	6,083.00	6,724.01	6,083.00	32.32	28.10	-90.00	1,074.02	-174.04	1,149.90	1,092.91	56.99	20.178		
6,900.00	6,083.00	6,824.01	6,083.00	33.30	29.25	-90.00	1,174.02	-173.70	1,149.90	1,090.63	59.27	19.402		
7,000.00	6,083.00	6,924.01	6,083.00	34.35	30.45	-90.00	1,274.02	-173.36	1,149.90	1,088.24	61.66	18.648		
7,100.00	6,083.00	7,024.01	6,083.00	35.45	31.71	-90.00	1,374.02	-173.02	1,149.90	1,085.73	64.17	17.920		
7,200.00	6,083.00	7,124.01	6,083.00	36.62	33.02	-90.00	1,474.02	-172.68	1,149.89	1,083.13	66.77	17.223		
7,300.00	6,083.00	7,224.01	6,083.00	37.83	34.37	-90.00	1,574.02	-172.34	1,149.89	1,080.44	69.45	16.557		
7,400.00	6,083.00	7,324.01	6,083.00	39.09	35.75	-90.00	1,674.02	-172.00	1,149.89	1,077.68	72.21	15.925		
7,500.00	6,083.00	7,424.01	6,083.00	40.39	37.17	-90.00	1,774.02	-171.66	1,149.89	1,074.86	75.03	15.325		
7,600.00	6,083.00	7,524.01	6,083.00	41.73	38.62	-90.00	1,874.02	-171.32	1,149.89	1,071.97	77.91	14.758		
7,700.00	6,083.00	7,624.01	6,083.00	43.10	40.10	-90.00	1,974.02	-170.98	1,149.88	1,069.03	80.85	14.222		
7,800.00	6,083.00	7,724.01	6,083.00	44.50	41.60	-90.00	2,074.02	-170.64	1,149.88	1,066.05	83.83	13.716		
7,900.00	6,083.00	7,824.01	6,083.00	45.93	43.11	-90.00	2,174.02	-170.30	1,149.88	1,063.02	86.86	13.238		
8,000.00	6,083.00	7,924.01	6,083.00	47.38	44.65	-90.00	2,274.02	-169.96	1,149.88	1,059.95	89.92	12.787		
8,100.00	6,083.00	8,024.01	6,083.00	48.85	46.21	-90.00	2,374.02	-169.62	1,149.88	1,056.85	93.02	12.361		
8,200.00	6,083.00	8,124.01	6,083.00	50.34	47.78	-90.00	2,474.01	-169.28	1,149.87	1,053.72	96.15	11.959		
8,300.00	6,083.00	8,224.01	6,083.00	51.85	49.36	-90.00	2,574.01	-168.94	1,149.87	1,050.56	99.31	11.579		
8,400.00	6,083.00	8,324.01	6,083.00	53.38	50.96	-90.00	2,674.01	-168.60	1,149.87	1,047.38	102.49	11.219		
8,500.00	6,083.00	8,424.01	6,083.00	54.92	52.57	-90.00	2,774.01	-168.26	1,149.87	1,044.17	105.70	10.879		
8,600.00	6,083.00	8,524.01	6,083.00	56.48	54.18	-90.00	2,874.01	-167.92	1,149.87	1,040.94	108.93	10.556		
8,700.00	6,083.00	8,624.01	6,083.00	58.04	55.81	-90.00	2,974.01	-167.58	1,149.86	1,037.69	112.17	10.251		
8,800.00	6,083.00	8,724.01	6,083.00	59.63	57.45	-90.00	3,074.01	-167.24	1,149.86	1,034.42	115.44	9.961		
8,900.00	6,083.00	8,824.01	6,083.00	61.22	59.09	-90.00	3,174.01	-166.90	1,149.86	1,031.14	118.72	9.686		
9,000.00	6,083.00	8,924.01	6,083.00	62.82	60.74	-90.00	3,274.01	-166.56	1,149.86	1,027.84	122.01	9.424		
9,100.00	6,083.00	9,024.01	6,083.00	64.43	62.40	-90.00	3,374.01	-166.22	1,149.85	1,024.53	125.32	9.175		
9,200.00	6,083.00	9,124.01	6,083.00	66.05	64.07	-90.00	3,474.01	-165.88	1,149.85	1,021.21	128.65	8.938		
9,300.00	6,083.00	9,224.01	6,083.00	67.67	65.74	-90.00	3,574.01	-165.54	1,149.85	1,017.87	131.98	8.712		
9,400.00	6,083.00	9,324.01	6,083.00	69.31	67.41	-90.00	3,674.01	-165.20	1,149.85	1,014.52	135.32	8.497		
9,500.00	6,083.00	9,424.01	6,083.00	70.95	69.09	-90.00	3,774.01	-164.86	1,149.85	1,011.17	138.68	8.291		
9,600.00	6,083.00	9,524.01	6,083.00	72.60	70.78	-90.00	3,874.01	-164.52	1,149.84	1,007.80	142.04	8.095		
9,700.00	6,083.00	9,624.01	6,083.00	74.25	72.47	-90.00	3,974.01	-164.18	1,149.84	1,004.43	145.42	7.907		
9,800.00	6,083.00	9,724.01	6,083.00	75.91	74.16	-90.00	4,074.01	-163.84	1,149.84	1,001.04	148.80	7.728		
9,900.00	6,083.00	9,824.01	6,083.00	77.57	75.86	-90.00	4,174.00	-163.50	1,149.84	997.65	152.19	7.555		
10,000.00	6,083.00	9,924.01	6,083.00	79.24	77.56	-90.00	4,274.00	-163.16	1,149.84	994.25	155.58	7.391		
10,100.00	6,083.00	10,024.01	6,083.00	80.91	79.26	-90.00	4,374.00	-162.82	1,149.83	990.85	158.98	7.232		
10,200.00	6,083.00	10,124.01	6,083.00	82.59	80.97	-90.00	4,474.00	-162.48	1,149.83	987.44	162.39	7.081		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	10,224.01	6,083.00	84.27	82.68	-90.00	4,574.00	-162.14	1,149.83	984.02	165.81	6.935		
10,400.00	6,083.00	10,324.01	6,083.00	85.95	84.39	-90.00	4,674.00	-161.80	1,149.83	980.60	169.23	6.795		
10,500.00	6,083.00	10,424.01	6,083.00	87.64	86.10	-90.00	4,774.00	-161.46	1,149.83	977.17	172.65	6.660		
10,600.00	6,083.00	10,524.01	6,083.00	89.34	87.82	-90.00	4,874.00	-161.12	1,149.82	973.74	176.08	6.530		
10,700.00	6,083.00	10,624.01	6,083.00	91.03	89.54	-90.00	4,974.00	-160.78	1,149.82	970.30	179.52	6.405		
10,800.00	6,083.00	10,724.01	6,083.00	92.73	91.26	-90.00	5,074.00	-160.44	1,149.82	966.86	182.96	6.285		
10,900.00	6,083.00	10,824.01	6,083.00	94.43	92.98	-90.00	5,174.00	-160.10	1,149.82	963.42	186.40	6.169		
11,000.00	6,083.00	10,924.01	6,083.00	96.13	94.71	-90.00	5,274.00	-159.76	1,149.81	959.97	189.85	6.057		
11,100.00	6,083.00	11,024.01	6,083.00	97.84	96.43	-90.00	5,374.00	-159.42	1,149.81	956.52	193.30	5.948		
11,200.00	6,083.00	11,124.01	6,083.00	99.55	98.16	-90.00	5,474.00	-159.08	1,149.81	953.06	196.75	5.844		
11,300.00	6,083.00	11,224.01	6,083.00	101.26	99.89	-90.00	5,574.00	-158.74	1,149.81	949.60	200.21	5.743		
11,400.00	6,083.00	11,324.01	6,083.00	102.97	101.62	-90.00	5,674.00	-158.40	1,149.81	946.14	203.67	5.645		
11,500.00	6,083.00	11,424.01	6,083.00	104.68	103.36	-90.00	5,774.00	-158.06	1,149.80	942.67	207.13	5.551		
11,600.00	6,083.00	11,524.01	6,083.00	106.40	105.09	-90.00	5,874.00	-157.72	1,149.80	939.21	210.60	5.460		
11,700.00	6,083.00	11,624.01	6,083.00	108.12	106.83	-90.00	5,973.99	-157.38	1,149.80	935.73	214.07	5.371		
11,800.00	6,083.00	11,724.01	6,083.00	109.84	108.56	-90.00	6,073.99	-157.04	1,149.80	932.26	217.54	5.286		
11,900.00	6,083.00	11,824.01	6,083.00	111.56	110.30	-90.00	6,173.99	-156.70	1,149.80	928.79	221.01	5.202		
12,000.00	6,083.00	11,924.01	6,083.00	113.29	112.04	-90.00	6,273.99	-156.36	1,149.79	925.31	224.49	5.122		
12,100.00	6,083.00	12,024.01	6,083.00	115.01	113.78	-90.00	6,373.99	-156.02	1,149.79	921.83	227.97	5.044		
12,200.00	6,083.00	12,124.01	6,083.00	116.74	115.52	-90.00	6,473.99	-155.68	1,149.79	918.34	231.45	4.968		
12,300.00	6,083.00	12,224.01	6,083.00	118.47	117.27	-90.00	6,573.99	-155.34	1,149.79	914.86	234.93	4.894		
12,400.00	6,083.00	12,324.01	6,083.00	120.19	119.01	-90.00	6,673.99	-155.00	1,149.79	911.37	238.41	4.823		
12,500.00	6,083.00	12,424.01	6,083.00	121.93	120.75	-90.00	6,773.99	-154.66	1,149.78	907.89	241.90	4.753		
12,600.00	6,083.00	12,524.01	6,083.00	123.66	122.50	-90.00	6,873.99	-154.32	1,149.78	904.40	245.39	4.686		
12,700.00	6,083.00	12,624.01	6,083.00	125.39	124.24	-90.00	6,973.99	-153.98	1,149.78	900.90	248.88	4.620		
12,800.00	6,083.00	12,724.01	6,083.00	127.12	125.99	-90.00	7,073.99	-153.64	1,149.78	897.41	252.37	4.556		
12,900.00	6,083.00	12,824.01	6,083.00	128.86	127.74	-90.00	7,173.99	-153.30	1,149.78	893.92	255.86	4.494		
13,000.00	6,083.00	12,924.01	6,083.00	130.60	129.49	-90.00	7,273.99	-152.96	1,149.77	890.42	259.35	4.433		
13,100.00	6,083.00	13,024.01	6,083.00	132.33	131.23	-90.00	7,373.99	-152.62	1,149.77	886.92	262.85	4.374		
13,200.00	6,083.00	13,124.01	6,083.00	134.07	132.98	-90.00	7,473.99	-152.28	1,149.77	883.42	266.35	4.317		
13,300.00	6,083.00	13,224.01	6,083.00	135.81	134.73	-90.00	7,573.99	-151.94	1,149.77	879.92	269.85	4.261		
13,400.00	6,083.00	13,324.01	6,083.00	137.55	136.48	-90.00	7,673.98	-151.60	1,149.76	876.42	273.34	4.206		
13,500.00	6,083.00	13,424.01	6,083.00	139.29	138.24	-90.00	7,773.98	-151.26	1,149.76	872.92	276.85	4.153		
13,600.00	6,083.00	13,524.01	6,083.00	141.03	139.99	-90.00	7,873.98	-150.92	1,149.76	869.41	280.35	4.101		
13,700.00	6,083.00	13,624.01	6,083.00	142.78	141.74	-90.00	7,973.98	-150.58	1,149.76	865.91	283.85	4.051		
13,800.00	6,083.00	13,724.01	6,083.00	144.52	143.49	-90.00	8,073.98	-150.24	1,149.76	862.40	287.36	4.001		
13,900.00	6,083.00	13,824.01	6,083.00	146.26	145.25	-90.00	8,173.98	-149.90	1,149.75	858.89	290.86	3.953		
14,000.00	6,083.00	13,924.01	6,083.00	148.01	147.00	-90.00	8,273.98	-149.56	1,149.75	855.38	294.37	3.906		
14,100.00	6,083.00	14,024.01	6,083.00	149.75	148.75	-90.00	8,373.98	-149.22	1,149.75	851.88	297.87	3.860		
14,200.00	6,083.00	14,124.01	6,083.00	151.50	150.51	-90.00	8,473.98	-148.88	1,149.75	848.37	301.38	3.815		
14,300.00	6,083.00	14,224.01	6,083.00	153.25	152.26	-90.00	8,573.98	-148.54	1,149.75	844.85	304.89	3.771		
14,400.00	6,083.00	14,324.01	6,083.00	154.99	154.02	-90.00	8,673.98	-148.20	1,149.74	841.34	308.40	3.728		
14,500.00	6,083.00	14,424.01	6,083.00	156.74	155.78	-90.00	8,773.98	-147.86	1,149.74	837.83	311.91	3.686		
14,600.00	6,083.00	14,524.01	6,083.00	158.49	157.53	-90.00	8,873.98	-147.52	1,149.74	834.31	315.42	3.645		
14,700.00	6,083.00	14,624.01	6,083.00	160.24	159.29	-90.00	8,973.98	-147.19	1,149.74	830.80	318.94	3.605		
14,800.00	6,083.00	14,724.01	6,083.00	161.99	161.05	-90.00	9,073.98	-146.85	1,149.74	827.28	322.45	3.566		
14,900.00	6,083.00	14,824.01	6,083.00	163.74	162.80	-90.00	9,173.98	-146.51	1,149.73	823.77	325.96	3.527		
15,000.00	6,083.00	14,924.01	6,083.00	165.49	164.56	-90.00	9,273.98	-146.17	1,149.73	820.25	329.48	3.490		
15,100.00	6,083.00	15,024.01	6,083.00	167.24	166.32	-90.00	9,373.97	-145.83	1,149.73	816.73	332.99	3.453		
15,200.00	6,083.00	15,124.01	6,083.00	168.99	168.08	-90.00	9,473.97	-145.49	1,149.73	813.22	336.51	3.417		
15,300.00	6,083.00	15,224.01	6,083.00	170.74	169.84	-90.00	9,573.97	-145.15	1,149.72	809.70	340.03	3.381		
15,400.00	6,083.00	15,324.01	6,083.00	172.50	171.60	-90.00	9,673.97	-144.81	1,149.72	806.18	343.55	3.347		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,500.00	6,083.00	15,424.01	6,083.00	174.25	173.36	-90.00	9,773.97	-144.47	1,149.72	802.66	347.06	3.313	
15,600.00	6,083.00	15,524.01	6,083.00	176.00	175.12	-90.00	9,873.97	-144.13	1,149.72	799.14	350.58	3.279	
15,700.00	6,083.00	15,624.01	6,083.00	177.76	176.88	-90.00	9,973.97	-143.79	1,149.72	795.62	354.10	3.247	
15,800.00	6,083.00	15,724.01	6,083.00	179.51	178.64	-90.00	10,073.97	-143.45	1,149.71	792.09	357.62	3.215	
15,900.00	6,083.00	15,824.01	6,083.00	181.27	180.40	-90.00	10,173.97	-143.11	1,149.71	788.57	361.14	3.184	
16,000.00	6,083.00	15,924.01	6,083.00	183.02	182.16	-90.00	10,273.97	-142.77	1,149.71	785.05	364.66	3.153	
16,086.73	6,083.00	16,010.74	6,083.00	184.54	183.69	-90.00	10,360.70	-142.47	1,149.71	781.99	367.72	3.127	
16,100.00	6,083.00	16,013.13	6,083.00	184.78	183.73	-90.00	10,363.09	-142.46	1,149.76	781.89	367.87	3.125 SF	
16,101.43	6,083.00	16,013.13	6,083.00	184.81	183.73	-90.00	10,363.09	-142.46	1,149.77	781.90	367.87	3.125	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - PRONGHORN K-5 FED 32N-20-06 - 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	14.93	0.00	14.93					
100.00	100.00	100.00	100.00	0.27	0.27	0.00	14.93	0.00	14.93	14.39	0.54	27.764		
200.00	199.98	199.98	199.98	0.62	0.63	-84.38	14.93	0.00	14.66	13.41	1.25	11.720		
220.56	220.52	220.49	220.49	0.70	0.70	-87.19	14.96	0.07	14.62	13.22	1.40	10.462 CC		
300.00	299.84	299.80	299.78	0.99	0.98	-97.97	15.70	1.56	15.15	13.19	1.97	7.710 ES		
400.00	399.45	399.73	399.57	1.36	1.34	-109.43	18.01	6.24	17.25	14.56	2.70	6.401		
500.00	498.70	499.61	499.16	1.76	1.71	-120.22	21.37	13.05	20.97	17.52	3.44	6.088		
600.00	597.47	599.24	598.50	2.18	2.08	-133.16	24.75	19.90	27.42	23.23	4.19	6.539		
700.00	695.99	698.75	697.72	2.62	2.45	-142.49	28.12	26.74	35.91	30.98	4.93	7.283		
800.00	794.52	798.26	796.93	3.06	2.82	-148.17	31.50	33.58	44.98	39.31	5.66	7.940		
900.00	893.05	897.77	896.15	3.51	3.20	-151.92	34.87	40.42	54.33	47.93	6.40	8.491		
1,000.00	991.57	997.28	995.36	3.97	3.57	-154.57	38.25	47.27	63.85	56.72	7.13	8.950		
1,100.00	1,090.10	1,096.79	1,094.58	4.42	3.95	-156.52	41.63	54.11	73.47	65.60	7.87	9.336		
1,200.00	1,188.62	1,196.30	1,193.80	4.88	4.33	-158.02	45.00	60.95	83.16	74.55	8.61	9.662		
1,300.00	1,287.15	1,295.81	1,293.01	5.34	4.70	-159.21	48.38	67.79	92.89	83.54	9.34	9.940		
1,400.00	1,385.68	1,395.32	1,392.23	5.79	5.08	-160.17	51.75	74.64	102.65	92.57	10.08	10.181		
1,500.00	1,484.20	1,494.83	1,491.45	6.25	5.46	-160.96	55.13	81.48	112.43	101.61	10.82	10.390		
1,600.00	1,582.73	1,594.33	1,590.66	6.71	5.83	-161.63	58.51	88.32	122.24	110.68	11.56	10.574		
1,700.00	1,681.26	1,693.84	1,689.88	7.17	6.21	-162.20	61.88	95.16	132.06	119.76	12.30	10.737		
1,800.00	1,779.78	1,793.35	1,789.09	7.63	6.59	-162.69	65.26	102.01	141.88	128.85	13.04	10.882		
1,900.00	1,878.31	1,892.86	1,888.31	8.09	6.96	-163.11	68.63	108.85	151.72	137.94	13.78	11.011		
2,000.00	1,976.83	1,992.37	1,987.53	8.55	7.34	-163.49	72.01	115.69	161.57	147.05	14.52	11.128		
2,100.00	2,075.36	2,091.88	2,086.74	9.01	7.72	-163.82	75.39	122.53	171.42	156.16	15.26	11.234		
2,200.00	2,173.89	2,191.39	2,185.96	9.47	8.09	-164.11	78.76	129.38	181.27	165.27	16.00	11.331		
2,300.00	2,272.41	2,290.90	2,285.17	9.93	8.47	-164.38	82.14	136.22	191.13	174.39	16.74	11.419		
2,400.00	2,370.94	2,390.41	2,384.39	10.40	8.85	-164.62	85.51	143.06	201.00	183.52	17.48	11.499		
2,500.00	2,469.47	2,489.92	2,483.61	10.86	9.23	-164.83	88.89	149.90	210.86	192.64	18.22	11.573		
2,600.00	2,567.99	2,589.42	2,582.82	11.32	9.60	-165.03	92.27	156.75	220.73	201.77	18.96	11.642		
2,700.00	2,666.52	2,688.93	2,682.04	11.78	9.98	-165.21	95.64	163.59	230.60	210.90	19.70	11.705		
2,800.00	2,765.05	2,788.44	2,781.25	12.24	10.36	-165.38	99.02	170.43	240.48	220.04	20.44	11.764		
2,900.00	2,863.57	2,887.95	2,880.47	12.70	10.74	-165.53	102.39	177.27	250.35	229.17	21.18	11.819		
3,000.00	2,962.10	2,987.46	2,979.69	13.16	11.11	-165.67	105.77	184.12	260.23	238.31	21.92	11.870		
3,100.00	3,060.62	3,086.97	3,078.90	13.63	11.49	-165.80	109.15	190.96	270.11	247.45	22.66	11.918		
3,200.00	3,159.15	3,186.48	3,178.12	14.09	11.87	-165.92	112.52	197.80	279.99	256.59	23.40	11.963		
3,300.00	3,257.68	3,285.99	3,277.33	14.55	12.25	-166.03	115.90	204.64	289.87	265.73	24.15	12.005		
3,400.00	3,356.20	3,385.50	3,376.55	15.01	12.62	-166.14	119.27	211.49	299.75	274.87	24.89	12.045		
3,500.00	3,454.73	3,485.01	3,475.77	15.47	13.00	-166.24	122.65	218.33	309.64	284.01	25.63	12.082		
3,600.00	3,553.26	3,584.52	3,574.98	15.93	13.38	-166.33	126.03	225.17	319.52	293.15	26.37	12.117		
3,700.00	3,651.78	3,684.02	3,674.20	16.40	13.75	-166.42	129.40	232.01	329.41	302.30	27.11	12.151		
3,800.00	3,750.31	3,783.53	3,773.42	16.86	14.13	-166.50	132.78	238.86	339.29	311.44	27.85	12.182		
3,900.00	3,848.83	3,883.04	3,872.63	17.32	14.51	-166.58	136.15	245.70	349.18	320.59	28.59	12.212		
4,000.00	3,947.36	3,982.55	3,971.85	17.78	14.89	-166.65	139.53	252.54	359.07	329.73	29.33	12.241		
4,100.00	4,045.89	4,082.06	4,071.06	18.24	15.26	-166.72	142.91	259.38	368.95	338.88	30.07	12.268		
4,200.00	4,144.41	4,181.57	4,170.28	18.70	15.64	-166.78	146.28	266.23	378.84	348.02	30.82	12.294		
4,300.00	4,242.94	4,281.08	4,269.50	19.17	16.02	-166.85	149.66	273.07	388.73	357.17	31.56	12.318		
4,400.00	4,341.47	4,380.59	4,368.71	19.63	16.40	-166.91	153.03	279.91	398.62	366.32	32.30	12.342		
4,500.00	4,439.99	4,480.10	4,467.93	20.09	16.77	-166.96	156.41	286.75	408.51	375.47	33.04	12.364		
4,600.00	4,538.52	4,579.61	4,567.14	20.55	17.15	-167.02	159.79	293.60	418.40	384.62	33.78	12.385		
4,700.00	4,637.04	4,679.11	4,666.36	21.01	17.53	-167.07	163.16	300.44	428.29	393.76	34.52	12.406		
4,800.00	4,735.57	4,778.62	4,765.58	21.48	17.91	-167.12	166.54	307.28	438.18	402.91	35.26	12.426		
4,900.00	4,834.10	4,878.13	4,864.79	21.94	18.28	-167.16	169.91	314.12	448.07	412.06	36.01	12.444		
5,000.00	4,932.62	4,977.64	4,964.01	22.40	18.66	-167.21	173.29	320.97	457.96	421.21	36.75	12.462		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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	5,031.15	5,077.15	5,063.22	22.86	19.04	-167.25	176.67	327.81	467.85	430.36	37.49	12.480		
5,200.00	5,129.68	5,176.66	5,162.44	23.32	19.42	-167.29	180.04	334.65	477.74	439.51	38.23	12.497		
5,300.00	5,228.20	5,276.17	5,261.66	23.79	19.80	-167.33	183.42	341.49	487.63	448.66	38.97	12.513		
5,400.00	5,326.73	5,375.68	5,360.87	24.25	20.17	-167.37	186.79	348.34	497.52	457.81	39.71	12.528		
5,500.00	5,425.25	5,475.19	5,460.09	24.71	20.55	-167.40	190.17	355.18	507.42	466.96	40.45	12.543		
5,600.00	5,523.78	5,574.66	5,559.23	25.17	20.93	-167.36	194.25	362.02	517.31	476.11	41.20	12.556		
5,700.00	5,621.78	5,673.18	5,655.98	25.64	21.32	-130.81	210.85	368.74	527.21	485.21	42.00	12.552		
5,800.00	5,716.63	5,770.57	5,747.45	26.12	21.73	-112.18	243.33	375.14	536.87	494.02	42.85	12.528		
5,900.00	5,805.45	5,866.98	5,831.31	26.60	22.14	-103.34	290.31	381.07	545.99	502.22	43.76	12.476		
6,000.00	5,885.54	5,962.58	5,905.53	27.08	22.59	-98.19	350.14	386.39	554.25	509.50	44.75	12.386		
6,100.00	5,954.47	6,057.50	5,968.41	27.57	23.08	-94.83	420.96	390.95	561.40	515.57	45.82	12.251		
6,200.00	6,010.13	6,151.89	6,018.52	28.08	23.64	-92.57	500.73	394.67	567.19	520.18	47.00	12.067		
6,300.00	6,050.85	6,245.88	6,054.78	28.62	24.28	-91.10	587.29	397.46	571.44	523.13	48.30	11.830		
6,400.00	6,075.38	6,339.60	6,076.42	29.22	25.00	-90.26	678.36	399.26	574.01	524.29	49.72	11.545		
6,500.00	6,083.00	6,433.64	6,083.00	29.87	25.78	-90.00	772.06	400.03	574.82	523.57	51.25	11.216		
6,600.00	6,083.00	6,533.64	6,083.00	30.60	26.69	-90.00	872.05	400.37	574.82	521.74	53.08	10.829		
6,700.00	6,083.00	6,633.64	6,083.00	31.42	27.68	-90.00	972.05	400.70	574.82	519.74	55.07	10.437		
6,800.00	6,083.00	6,733.64	6,083.00	32.32	28.74	-90.00	1,072.05	401.04	574.82	517.60	57.22	10.046		
6,900.00	6,083.00	6,833.64	6,083.00	33.30	29.88	-90.00	1,172.05	401.38	574.82	515.32	59.50	9.661		
7,000.00	6,083.00	6,933.64	6,083.00	34.35	31.07	-90.00	1,272.05	401.72	574.82	512.92	61.89	9.287		
7,100.00	6,083.00	7,033.64	6,083.00	35.45	32.32	-90.00	1,372.05	402.05	574.82	510.42	64.40	8.926		
7,200.00	6,083.00	7,133.64	6,083.00	36.62	33.61	-90.00	1,472.05	402.39	574.82	507.82	67.00	8.580		
7,300.00	6,083.00	7,233.64	6,083.00	37.83	34.95	-90.00	1,572.05	402.73	574.82	505.14	69.68	8.249		
7,400.00	6,083.00	7,333.64	6,083.00	39.09	36.32	-90.00	1,672.05	403.07	574.82	502.38	72.44	7.935		
7,500.00	6,083.00	7,433.64	6,083.00	40.39	37.73	-90.00	1,772.05	403.40	574.82	499.56	75.26	7.638		
7,600.00	6,083.00	7,533.64	6,083.00	41.73	39.16	-90.00	1,872.05	403.74	574.82	496.68	78.14	7.356		
7,700.00	6,083.00	7,633.64	6,083.00	43.10	40.63	-90.00	1,972.05	404.08	574.82	493.74	81.08	7.090		
7,800.00	6,083.00	7,733.64	6,083.00	44.50	42.11	-90.00	2,072.05	404.42	574.82	490.76	84.06	6.838		
7,900.00	6,083.00	7,833.64	6,083.00	45.93	43.62	-90.00	2,172.05	404.75	574.82	487.74	87.09	6.601		
8,000.00	6,083.00	7,933.64	6,083.00	47.38	45.15	-90.00	2,272.05	405.09	574.82	484.67	90.15	6.376		
8,100.00	6,083.00	8,033.64	6,083.00	48.85	46.69	-90.00	2,372.05	405.43	574.82	481.58	93.25	6.165		
8,200.00	6,083.00	8,133.64	6,083.00	50.34	48.26	-90.00	2,472.05	405.77	574.82	478.45	96.38	5.964		
8,300.00	6,083.00	8,233.64	6,083.00	51.85	49.83	-90.00	2,572.04	406.10	574.82	475.29	99.53	5.775		
8,400.00	6,083.00	8,333.64	6,083.00	53.38	51.42	-90.00	2,672.04	406.44	574.82	472.11	102.71	5.596		
8,500.00	6,083.00	8,433.64	6,083.00	54.92	53.02	-90.00	2,772.04	406.78	574.82	468.91	105.92	5.427		
8,600.00	6,083.00	8,533.64	6,083.00	56.48	54.63	-90.00	2,872.04	407.12	574.82	465.68	109.15	5.267		
8,700.00	6,083.00	8,633.64	6,083.00	58.04	56.25	-90.00	2,972.04	407.45	574.82	462.43	112.39	5.114		
8,800.00	6,083.00	8,733.64	6,083.00	59.63	57.88	-90.00	3,072.04	407.79	574.83	459.17	115.66	4.970		
8,900.00	6,083.00	8,833.64	6,083.00	61.22	59.52	-90.00	3,172.04	408.13	574.83	455.89	118.94	4.833		
9,000.00	6,083.00	8,933.64	6,083.00	62.82	61.16	-90.00	3,272.04	408.47	574.83	452.60	122.23	4.703		
9,100.00	6,083.00	9,033.64	6,083.00	64.43	62.81	-90.00	3,372.04	408.80	574.83	449.29	125.54	4.579		
9,200.00	6,083.00	9,133.64	6,083.00	66.05	64.47	-90.00	3,472.04	409.14	574.83	445.97	128.86	4.461		
9,300.00	6,083.00	9,233.64	6,083.00	67.67	66.14	-90.00	3,572.04	409.48	574.83	442.63	132.19	4.348		
9,400.00	6,083.00	9,333.64	6,083.00	69.31	67.81	-90.00	3,672.04	409.82	574.83	439.29	135.54	4.241		
9,500.00	6,083.00	9,433.64	6,083.00	70.95	69.48	-90.00	3,772.04	410.15	574.83	435.94	138.89	4.139		
9,600.00	6,083.00	9,533.64	6,083.00	72.60	71.16	-90.00	3,872.04	410.49	574.83	432.57	142.25	4.041		
9,700.00	6,083.00	9,633.64	6,083.00	74.25	72.85	-90.00	3,972.04	410.83	574.83	429.20	145.63	3.947		
9,800.00	6,083.00	9,733.64	6,083.00	75.91	74.54	-90.00	4,072.04	411.17	574.83	425.82	149.01	3.858		
9,900.00	6,083.00	9,833.64	6,083.00	77.57	76.23	-90.00	4,172.04	411.50	574.83	422.43	152.40	3.772		
10,000.00	6,083.00	9,933.64	6,083.00	79.24	77.92	-90.00	4,272.04	411.84	574.83	419.04	155.79	3.690		
10,100.00	6,083.00	10,033.64	6,083.00	80.91	79.62	-90.00	4,372.03	412.18	574.83	415.64	159.19	3.611		
10,200.00	6,083.00	10,133.64	6,083.00	82.59	81.33	-90.00	4,472.03	412.51	574.83	412.23	162.60	3.535		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - PRONGHORN K-5 FED 32N-20-06 - 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	10,233.64	6,083.00	84.27	83.03	-90.00	4,572.03	412.85	574.83	408.82	166.01	3.463		
10,400.00	6,083.00	10,333.64	6,083.00	85.95	84.74	-90.00	4,672.03	413.19	574.83	405.40	169.43	3.393		
10,500.00	6,083.00	10,433.64	6,083.00	87.64	86.45	-90.00	4,772.03	413.53	574.83	401.97	172.86	3.325		
10,600.00	6,083.00	10,533.64	6,083.00	89.34	88.17	-90.00	4,872.03	413.86	574.83	398.54	176.29	3.261		
10,700.00	6,083.00	10,633.64	6,083.00	91.03	89.88	-90.00	4,972.03	414.20	574.83	395.11	179.72	3.198		
10,800.00	6,083.00	10,733.64	6,083.00	92.73	91.60	-90.00	5,072.03	414.54	574.83	391.67	183.16	3.138		
10,900.00	6,083.00	10,833.64	6,083.00	94.43	93.32	-90.00	5,172.03	414.88	574.83	388.23	186.60	3.081		
11,000.00	6,083.00	10,933.64	6,083.00	96.13	95.04	-90.00	5,272.03	415.21	574.83	384.79	190.05	3.025		
11,100.00	6,083.00	11,033.64	6,083.00	97.84	96.77	-90.00	5,372.03	415.55	574.83	381.34	193.50	2.971		
11,200.00	6,083.00	11,133.64	6,083.00	99.55	98.49	-90.00	5,472.03	415.89	574.83	377.88	196.95	2.919		
11,300.00	6,083.00	11,233.64	6,083.00	101.26	100.22	-90.00	5,572.03	416.23	574.84	374.43	200.41	2.868		
11,400.00	6,083.00	11,333.64	6,083.00	102.97	101.95	-90.00	5,672.03	416.56	574.84	370.97	203.87	2.820		
11,500.00	6,083.00	11,433.64	6,083.00	104.68	103.68	-90.00	5,772.03	416.90	574.84	367.50	207.33	2.773		
11,600.00	6,083.00	11,533.64	6,083.00	106.40	105.41	-90.00	5,872.03	417.24	574.84	364.04	210.80	2.727		
11,700.00	6,083.00	11,633.64	6,083.00	108.12	107.14	-90.00	5,972.03	417.58	574.84	360.57	214.27	2.683		
11,800.00	6,083.00	11,733.64	6,083.00	109.84	108.88	-90.00	6,072.03	417.91	574.84	357.10	217.74	2.640		
11,900.00	6,083.00	11,833.64	6,083.00	111.56	110.61	-90.00	6,172.02	418.25	574.84	353.63	221.21	2.599		
12,000.00	6,083.00	11,933.64	6,083.00	113.29	112.35	-90.00	6,272.02	418.59	574.84	350.15	224.69	2.558		
12,100.00	6,083.00	12,033.64	6,083.00	115.01	114.09	-90.00	6,372.02	418.93	574.84	346.67	228.16	2.519		
12,200.00	6,083.00	12,133.64	6,083.00	116.74	115.83	-90.00	6,472.02	419.26	574.84	343.20	231.64	2.482		
12,300.00	6,083.00	12,233.64	6,083.00	118.47	117.57	-90.00	6,572.02	419.60	574.84	339.71	235.13	2.445		
12,400.00	6,083.00	12,333.64	6,083.00	120.19	119.31	-90.00	6,672.02	419.94	574.84	336.23	238.61	2.409		
12,500.00	6,083.00	12,433.64	6,083.00	121.93	121.05	-90.00	6,772.02	420.28	574.84	332.74	242.10	2.374		
12,600.00	6,083.00	12,533.64	6,083.00	123.66	122.80	-90.00	6,872.02	420.61	574.84	329.26	245.58	2.341		
12,700.00	6,083.00	12,633.64	6,083.00	125.39	124.54	-90.00	6,972.02	420.95	574.84	325.77	249.07	2.308		
12,800.00	6,083.00	12,733.64	6,083.00	127.12	126.29	-90.00	7,072.02	421.29	574.84	322.28	252.56	2.276		
12,900.00	6,083.00	12,833.64	6,083.00	128.86	128.03	-90.00	7,172.02	421.63	574.84	318.79	256.06	2.245		
13,000.00	6,083.00	12,933.64	6,083.00	130.60	129.78	-90.00	7,272.02	421.96	574.84	315.29	259.55	2.215		
13,100.00	6,083.00	13,033.64	6,083.00	132.33	131.53	-90.00	7,372.02	422.30	574.84	311.80	263.05	2.185		
13,200.00	6,083.00	13,133.64	6,083.00	134.07	133.27	-90.00	7,472.02	422.64	574.84	308.30	266.54	2.157		
13,300.00	6,083.00	13,233.64	6,083.00	135.81	135.02	-90.00	7,572.02	422.98	574.84	304.80	270.04	2.129		
13,400.00	6,083.00	13,333.64	6,083.00	137.55	136.77	-90.00	7,672.02	423.31	574.84	301.30	273.54	2.101		
13,500.00	6,083.00	13,433.64	6,083.00	139.29	138.52	-90.00	7,772.02	423.65	574.84	297.80	277.04	2.075		
13,600.00	6,083.00	13,533.64	6,083.00	141.03	140.27	-90.00	7,872.01	423.99	574.84	294.30	280.54	2.049		
13,700.00	6,083.00	13,633.64	6,083.00	142.78	142.02	-90.00	7,972.01	424.33	574.85	290.80	284.05	2.024		
13,800.00	6,083.00	13,733.64	6,083.00	144.52	143.77	-90.00	8,072.01	424.66	574.85	287.30	287.55	1.999		
13,900.00	6,083.00	13,833.64	6,083.00	146.26	145.53	-90.00	8,172.01	425.00	574.85	283.79	291.05	1.975		
14,000.00	6,083.00	13,933.64	6,083.00	148.01	147.28	-90.00	8,272.01	425.34	574.85	280.29	294.56	1.952		
14,100.00	6,083.00	14,033.64	6,083.00	149.75	149.03	-90.00	8,372.01	425.68	574.85	276.78	298.07	1.929		
14,200.00	6,083.00	14,133.64	6,083.00	151.50	150.79	-90.00	8,472.01	426.01	574.85	273.27	301.58	1.906		
14,300.00	6,083.00	14,233.64	6,083.00	153.25	152.54	-90.00	8,572.01	426.35	574.85	269.76	305.08	1.884		
14,400.00	6,083.00	14,333.64	6,083.00	154.99	154.29	-90.00	8,672.01	426.69	574.85	266.25	308.59	1.863		
14,500.00	6,083.00	14,433.64	6,083.00	156.74	156.05	-90.00	8,772.01	427.02	574.85	262.74	312.11	1.842		
14,600.00	6,083.00	14,533.64	6,083.00	158.49	157.80	-90.00	8,872.01	427.36	574.85	259.23	315.62	1.821		
14,700.00	6,083.00	14,633.64	6,083.00	160.24	159.56	-90.00	8,972.01	427.70	574.85	255.72	319.13	1.801		
14,800.00	6,083.00	14,733.64	6,083.00	161.99	161.32	-90.00	9,072.01	428.04	574.85	252.21	322.64	1.782		
14,900.00	6,083.00	14,833.64	6,083.00	163.74	163.07	-90.00	9,172.01	428.37	574.85	248.69	326.16	1.762		
15,000.00	6,083.00	14,933.64	6,083.00	165.49	164.83	-90.00	9,272.01	428.71	574.85	245.18	329.67	1.744		
15,100.00	6,083.00	15,033.64	6,083.00	167.24	166.59	-90.00	9,372.01	429.05	574.85	241.66	333.19	1.725		
15,200.00	6,083.00	15,133.64	6,083.00	168.99	168.35	-90.00	9,472.01	429.39	574.85	238.15	336.70	1.707		
15,300.00	6,083.00	15,233.64	6,083.00	170.74	170.10	-90.00	9,572.01	429.72	574.85	234.63	340.22	1.690		
15,400.00	6,083.00	15,333.64	6,083.00	172.50	171.86	-90.00	9,672.00	430.06	574.85	231.12	343.74	1.672		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - PRONGHORN K-5 FED 32N-20-06 - 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	
15,500.00	6,083.00	15,433.64	6,083.00	174.25	173.62	-90.00	9,772.00	430.40	574.85	227.60	347.25	1.655	
15,600.00	6,083.00	15,533.64	6,083.00	176.00	175.38	-90.00	9,872.00	430.74	574.85	224.08	350.77	1.639	
15,700.00	6,083.00	15,633.64	6,083.00	177.76	177.14	-90.00	9,972.00	431.07	574.85	220.56	354.29	1.623	
15,800.00	6,083.00	15,733.64	6,083.00	179.51	178.90	-90.00	10,072.00	431.41	574.85	217.04	357.81	1.607	
15,900.00	6,083.00	15,833.64	6,083.00	181.27	180.66	-90.00	10,172.00	431.75	574.85	213.52	361.33	1.591	
16,000.00	6,083.00	15,933.64	6,083.00	183.02	182.42	-90.00	10,272.00	432.09	574.85	210.00	364.85	1.576	
16,009.19	6,083.00	15,942.83	6,083.00	183.18	182.58	-90.00	10,281.19	432.12	574.85	209.68	365.18	1.574	
16,100.00	6,083.00	16,028.23	6,083.00	184.78	184.08	-90.00	10,366.59	432.41	574.88	206.80	368.08	1.562 SF	
16,101.43	6,083.00	16,028.23	6,083.00	184.81	184.08	-90.00	10,366.59	432.41	574.90	206.85	368.05	1.562	

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
0.00	0.00	0.00	0.00	0.00	0.00	-180.00	-14.94	0.00	14.94					
100.00	100.00	100.00	100.00	0.27	0.27	-180.00	-14.94	0.00	14.94	14.40	0.54	27.779 CC		
200.00	199.98	200.08	200.06	0.62	0.62	102.22	-14.68	1.73	15.05	13.81	1.25	12.078		
300.00	299.84	300.15	299.99	0.99	0.99	101.96	-13.92	6.91	15.41	13.44	1.97	7.828		
400.00	399.45	400.22	399.67	1.36	1.36	101.55	-12.64	15.55	15.99	13.27	2.72	5.881 ES		
500.00	498.70	500.29	498.99	1.76	1.76	101.03	-10.86	27.62	16.81	13.30	3.51	4.789		
600.00	597.47	600.36	597.82	2.18	2.18	100.40	-8.58	43.12	17.87	13.51	4.35	4.103		
700.00	695.99	700.37	695.99	2.62	2.63	93.78	-5.79	62.01	18.92	13.67	5.25	3.604		
800.00	794.52	800.12	793.17	3.06	3.13	78.39	-2.52	84.21	20.84	14.70	6.14	3.395		
900.00	893.05	899.45	889.13	3.51	3.66	59.62	1.22	109.59	25.74	18.85	6.90	3.733		
1,000.00	991.57	998.93	984.93	3.97	4.21	46.26	5.14	136.12	33.32	25.74	7.58	4.395		
1,100.00	1,090.10	1,098.41	1,080.73	4.42	4.78	38.10	9.05	162.64	42.02	33.74	8.28	5.075		
1,200.00	1,188.62	1,197.89	1,176.52	4.88	5.35	32.81	12.96	189.17	51.27	42.27	9.00	5.697		
1,300.00	1,287.15	1,297.37	1,272.32	5.34	5.93	29.15	16.87	215.69	60.82	51.09	9.74	6.248		
1,400.00	1,385.68	1,396.85	1,368.12	5.79	6.51	26.49	20.78	242.22	70.55	60.07	10.48	6.730		
1,500.00	1,484.20	1,496.33	1,463.92	6.25	7.09	24.48	24.69	268.75	80.40	69.16	11.24	7.154		
1,600.00	1,582.73	1,595.81	1,559.71	6.71	7.68	22.91	28.61	295.27	90.32	78.32	12.00	7.527		
1,700.00	1,681.26	1,695.29	1,655.51	7.17	8.27	21.65	32.52	321.80	100.29	87.53	12.76	7.857		
1,800.00	1,779.78	1,794.77	1,751.31	7.63	8.85	20.62	36.43	348.33	110.31	96.78	13.53	8.151		
1,900.00	1,878.31	1,894.25	1,847.11	8.09	9.44	19.76	40.34	374.85	120.35	106.05	14.30	8.414		
2,000.00	1,976.83	1,993.73	1,942.91	8.55	10.03	19.03	44.25	401.38	130.42	115.34	15.08	8.651		
2,100.00	2,075.36	2,093.20	2,038.70	9.01	10.62	18.41	48.16	427.91	140.51	124.65	15.85	8.864		
2,200.00	2,173.89	2,192.68	2,134.50	9.47	11.21	17.87	52.08	454.43	150.60	133.98	16.63	9.058		
2,300.00	2,272.41	2,292.16	2,230.30	9.93	11.80	17.40	55.99	480.96	160.71	143.31	17.40	9.235		
2,400.00	2,370.94	2,391.64	2,326.10	10.40	12.40	16.98	59.90	507.49	170.83	152.65	18.18	9.397		
2,500.00	2,469.47	2,491.12	2,421.89	10.86	12.99	16.61	63.81	534.01	180.96	162.00	18.96	9.545		
2,600.00	2,567.99	2,590.60	2,517.69	11.32	13.58	16.28	67.72	560.54	191.10	171.36	19.74	9.682		
2,700.00	2,666.52	2,690.08	2,613.49	11.78	14.17	15.98	71.63	587.07	201.24	180.72	20.52	9.809		
2,800.00	2,765.05	2,789.56	2,709.29	12.24	14.77	15.72	75.55	613.59	211.38	190.09	21.30	9.926		
2,900.00	2,863.57	2,889.04	2,805.08	12.70	15.36	15.47	79.46	640.12	221.53	199.46	22.08	10.035		
3,000.00	2,962.10	2,988.52	2,900.88	13.16	15.95	15.25	83.37	666.65	231.68	208.83	22.86	10.137		
3,100.00	3,060.62	3,088.00	2,996.68	13.63	16.55	15.05	87.28	693.17	241.84	218.20	23.64	10.231		
3,200.00	3,159.15	3,187.48	3,092.48	14.09	17.14	14.86	91.19	719.70	252.00	227.58	24.42	10.320		
3,300.00	3,257.68	3,286.96	3,188.28	14.55	17.73	14.69	95.11	746.23	262.16	236.96	25.20	10.403		
3,400.00	3,356.20	3,386.44	3,284.07	15.01	18.33	14.53	99.02	772.75	272.32	246.34	25.98	10.482		
3,500.00	3,454.73	3,485.92	3,379.87	15.47	18.92	14.38	102.93	799.28	282.49	255.73	26.76	10.555		
3,600.00	3,553.26	3,585.40	3,475.67	15.93	19.52	14.24	106.84	825.80	292.66	265.11	27.54	10.625		
3,700.00	3,651.78	3,684.88	3,571.47	16.40	20.11	14.11	110.75	852.33	302.82	274.50	28.33	10.690		
3,800.00	3,750.31	3,784.35	3,667.26	16.86	20.70	13.99	114.66	878.86	312.99	283.89	29.11	10.752		
3,900.00	3,848.83	3,883.83	3,763.06	17.32	21.30	13.88	118.58	905.38	323.17	293.27	29.89	10.811		
4,000.00	3,947.36	3,983.31	3,858.86	17.78	21.89	13.77	122.49	931.91	333.34	302.66	30.67	10.867		
4,100.00	4,045.89	4,082.79	3,954.66	18.24	22.49	13.67	126.40	958.44	343.51	312.05	31.46	10.920		
4,200.00	4,144.41	4,182.27	4,050.45	18.70	23.08	13.58	130.31	984.96	353.69	321.45	32.24	10.970		
4,300.00	4,242.94	4,281.75	4,146.25	19.17	23.68	13.49	134.22	1,011.49	363.86	330.84	33.02	11.018		
4,400.00	4,341.47	4,381.23	4,242.05	19.63	24.27	13.41	138.13	1,038.02	374.04	340.23	33.81	11.064		
4,500.00	4,439.99	4,480.71	4,337.85	20.09	24.87	13.33	142.05	1,064.54	384.21	349.63	34.59	11.108		
4,600.00	4,538.52	4,580.19	4,433.65	20.55	25.46	13.25	145.96	1,091.07	394.39	359.02	35.37	11.150		
4,700.00	4,637.04	4,679.67	4,529.44	21.01	26.06	13.18	149.87	1,117.60	404.57	368.42	36.16	11.190		
4,800.00	4,735.57	4,779.15	4,625.24	21.48	26.65	13.11	153.78	1,144.12	414.75	377.81	36.94	11.228		
4,900.00	4,834.10	4,878.63	4,721.04	21.94	27.25	13.05	157.69	1,170.65	424.93	387.21	37.72	11.265		
5,000.00	4,932.62	4,978.11	4,816.84	22.40	27.84	12.98	161.60	1,197.18	435.11	396.60	38.51	11.300		
5,100.00	5,031.15	5,077.59	4,912.63	22.86	28.44	12.93	165.52	1,223.70	445.29	406.00	39.29	11.334		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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													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		
5,200.00	5,129.68	5,177.07	5,008.43	23.32	29.03	12.87	169.43	1,250.23	455.47	415.40	40.07	11.366		
5,300.00	5,228.20	5,276.55	5,104.23	23.79	29.63	12.82	173.34	1,276.76	465.65	424.80	40.86	11.397		
5,400.00	5,326.73	5,376.03	5,200.03	24.25	30.22	12.76	177.25	1,303.28	475.83	434.19	41.64	11.427		
5,500.00	5,425.25	5,475.51	5,295.82	24.71	30.82	12.71	181.16	1,329.81	486.02	443.59	42.42	11.456		
5,600.00	5,523.78	5,574.98	5,391.62	25.17	31.41	12.67	185.07	1,356.33	496.20	452.99	43.21	11.484		
5,700.00	5,621.78	5,674.18	5,487.15	25.64	32.01	47.41	188.98	1,382.79	506.42	462.36	44.06	11.493		
5,800.00	5,716.63	5,772.63	5,581.91	26.12	32.60	65.74	193.63	1,409.03	517.17	472.01	45.16	11.452		
5,900.00	5,805.45	5,877.15	5,680.81	26.60	33.23	74.83	212.63	1,436.46	528.61	482.10	46.51	11.365		
6,000.00	5,885.54	5,987.47	5,779.72	27.08	33.88	80.32	252.51	1,463.98	540.15	492.16	47.99	11.254		
6,100.00	5,954.47	6,104.07	5,874.21	27.57	34.54	84.07	315.17	1,490.34	551.13	501.68	49.45	11.144		
6,200.00	6,010.13	6,227.08	5,958.46	28.08	35.19	86.73	401.31	1,513.95	560.81	510.07	50.74	11.053		
6,300.00	6,050.85	6,356.02	6,025.62	28.62	35.85	88.56	509.40	1,532.90	568.40	516.63	51.77	10.979		
6,400.00	6,075.38	6,489.58	6,068.86	29.22	36.51	89.65	634.84	1,545.29	573.23	520.61	52.62	10.895		
6,500.00	6,083.00	6,624.04	6,083.00	29.87	37.17	90.00	768.17	1,549.66	574.82	521.35	53.47	10.750		
6,600.00	6,083.00	6,724.04	6,083.00	30.60	37.69	90.00	868.17	1,549.99	574.82	519.58	55.23	10.407		
6,700.00	6,083.00	6,824.04	6,083.00	31.42	38.29	90.00	968.17	1,550.33	574.82	517.66	57.16	10.056		
6,800.00	6,083.00	6,924.04	6,083.00	32.32	38.95	90.00	1,068.17	1,550.67	574.82	515.58	59.24	9.704		
6,900.00	6,083.00	7,024.04	6,083.00	33.30	39.68	90.00	1,168.17	1,551.01	574.82	513.37	61.45	9.355		
7,000.00	6,083.00	7,124.04	6,083.00	34.35	40.48	90.00	1,268.17	1,551.35	574.82	511.04	63.78	9.013		
7,100.00	6,083.00	7,224.04	6,083.00	35.45	41.34	90.00	1,368.17	1,551.68	574.82	508.60	66.22	8.681		
7,200.00	6,083.00	7,324.04	6,083.00	36.62	42.26	90.00	1,468.17	1,552.02	574.82	506.07	68.75	8.361		
7,300.00	6,083.00	7,424.04	6,083.00	37.83	43.24	90.00	1,568.17	1,552.36	574.82	503.44	71.37	8.054		
7,400.00	6,083.00	7,524.04	6,083.00	39.09	44.28	90.00	1,668.17	1,552.70	574.82	500.75	74.07	7.760		
7,500.00	6,083.00	7,624.04	6,083.00	40.39	45.37	90.00	1,768.17	1,553.04	574.82	497.98	76.84	7.480		
7,600.00	6,083.00	7,724.04	6,083.00	41.73	46.51	90.00	1,868.16	1,553.38	574.82	495.15	79.67	7.215		
7,700.00	6,083.00	7,824.04	6,083.00	43.10	47.69	90.00	1,968.16	1,553.71	574.82	492.26	82.56	6.963		
7,800.00	6,083.00	7,924.04	6,083.00	44.50	48.91	90.00	2,068.16	1,554.05	574.82	489.33	85.49	6.724		
7,900.00	6,083.00	8,024.04	6,083.00	45.93	50.16	90.00	2,168.16	1,554.39	574.82	486.35	88.47	6.497		
8,000.00	6,083.00	8,124.04	6,083.00	47.38	51.46	90.00	2,268.16	1,554.73	574.82	483.33	91.49	6.283		
8,100.00	6,083.00	8,224.04	6,083.00	48.85	52.78	90.00	2,368.16	1,555.07	574.82	480.27	94.55	6.079		
8,200.00	6,083.00	8,324.04	6,083.00	50.34	54.13	90.00	2,468.16	1,555.41	574.82	477.18	97.64	5.887		
8,300.00	6,083.00	8,424.04	6,083.00	51.85	55.51	90.00	2,568.16	1,555.74	574.82	474.06	100.76	5.705		
8,400.00	6,083.00	8,524.04	6,083.00	53.38	56.92	90.00	2,668.16	1,556.08	574.82	470.91	103.91	5.532		
8,500.00	6,083.00	8,624.04	6,083.00	54.92	58.34	90.00	2,768.16	1,556.42	574.82	467.74	107.08	5.368		
8,600.00	6,083.00	8,724.04	6,083.00	56.48	59.79	90.00	2,868.16	1,556.76	574.82	464.54	110.28	5.212		
8,700.00	6,083.00	8,824.04	6,083.00	58.04	61.25	90.00	2,968.16	1,557.10	574.82	461.33	113.50	5.065		
8,800.00	6,083.00	8,924.04	6,083.00	59.63	62.74	90.00	3,068.16	1,557.43	574.83	458.09	116.73	4.924		
8,900.00	6,083.00	9,024.04	6,083.00	61.22	64.24	90.00	3,168.16	1,557.77	574.83	454.84	119.99	4.791		
9,000.00	6,083.00	9,124.04	6,083.00	62.82	65.75	90.00	3,268.16	1,558.11	574.83	451.57	123.26	4.664		
9,100.00	6,083.00	9,224.04	6,083.00	64.43	67.28	90.00	3,368.16	1,558.45	574.83	448.29	126.54	4.543		
9,200.00	6,083.00	9,324.04	6,083.00	66.05	68.82	90.00	3,468.16	1,558.79	574.83	444.99	129.84	4.427		
9,300.00	6,083.00	9,424.04	6,083.00	67.67	70.37	90.00	3,568.16	1,559.13	574.83	441.68	133.15	4.317		
9,400.00	6,083.00	9,524.04	6,083.00	69.31	71.93	90.00	3,668.15	1,559.46	574.83	438.35	136.47	4.212		
9,500.00	6,083.00	9,624.04	6,083.00	70.95	73.51	90.00	3,768.15	1,559.80	574.83	435.02	139.81	4.112		
9,600.00	6,083.00	9,724.04	6,083.00	72.60	75.09	90.00	3,868.15	1,560.14	574.83	431.68	143.15	4.015		
9,700.00	6,083.00	9,824.04	6,083.00	74.25	76.68	90.00	3,968.15	1,560.48	574.83	428.32	146.51	3.924		
9,800.00	6,083.00	9,924.04	6,083.00	75.91	78.28	90.00	4,068.15	1,560.82	574.83	424.96	149.87	3.836		
9,900.00	6,083.00	10,024.04	6,083.00	77.57	79.89	90.00	4,168.15	1,561.16	574.83	421.59	153.24	3.751		
10,000.00	6,083.00	10,124.04	6,083.00	79.24	81.51	90.00	4,268.15	1,561.49	574.83	418.21	156.62	3.670		
10,100.00	6,083.00	10,224.04	6,083.00	80.91	83.13	90.00	4,368.15	1,561.83	574.83	414.82	160.01	3.593		
10,200.00	6,083.00	10,324.04	6,083.00	82.59	84.76	90.00	4,468.15	1,562.17	574.83	411.43	163.40	3.518		
10,300.00	6,083.00	10,424.04	6,083.00	84.27	86.39	90.00	4,568.15	1,562.51	574.83	408.03	166.80	3.446		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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		
10,400.00	6,083.00	10,524.04	6,083.00	85.95	88.03	90.00	4,668.15	1,562.85	574.83	404.63	170.21	3.377		
10,500.00	6,083.00	10,624.04	6,083.00	87.64	89.68	90.00	4,768.15	1,563.18	574.83	401.22	173.62	3.311		
10,600.00	6,083.00	10,724.04	6,083.00	89.34	91.33	90.00	4,868.15	1,563.52	574.83	397.80	177.03	3.247		
10,700.00	6,083.00	10,824.04	6,083.00	91.03	92.99	90.00	4,968.15	1,563.86	574.83	394.38	180.46	3.185		
10,800.00	6,083.00	10,924.04	6,083.00	92.73	94.65	90.00	5,068.15	1,564.20	574.83	390.95	183.88	3.126		
10,900.00	6,083.00	11,024.04	6,083.00	94.43	96.31	90.00	5,168.15	1,564.54	574.83	387.52	187.31	3.069		
11,000.00	6,083.00	11,124.04	6,083.00	96.13	97.98	90.00	5,268.15	1,564.88	574.83	384.09	190.75	3.014		
11,100.00	6,083.00	11,224.04	6,083.00	97.84	99.65	90.00	5,368.14	1,565.21	574.83	380.65	194.19	2.960		
11,200.00	6,083.00	11,324.04	6,083.00	99.55	101.33	90.00	5,468.14	1,565.55	574.83	377.20	197.63	2.909		
11,300.00	6,083.00	11,424.04	6,083.00	101.26	103.00	90.00	5,568.14	1,565.89	574.84	373.76	201.08	2.859		
11,400.00	6,083.00	11,524.04	6,083.00	102.97	104.69	90.00	5,668.14	1,566.23	574.84	370.31	204.53	2.811		
11,500.00	6,083.00	11,624.04	6,083.00	104.68	106.37	90.00	5,768.14	1,566.57	574.84	366.85	207.98	2.764		
11,600.00	6,083.00	11,724.04	6,083.00	106.40	108.06	90.00	5,868.14	1,566.91	574.84	363.40	211.44	2.719		
11,700.00	6,083.00	11,824.04	6,083.00	108.12	109.75	90.00	5,968.14	1,567.24	574.84	359.94	214.90	2.675		
11,800.00	6,083.00	11,924.04	6,083.00	109.84	111.44	90.00	6,068.14	1,567.58	574.84	356.48	218.36	2.633		
11,900.00	6,083.00	12,024.04	6,083.00	111.56	113.14	90.00	6,168.14	1,567.92	574.84	353.01	221.83	2.591		
12,000.00	6,083.00	12,124.04	6,083.00	113.29	114.84	90.00	6,268.14	1,568.26	574.84	349.54	225.29	2.552		
12,100.00	6,083.00	12,224.04	6,083.00	115.01	116.54	90.00	6,368.14	1,568.60	574.84	346.07	228.76	2.513		
12,200.00	6,083.00	12,324.04	6,083.00	116.74	118.24	90.00	6,468.14	1,568.94	574.84	342.60	232.24	2.475		
12,300.00	6,083.00	12,424.04	6,083.00	118.47	119.95	90.00	6,568.14	1,569.27	574.84	339.13	235.71	2.439		
12,400.00	6,083.00	12,524.04	6,083.00	120.19	121.66	90.00	6,668.14	1,569.61	574.84	335.65	239.19	2.403		
12,500.00	6,083.00	12,624.04	6,083.00	121.93	123.37	90.00	6,768.14	1,569.95	574.84	332.17	242.67	2.369		
12,600.00	6,083.00	12,724.04	6,083.00	123.66	125.08	90.00	6,868.14	1,570.29	574.84	328.69	246.15	2.335		
12,700.00	6,083.00	12,824.04	6,083.00	125.39	126.79	90.00	6,968.14	1,570.63	574.84	325.21	249.63	2.303		
12,800.00	6,083.00	12,924.04	6,083.00	127.12	128.50	90.00	7,068.14	1,570.96	574.84	321.73	253.12	2.271		
12,900.00	6,083.00	13,024.04	6,083.00	128.86	130.22	90.00	7,168.13	1,571.30	574.84	318.24	256.60	2.240		
13,000.00	6,083.00	13,124.04	6,083.00	130.60	131.94	90.00	7,268.13	1,571.64	574.84	314.75	260.09	2.210		
13,100.00	6,083.00	13,224.04	6,083.00	132.33	133.66	90.00	7,368.13	1,571.98	574.84	311.26	263.58	2.181		
13,200.00	6,083.00	13,324.04	6,083.00	134.07	135.38	90.00	7,468.13	1,572.32	574.84	307.77	267.07	2.152		
13,300.00	6,083.00	13,424.04	6,083.00	135.81	137.10	90.00	7,568.13	1,572.66	574.84	304.28	270.56	2.125		
13,400.00	6,083.00	13,524.04	6,083.00	137.55	138.82	90.00	7,668.13	1,572.99	574.84	300.79	274.06	2.098		
13,500.00	6,083.00	13,624.04	6,083.00	139.29	140.55	90.00	7,768.13	1,573.33	574.84	297.29	277.55	2.071		
13,600.00	6,083.00	13,724.04	6,083.00	141.03	142.27	90.00	7,868.13	1,573.67	574.84	293.79	281.05	2.045		
13,700.00	6,083.00	13,824.04	6,083.00	142.78	144.00	90.00	7,968.13	1,574.01	574.84	290.30	284.55	2.020		
13,800.00	6,083.00	13,924.04	6,083.00	144.52	145.73	90.00	8,068.13	1,574.35	574.85	286.80	288.05	1.996		
13,900.00	6,083.00	14,024.04	6,083.00	146.26	147.46	90.00	8,168.13	1,574.69	574.85	283.30	291.55	1.972		
14,000.00	6,083.00	14,124.04	6,083.00	148.01	149.19	90.00	8,268.13	1,575.02	574.85	279.80	295.05	1.948		
14,100.00	6,083.00	14,224.04	6,083.00	149.75	150.92	90.00	8,368.13	1,575.36	574.85	276.29	298.55	1.925		
14,200.00	6,083.00	14,324.04	6,083.00	151.50	152.65	90.00	8,468.13	1,575.70	574.85	272.79	302.06	1.903		
14,300.00	6,083.00	14,424.04	6,083.00	153.25	154.39	90.00	8,568.13	1,576.04	574.85	269.29	305.56	1.881		
14,400.00	6,083.00	14,524.04	6,083.00	154.99	156.12	90.00	8,668.13	1,576.38	574.85	265.78	309.07	1.860		
14,500.00	6,083.00	14,624.04	6,083.00	156.74	157.86	90.00	8,768.13	1,576.71	574.85	262.28	312.57	1.839		
14,600.00	6,083.00	14,724.04	6,083.00	158.49	159.59	90.00	8,868.13	1,577.05	574.85	258.77	316.08	1.819		
14,700.00	6,083.00	14,824.04	6,083.00	160.24	161.33	90.00	8,968.12	1,577.39	574.85	255.26	319.59	1.799		
14,800.00	6,083.00	14,924.04	6,083.00	161.99	163.07	90.00	9,068.12	1,577.73	574.85	251.75	323.10	1.779		
14,900.00	6,083.00	15,024.04	6,083.00	163.74	164.81	90.00	9,168.12	1,578.07	574.85	248.24	326.61	1.760		
15,000.00	6,083.00	15,124.04	6,083.00	165.49	166.55	90.00	9,268.12	1,578.41	574.85	244.73	330.12	1.741		
15,100.00	6,083.00	15,224.04	6,083.00	167.24	168.29	90.00	9,368.12	1,578.74	574.85	241.22	333.63	1.723		
15,200.00	6,083.00	15,324.04	6,083.00	168.99	170.03	90.00	9,468.12	1,579.08	574.85	237.71	337.14	1.705		
15,300.00	6,083.00	15,424.04	6,083.00	170.74	171.77	90.00	9,568.12	1,579.42	574.85	234.20	340.66	1.687		
15,400.00	6,083.00	15,524.04	6,083.00	172.50	173.51	90.00	9,668.12	1,579.76	574.85	230.68	344.17	1.670		
15,500.00	6,083.00	15,624.04	6,083.00	174.25	175.25	90.00	9,768.12	1,580.10	574.85	227.17	347.68	1.653		

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

Civitas Resources

Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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 - 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	
15,600.00	6,083.00	15,724.04	6,083.00	176.00	177.00	90.00	9,868.12	1,580.44	574.85	223.65	351.20	1.637	
15,700.00	6,083.00	15,824.04	6,083.00	177.76	178.74	90.00	9,968.12	1,580.77	574.85	220.14	354.71	1.621	
15,800.00	6,083.00	15,924.04	6,083.00	179.51	180.48	90.00	10,068.12	1,581.11	574.85	216.62	358.23	1.605	
15,900.00	6,083.00	16,024.04	6,083.00	181.27	182.23	90.00	10,168.12	1,581.45	574.85	213.10	361.75	1.589	
16,000.00	6,083.00	16,124.04	6,083.00	183.02	183.98	90.00	10,268.12	1,581.79	574.85	209.59	365.27	1.574	
16,100.00	6,083.00	16,224.04	6,083.00	184.78	185.72	90.00	10,368.12	1,582.13	574.85	206.07	368.78	1.559	
16,101.43	6,083.00	16,225.46	6,083.00	184.81	185.75	90.00	10,369.54	1,582.13	574.85	206.02	368.83	1.559 SF	

Civitas Resources

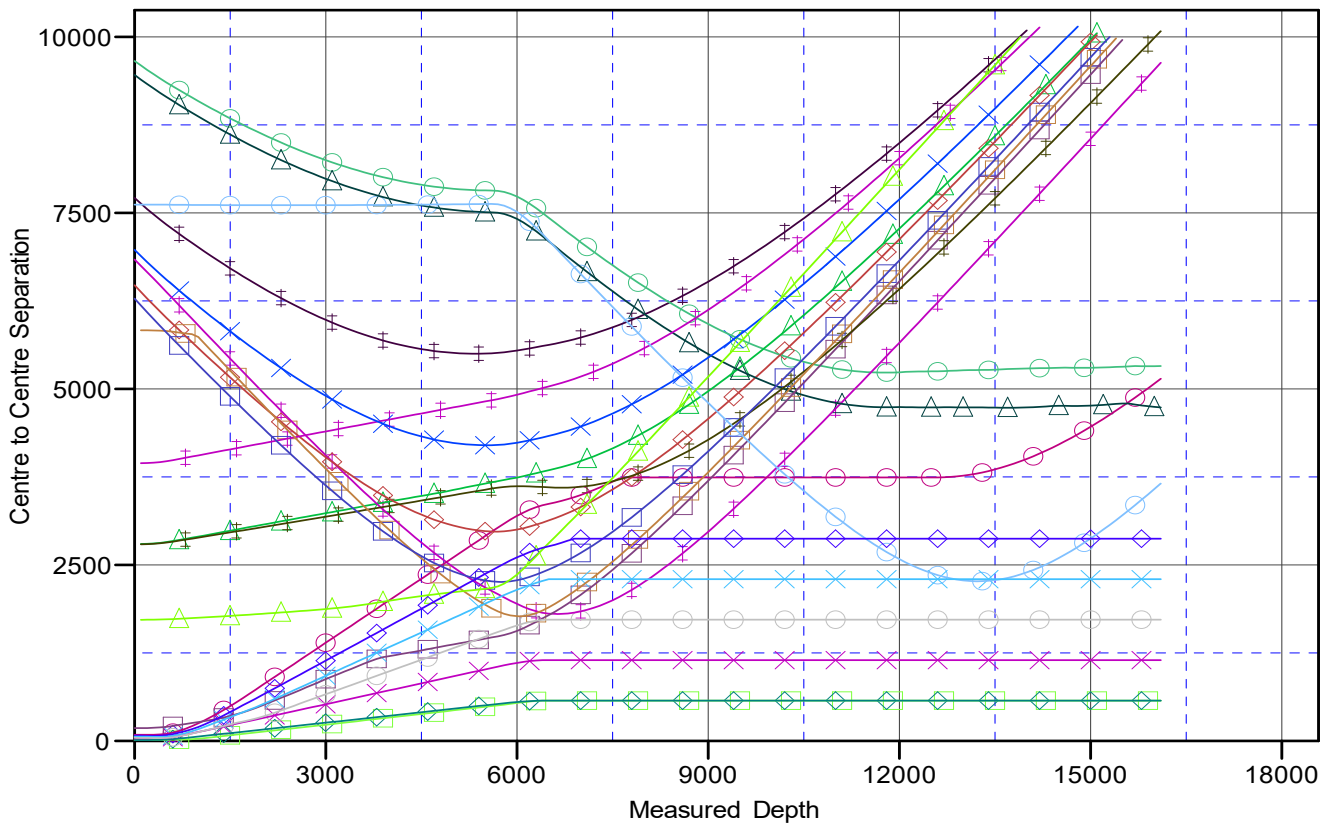
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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

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-20-07
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.82°

Ladder Plot



LEGEND

- EXIST HZ PRONGHORN T-76XRLNB, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0
- EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0
- EXIST HZ PRONGHORN 11-14-8-2, OMB, FINAL SURVEY V0
- EXIST HESTER LUND 44-3H, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0
- EXIST HZ PRONGHORN J-85XRLNB, OMB, FINAL SURVEY V0
- EXIST HZ ROSENBERG 6-8-3-0857BH, OMB, FINAL SURVEY V0
- ABND VERT PRONGHORN 41-6, OMB, Design #1 V0
- EXIST HZ PRONGHORN K-58XRLNB, OMB, FINAL SURVEY V0
- ABND VERT BOWMAN 32-1, OMB, Design #1 V0
- EXIST HZ PRONGHORN 141-14-1HNB, OMB, FINAL SURVEY V0
- ABND VERT FURROW 1, OMB, Design #1 V0
- EXIST HZ PRONGHORN 248-5XRLNB, OMB, FINAL SURVEY V0
- PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0
- EXIST HZ PRONGHORN E-85XRLNB, OMB, FINAL SURVEY V0
- ABND VERT PRONGHORN 32-5, OMB, GYRO V0
- PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0
- PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0
- PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0

Civitas Resources

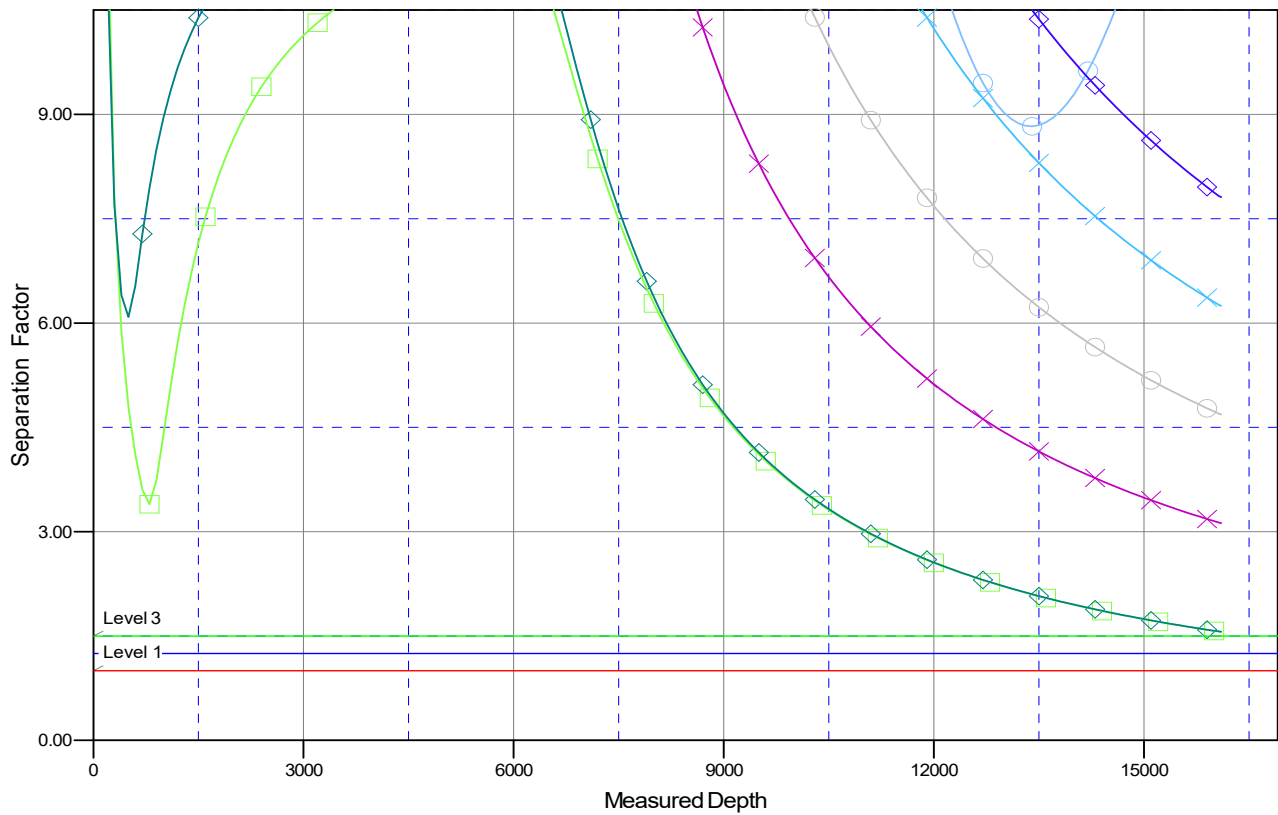
Anticollision Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-07
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-20-07	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

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-20-07
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.82°

Separation Factor Plot



LEGEND

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> EXIST HZ PRONGHORN T-76XRLNB, OMB, FINAL SURVEY V0 PRONGHORN K-5 FED 32N-20-08, OMB, PROPOSAL 1 V0 EXIST HZ ROSENBERG 6-8-30-0758BH, OMB, FINAL SURVEY V0 PRONGHORN K-5 FED 32N-20-05, OMB, PROPOSAL 1 V0 EXIST HZ PRONGHORN 11-14-9HZ, OMB, FINAL SURVEY V0 EXIST HZ ESTERLING 44-2K, OMB, FINAL SURVEY V0 PRONGHORN K-5 FED 32N-20-01, OMB, PROPOSAL 1 V0 | <ul style="list-style-type: none"> EXIST HZ PRONGHORN J-85XRLNB, OMB, FINAL SURVEY V0 EXIST HZ ROSENBERG 6-8-30-0857BH, OMB, FINAL SURVEY V0 ABND VERT PRONGHORN 41-6, OMB, Design #1 V0 EXIST HZ PRONGHORN K-58XRLNB, OMB, FINAL SURVEY V0 ABND VERT BOWMAN 32-1, OMB, Design #1 V0 EXIST HZ PRONGHORN 14-11-4HNB, OMB, FINAL SURVEY V0 ABND VERT FURROW 1, OMB, Design #1 V0 | <ul style="list-style-type: none"> EXIST HZ PRONGHORN 246-5XRLNB, OMB, FINAL SURVEY V0 PRONGHORN K-5 FED 32N-20-06, OMB, PROPOSAL 1 V0 EXIST HZ PRONGHORN E-85XRLNB, OMB, FINAL SURVEY V0 ABND VERT PRONGHORN 3-5, OMB, GYRO V0 PRONGHORN K-5 FED 32N-20-02, OMB, PROPOSAL 2 V0 PRONGHORN K-5 FED 32N-20-03, OMB, PROPOSAL 2 V0 PRONGHORN K-5 FED 32N-20-04, OMB, PROPOSAL 2 V0 |
|---|---|--|