

BONANZA CREEK ENERGY

WELD COUNTY

SEC 30-T5N-R61W

STATE PRONGHORN FEDERAL K-O-31HNB

OWB

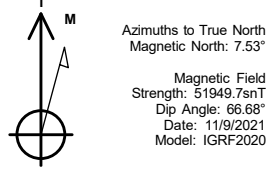
Design: FINAL SURVEY

Standard Survey Report

27 December, 2021

Project: WELD COUNTY
Site: SEC 30-T5N-R61W
Well: STATE PRONGHORN FEDERAL K-O-31HNB
Wellbore: OWB
Design: FINAL SURVEY

PROJECT DETAILS: WELD COUNTY
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

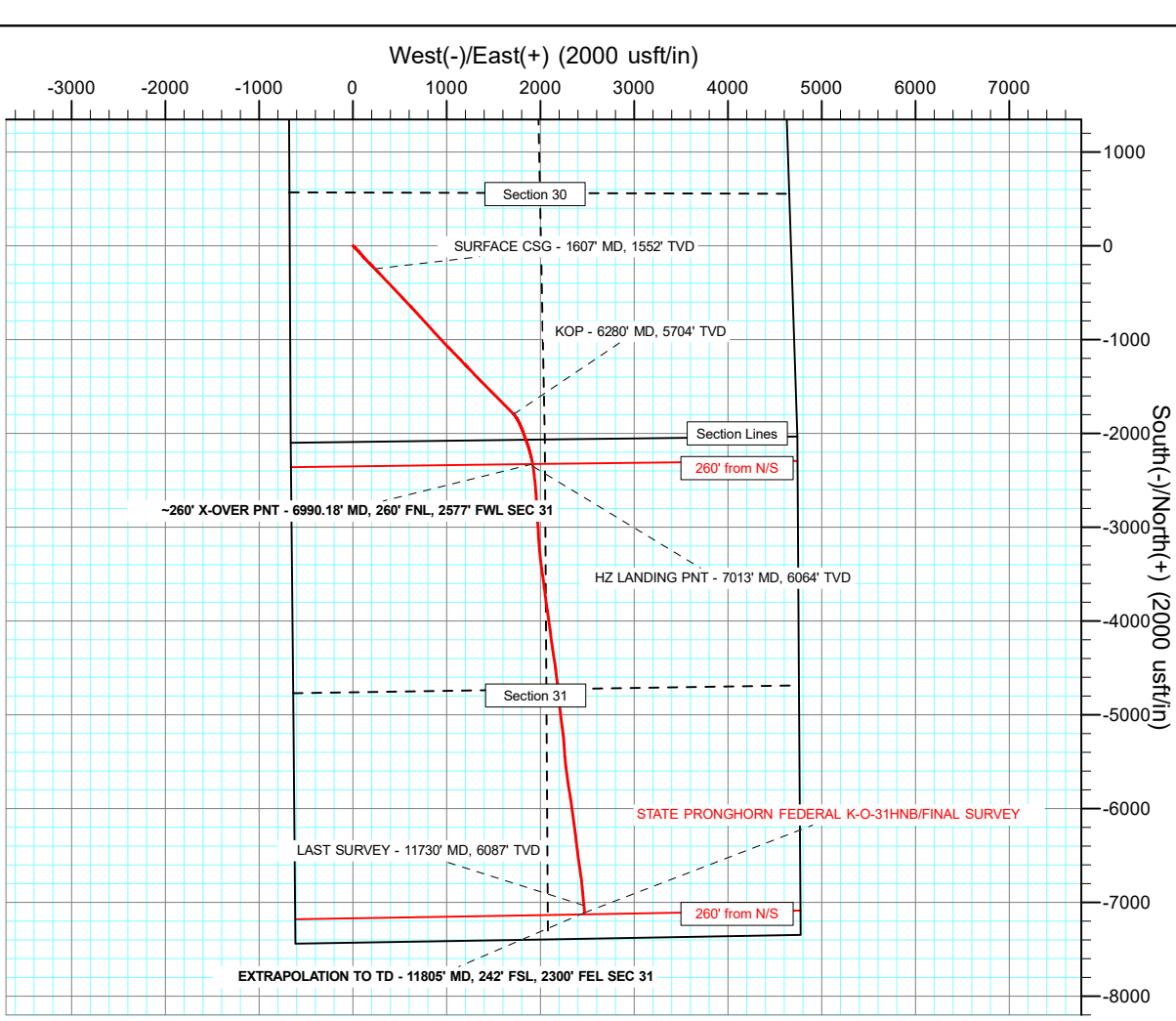
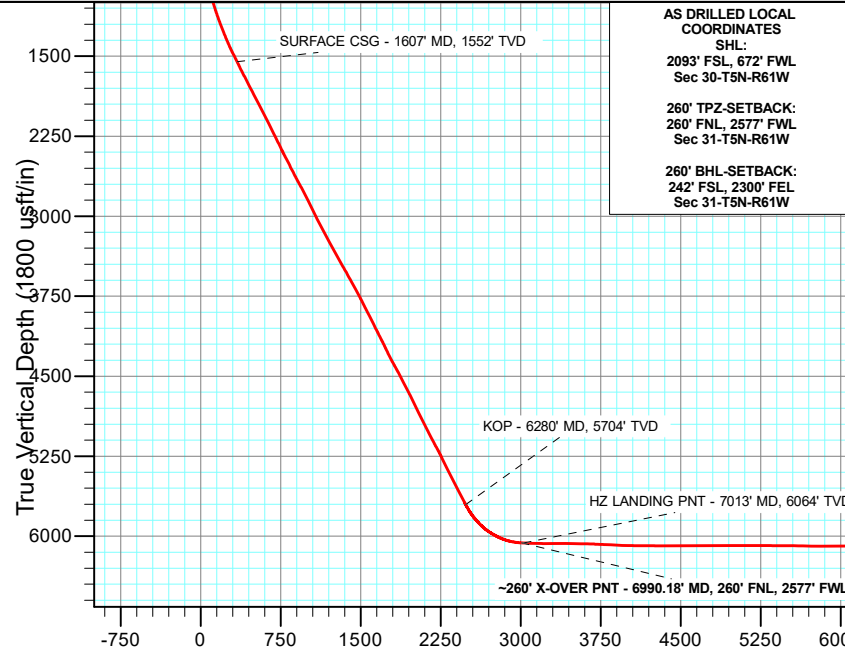
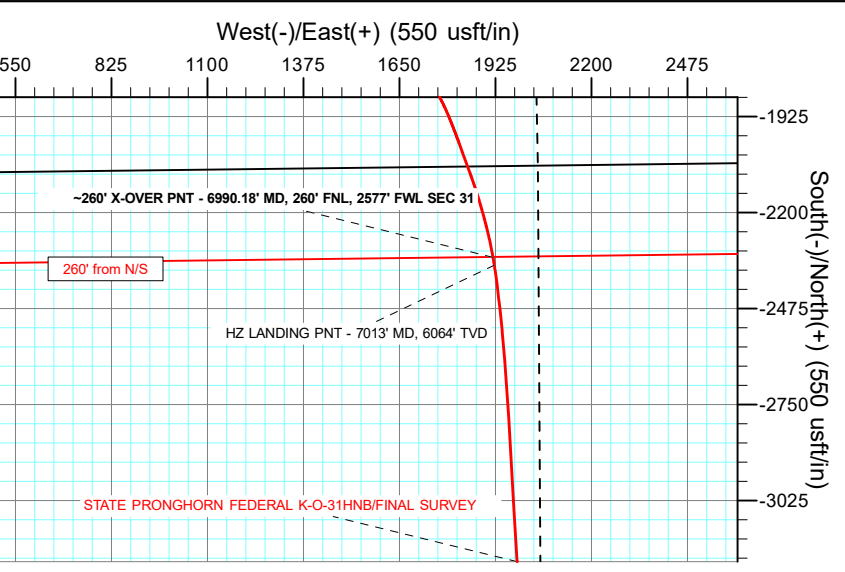


WELL DETAILS: STATE PRONGHORN FEDERAL K-O-31HNB

+N/-S	+E/-W	Northing	Easting	4528.00	Latitude	Longitude	Slot
0.00	0.00	1380083.08	3345716.00		40.370090°N	104.259203°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1607.00	26.44	135.67	1552.28	-245.52	236.38	340.82	341.46	SURFACE CSG - 1607' MD, 1552' TVD
6280.00	28.49	138.47	5704.18	-1795.92	1715.44	2483.55	2485.46	KOP - 6280' MD, 5704' TVD
6990.18	86.76	169.90	6062.86	-2327.85	1917.59	3007.11	3058.22	~260' X-OVER PNT - 6990.18' MD, 260' FNL, 2577' FWL SEC 31
7013.00	87.93	170.94	6063.92	-2350.33	1921.39	3025.95	3080.96	HZ LANDING PNT - 7013' MD, 6064' TVD
11730.00	91.52	174.16	6086.60	-7033.50	2464.34	6778.33	7797.44	LAST SURVEY - 11730' MD, 6087' TVD
11805.00	91.52	174.16	6084.61	-7108.09	2471.97	6837.39	7872.42	EXTRAPOLATION TO TD - 11805' MD, 242' FSL, 2300' FEL SEC 31



Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE PRONGHORN FEDERAL K-O-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4553.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4553.00usft
Well:	STATE PRONGHORN FEDERAL K-O-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	SEC 30-T5N-R61W				
Site Position:		Northing:	1,380,645.52 usft	Latitude:	40.371660°N
From:	Lat/Long	Easting:	3,345,031.84 usft	Longitude:	104.261630°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.80 °

Well	STATE PRONGHORN FEDERAL K-O-31HNB				
Well Position	+N/-S	0.00 usft	Northing:	1,380,083.08 usft	Latitude: 40.370090°N
	+E/-W	0.00 usft	Easting:	3,345,716.00 usft	Longitude: 104.259203°W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level: 4,528.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/9/2021	7.54	66.68	51,949.69342224

Design	FINAL SURVEY				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		136.13

Survey Program	Date	12/27/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
67.00	1,570.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,668.00	11,805.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
67.00	0.44	59.29	67.00	0.13	0.22	0.06	0.66	0.66	0.00	
158.00	1.49	111.33	157.99	-0.12	1.62	1.21	1.39	1.15	57.19	
249.00	2.81	136.64	248.92	-2.17	4.26	4.52	1.75	1.45	27.81	
341.00	4.13	136.46	340.75	-6.21	8.09	10.09	1.43	1.43	-0.20	
425.00	5.28	139.10	424.47	-11.33	12.70	16.97	1.39	1.37	3.14	
512.00	6.16	138.04	511.03	-17.83	18.44	25.63	1.02	1.01	-1.22	
597.00	7.39	133.47	595.44	-24.98	25.46	35.65	1.58	1.45	-5.38	
685.00	8.35	131.19	682.61	-33.08	34.38	47.67	1.15	1.09	-2.59	

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Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4553.00usft
Well:	STATE PRONGHORN FEDERAL K-O-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
770.00	10.20	134.18	766.49	-42.39	44.42	61.34	2.25	2.18	3.52
855.00	12.49	138.04	849.83	-54.47	55.96	78.05	2.84	2.69	4.54
939.00	14.77	137.69	931.46	-69.15	69.25	97.84	2.72	2.71	-0.42
1,024.00	16.80	138.22	1,013.25	-86.32	84.73	120.95	2.39	2.39	0.62
1,112.00	18.64	139.27	1,097.07	-106.46	102.38	147.70	2.12	2.09	1.19
1,197.00	20.40	138.40	1,177.18	-127.84	121.08	176.07	2.10	2.07	-1.02
1,284.00	21.54	136.64	1,258.42	-150.79	142.11	207.19	1.50	1.31	-2.02
1,370.00	22.60	134.88	1,338.12	-173.93	164.66	239.50	1.45	1.23	-2.05
1,455.00	24.71	135.41	1,415.97	-198.11	188.71	273.60	2.49	2.48	0.62
1,540.00	26.91	134.18	1,492.49	-224.17	214.98	310.59	2.66	2.59	-1.45
1,570.00	27.00	134.88	1,519.23	-233.70	224.67	324.18	1.10	0.30	2.33
1,607.00	26.44	135.67	1,552.28	-245.52	236.38	340.82	1.78	-1.50	2.14
SURFACE CSG - 1607' MD, 1552' TVD									
1,668.00	25.54	137.05	1,607.11	-264.87	254.83	367.55	1.78	-1.48	2.26
1,762.00	27.68	136.90	1,691.14	-295.64	283.56	409.65	2.28	2.28	-0.16
1,857.00	27.67	136.32	1,775.28	-327.71	313.87	453.77	0.28	-0.01	-0.61
1,951.00	27.39	136.22	1,858.63	-359.10	343.91	497.22	0.30	-0.30	-0.11
2,046.00	27.35	135.97	1,943.00	-390.57	374.19	540.89	0.13	-0.04	-0.26
2,142.00	27.10	136.71	2,028.36	-422.34	404.51	584.81	0.44	-0.26	0.77
2,237.00	26.71	136.63	2,113.08	-453.61	434.01	627.80	0.41	-0.41	-0.08
2,332.00	26.38	136.49	2,198.07	-484.44	463.20	670.25	0.35	-0.35	-0.15
2,428.00	26.18	136.27	2,284.14	-515.21	492.53	712.76	0.23	-0.21	-0.23
2,522.00	25.88	136.87	2,368.61	-545.17	520.89	754.00	0.42	-0.32	0.64
2,618.00	27.77	136.98	2,454.27	-576.81	550.47	797.32	1.97	1.97	0.11
2,713.00	27.36	136.73	2,538.49	-608.89	580.53	841.28	0.45	-0.43	-0.26
2,807.00	26.84	136.19	2,622.17	-639.93	610.03	884.10	0.61	-0.55	-0.57
2,902.00	28.77	136.84	2,706.20	-672.08	640.52	928.41	2.06	2.03	0.68
2,998.00	27.80	137.30	2,790.73	-705.39	671.50	973.89	1.04	-1.01	0.48
3,118.00	25.89	138.08	2,897.80	-745.45	707.98	1,028.06	1.62	-1.59	0.65
3,213.00	26.48	137.43	2,983.05	-776.48	736.17	1,069.96	0.69	0.62	-0.68
3,308.00	26.80	137.05	3,067.96	-807.76	765.09	1,112.55	0.38	0.34	-0.40
3,403.00	28.27	137.66	3,152.20	-840.06	794.84	1,156.45	1.58	1.55	0.64
3,498.00	28.45	138.32	3,235.80	-873.59	825.04	1,201.56	0.38	0.19	0.69
3,593.00	28.90	138.02	3,319.15	-907.56	855.44	1,247.11	0.50	0.47	-0.32
3,688.00	29.26	137.58	3,402.17	-941.76	886.45	1,293.26	0.44	0.38	-0.46
3,784.00	29.63	136.87	3,485.77	-976.40	918.50	1,340.45	0.53	0.39	-0.74
3,878.00	29.25	137.00	3,567.63	-1,010.16	950.05	1,386.64	0.41	-0.40	0.14
3,973.00	28.82	136.43	3,650.69	-1,043.72	981.66	1,432.75	0.54	-0.45	-0.60
4,069.00	28.19	135.91	3,735.05	-1,076.77	1,013.39	1,478.56	0.71	-0.66	-0.54
4,163.00	26.48	135.55	3,818.56	-1,107.68	1,043.52	1,521.72	1.83	-1.82	-0.38
4,259.00	27.34	135.64	3,904.16	-1,138.72	1,073.92	1,565.17	0.90	0.90	0.09
4,354.00	26.83	136.27	3,988.74	-1,169.81	1,103.99	1,608.42	0.62	-0.54	0.66

Survey Report

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Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4553.00usft
Well:	STATE PRONGHORN FEDERAL K-O-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,449.00	26.11	134.93	4,073.78	-1,200.07	1,133.61	1,650.76	0.98	-0.76	-1.41	
4,545.00	27.57	136.65	4,159.44	-1,231.14	1,163.82	1,694.10	1.72	1.52	1.79	
4,639.00	25.01	136.74	4,243.71	-1,261.44	1,192.37	1,735.73	2.72	-2.72	0.10	
4,735.00	27.41	136.16	4,329.83	-1,292.16	1,221.59	1,778.13	2.51	2.50	-0.60	
4,830.00	29.15	136.80	4,413.49	-1,324.80	1,252.58	1,823.13	1.86	1.83	0.67	
4,925.00	27.27	136.87	4,497.20	-1,357.55	1,283.30	1,868.03	1.98	-1.98	0.07	
5,019.00	28.05	136.26	4,580.46	-1,389.24	1,313.30	1,911.67	0.88	0.83	-0.65	
5,114.00	26.21	136.03	4,665.00	-1,420.48	1,343.31	1,954.99	1.94	-1.94	-0.24	
5,210.00	26.40	133.99	4,751.06	-1,450.56	1,373.39	1,997.52	0.96	0.20	-2.12	
5,304.00	26.49	135.20	4,835.23	-1,479.95	1,403.19	2,039.36	0.58	0.10	1.29	
5,399.00	26.57	135.79	4,920.23	-1,510.21	1,432.94	2,081.79	0.29	0.08	0.62	
5,494.00	26.74	136.20	5,005.13	-1,540.86	1,462.54	2,124.41	0.26	0.18	0.43	
5,588.00	27.55	134.34	5,088.78	-1,571.32	1,492.73	2,167.29	1.25	0.86	-1.98	
5,684.00	28.96	134.86	5,173.34	-1,603.23	1,525.08	2,212.71	1.49	1.47	0.54	
5,779.00	25.83	134.32	5,257.67	-1,633.93	1,556.20	2,256.41	3.31	-3.29	-0.57	
5,874.00	26.31	136.05	5,343.01	-1,663.54	1,585.62	2,298.14	0.95	0.51	1.82	
5,969.00	26.70	135.10	5,428.02	-1,693.82	1,615.30	2,340.54	0.61	0.41	-1.00	
6,064.00	27.35	134.79	5,512.65	-1,724.31	1,645.85	2,383.69	0.70	0.68	-0.33	
6,159.00	27.68	136.19	5,596.90	-1,755.61	1,676.61	2,427.58	0.76	0.35	1.47	
6,253.00	27.25	135.44	5,680.31	-1,786.70	1,706.83	2,470.93	0.59	-0.46	-0.80	
6,280.00	28.49	138.47	5,704.18	-1,795.92	1,715.44	2,483.55	6.97	4.60	11.21	
KOP - 6280' MD, 5704' TVD										
6,348.00	31.88	145.08	5,762.97	-1,822.80	1,736.48	2,517.51	6.97	4.98	9.73	
6,442.00	41.11	151.78	5,838.48	-1,870.51	1,765.38	2,571.93	10.68	9.82	7.13	
6,538.00	49.18	157.76	5,906.17	-1,932.07	1,794.11	2,636.22	9.49	8.41	6.23	
6,632.00	59.19	160.22	5,961.11	-2,003.17	1,821.30	2,706.32	10.86	10.65	2.62	
6,727.00	65.46	159.75	6,005.21	-2,082.17	1,850.10	2,783.23	6.61	6.60	-0.49	
6,823.00	74.52	163.16	6,038.03	-2,167.61	1,878.68	2,864.63	10.01	9.44	3.55	
6,917.00	83.01	166.53	6,056.34	-2,256.52	1,902.72	2,945.38	9.69	9.03	3.59	
6,990.18	86.76	169.90	6,062.86	-2,327.85	1,917.59	3,007.11	6.87	5.12	4.60	
~260' X-OVER PNT - 6990.18' MD, 260' FNL, 2577' FWL SEC 31										
7,013.00	87.93	170.94	6,063.92	-2,350.33	1,921.39	3,025.95	6.87	5.13	4.57	
HZ LANDING PNT - 7013' MD, 6064' TVD										
7,107.00	88.90	173.84	6,066.52	-2,443.45	1,933.83	3,101.70	3.25	1.03	3.09	
7,202.00	88.96	174.09	6,068.29	-2,537.91	1,943.82	3,176.72	0.27	0.06	0.26	
7,297.00	89.98	176.29	6,069.17	-2,632.56	1,951.78	3,250.47	2.55	1.07	2.32	
7,391.00	91.02	175.60	6,068.35	-2,726.32	1,958.43	3,322.67	1.33	1.11	-0.73	
7,486.00	90.15	176.56	6,067.38	-2,821.09	1,964.92	3,395.49	1.36	-0.92	1.01	
7,581.00	88.24	176.95	6,068.72	-2,915.93	1,970.30	3,467.58	2.05	-2.01	0.41	
7,676.00	88.76	176.79	6,071.20	-3,010.75	1,975.48	3,539.54	0.57	0.55	-0.17	
7,771.00	90.04	177.01	6,072.20	-3,105.61	1,980.62	3,611.48	1.37	1.35	0.23	
7,866.00	88.08	175.32	6,073.76	-3,200.37	1,986.97	3,684.20	2.72	-2.06	-1.78	
7,961.00	87.82	174.03	6,077.16	-3,294.90	1,995.78	3,758.45	1.38	-0.27	-1.36	

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4553.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4553.00usft
Well:	STATE PRONGHORN FEDERAL K-O-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,057.00	88.01	172.94	6,080.65	-3,390.22	2,006.67	3,834.70	1.15	0.20	-1.14
8,152.00	88.14	171.98	6,083.84	-3,484.34	2,019.13	3,911.19	1.02	0.14	-1.01
8,248.00	88.11	172.02	6,086.98	-3,579.36	2,032.48	3,988.94	0.05	-0.03	0.04
8,343.00	89.87	172.60	6,088.66	-3,673.48	2,045.19	4,065.61	1.95	1.85	0.61
8,437.00	90.08	173.26	6,088.70	-3,766.77	2,056.76	4,140.87	0.74	0.22	0.70
8,532.00	88.71	170.93	6,089.70	-3,860.85	2,069.82	4,217.75	2.85	-1.44	-2.45
8,627.00	90.33	172.63	6,090.50	-3,954.86	2,083.40	4,294.94	2.47	1.71	1.79
8,721.00	89.49	171.21	6,090.64	-4,047.93	2,096.62	4,371.19	1.76	-0.89	-1.51
8,816.00	90.78	172.88	6,090.42	-4,142.01	2,109.76	4,448.12	2.22	1.36	1.76
8,911.00	90.38	172.81	6,089.46	-4,236.26	2,121.59	4,524.27	0.43	-0.42	-0.07
9,005.00	89.92	171.45	6,089.21	-4,329.38	2,134.46	4,600.31	1.53	-0.49	-1.45
9,101.00	89.64	170.38	6,089.58	-4,424.17	2,149.62	4,679.15	1.15	-0.29	-1.11
9,195.00	90.81	173.50	6,089.21	-4,517.23	2,162.80	4,755.37	3.54	1.24	3.32
9,291.00	91.31	172.90	6,087.44	-4,612.53	2,174.17	4,831.95	0.81	0.52	-0.62
9,386.00	89.55	174.94	6,086.72	-4,706.99	2,184.23	4,907.02	2.84	-1.85	2.15
9,480.00	89.84	174.15	6,087.22	-4,800.56	2,193.16	4,980.67	0.90	0.31	-0.84
9,575.00	89.88	173.13	6,087.45	-4,894.97	2,203.69	5,056.02	1.07	0.04	-1.07
9,670.00	89.92	173.22	6,087.62	-4,989.30	2,214.97	5,131.85	0.10	0.04	0.09
9,765.00	90.02	173.55	6,087.67	-5,083.67	2,225.92	5,207.46	0.36	0.11	0.35
9,860.00	89.65	171.51	6,087.94	-5,177.86	2,238.27	5,283.92	2.18	-0.39	-2.15
9,955.00	89.45	175.67	6,088.69	-5,272.24	2,248.87	5,359.31	4.38	-0.21	4.38
10,050.00	89.87	176.69	6,089.25	-5,367.03	2,255.20	5,432.03	1.16	0.44	1.07
10,144.00	89.85	174.95	6,089.48	-5,460.77	2,262.05	5,504.36	1.85	-0.02	-1.85
10,239.00	89.41	172.91	6,090.10	-5,555.23	2,272.10	5,579.41	2.20	-0.46	-2.15
10,334.00	88.97	172.41	6,091.44	-5,649.44	2,284.23	5,655.74	0.70	-0.46	-0.53
10,429.00	89.63	171.68	6,092.60	-5,743.52	2,297.38	5,732.67	1.04	0.69	-0.77
10,524.00	89.80	170.55	6,093.07	-5,837.38	2,312.05	5,810.50	1.20	0.18	-1.19
10,619.00	90.03	171.71	6,093.21	-5,931.24	2,326.70	5,888.32	1.24	0.24	1.22
10,714.00	90.38	172.53	6,092.87	-6,025.34	2,339.72	5,965.18	0.94	0.37	0.86
10,809.00	90.04	172.28	6,092.53	-6,119.51	2,352.28	6,041.77	0.44	-0.36	-0.26
10,904.00	90.82	171.88	6,091.81	-6,213.60	2,365.37	6,118.67	0.92	0.82	-0.42
11,000.00	89.81	173.57	6,091.29	-6,308.82	2,377.53	6,195.74	2.05	-1.05	1.76
11,095.00	89.45	173.28	6,091.90	-6,403.19	2,388.40	6,271.31	0.49	-0.38	-0.31
11,190.00	90.38	172.26	6,092.04	-6,497.43	2,400.36	6,347.54	1.45	0.98	-1.07
11,285.00	90.41	172.19	6,091.39	-6,591.56	2,413.21	6,424.30	0.08	0.03	-0.07
11,380.00	90.96	171.71	6,090.25	-6,685.61	2,426.51	6,501.32	0.77	0.58	-0.51
11,475.00	90.24	173.57	6,089.25	-6,779.82	2,438.68	6,577.67	2.10	-0.76	1.96
11,571.00	90.18	174.42	6,088.90	-6,875.29	2,448.72	6,653.45	0.89	-0.06	0.89
11,666.00	90.94	174.41	6,087.97	-6,969.84	2,457.97	6,728.02	0.80	0.80	-0.01
11,730.00	91.52	174.16	6,086.60	-7,033.50	2,464.34	6,778.33	0.99	0.91	-0.39
LAST SURVEY - 11730' MD, 6087' TVD									
11,805.00	91.52	174.16	6,084.61	-7,108.09	2,471.97	6,837.39	0.00	0.00	0.00
EXTRAPOLATION TO TD - 11805' MD, 242' FSL, 2300' FEL SEC 31									

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE PRONGHORN FEDERAL K-O-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4553.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4553.00usft
Well:	STATE PRONGHORN FEDERAL K-O-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
ST PRONGHORN FED	0.00	0.00	6,073.00	-2,327.85	1,878.41	1,377,781.84	3,347,626.72	40.363700°N	104.252463°W
- actual wellpath misses target center by 39.98usft at 6983.11usft MD (6062.44 TVD, -2320.90 N, 1916.34 E)									
- Point									
ST PRONGHORN FED	0.00	0.00	6,093.00	-7,125.75	2,470.34	1,372,992.89	3,348,285.70	40.350530°N	104.250340°W
- actual wellpath misses target center by 19.62usft at 11805.00usft MD (6084.61 TVD, -7108.09 N, 2471.97 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,607.00	1,552.28	-245.52	236.38	SURFACE CSG - 1607' MD, 1552' TVD	
6,280.00	5,704.18	-1,795.92	1,715.44	KOP - 6280' MD, 5704' TVD	
6,990.18	6,062.86	-2,327.85	1,917.59	~260' X-OVER PNT - 6990.18' MD, 260' FNL, 2577' FWL SEC 31	
7,013.00	6,063.92	-2,350.33	1,921.39	HZ LANDING PNT - 7013' MD, 6064' TVD	
11,730.00	6,086.60	-7,033.50	2,464.34	LAST SURVEY - 11730' MD, 6087' TVD	
11,805.00	6,084.61	-7,108.09	2,471.97	EXTRAPOLATION TO TD - 11805' MD, 242' FSL, 2300' FEL SEC 31	

Checked By: _____	Approved By: _____	Date: _____
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