

BONANZA CREEK ENERGY

WELD COUNTY

SEC 30-T5N-R61W

PRONGHORN FEDERAL A-E-31HNB

OWB

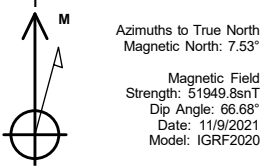
Design: FINAL SURVEY

Standard Survey Report

27 December, 2021

Project: WELD COUNTY
Site: SEC 30-T5N-R61W
Well: PRONGHORN FEDERAL A-E-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

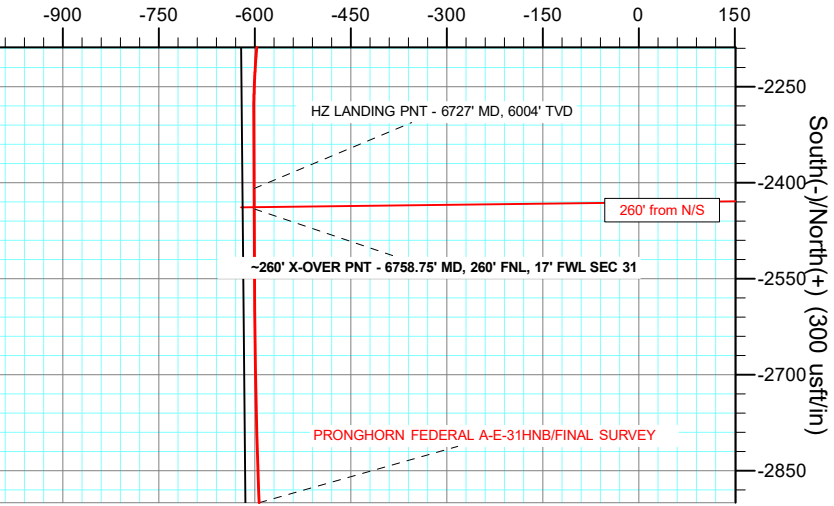


WELL DETAILS: PRONGHORN FEDERAL A-E-31HNB

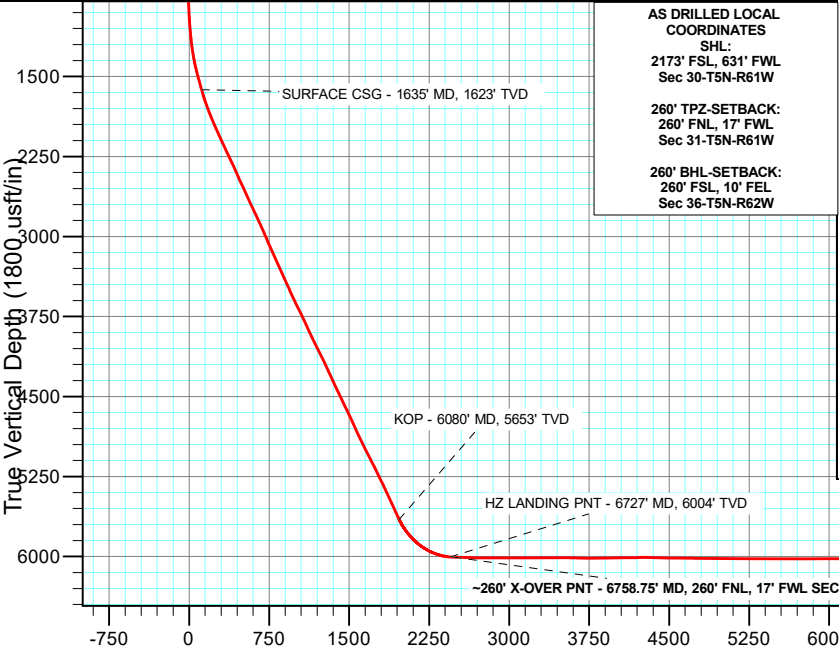
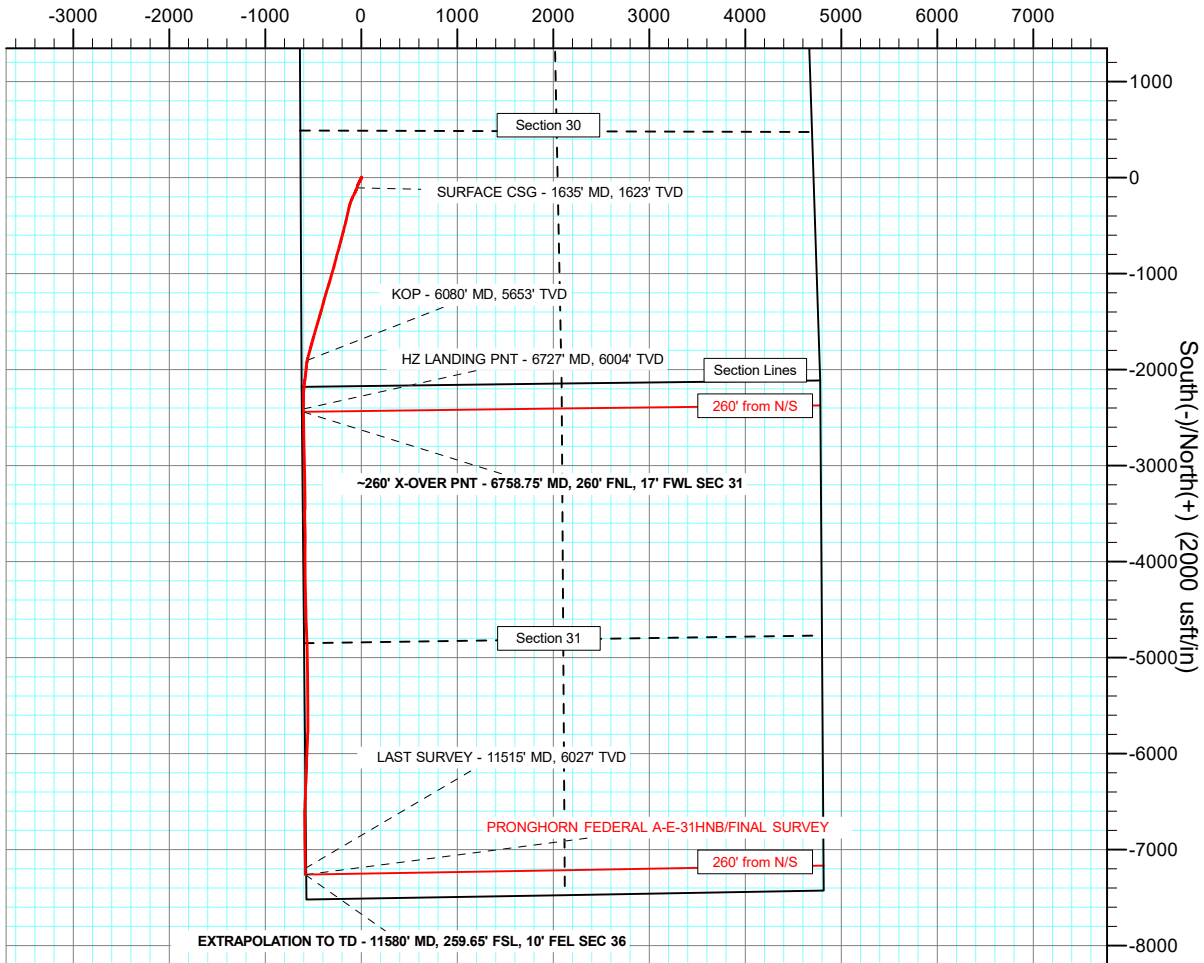
+N/-S	+E/-W	Northing	Easting	4526.00	Latitude	Longitude
0.00	0.00	1380162.65	3345673.92	40.370310°N	104.259350°W	

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1635.00	15.95	198.98	1622.91	-107.08	-46.13	116.59	132.66	SURFACE CSG - 1635' MD, 1623' TVD
6080.00	25.96	191.98	5652.70	-1902.89	-562.85	1968.73	2004.47	KOP - 6080' MD, 5653' TVD
6727.00	86.57	179.76	6003.56	-2409.16	-601.04	2447.73	2512.08	HZ LANDING PNT - 6727' MD, 6004' TVD
6758.75	87.26	179.83	6005.27	-2440.86	-600.93	2476.72	2543.80	~260' X-OVER PNT - 6758.75' MD, 260' FNL, 17' FWL SEC 31
11515.00	90.78	180.14	6026.65	-7195.32	-583.44	6823.91	7299.62	LAST SURVEY - 11515' MD, 6027' TVD
11580.00	90.78	180.14	6025.76	-7260.31	-583.60	6883.50	7364.62	EXTRAPOLATION TO TD - 11580' MD, 259.65' FSL, 10' FEL SEC 36

West(-)/East(+) (300 usft/in)



West(-)/East(+) (2000 usft/in)



Vertical Section at 203.68° (1800 usft/in)

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN FEDERAL A-E-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	PRONGHORN FEDERAL A-E-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	PRONGHORN FEDERAL A-E-31HNB					
Well Position	+N/-S	0.00 usft	Northing:	1,380,162.65 usft	Latitude:	40.370310°N
	+E/-W	0.00 usft	Easting:	3,345,673.93 usft	Longitude:	104.259350°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,526.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/9/2021	7.54	66.68	51,949.80930473

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	203.68	

Survey Program	Date	12/27/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
67.00	1,603.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,668.00	11,580.00	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	331.93	67.00	0.23	-0.12	-0.16	0.66	0.66	0.00	
158.00	0.26	318.40	158.00	0.69	-0.42	-0.46	0.22	-0.20	-14.87	
249.00	0.35	324.72	249.00	1.07	-0.72	-0.69	0.11	0.10	6.95	
341.00	0.44	353.02	340.99	1.65	-0.93	-1.14	0.23	0.10	30.76	
425.00	0.53	8.14	424.99	2.36	-0.91	-1.79	0.19	0.11	18.00	
512.00	0.70	20.27	511.99	3.25	-0.67	-2.71	0.25	0.20	13.94	
598.00	0.79	13.24	597.98	4.32	-0.35	-3.82	0.15	0.10	-8.17	
685.00	1.14	39.43	684.97	5.57	0.34	-5.24	0.64	0.40	30.10	
770.00	1.14	126.09	769.96	5.73	1.56	-5.87	1.84	0.00	101.95	

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN FEDERAL A-E-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	PRONGHORN FEDERAL A-E-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)
855.00	2.64	165.47	854.91	3.34	2.73	-4.15	2.24	1.76	46.33
939.00	4.04	187.79	938.77	-1.47	2.82	0.21	2.25	1.67	26.57
1,024.00	4.84	201.85	1,023.52	-7.76	1.08	6.68	1.58	0.94	16.54
1,112.00	4.66	215.56	1,111.22	-14.12	-2.39	13.89	1.30	-0.20	15.58
1,197.00	7.39	213.10	1,195.74	-21.51	-7.38	22.66	3.23	3.21	-2.89
1,285.00	9.15	209.94	1,282.82	-32.31	-13.96	35.20	2.06	2.00	-3.59
1,370.00	11.52	209.59	1,366.44	-45.55	-21.53	50.36	2.79	2.79	-0.41
1,455.00	14.25	204.67	1,449.29	-62.44	-30.09	69.27	3.46	3.21	-5.79
1,540.00	15.30	198.16	1,531.48	-82.61	-37.95	90.89	2.31	1.24	-7.66
1,603.00	16.00	198.51	1,592.15	-98.74	-43.30	107.81	1.12	1.11	0.56
1,635.00	15.95	198.98	1,622.91	-107.08	-46.13	116.59	0.43	-0.16	1.47
SURFACE CSG - 1635' MD, 1623' TVD									
1,668.00	15.90	199.47	1,654.65	-115.63	-49.11	125.62	0.43	-0.15	1.48
1,762.00	19.56	203.89	1,744.17	-142.16	-59.78	154.20	4.15	3.89	4.70
1,857.00	21.04	206.30	1,833.27	-172.00	-73.77	187.14	1.79	1.56	2.54
1,951.00	23.30	206.39	1,920.31	-203.78	-89.52	222.57	2.40	2.40	0.10
2,046.00	24.11	200.97	2,007.31	-238.73	-104.81	260.73	2.45	0.85	-5.71
2,142.00	25.16	197.61	2,094.57	-276.50	-118.01	300.61	1.82	1.09	-3.50
2,237.00	25.78	192.84	2,180.35	-315.89	-128.71	340.99	2.26	0.65	-5.02
2,332.00	25.33	192.92	2,266.05	-355.84	-137.84	381.24	0.48	-0.47	0.08
2,428.00	24.68	192.62	2,353.06	-395.42	-146.81	421.09	0.69	-0.68	-0.31
2,522.00	24.15	192.97	2,438.65	-433.30	-155.42	459.24	0.58	-0.56	0.37
2,617.00	25.52	194.20	2,524.86	-472.08	-164.80	498.52	1.54	1.44	1.29
2,713.00	25.08	194.07	2,611.65	-511.87	-174.82	538.98	0.46	-0.46	-0.14
2,807.00	24.62	194.13	2,696.95	-550.18	-184.44	577.94	0.49	-0.49	0.06
2,902.00	26.06	195.52	2,782.81	-589.48	-194.86	618.11	1.64	1.52	1.46
2,998.00	25.10	194.68	2,869.40	-629.49	-205.66	659.09	1.07	-1.00	-0.87
3,118.00	23.51	194.02	2,978.76	-677.34	-217.91	707.83	1.34	-1.32	-0.55
3,213.00	23.62	194.67	3,065.84	-714.14	-227.32	745.31	0.30	0.12	0.68
3,308.00	24.73	195.82	3,152.50	-751.67	-237.56	783.79	1.27	1.17	1.21
3,403.00	24.29	195.01	3,238.94	-789.66	-248.03	822.79	0.58	-0.46	-0.85
3,498.00	24.78	195.07	3,325.37	-827.76	-258.27	861.79	0.52	0.52	0.06
3,593.00	24.65	195.58	3,411.66	-866.06	-268.77	901.09	0.26	-0.14	0.54
3,688.00	24.17	194.26	3,498.17	-904.00	-278.88	939.89	0.76	-0.51	-1.39
3,783.00	26.20	196.06	3,584.14	-943.00	-289.47	979.87	2.28	2.14	1.89
3,878.00	25.96	196.04	3,669.47	-983.14	-301.02	1,021.26	0.25	-0.25	-0.02
3,973.00	25.59	196.10	3,755.01	-1,022.84	-312.45	1,062.21	0.39	-0.39	0.06
4,068.00	24.72	195.60	3,841.00	-1,061.68	-323.49	1,102.22	0.94	-0.92	-0.53
4,163.00	25.71	197.20	3,926.95	-1,100.50	-334.92	1,142.36	1.27	1.04	1.68
4,259.00	27.12	197.64	4,012.93	-1,141.24	-347.71	1,184.81	1.48	1.47	0.46
4,354.00	26.40	197.21	4,097.75	-1,182.05	-360.52	1,227.33	0.78	-0.76	-0.45
4,449.00	25.05	196.03	4,183.33	-1,221.56	-372.32	1,268.25	1.52	-1.42	-1.24
4,544.00	25.77	195.75	4,269.14	-1,260.77	-383.48	1,308.64	0.77	0.76	-0.29

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	PRONGHORN FEDERAL A-E-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)	
4,639.00	24.67	194.43	4,355.09	-1,299.85	-394.03	1,348.66	1.30	-1.16	-1.39	
4,735.00	26.13	195.50	4,441.81	-1,339.62	-404.67	1,389.36	1.59	1.52	1.11	
4,830.00	25.29	195.49	4,527.40	-1,379.34	-415.68	1,430.16	0.88	-0.88	-0.01	
4,925.00	26.60	196.38	4,612.82	-1,419.30	-427.10	1,471.34	1.44	1.38	0.94	
5,019.00	24.59	195.71	4,697.60	-1,458.32	-438.33	1,511.59	2.16	-2.14	-0.71	
5,114.00	24.57	197.45	4,783.99	-1,496.19	-449.61	1,550.80	0.76	-0.02	1.83	
5,209.00	25.75	195.82	4,869.97	-1,534.89	-461.16	1,590.87	1.44	1.24	-1.72	
5,304.00	26.34	196.36	4,955.33	-1,574.96	-472.72	1,632.22	0.67	0.62	0.57	
5,399.00	27.06	195.69	5,040.20	-1,615.99	-484.50	1,674.53	0.82	0.76	-0.71	
5,493.00	28.00	196.14	5,123.55	-1,657.77	-496.42	1,717.57	1.02	1.00	0.48	
5,588.00	25.47	195.99	5,208.39	-1,698.84	-508.24	1,759.93	2.66	-2.66	-0.16	
5,683.00	26.90	194.58	5,293.64	-1,739.27	-519.28	1,801.40	1.64	1.51	-1.48	
5,779.00	24.59	194.94	5,380.10	-1,779.60	-529.90	1,842.59	2.41	-2.41	0.37	
5,874.00	25.81	195.73	5,466.06	-1,818.60	-540.60	1,882.61	1.33	1.28	0.83	
5,968.00	24.96	195.42	5,550.98	-1,857.42	-551.42	1,922.50	0.92	-0.90	-0.33	
6,064.00	24.40	193.27	5,638.22	-1,896.24	-561.36	1,962.05	1.10	-0.58	-2.24	
6,080.00	25.96	191.98	5,652.70	-1,902.89	-562.85	1,968.73	10.34	9.76	-8.07	
KOP - 6080' MD, 5653' TVD										
6,159.00	33.79	187.25	5,721.15	-1,941.66	-569.22	2,006.80	10.34	9.91	-5.98	
6,253.00	41.34	185.20	5,795.61	-1,998.59	-575.34	2,061.40	8.14	8.03	-2.18	
6,348.00	49.39	186.99	5,862.31	-2,065.74	-582.58	2,125.81	8.58	8.47	1.88	
6,442.00	58.04	187.24	5,917.88	-2,140.86	-591.97	2,198.37	9.20	9.20	0.27	
6,537.00	67.51	183.43	5,961.31	-2,224.86	-599.69	2,278.40	10.58	9.97	-4.01	
6,632.00	77.15	179.33	5,990.12	-2,315.23	-601.78	2,362.00	10.95	10.15	-4.32	
6,727.00	86.57	179.76	6,003.56	-2,409.16	-601.04	2,447.73	9.93	9.92	0.45	
HZ LANDING PNT - 6727' MD, 6004' TVD										
6,758.75	87.26	179.83	6,005.27	-2,440.86	-600.93	2,476.72	2.17	2.16	0.22	
-260' X-OVER PNT - 6758.75' MD, 260' FNL, 17' FWL SEC 31										
6,822.00	88.62	179.97	6,007.54	-2,504.07	-600.82	2,534.56	2.17	2.16	0.22	
6,917.00	88.78	179.42	6,009.70	-2,599.05	-600.31	2,621.33	0.60	0.17	-0.58	
7,012.00	88.96	179.07	6,011.57	-2,694.02	-599.06	2,707.81	0.41	0.19	-0.37	
7,107.00	90.28	178.54	6,012.20	-2,788.99	-597.08	2,793.99	1.50	1.39	-0.56	
7,202.00	89.54	177.83	6,012.35	-2,883.94	-594.07	2,879.74	1.08	-0.78	-0.75	
7,297.00	90.26	179.86	6,012.52	-2,978.92	-592.16	2,965.95	2.27	0.76	2.14	
7,391.00	91.03	179.48	6,011.46	-3,072.91	-591.61	3,051.82	0.91	0.82	-0.40	
7,486.00	89.63	178.28	6,010.91	-3,167.89	-589.76	3,138.05	1.94	-1.47	-1.26	
7,581.00	89.74	178.00	6,011.43	-3,262.84	-586.67	3,223.77	0.32	0.12	-0.29	
7,676.00	90.69	181.23	6,011.08	-3,357.82	-586.04	3,310.50	3.54	1.00	3.40	
7,771.00	90.79	181.05	6,009.85	-3,452.79	-587.93	3,398.24	0.22	0.11	-0.19	
7,866.00	89.58	179.97	6,009.54	-3,547.78	-588.77	3,485.57	1.71	-1.27	-1.14	
7,961.00	88.43	178.34	6,011.19	-3,642.76	-587.37	3,571.98	2.10	-1.21	-1.72	
8,057.00	88.31	179.96	6,013.92	-3,738.70	-585.95	3,659.28	1.69	-0.12	1.69	
8,152.00	89.99	180.53	6,015.33	-3,833.69	-586.35	3,746.44	1.87	1.77	0.60	
8,248.00	90.52	179.86	6,014.91	-3,929.68	-586.68	3,834.48	0.89	0.55	-0.70	

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN FEDERAL A-E-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	PRONGHORN FEDERAL A-E-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)
8,343.00	90.59	179.31	6,013.99	-4,024.68	-585.99	3,921.20	0.58	0.07	-0.58
8,437.00	91.40	178.49	6,012.35	-4,118.64	-584.19	4,006.53	1.23	0.86	-0.87
8,532.00	90.61	179.74	6,010.69	-4,213.62	-582.72	4,092.92	1.56	-0.83	1.32
8,627.00	91.18	178.89	6,009.20	-4,308.60	-581.59	4,179.45	1.08	0.60	-0.89
8,721.00	89.55	178.84	6,008.60	-4,402.57	-579.72	4,264.77	1.73	-1.73	-0.05
8,816.00	89.15	179.11	6,009.68	-4,497.55	-578.02	4,351.07	0.51	-0.42	0.28
8,911.00	88.47	178.53	6,011.66	-4,592.51	-576.07	4,437.25	0.94	-0.72	-0.61
9,005.00	89.08	177.77	6,013.66	-4,686.44	-573.03	4,522.05	1.04	0.65	-0.81
9,100.00	89.28	177.37	6,015.02	-4,781.34	-569.01	4,607.35	0.47	0.21	-0.42
9,195.00	89.55	178.71	6,015.99	-4,876.28	-565.76	4,692.99	1.44	0.28	1.41
9,290.00	89.20	177.79	6,017.03	-4,971.23	-562.86	4,778.78	1.04	-0.37	-0.97
9,385.00	89.76	179.07	6,017.89	-5,066.19	-560.25	4,864.70	1.47	0.59	1.35
9,480.00	89.83	180.41	6,018.23	-5,161.18	-559.82	4,951.53	1.41	0.07	1.41
9,575.00	89.73	179.57	6,018.60	-5,256.18	-559.81	5,038.52	0.89	-0.11	-0.88
9,670.00	89.63	178.61	6,019.13	-5,351.17	-558.30	5,124.90	1.02	-0.11	-1.01
9,765.00	89.87	180.71	6,019.54	-5,446.16	-557.73	5,211.67	2.22	0.25	2.21
9,860.00	90.15	179.13	6,019.53	-5,541.16	-557.60	5,298.62	1.69	0.29	-1.66
9,954.00	89.66	180.78	6,019.68	-5,635.15	-557.53	5,384.67	1.83	-0.52	1.76
10,050.00	89.55	179.43	6,020.34	-5,731.15	-557.70	5,472.66	1.41	-0.11	-1.41
10,144.00	89.53	182.27	6,021.10	-5,825.12	-559.10	5,559.28	3.02	-0.02	3.02
10,239.00	90.42	182.78	6,021.14	-5,920.03	-563.28	5,647.88	1.08	0.94	0.54
10,334.00	89.81	182.30	6,020.95	-6,014.94	-567.49	5,736.49	0.82	-0.64	-0.51
10,429.00	89.68	179.72	6,021.37	-6,109.91	-569.17	5,824.14	2.72	-0.14	-2.72
10,524.00	90.46	183.78	6,021.26	-6,204.85	-572.07	5,912.25	4.35	0.82	4.27
10,618.00	90.45	182.98	6,020.51	-6,298.68	-577.61	6,000.41	0.85	-0.01	-0.85
10,714.00	90.61	182.00	6,019.62	-6,394.58	-581.78	6,089.91	1.03	0.17	-1.02
10,809.00	89.00	181.90	6,019.94	-6,489.53	-585.01	6,178.16	1.70	-1.69	-0.11
10,904.00	89.85	182.14	6,020.90	-6,584.46	-588.36	6,266.45	0.93	0.89	0.25
10,999.00	88.66	179.82	6,022.13	-6,679.43	-589.99	6,354.08	2.74	-1.25	-2.44
11,095.00	88.56	179.04	6,024.46	-6,775.40	-589.03	6,441.58	0.82	-0.10	-0.81
11,190.00	89.07	178.90	6,026.43	-6,870.36	-587.32	6,527.87	0.56	0.54	-0.15
11,285.00	89.68	179.70	6,027.46	-6,965.35	-586.16	6,614.39	1.06	0.64	0.84
11,380.00	90.21	178.48	6,027.55	-7,060.33	-584.66	6,700.77	1.40	0.56	-1.28
11,475.00	90.39	180.00	6,027.06	-7,155.32	-583.40	6,787.26	1.61	0.19	1.60
11,515.00	90.78	180.14	6,026.65	-7,195.32	-583.44	6,823.91	1.04	0.97	0.35
LAST SURVEY - 11515' MD, 6027' TVD									
11,580.00	90.78	180.14	6,025.76	-7,260.31	-583.60	6,883.50	0.00	0.00	0.00
EXTRAPOLATION TO TD - 11580' MD, 259.65' FSL, 10' FEL SEC 36									

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well PRONGHORN FEDERAL A-E-31HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	PRONGHORN FEDERAL A-E-31HNB	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PRONGHORN FED A-E	0.00	0.00	6,005.00	-2,440.86	-607.50	1,377,713.63	3,345,100.66	40.363610°N	104.261530°W
- actual wellpath misses target center by 6.58usft at 6758.70usft MD (6005.26 TVD, -2440.82 N, -600.93 E)									
- Point									
PRONGHORN FED A-E	0.00	0.00	6,030.00	-7,260.66	-563.03	1,372,895.12	3,345,212.56	40.350380°N	104.261370°W
- actual wellpath misses target center by 21.01usft at 11580.00usft MD (6025.76 TVD, -7260.31 N, -583.60 E)									
- Point									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
1,635.00	1,622.91	-107.08	-46.13	SURFACE CSG - 1635' MD, 1623' TVD	
6,080.00	5,652.70	-1,902.89	-562.85	KOP - 6080' MD, 5653' TVD	
6,727.00	6,003.56	-2,409.16	-601.04	HZ LANDING PNT - 6727' MD, 6004' TVD	
6,758.75	6,005.27	-2,440.86	-600.93	~260' X-OVER PNT - 6758.75' MD, 260' FNL, 17' FWL SEC 31	
11,515.00	6,026.65	-7,195.32	-583.44	LAST SURVEY - 11515' MD, 6027' TVD	
11,580.00	6,025.76	-7,260.31	-583.60	EXTRAPOLATION TO TD - 11580' MD, 259.65' FSL, 10' FEL SEC 36	

Checked By: _____ Approved By: _____ Date: _____