

BONANZA CREEK ENERGY

WELD COUNTY

SEC 30-T5N-R61W

STATE PRONGHORN FEDERAL 14-44-30HNB

OWB

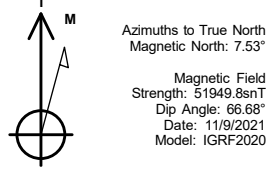
Design: FINAL SURVEY

Standard Survey Report

27 December, 2021

Project: WELD COUNTY
Site: SEC 30-T5N-R61W
Well: STATE PRONGHORN FEDERAL 14-44-30HNB
Wellbore: OWB
Design: FINAL SURVEY

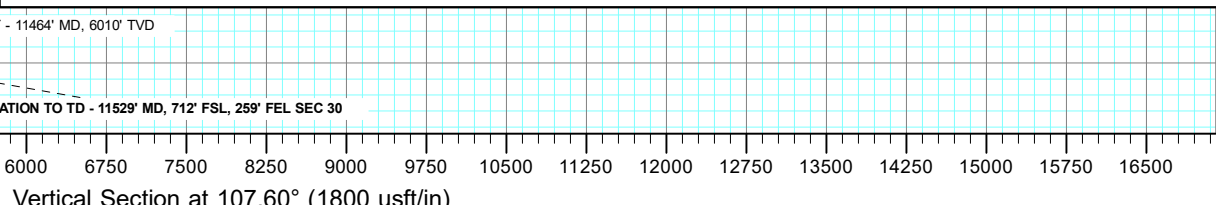
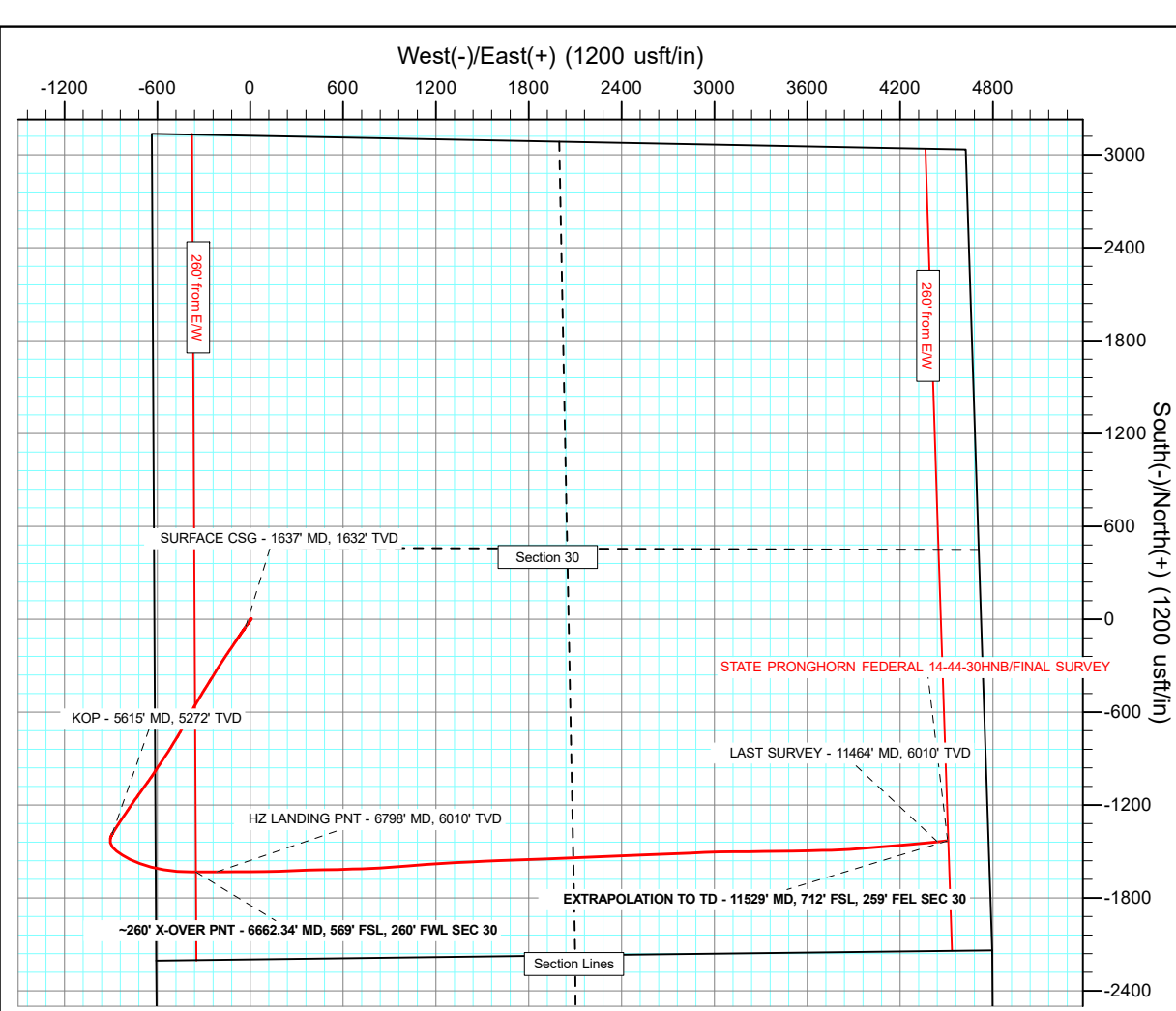
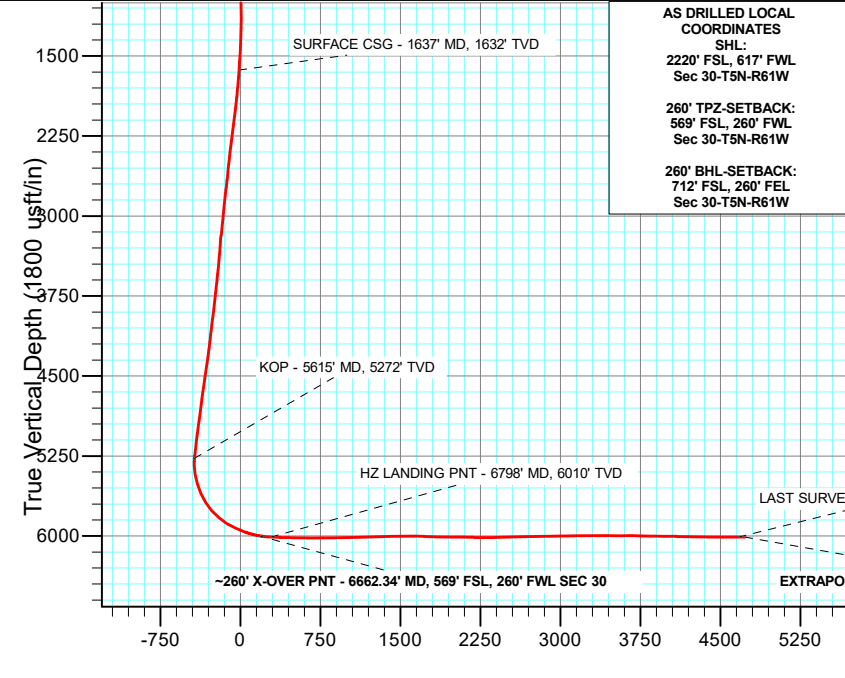
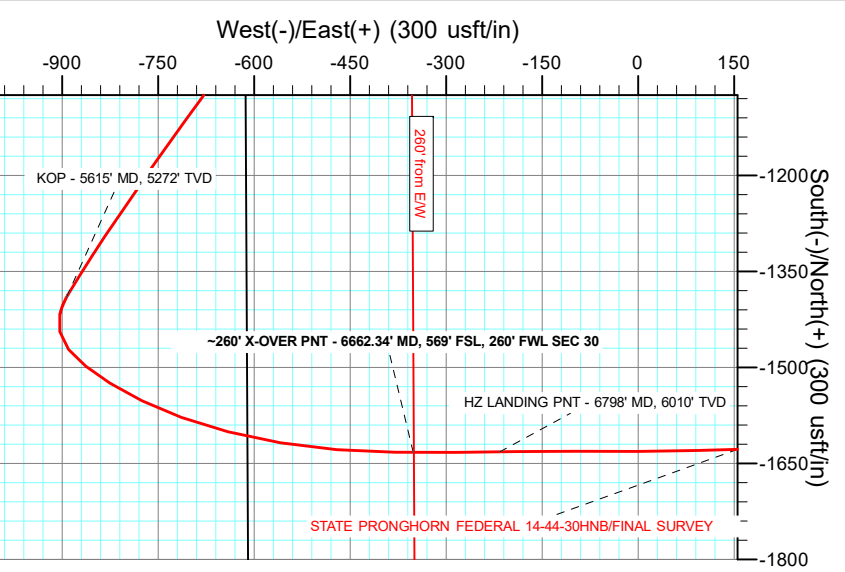
PROJECT DETAILS: WELD COUNTY
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level



WELL DETAILS: STATE PRONGHORN FEDERAL 14-44-30HNB

+N/-S	+E/-W	Northing	Easting	4526.00	Latitude	Longitude	Slot
0.00	0.00	1380187.95	3345659.63		40.370380°N	104.259400°W	

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1637.00	13.10	212.74	1631.62	-48.54	-29.10	-13.06	79.79	SURFACE CSG - 1637' MD, 1632' TVD
5615.00	23.22	207.99	5271.55	-1390.01	-893.05	-430.82	1675.86	KOP - 5615' MD, 5272' TVD
6662.34	79.30	90.20	5994.83	-1632.34	-351.11	159.03	2341.85	~260' X-OVER PNT - 6662.34' MD, 569' FSL, 260' FWL SEC 30
6798.00	86.84	89.17	6009.75	-1631.79	-216.37	287.29	2476.41	HZ LANDING PNT - 6798' MD, 6010' TVD
11464.00	89.97	83.33	6009.53	-1437.96	4443.41	4670.22	7141.52	LAST SURVEY - 11464' MD, 6010' TVD
11529.00	89.97	83.33	6009.56	-1430.41	4507.97	4729.47	7206.52	EXTRAPOLATION TO TD - 11529' MD, 712' FSL, 259' FEL SEC 30



Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE PRONGHORN FEDERAL 14-44-30HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	STATE PRONGHORN FEDERAL 14-44-30HNB	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 14-44-30HNB					
Well Position	+N/-S	0.00 usft	Northing:	1,380,187.95 usft	Latitude:	40.370380°N
	+E/-W	0.00 usft	Easting:	3,345,659.64 usft	Longitude:	104.259400°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	51,949.84076345

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		210.68

Survey Program	Date	12/27/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
158.00	1,601.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,668.00	11,529.00	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	
158.00	0.44	261.09	158.00	-0.09	-0.60	0.39	0.28	0.28	0.00	
249.00	0.44	22.91	249.00	0.17	-0.81	0.26	0.85	0.00	133.87	
341.00	0.62	6.91	340.99	0.99	-0.61	-0.54	0.25	0.20	-17.39	
425.00	0.53	57.18	424.99	1.66	-0.23	-1.31	0.59	-0.11	59.85	
512.00	0.70	57.36	511.98	2.16	0.56	-2.14	0.20	0.20	0.21	
598.00	0.97	52.09	597.98	2.89	1.57	-3.29	0.33	0.31	-6.13	
685.00	0.70	63.51	684.97	3.58	2.63	-4.42	0.36	-0.31	13.13	
770.00	0.88	69.84	769.96	4.04	3.71	-5.36	0.24	0.21	7.45	

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Well:	STATE PRONGHORN FEDERAL 14-44-30HNB	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	0.79	71.77	854.95	4.44	4.88	-6.31	0.11	-0.11	2.27
939.00	1.14	73.00	938.94	4.87	6.22	-7.36	0.42	0.42	1.46
1,024.00	1.14	68.79	1,023.92	5.42	7.82	-8.66	0.10	0.00	-4.95
1,112.00	1.41	165.29	1,111.91	4.69	8.91	-8.58	2.17	0.31	109.66
1,197.00	2.90	208.36	1,196.85	1.79	8.16	-5.70	2.47	1.75	50.67
1,285.00	4.57	219.43	1,284.66	-2.88	4.87	-0.01	2.06	1.90	12.58
1,370.00	6.86	218.20	1,369.23	-9.48	-0.42	8.37	2.70	2.69	-1.45
1,455.00	9.23	219.25	1,453.39	-18.75	-7.87	20.14	2.79	2.79	1.24
1,540.00	11.52	216.97	1,536.99	-30.82	-17.29	35.32	2.74	2.69	-2.68
1,601.00	13.28	212.22	1,596.57	-41.61	-24.69	48.38	3.33	2.89	-7.79
1,637.00	13.10	212.74	1,631.62	-48.54	-29.10	56.59	0.60	-0.51	1.43
SURFACE CSG - 1637' MD, 1632' TVD									
1,668.00	12.94	213.19	1,661.82	-54.40	-32.90	63.57	0.60	-0.51	1.47
1,763.00	16.04	216.84	1,753.79	-73.81	-46.59	87.25	3.40	3.26	3.84
1,857.00	18.54	213.71	1,843.54	-96.64	-62.68	115.09	2.84	2.66	-3.33
1,952.00	21.07	214.51	1,932.91	-123.28	-80.74	147.22	2.68	2.66	0.84
2,047.00	23.25	213.25	2,020.89	-153.03	-100.70	182.99	2.35	2.29	-1.33
2,142.00	24.69	214.96	2,107.70	-184.98	-122.35	221.51	1.68	1.52	1.80
2,238.00	24.42	214.04	2,195.02	-217.85	-144.94	261.32	0.49	-0.28	-0.96
2,333.00	24.15	213.45	2,281.61	-250.34	-166.65	300.33	0.38	-0.28	-0.62
2,428.00	23.89	213.01	2,368.38	-282.69	-187.84	338.96	0.33	-0.27	-0.46
2,523.00	23.59	211.97	2,455.34	-314.94	-208.39	377.19	0.54	-0.32	-1.09
2,618.00	23.24	211.76	2,542.52	-347.01	-228.32	414.93	0.38	-0.37	-0.22
2,714.00	23.04	211.90	2,630.80	-379.06	-248.21	452.65	0.22	-0.21	0.15
2,808.00	25.50	212.26	2,716.48	-411.79	-268.74	491.28	2.62	2.62	0.38
2,903.00	24.88	212.09	2,802.45	-446.02	-290.27	531.70	0.66	-0.65	-0.18
2,998.00	23.66	211.18	2,889.05	-479.26	-310.75	570.74	1.34	-1.28	-0.96
3,118.00	21.99	210.61	2,999.65	-519.20	-334.66	617.28	1.40	-1.39	-0.47
3,214.00	23.34	211.61	3,088.23	-550.86	-353.78	654.27	1.46	1.41	1.04
3,309.00	25.02	210.12	3,174.90	-584.27	-373.73	693.18	1.88	1.77	-1.57
3,404.00	24.99	208.74	3,260.99	-619.24	-393.46	733.33	0.61	-0.03	-1.45
3,499.00	25.79	208.17	3,346.82	-655.05	-412.86	774.03	0.88	0.84	-0.60
3,594.00	26.02	208.32	3,432.27	-691.61	-432.51	815.49	0.25	0.24	0.16
3,689.00	25.75	208.84	3,517.74	-728.04	-452.35	856.94	0.37	-0.28	0.55
3,784.00	25.08	212.19	3,603.55	-763.15	-473.03	897.69	1.67	-0.71	3.53
3,879.00	24.46	211.77	3,689.81	-796.91	-494.11	937.49	0.68	-0.65	-0.44
3,974.00	23.65	210.90	3,776.56	-829.99	-514.25	976.21	0.93	-0.85	-0.92
4,069.00	24.52	213.22	3,863.29	-862.83	-534.84	1,014.96	1.35	0.92	2.44
4,164.00	23.74	213.98	3,949.99	-895.18	-556.32	1,053.74	0.88	-0.82	0.80
4,259.00	22.79	213.93	4,037.26	-926.30	-577.28	1,091.20	1.00	-1.00	-0.05
4,355.00	23.80	213.81	4,125.44	-957.82	-598.44	1,129.11	1.05	1.05	-0.12
4,450.00	22.94	212.89	4,212.64	-989.30	-619.16	1,166.75	0.98	-0.91	-0.97

Survey Report

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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)	
4,545.00	24.46	214.84	4,299.63	-1,020.99	-640.45	1,204.87	1.80	1.60	2.05	
4,640.00	25.89	215.92	4,385.60	-1,053.93	-663.86	1,245.14	1.58	1.51	1.14	
4,735.00	24.29	216.24	4,471.64	-1,086.49	-687.58	1,285.25	1.69	-1.68	0.34	
4,831.00	25.54	215.37	4,558.70	-1,119.29	-711.23	1,325.53	1.36	1.30	-0.91	
4,925.00	24.18	216.17	4,643.99	-1,151.36	-734.32	1,364.89	1.49	-1.45	0.85	
5,020.00	23.41	214.68	4,730.91	-1,182.58	-756.54	1,403.08	1.03	-0.81	-1.57	
5,115.00	23.88	213.53	4,817.94	-1,214.13	-777.90	1,441.11	0.69	0.49	-1.21	
5,210.00	25.38	214.98	4,904.29	-1,246.85	-800.20	1,480.62	1.70	1.58	1.53	
5,305.00	25.95	213.76	4,989.92	-1,280.81	-823.42	1,521.68	0.82	0.60	-1.28	
5,399.00	23.89	213.68	5,075.16	-1,313.75	-845.41	1,561.23	2.19	-2.19	-0.09	
5,494.00	25.12	211.74	5,161.61	-1,346.91	-866.68	1,600.60	1.55	1.29	-2.04	
5,589.00	24.66	211.92	5,247.78	-1,380.88	-887.77	1,640.58	0.49	-0.48	0.19	
5,615.00	23.22	207.99	5,271.55	-1,390.01	-893.05	1,651.12	8.25	-5.52	-15.11	
KOP - 5615' MD, 5272' TVD										
5,684.00	20.00	195.20	5,335.72	-1,413.43	-902.53	1,676.10	8.25	-4.67	-18.54	
5,779.00	18.28	167.44	5,425.65	-1,443.71	-903.55	1,702.67	9.66	-1.81	-29.22	
5,874.00	20.86	142.02	5,515.32	-1,471.64	-889.88	1,719.71	9.28	2.72	-26.76	
5,969.00	25.83	127.94	5,602.58	-1,497.74	-863.11	1,728.49	7.83	5.23	-14.82	
6,064.00	32.38	122.22	5,685.56	-1,524.06	-825.22	1,731.79	7.48	6.89	-6.02	
6,159.00	41.56	116.66	5,761.40	-1,551.83	-775.42	1,730.26	10.28	9.66	-5.85	
6,253.00	49.39	109.63	5,827.31	-1,577.86	-713.81	1,721.21	9.88	8.33	-7.48	
6,348.00	58.06	104.68	5,883.48	-1,600.24	-640.68	1,703.15	10.04	9.13	-5.21	
6,443.00	65.83	99.40	5,928.15	-1,617.57	-558.77	1,676.25	9.53	8.18	-5.56	
6,538.00	71.23	94.62	5,962.93	-1,628.28	-471.08	1,640.71	7.36	5.68	-5.03	
6,633.00	77.12	90.36	5,988.83	-1,632.20	-379.82	1,597.52	7.55	6.20	-4.48	
6,662.34	79.30	90.20	5,994.83	-1,632.34	-351.11	1,582.99	7.44	7.42	-0.53	
-260' X-OVER PNT - 6662.34' MD, 569' FSL, 260' FWL SEC 30										
6,728.00	84.17	89.86	6,004.27	-1,632.38	-286.15	1,549.87	7.44	7.42	-0.52	
6,798.00	86.84	89.17	6,009.75	-1,631.79	-216.37	1,513.76	3.93	3.81	-0.98	
HZ LANDING PNT - 6798' MD, 6010' TVD										
6,823.00	87.79	88.93	6,010.93	-1,631.38	-191.40	1,500.66	3.93	3.81	-0.98	
6,918.00	89.16	90.19	6,013.45	-1,630.65	-96.44	1,451.58	1.96	1.44	1.33	
7,013.00	88.04	90.01	6,015.78	-1,630.81	-1.47	1,403.26	1.19	-1.18	-0.19	
7,108.00	89.01	88.42	6,018.22	-1,629.51	93.48	1,353.68	1.96	1.02	-1.67	
7,203.00	90.70	88.46	6,018.46	-1,626.92	188.44	1,303.00	1.78	1.78	0.04	
7,297.00	90.64	87.17	6,017.36	-1,623.34	282.37	1,251.99	1.37	-0.06	-1.37	
7,392.00	90.19	88.46	6,016.67	-1,619.72	377.29	1,200.44	1.44	-0.47	1.36	
7,487.00	90.02	88.95	6,016.50	-1,617.57	472.27	1,150.13	0.55	-0.18	0.52	
7,582.00	92.30	88.93	6,014.58	-1,615.82	567.22	1,100.16	2.40	2.40	-0.02	
7,677.00	91.42	87.91	6,011.49	-1,613.20	662.14	1,049.48	1.42	-0.93	-1.07	
7,772.00	91.55	88.08	6,009.03	-1,609.87	757.05	998.19	0.23	0.14	0.18	
7,867.00	91.59	86.55	6,006.43	-1,605.43	851.90	945.96	1.61	0.04	-1.61	
7,962.00	91.06	85.17	6,004.23	-1,598.57	946.63	891.73	1.56	-0.56	-1.45	

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
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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	91.02	85.71	6,002.51	-1,591.02	1,041.31	836.92	0.57	-0.04	0.57
8,153.00	90.22	86.22	6,001.47	-1,584.26	1,137.07	782.24	0.99	-0.83	0.53
8,248.00	89.28	86.22	6,001.88	-1,578.00	1,231.86	728.49	0.99	-0.99	0.00
8,344.00	87.17	86.84	6,004.86	-1,572.19	1,327.63	674.62	2.29	-2.20	0.65
8,438.00	89.17	86.76	6,007.86	-1,566.95	1,421.43	622.25	2.13	2.13	-0.09
8,532.00	88.58	86.99	6,009.70	-1,561.83	1,515.27	569.95	0.67	-0.63	0.24
8,627.00	90.09	88.60	6,010.81	-1,558.17	1,610.19	518.38	2.32	1.59	1.69
8,721.00	89.48	87.60	6,011.16	-1,555.05	1,704.14	467.76	1.25	-0.65	-1.06
8,817.00	88.42	87.71	6,012.92	-1,551.13	1,800.04	415.44	1.11	-1.10	0.11
8,912.00	89.72	88.59	6,014.46	-1,548.06	1,894.97	364.36	1.65	1.37	0.93
9,005.00	91.13	87.86	6,013.77	-1,545.18	1,987.92	314.45	1.71	1.52	-0.78
9,101.00	91.47	87.56	6,011.59	-1,541.35	2,083.82	262.22	0.47	0.35	-0.31
9,196.00	91.00	87.24	6,009.55	-1,537.04	2,178.70	210.10	0.60	-0.49	-0.34
9,291.00	90.99	87.71	6,007.90	-1,532.85	2,273.59	158.08	0.49	-0.01	0.49
9,386.00	91.48	87.24	6,005.85	-1,528.67	2,368.48	106.06	0.71	0.52	-0.49
9,480.00	92.01	87.77	6,002.99	-1,524.58	2,462.35	54.64	0.80	0.56	0.56
9,576.00	91.56	88.37	6,000.00	-1,521.35	2,558.24	2.93	0.78	-0.47	0.62
9,671.00	89.92	87.63	5,998.77	-1,518.03	2,653.17	-48.37	1.89	-1.73	-0.78
9,766.00	89.81	88.26	5,998.99	-1,514.63	2,748.11	-99.74	0.67	-0.12	0.66
9,860.00	90.20	86.85	5,998.98	-1,510.62	2,842.02	-151.11	1.56	0.41	-1.50
9,955.00	91.33	87.47	5,997.72	-1,505.91	2,936.90	-203.57	1.36	1.19	0.65
10,050.00	89.89	88.77	5,996.70	-1,502.79	3,031.84	-254.70	2.04	-1.52	1.37
10,144.00	90.24	89.65	5,996.60	-1,501.50	3,125.83	-303.77	1.01	0.37	0.94
10,240.00	89.21	89.19	5,997.06	-1,500.52	3,221.82	-353.59	1.18	-1.07	-0.48
10,335.00	90.95	89.41	5,996.93	-1,499.36	3,316.81	-403.06	1.85	1.83	0.23
10,430.00	88.51	89.37	5,997.37	-1,498.35	3,411.79	-452.40	2.57	-2.57	-0.04
10,524.00	88.65	89.18	5,999.70	-1,497.16	3,505.76	-501.37	0.25	0.15	-0.20
10,619.00	89.10	88.42	6,001.57	-1,495.17	3,600.72	-551.54	0.93	0.47	-0.80
10,714.00	89.44	88.29	6,002.78	-1,492.45	3,695.67	-602.34	0.38	0.36	-0.14
10,810.00	89.47	88.51	6,003.69	-1,489.77	3,791.63	-653.61	0.23	0.03	0.23
10,905.00	88.91	86.22	6,005.03	-1,485.40	3,886.51	-705.78	2.48	-0.59	-2.41
11,000.00	88.49	84.74	6,007.19	-1,477.92	3,981.19	-760.53	1.62	-0.44	-1.56
11,096.00	89.20	85.46	6,009.12	-1,469.72	4,076.82	-816.38	1.05	0.74	0.75
11,191.00	89.13	85.49	6,010.51	-1,462.22	4,171.51	-871.15	0.08	-0.07	0.03
11,285.00	90.55	84.88	6,010.77	-1,454.33	4,265.18	-925.73	1.64	1.51	-0.65
11,380.00	90.52	85.35	6,009.88	-1,446.24	4,359.83	-980.99	0.50	-0.03	0.49
11,464.00	89.97	83.33	6,009.53	-1,437.96	4,443.41	-1,030.76	2.49	-0.65	-2.40
LAST SURVEY - 11464' MD, 6010' TVD									
11,529.00	89.97	83.33	6,009.56	-1,430.41	4,507.97	-1,070.20	0.00	0.00	0.00
EXTRAPOLATION TO TD - 11529' MD, 712' FSL, 259' FEL SEC 30									

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE PRONGHORN FEDERAL 14-44-30HNB
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4551.00usft
Site:	SEC 30-T5N-R61W	MD Reference:	KB 25' @ 4551.00usft
Well:	STATE PRONGHORN FEDERAL 14-44-30HNB	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 (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
ST PRONG FED 14-44- - hit/miss target - Shape	0.00	0.00	6,003.00	-1,650.10	-351.11	1,378,533.17	3,345,331.66	40.365851°N	104.260660°W
- actual wellpath misses target center by 19.49usft at 6663.52usft MD (5995.05 TVD, -1632.35 N, -349.95 E)									
- Point									
ST PRONG FED 14-44- - hit/miss target - Shape	0.00	0.00	6,003.00	-1,432.03	4,508.69	1,378,819.19	3,350,187.74	40.366448°N	104.243220°W
- actual wellpath misses target center by 6.79usft at 11529.00usft MD (6009.56 TVD, -1430.41 N, 4507.97 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,637.00	1,631.62	-48.54	-29.10	SURFACE CSG - 1637' MD, 1632' TVD	
5,615.00	5,271.55	-1,390.01	-893.05	KOP - 5615' MD, 5272' TVD	
6,662.34	5,994.83	-1,632.34	-351.11	~260' X-OVER PNT - 6662.34' MD, 569' FSL, 260' FWL SEC 30	
6,798.00	6,009.75	-1,631.79	-216.37	HZ LANDING PNT - 6798' MD, 6010' TVD	
11,464.00	6,009.53	-1,437.96	4,443.41	LAST SURVEY - 11464' MD, 6010' TVD	
11,529.00	6,009.56	-1,430.41	4,507.97	EXTRAPOLATION TO TD - 11529' MD, 712' FSL, 259' FEL SEC 30	

Checked By: _____	Approved By: _____	Date: _____
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