

BONANZA CREEK ENERGY

WELD COUNTY

SEC 36-T5N-R63W

STATE NORTH PLATTE F-36 FED 25N-20-07

OWB

Design: FINAL SURVEY

Standard Survey Report

23 April, 2024

Project: WELD COUNTY
Site: SEC 36-T5N-R63W
Well: STATE NORTH PLATTE F-36 FED 25N-20-07
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



Azimuths to True North
Magnetic North: 7.35°
Magnetic Field
Strength: 51675.1nT
Dip Angle: 66.56°
Date: 4/17/2024
Model: IGRF2020

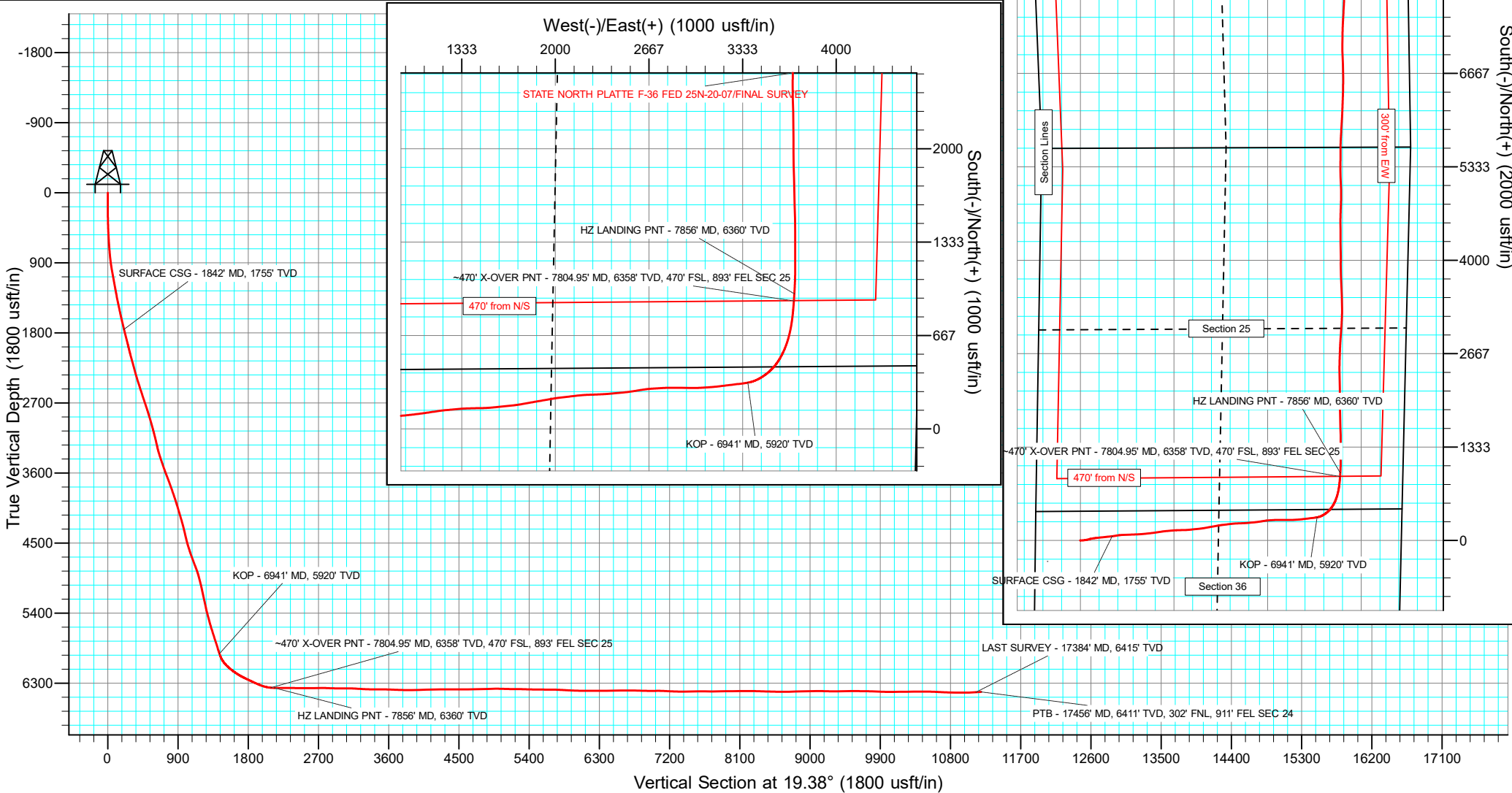
WELL DETAILS: STATE NORTH PLATTE F-36 FED 25N-20-07

		4544.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1376662.31	3308852.87	40.362041°N	104.391646°W		

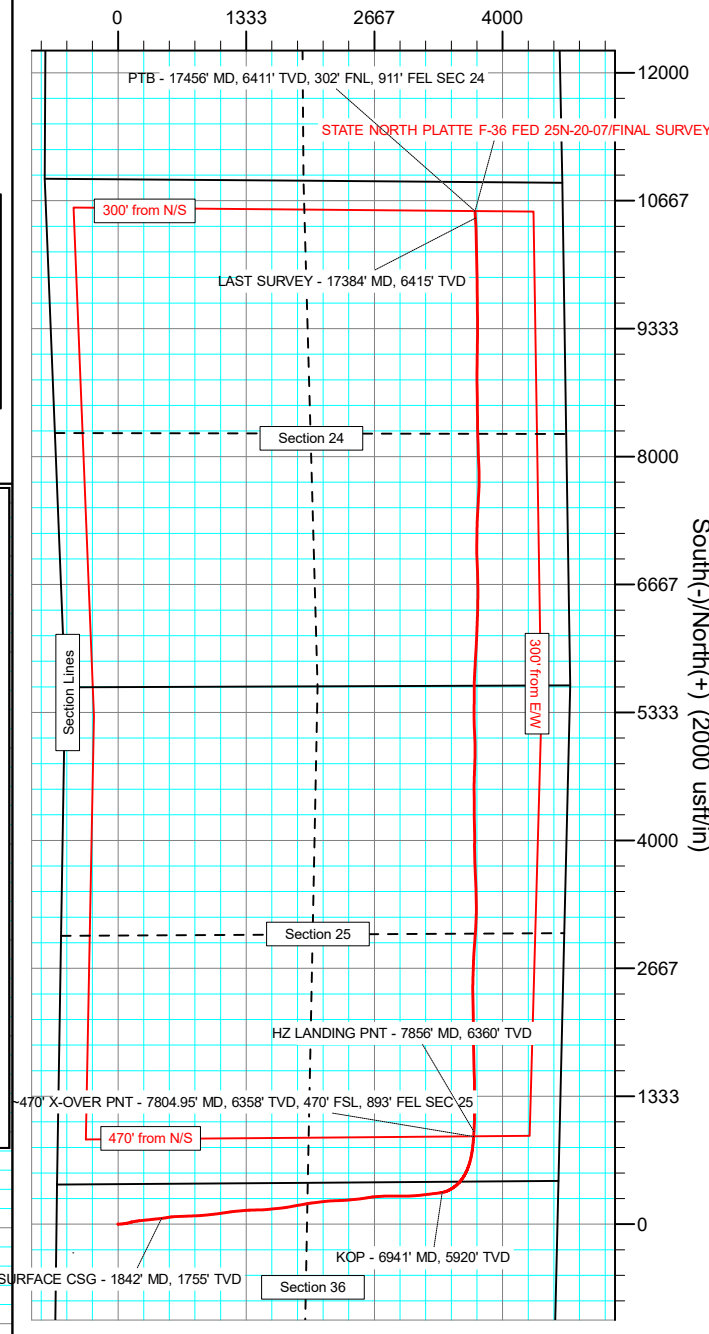
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
1842.00	28.59	83.00	1754.84	60.05	453.19	207.03	461.35	SURFACE CSG - 1842' MD, 1755' TVD
6941.00	34.02	78.94	5919.79	330.51	3370.84	1430.32	3396.04	KOP - 6941' MD, 5920' TVD
7804.95	84.84	3.96	6357.83	913.97	3698.29	2089.39	4118.03	~470' X-OVER PNT - 7804.95' MD, 6358' TVD, 470' FSL, 893' FEL SEC 25
7856.00	88.49	3.37	6360.40	964.85	3701.50	2138.45	4168.83	HZ LANDING PNT - 7856' MD, 6360' TVD
17384.00	93.01	357.05	6415.27	10486.00	3717.53	11125.44	13694.35	LAST SURVEY - 17384' MD, 6415' TVD
17456.00	93.01	357.05	6411.49	10557.80	3713.83	11191.95	13766.25	PTB - 17456' MD, 6411' TVD, 302' FNL, 911' FEL SEC 24

SHL:
418' FNL, 641' FEL
Sec 36-T5N-R63W
~470' TPZ X-OVER PNT:
470' FSL, 893' FEL
Sec 25-T5N-R63W
~300' BHL X-OVER PNT:
302' FNL, 911' FEL
Sec 24-T5N-R63W



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



South(-)/North(+) (2000 usft/in)

Civitas Resources

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE NORTH PLATTE F-36 FED 25N-20-07
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4569.00usft
Site:	SEC 36-T5N-R63W	MD Reference:	KB 25' @ 4569.00usft
Well:	STATE NORTH PLATTE F-36 FED 25N-20-07	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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 36-T5N-R63W			
Site Position:		Northing:	1,377,067.46 usft	Latitude:	40.363175°N
From:	Lat/Long	Easting:	3,308,212.41 usft	Longitude:	104.393926°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.71 °

Well	STATE NORTH PLATTE F-36 FED 25N-20-07					
Well Position	+N/-S	0.00 usft	Northing:	1,376,662.31 usft	Latitude:	40.362041°N
	+E/-W	0.00 usft	Easting:	3,308,852.87 usft	Longitude:	104.391646°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,544.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/17/2024	7.35	66.56	51,675.10956762

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	19.38	

Survey Program	Date	4/23/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
128.00	1,781.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,941.00	17,456.00	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	
128.00	0.45	280.26	128.00	0.09	-0.49	-0.08	0.35	0.35	0.00	
218.00	0.73	278.13	217.99	0.23	-1.41	-0.25	0.31	0.31	-2.37	
308.00	1.50	77.29	307.99	0.57	-0.83	0.27	2.44	0.86	176.84	
398.00	4.30	90.02	397.86	0.83	3.70	2.01	3.17	3.11	14.14	
488.00	7.35	90.25	487.39	0.81	12.83	5.02	3.39	3.39	0.26	
583.00	8.62	86.08	581.46	1.27	26.01	9.82	1.47	1.34	-4.39	
678.00	9.78	84.38	675.24	2.54	41.14	16.05	1.25	1.22	-1.79	
772.00	10.31	82.21	767.80	4.46	57.42	23.27	0.69	0.56	-2.31	

Civitas Resources

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Site:	SEC 36-T5N-R63W	MD Reference:	KB 25' @ 4569.00usft
Well:	STATE NORTH PLATTE F-36 FED 25N-20-07	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)
867.00	13.38	81.18	860.77	7.30	76.71	32.34	3.24	3.23	-1.08
961.00	16.90	77.58	951.49	11.91	100.81	44.69	3.87	3.74	-3.83
1,055.00	17.70	73.41	1,041.24	18.93	127.85	60.28	1.57	0.85	-4.44
1,150.00	19.72	79.65	1,131.23	25.93	157.46	76.72	2.99	2.13	6.57
1,245.00	21.11	80.84	1,220.26	31.54	190.12	92.84	1.53	1.46	1.25
1,338.00	24.09	84.54	1,306.11	36.01	225.56	108.82	3.55	3.20	3.98
1,433.00	24.73	82.70	1,392.62	40.38	264.57	125.88	1.05	0.67	-1.94
1,528.00	27.01	85.22	1,478.10	44.70	305.78	143.64	2.66	2.40	2.65
1,622.00	26.53	82.95	1,562.02	49.06	347.89	161.72	1.20	-0.51	-2.41
1,717.00	29.71	84.26	1,645.80	54.02	392.38	181.16	3.41	3.35	1.38
1,781.00	29.37	85.00	1,701.48	56.97	423.80	194.37	0.78	-0.53	1.16
1,842.00	28.59	83.00	1,754.84	60.05	453.19	207.03	2.04	-1.28	-3.27
SURFACE CSG - 1842' MD, 1755' TVD									
1,941.00	27.39	79.55	1,842.27	67.07	499.10	228.89	2.04	-1.21	-3.49
2,035.00	28.78	81.74	1,925.20	74.24	542.76	250.14	1.84	1.48	2.33
2,130.00	32.85	87.63	2,006.79	78.60	591.16	270.31	5.33	4.28	6.20
2,224.00	36.52	87.59	2,084.07	80.83	644.60	290.15	3.90	3.90	-0.04
2,319.00	36.00	87.51	2,160.67	83.23	700.74	311.04	0.55	-0.55	-0.08
2,413.00	36.89	87.95	2,236.29	85.44	756.53	331.64	0.99	0.95	0.47
2,507.00	36.11	87.79	2,311.85	87.52	812.41	352.14	0.84	-0.83	-0.17
2,624.00	37.36	84.71	2,405.62	92.12	882.21	379.65	1.90	1.07	-2.63
2,719.00	36.74	84.32	2,481.44	97.59	939.19	403.71	0.70	-0.65	-0.41
2,813.00	36.36	83.12	2,556.96	103.71	994.83	427.95	0.86	-0.40	-1.28
2,908.00	36.10	82.46	2,633.59	110.76	1,050.53	453.08	0.49	-0.27	-0.69
3,002.00	35.37	81.54	2,709.89	118.39	1,104.90	478.32	0.96	-0.78	-0.98
3,097.00	34.60	80.92	2,787.73	126.69	1,158.73	504.02	0.89	-0.81	-0.65
3,192.00	35.62	84.93	2,865.45	133.40	1,212.93	528.33	2.65	1.07	4.22
3,286.00	34.88	84.67	2,942.21	138.31	1,266.96	550.89	0.80	-0.79	-0.28
3,381.00	33.04	84.79	3,021.01	143.19	1,319.80	573.02	1.94	-1.94	0.13
3,474.00	35.63	88.30	3,097.80	146.30	1,372.14	593.32	3.50	2.78	3.77
3,568.00	34.01	88.44	3,174.97	147.82	1,425.79	612.57	1.73	-1.72	0.15
3,662.00	32.03	89.45	3,253.78	148.78	1,477.00	630.46	2.19	-2.11	1.07
3,756.00	36.35	85.44	3,331.53	151.23	1,529.73	650.27	5.18	4.60	-4.27
3,851.00	38.03	84.24	3,407.21	156.41	1,586.91	674.13	1.93	1.77	-1.26
3,945.00	38.62	84.15	3,480.95	162.31	1,644.90	698.94	0.63	0.63	-0.10
4,040.00	39.00	83.53	3,554.98	168.70	1,704.10	724.61	0.57	0.40	-0.65
4,134.00	38.27	79.80	3,628.41	177.18	1,762.15	751.88	2.60	-0.78	-3.97
4,229.00	37.13	79.78	3,703.58	187.48	1,819.32	780.57	1.20	-1.20	-0.02
4,323.00	35.98	80.31	3,779.09	197.16	1,874.46	808.00	1.27	-1.22	0.56
4,418.00	35.19	80.15	3,856.35	206.54	1,928.94	834.92	0.84	-0.83	-0.17
4,512.00	33.62	79.88	3,933.90	215.75	1,981.25	860.96	1.68	-1.67	-0.29
4,607.00	34.77	83.38	4,012.48	223.50	2,034.06	885.79	2.40	1.21	3.68

Civitas Resources

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)
4,701.00	34.26	83.36	4,089.94	229.65	2,086.96	909.15	0.54	-0.54	-0.02
4,796.00	33.80	83.02	4,168.67	235.95	2,139.75	932.61	0.52	-0.48	-0.36
4,891.00	34.01	85.50	4,247.52	241.24	2,192.47	955.10	1.47	0.22	2.61
4,985.00	34.23	88.42	4,325.34	244.04	2,245.11	975.20	1.76	0.23	3.11
5,080.00	31.58	87.57	4,405.09	245.83	2,296.68	994.01	2.83	-2.79	-0.89
5,174.00	34.59	86.81	4,483.85	248.36	2,347.92	1,013.40	3.23	3.20	-0.81
5,269.00	36.81	84.30	4,560.99	252.68	2,403.18	1,035.81	2.80	2.34	-2.64
5,363.00	39.06	85.01	4,635.13	258.06	2,460.71	1,059.97	2.44	2.39	0.76
5,553.00	39.61	80.49	4,782.11	273.28	2,580.11	1,113.95	1.54	0.29	-2.38
5,647.00	37.54	81.93	4,855.60	282.25	2,638.02	1,141.63	2.40	-2.20	1.53
5,742.00	34.55	86.93	4,932.42	287.76	2,693.60	1,165.27	4.41	-3.15	5.26
5,836.00	32.76	86.05	5,010.66	290.94	2,745.60	1,185.52	1.97	-1.90	-0.94
5,931.00	30.96	88.54	5,091.35	293.33	2,795.67	1,204.40	2.35	-1.89	2.62
6,026.00	33.20	90.40	5,171.84	293.77	2,846.12	1,221.55	2.58	2.36	1.96
6,121.00	34.46	89.88	5,250.75	293.65	2,899.00	1,238.98	1.36	1.33	-0.55
6,216.00	35.41	92.60	5,328.64	292.45	2,953.38	1,255.90	1.92	1.00	2.86
6,310.00	36.06	87.40	5,404.96	292.47	3,008.24	1,274.12	3.30	0.69	-5.53
6,405.00	33.95	86.50	5,482.77	295.36	3,062.65	1,294.91	2.29	-2.22	-0.95
6,499.00	35.74	85.32	5,559.91	299.20	3,116.22	1,316.31	2.03	1.90	-1.26
6,594.00	36.03	83.24	5,636.89	304.76	3,171.62	1,339.93	1.32	0.31	-2.19
6,689.00	35.66	82.75	5,713.89	311.54	3,226.83	1,364.65	0.49	-0.39	-0.52
6,783.00	35.56	83.35	5,790.32	318.16	3,281.16	1,388.92	0.39	-0.11	0.64
6,878.00	34.99	82.69	5,867.87	324.83	3,335.62	1,413.28	0.72	-0.60	-0.69
6,941.00	34.02	78.94	5,919.79	330.51	3,370.84	1,430.32	3.70	-1.54	-5.95
KOP - 6941' MD, 5920' TVD									
6,973.00	33.57	76.97	5,946.39	334.22	3,388.24	1,439.60	3.70	-1.40	-6.17
7,067.00	44.45	63.28	6,019.46	354.98	3,443.23	1,477.43	14.71	11.57	-14.56
7,162.00	51.75	52.30	6,082.96	392.86	3,502.63	1,532.88	11.52	7.68	-11.56
7,257.00	54.56	40.32	6,140.06	445.31	3,557.33	1,600.51	10.51	2.96	-12.61
7,352.00	59.38	29.74	6,191.93	510.48	3,602.76	1,677.06	10.62	5.07	-11.14
7,447.00	64.62	21.07	6,236.58	586.18	3,638.55	1,760.35	9.76	5.52	-9.13
7,541.00	64.77	14.18	6,276.80	667.11	3,664.25	1,845.22	6.63	0.16	-7.33
7,636.00	66.80	8.81	6,315.79	751.97	3,681.48	1,930.99	5.58	2.14	-5.65
7,731.00	76.37	5.27	6,345.77	841.32	3,692.43	2,018.91	10.67	10.07	-3.73
7,804.95	84.84	3.96	6,357.83	913.97	3,698.29	2,089.39	11.58	11.45	-1.77
~470' X-OVER PNT - 7804.95' MD, 6358' TVD, 470' FSL, 893' FEL SEC 25									
7,826.00	87.25	3.60	6,359.28	934.92	3,699.68	2,109.61	11.58	11.46	-1.73
7,856.00	88.49	3.37	6,360.40	964.85	3,701.50	2,138.45	4.21	4.14	-0.77
HZ LANDING PNT - 7856' MD, 6360' TVD									
7,920.00	91.14	2.88	6,360.60	1,028.74	3,704.99	2,199.88	4.21	4.14	-0.77
8,014.00	89.75	359.63	6,359.87	1,122.70	3,707.04	2,289.20	3.76	-1.48	-3.46
8,109.00	88.60	0.41	6,361.24	1,217.69	3,707.08	2,378.82	1.46	-1.21	0.82
8,204.00	89.31	0.51	6,362.97	1,312.67	3,707.84	2,468.67	0.75	0.75	0.11

Civitas Resources

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8,298.00	90.30	359.22	6,363.29	1,406.67	3,707.62	2,557.27	1.73	1.05	-1.37
8,394.00	91.44	359.01	6,361.84	1,502.64	3,706.14	2,647.31	1.21	1.19	-0.22
8,488.00	89.98	358.07	6,360.67	1,596.60	3,703.74	2,735.15	1.85	-1.55	-1.00
8,583.00	87.58	359.06	6,362.69	1,691.54	3,701.36	2,823.92	2.73	-2.53	1.04
8,678.00	89.16	358.14	6,365.40	1,786.47	3,699.04	2,912.70	1.92	1.66	-0.97
8,773.00	90.12	358.88	6,365.99	1,881.44	3,696.57	3,001.47	1.28	1.01	0.78
8,868.00	89.79	0.23	6,366.07	1,976.43	3,695.83	3,090.83	1.46	-0.35	1.42
8,962.00	86.51	359.20	6,369.10	2,070.37	3,695.37	3,179.29	3.66	-3.49	-1.10
9,057.00	87.07	359.50	6,374.42	2,165.21	3,694.29	3,268.41	0.67	0.59	0.32
9,152.00	88.37	359.22	6,378.20	2,260.13	3,693.23	3,357.59	1.40	1.37	-0.29
9,247.00	90.42	357.93	6,379.20	2,355.09	3,690.87	3,446.39	2.55	2.16	-1.36
9,342.00	89.82	0.40	6,379.01	2,450.07	3,689.49	3,535.53	2.68	-0.63	2.60
9,436.00	87.44	1.49	6,381.25	2,544.02	3,691.03	3,624.67	2.78	-2.53	1.16
9,531.00	88.06	2.12	6,384.98	2,638.90	3,694.02	3,715.17	0.93	0.65	0.66
9,625.00	89.35	1.70	6,387.11	2,732.82	3,697.16	3,804.81	1.44	1.37	-0.45
9,720.00	90.42	3.89	6,387.30	2,827.70	3,701.79	3,895.85	2.57	1.13	2.31
9,815.00	91.32	4.30	6,385.86	2,922.45	3,708.57	3,987.47	1.04	0.95	0.43
9,910.00	92.39	4.26	6,382.78	3,017.13	3,715.66	4,079.14	1.13	1.13	-0.04
10,005.00	90.51	2.29	6,380.38	3,111.94	3,721.08	4,170.38	2.87	-1.98	-2.07
10,099.00	91.22	2.53	6,378.96	3,205.84	3,725.03	4,260.27	0.80	0.76	0.26
10,194.00	90.02	359.39	6,377.93	3,300.81	3,726.63	4,350.39	3.54	-1.26	-3.31
10,289.00	90.08	358.86	6,377.85	3,395.80	3,725.17	4,439.51	0.56	0.06	-0.56
10,384.00	89.87	358.04	6,377.89	3,490.76	3,722.61	4,528.24	0.89	-0.22	-0.86
10,479.00	89.95	357.32	6,378.04	3,585.68	3,718.76	4,616.51	0.76	0.08	-0.76
10,574.00	91.19	357.17	6,377.09	3,680.57	3,714.19	4,704.50	1.31	1.31	-0.16
10,668.00	90.72	358.76	6,375.52	3,774.49	3,710.86	4,792.00	1.76	-0.50	1.69
10,763.00	92.46	358.29	6,372.89	3,869.42	3,708.41	4,880.74	1.90	1.83	-0.49
10,857.00	90.45	1.18	6,370.50	3,963.37	3,707.98	4,969.22	3.74	-2.14	3.07
10,952.00	88.02	359.46	6,371.77	4,058.35	3,708.51	5,059.00	3.13	-2.56	-1.81
11,047.00	89.03	358.93	6,374.22	4,153.31	3,707.18	5,148.13	1.20	1.06	-0.56
11,141.00	89.97	358.33	6,375.04	4,247.28	3,704.93	5,236.03	1.19	1.00	-0.64
11,236.00	88.12	0.74	6,376.62	4,342.25	3,704.16	5,325.37	3.20	-1.95	2.54
11,330.00	88.79	359.44	6,379.15	4,436.21	3,704.30	5,414.05	1.56	0.71	-1.38
11,424.00	90.01	359.70	6,380.14	4,530.20	3,703.60	5,502.48	1.33	1.30	0.28
11,519.00	88.45	1.47	6,381.41	4,625.18	3,704.57	5,592.40	2.48	-1.64	1.86
11,613.00	90.36	2.23	6,382.39	4,719.12	3,707.60	5,682.03	2.19	2.03	0.81
11,708.00	87.65	1.98	6,384.04	4,814.04	3,711.09	5,772.72	2.86	-2.85	-0.26
11,802.00	86.86	0.34	6,388.54	4,907.91	3,712.99	5,861.90	1.93	-0.84	-1.74
11,897.00	87.72	358.63	6,393.03	5,002.79	3,712.14	5,951.13	2.01	0.91	-1.80
11,992.00	88.71	357.67	6,395.99	5,097.69	3,709.07	6,039.64	1.45	1.04	-1.01
12,086.00	89.85	357.06	6,397.17	5,191.59	3,704.75	6,126.77	1.38	1.21	-0.65
12,181.00	90.80	359.81	6,396.64	5,286.54	3,702.16	6,215.49	3.06	1.00	2.89
12,275.00	89.67	1.44	6,396.25	5,380.53	3,703.18	6,304.49	2.11	-1.20	1.73

Civitas Resources

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE NORTH PLATTE F-36 FED 25N-20-07
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4569.00usft
Site:	SEC 36-T5N-R63W	MD Reference:	KB 25' @ 4569.00usft
Well:	STATE NORTH PLATTE F-36 FED 25N-20-07	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)	
12,370.00	90.29	0.50	6,396.28	5,475.51	3,704.79	6,394.63	1.19	0.65	-0.99	
12,464.00	91.98	359.39	6,394.42	5,569.49	3,704.70	6,483.25	2.15	1.80	-1.18	
12,559.00	88.88	2.19	6,393.71	5,664.46	3,706.01	6,573.27	4.40	-3.26	2.95	
12,653.00	91.21	3.38	6,393.63	5,758.34	3,710.58	6,663.35	2.78	2.48	1.27	
12,748.00	88.44	3.11	6,393.92	5,853.17	3,715.96	6,754.59	2.93	-2.92	-0.28	
12,842.00	88.68	3.19	6,396.29	5,947.00	3,721.12	6,844.82	0.27	0.26	0.09	
12,937.00	89.37	2.99	6,397.90	6,041.85	3,726.24	6,935.99	0.76	0.73	-0.21	
13,032.00	90.99	2.38	6,397.60	6,136.74	3,730.69	7,026.98	1.82	1.71	-0.64	
13,126.00	87.51	1.74	6,398.84	6,230.66	3,734.07	7,116.70	3.76	-3.70	-0.68	
13,221.00	87.39	2.67	6,403.06	6,325.49	3,737.72	7,207.37	0.99	-0.13	0.98	
13,315.00	88.50	0.77	6,406.43	6,419.38	3,740.54	7,296.88	2.34	1.18	-2.02	
13,410.00	90.61	1.06	6,407.17	6,514.36	3,742.05	7,386.98	2.24	2.22	0.31	
13,505.00	92.13	0.51	6,404.90	6,609.32	3,743.36	7,476.99	1.70	1.60	-0.58	
13,599.00	89.25	357.81	6,403.77	6,703.29	3,741.98	7,565.18	4.20	-3.06	-2.87	
13,694.00	89.52	357.70	6,404.79	6,798.21	3,738.26	7,653.48	0.31	0.28	-0.12	
13,788.00	89.52	358.24	6,405.57	6,892.15	3,734.93	7,740.99	0.57	0.00	0.57	
13,883.00	91.89	357.95	6,404.41	6,987.08	3,731.77	7,829.50	2.51	2.49	-0.31	
13,978.00	90.16	0.94	6,402.71	7,082.05	3,730.85	7,918.78	3.64	-1.82	3.15	
14,073.00	91.09	0.87	6,401.67	7,177.03	3,732.35	8,008.88	0.98	0.98	-0.07	
14,167.00	89.50	1.42	6,401.19	7,271.01	3,734.23	8,098.15	1.79	-1.69	0.59	
14,262.00	91.29	2.69	6,400.53	7,365.94	3,737.64	8,188.84	2.31	1.88	1.34	
14,357.00	88.54	3.36	6,400.67	7,460.79	3,742.65	8,279.98	2.98	-2.89	0.71	
14,452.00	88.34	2.83	6,403.26	7,555.62	3,747.78	8,371.14	0.60	-0.21	-0.56	
14,547.00	88.48	3.06	6,405.89	7,650.46	3,752.65	8,462.22	0.28	0.15	0.24	
14,641.00	88.66	359.80	6,408.24	7,744.39	3,755.00	8,551.60	3.47	0.19	-3.47	
14,736.00	89.78	359.19	6,409.53	7,839.37	3,754.16	8,640.93	1.34	1.18	-0.64	
14,831.00	90.75	358.07	6,409.09	7,934.34	3,751.89	8,729.77	1.56	1.02	-1.18	
14,925.00	92.49	357.11	6,406.44	8,028.22	3,747.94	8,817.01	2.11	1.85	-1.02	
15,019.00	90.13	358.09	6,404.29	8,122.10	3,744.01	8,904.27	2.72	-2.51	1.04	
15,113.00	92.18	358.70	6,402.39	8,216.04	3,741.37	8,992.01	2.28	2.18	0.65	
15,208.00	90.35	358.85	6,400.30	8,310.99	3,739.34	9,080.91	1.93	-1.93	0.16	
15,303.00	88.44	359.89	6,401.30	8,405.97	3,738.30	9,170.16	2.29	-2.01	1.09	
15,397.00	88.91	359.45	6,403.47	8,499.95	3,737.76	9,258.63	0.68	0.50	-0.47	
15,492.00	90.41	359.28	6,404.04	8,594.94	3,736.70	9,347.89	1.59	1.58	-0.18	
15,587.00	91.90	359.42	6,402.12	8,689.91	3,735.63	9,437.12	1.58	1.57	0.15	
15,681.00	90.71	358.53	6,399.98	8,783.87	3,733.95	9,525.20	1.58	-1.27	-0.95	
15,775.00	88.51	0.55	6,400.62	8,877.85	3,733.19	9,613.61	3.18	-2.34	2.15	
15,870.00	89.60	0.53	6,402.19	8,972.83	3,734.09	9,703.51	1.15	1.15	-0.02	
15,965.00	87.94	1.64	6,404.23	9,067.79	3,735.88	9,793.68	2.10	-1.75	1.17	
16,059.00	87.85	0.56	6,407.68	9,161.71	3,737.69	9,882.87	1.15	-0.10	-1.15	
16,154.00	88.74	0.58	6,410.51	9,256.66	3,738.63	9,972.76	0.94	0.94	0.02	
16,249.00	90.21	359.83	6,411.38	9,351.65	3,738.97	10,062.48	1.74	1.55	-0.79	

Civitas Resources

Survey Report

Company:	BONANZA CREEK ENERGY	Local Co-ordinate Reference:	Well STATE NORTH PLATTE F-36 FED 25N-20-07
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4569.00usft
Site:	SEC 36-T5N-R63W	MD Reference:	KB 25' @ 4569.00usft
Well:	STATE NORTH PLATTE F-36 FED 25N-20-07	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)	
16,343.00	91.86	359.21	6,409.68	9,445.63	3,738.18	10,150.87	1.88	1.76	-0.66	
16,438.00	89.57	359.41	6,408.49	9,540.61	3,737.04	10,240.09	2.42	-2.41	0.21	
16,532.00	90.89	0.00	6,408.12	9,634.60	3,736.56	10,328.60	1.54	1.40	0.63	
16,627.00	89.61	358.83	6,407.70	9,729.59	3,735.59	10,417.89	1.83	-1.35	-1.23	
16,722.00	90.05	359.53	6,407.98	9,824.58	3,734.23	10,507.04	0.87	0.46	0.74	
16,816.00	87.64	358.75	6,409.88	9,918.55	3,732.82	10,595.21	2.69	-2.56	-0.83	
16,911.00	87.06	358.95	6,414.27	10,013.42	3,730.91	10,684.08	0.65	-0.61	0.21	
17,005.00	88.71	359.34	6,417.74	10,107.35	3,729.51	10,772.22	1.80	1.76	0.41	
17,100.00	88.74	358.76	6,419.85	10,202.31	3,727.94	10,861.28	0.61	0.03	-0.61	
17,195.00	90.16	358.34	6,420.77	10,297.27	3,725.53	10,950.06	1.56	1.49	-0.44	
17,289.00	91.74	357.45	6,419.21	10,391.19	3,722.08	11,037.52	1.93	1.68	-0.95	
17,384.00	93.01	357.05	6,415.27	10,486.00	3,717.53	11,125.44	1.40	1.34	-0.42	
LAST SURVEY - 17384' MD, 6415' TVD										
17,456.00	93.01	357.05	6,411.49	10,557.80	3,713.83	11,191.95	0.00	0.00	0.00	
PTB - 17456' MD, 6411' TVD, 302' FNL, 911' FEL SEC 24										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
LP-SNP F-36 FED 25N-I	0.00	0.00	6,370.00	913.97	3,699.31	1,377,622.41	3,312,540.32	40.364549°N		104.378371°W
- hit/miss target										
- Shape										
- actual wellpath misses target center by 12.16usft at 7805.86usft MD (6357.91 TVD, 914.87 N, 3698.35 E)										
- Point										
PBHL-SNP F-36 FED 25E	0.00	0.00	6,390.00	10,559.45	3,733.24	1,387,267.16	3,312,453.69	40.391025°N		104.378244°W
- actual wellpath misses target center by 29.01usft at 17456.00usft MD (6411.49 TVD, 10557.80 N, 3713.83 E)										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,842.00	1,754.84	60.05	453.19	SURFACE CSG - 1842' MD, 1755' TVD	
6,941.00	5,919.79	330.51	3,370.84	KOP - 6941' MD, 5920' TVD	
7,804.95	6,357.83	913.97	3,698.29	~470' X-OVER PNT - 7804.95' MD, 6358' TVD, 470' FSL, 893' FEL SEC 25	
7,856.00	6,360.40	964.85	3,701.50	HZ LANDING PNT - 7856' MD, 6360' TVD	
17,384.00	6,415.27	10,486.00	3,717.53	LAST SURVEY - 17384' MD, 6415' TVD	
17,456.00	6,411.49	10,557.80	3,713.83	PTB - 17456' MD, 6411' TVD, 302' FNL, 911' FEL SEC 24	

Checked By: _____ Approved By: _____ Date: _____