

BONANZA CREEK ENERGY

WELD COUNTY

SEC 5-T5N-R61W

PRONGHORN K-5 FED 32N-20-06

OWB

Plan: PROPOSAL 1

Standard Planning Report

22 July, 2024

Project: WELD COUNTY
Site: SEC 5-T5N-R61W
Well: PRONGHORN K-5 FED 32N-20-06
Wellbore: OWB
Design: PROPOSAL 1

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: 7.25°

Magnetic Field
Strength: 51701.4nT
Dip Angle: 66.63°
Date: 7/22/2024
Model: IGRF2020

WELL DETAILS: PRONGHORN K-5 FED 32N-20-06

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1404451.93	3353133.35	40.436688°N	104.231334°W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	419.88	4.40	63.74	419.66	3.73	7.56	2.00	63.74	4.04	
4	5546.23	4.40	63.74	5530.92	177.65	360.06	0.00	0.00	192.52	
5	6426.65	90.00	0.19	6083.00	750.14	400.01	10.00	-63.61	766.18	LP-PRONGHORN K-5 06
6	16028.23	90.00	0.19	6083.00	10351.66	432.41	0.00	0.00	10360.69	PBHL-PRONGHORN K-5 06

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	Start Build 2.00
419.88	4.40	63.74	419.66	3.73	7.56	4.04	8.43	Start 5126.35 hold at 419.88 MD
5546.23	4.40	63.74	5530.92	177.65	360.06	192.52	401.50	Start DLS 10.00 TFO -63.61
6426.65	90.00	0.19	6083.00	750.14	400.01	766.18	978.05	Start 9601.58 hold at 6426.65 MD
16028.23	90.00	0.19	6083.00	10351.66	432.41	10360.69	10579.63	TD at 16028.23

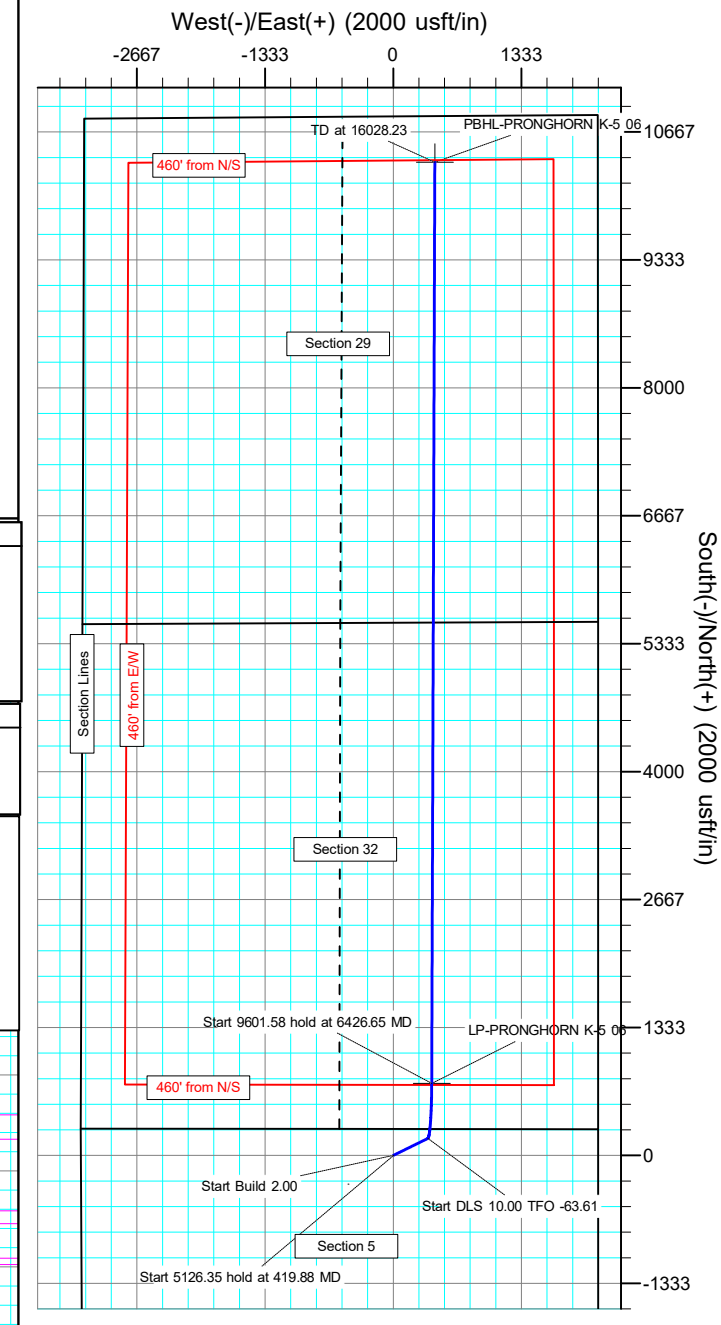
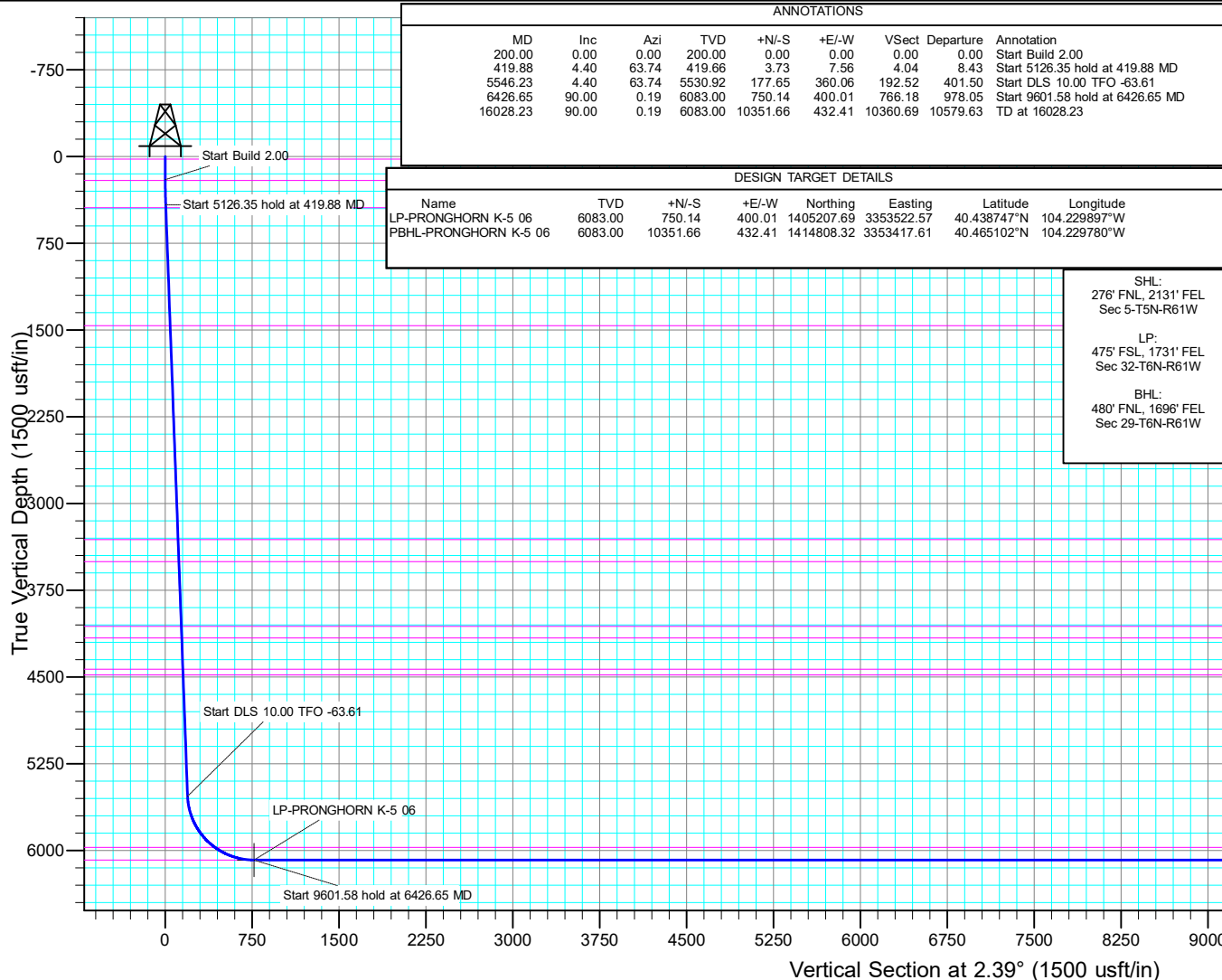
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP-PRONGHORN K-5 06	6083.00	750.14	400.01	1405207.69	3353522.57	40.438747°N	104.229897°W
PBHL-PRONGHORN K-5 06	6083.00	10351.66	432.41	1414808.32	3353417.61	40.465102°N	104.229780°W

SHL:
276' FNL, 2131' FEL
Sec 5-T5N-R61W

LP:
475' FSL, 1731' FEL
Sec 32-T6N-R61W

BHL:
480' FNL, 1696' FEL
Sec 29-T6N-R61W



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-06
Company:	BONANZA CREEK ENERGY	TVD Reference:	KB 25' @ 4684.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4684.00usft
Site:	SEC 5-T5N-R61W	North Reference:	True
Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

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 5-T5N-R61W		
Site Position:		Northing:	1,404,755.71 usft
From:	Lat/Long	Easting:	3,355,259.77 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	40.437438°N
		Longitude:	104.223680°W
		Grid Convergence:	0.82 °

Well	PRONGHORN K-5 FED 32N-20-06		
Well Position	+N/-S	-273.16 usft	Northing:
	+E/-W	-2,130.65 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	40.436688°N
		Longitude:	104.231334°W
		Ground Level:	4,659.00 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	7/22/2024	7.25
			Dip Angle
			(°)
			66.63
			Field Strength
			(nT)
			51,701.36877257

Design	PROPOSAL 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			2.39

Plan Survey Tool Program	Date	7/22/2024		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	16,028.23 PROPOSAL 1 (OWB)	MWD OWSG	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
419.88	4.40	63.74	419.66	3.73	7.56	2.00	2.00	0.00	63.74	
5,546.23	4.40	63.74	5,530.92	177.65	360.06	0.00	0.00	0.00	0.00	
6,426.65	90.00	0.19	6,083.00	750.14	400.01	10.00	9.72	-7.22	-63.61	LP-PRONGHORN K-5
16,028.23	90.00	0.19	6,083.00	10,351.66	432.41	0.00	0.00	0.00	0.00	PBHL-PRONGHORN

Civitas Resources

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Project:	WELD COUNTY	MD Reference:	KB 25' @ 4684.00usft
Site:	SEC 5-T5N-R61W	North Reference:	True
Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned 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
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
Laramie-Fox Hills Formation									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
208.00	0.16	63.74	208.00	0.00	0.01	0.01	2.00	2.00	0.00
Pierre Formation									
300.00	2.00	63.74	299.98	0.77	1.57	0.84	2.00	2.00	0.00
400.00	4.00	63.74	399.84	3.09	6.26	3.35	2.00	2.00	0.00
419.88	4.40	63.74	419.66	3.73	7.56	4.04	2.00	2.00	0.00
Start 5126.35 hold at 419.88 MD									
443.28	4.40	63.74	443.00	4.53	9.17	4.90	0.00	0.00	0.00
Upper Pierre aquifer									
500.00	4.40	63.74	499.55	6.45	13.07	6.99	0.00	0.00	0.00
600.00	4.40	63.74	599.25	9.84	19.95	10.67	0.00	0.00	0.00
700.00	4.40	63.74	698.96	13.24	26.83	14.34	0.00	0.00	0.00
800.00	4.40	63.74	798.67	16.63	33.70	18.02	0.00	0.00	0.00
900.00	4.40	63.74	898.37	20.02	40.58	21.70	0.00	0.00	0.00
1,000.00	4.40	63.74	998.08	23.41	47.45	25.37	0.00	0.00	0.00
1,100.00	4.40	63.74	1,097.78	26.81	54.33	29.05	0.00	0.00	0.00
1,200.00	4.40	63.74	1,197.49	30.20	61.21	32.73	0.00	0.00	0.00
1,300.00	4.40	63.74	1,297.19	33.59	68.08	36.40	0.00	0.00	0.00
1,400.00	4.40	63.74	1,396.90	36.98	74.96	40.08	0.00	0.00	0.00
1,466.30	4.40	63.74	1,463.00	39.23	79.52	42.52	0.00	0.00	0.00
Base of Upper Pierre aquifer									
1,500.00	4.40	63.74	1,496.60	40.38	81.84	43.76	0.00	0.00	0.00
1,600.00	4.40	63.74	1,596.31	43.77	88.71	47.43	0.00	0.00	0.00
1,700.00	4.40	63.74	1,696.02	47.16	95.59	51.11	0.00	0.00	0.00
1,800.00	4.40	63.74	1,795.72	50.55	102.46	54.79	0.00	0.00	0.00
1,900.00	4.40	63.74	1,895.43	53.95	109.34	58.46	0.00	0.00	0.00
2,000.00	4.40	63.74	1,995.13	57.34	116.22	62.14	0.00	0.00	0.00
2,100.00	4.40	63.74	2,094.84	60.73	123.09	65.82	0.00	0.00	0.00
2,200.00	4.40	63.74	2,194.54	64.13	129.97	69.49	0.00	0.00	0.00
2,300.00	4.40	63.74	2,294.25	67.52	136.84	73.17	0.00	0.00	0.00
2,400.00	4.40	63.74	2,393.95	70.91	143.72	76.85	0.00	0.00	0.00
2,500.00	4.40	63.74	2,493.66	74.30	150.60	80.52	0.00	0.00	0.00
2,600.00	4.40	63.74	2,593.37	77.70	157.47	84.20	0.00	0.00	0.00
2,700.00	4.40	63.74	2,693.07	81.09	164.35	87.88	0.00	0.00	0.00
2,800.00	4.40	63.74	2,792.78	84.48	171.23	91.55	0.00	0.00	0.00
2,900.00	4.40	63.74	2,892.48	87.87	178.10	95.23	0.00	0.00	0.00
3,000.00	4.40	63.74	2,992.19	91.27	184.98	98.91	0.00	0.00	0.00
3,100.00	4.40	63.74	3,091.89	94.66	191.85	102.58	0.00	0.00	0.00
3,200.00	4.40	63.74	3,191.60	98.05	198.73	106.26	0.00	0.00	0.00
3,300.00	4.40	63.74	3,291.31	101.44	205.61	109.94	0.00	0.00	0.00
3,321.76	4.40	63.74	3,313.00	102.18	207.10	110.74	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
3,400.00	4.40	63.74	3,391.01	104.84	212.48	113.61	0.00	0.00	0.00
3,500.00	4.40	63.74	3,490.72	108.23	219.36	117.29	0.00	0.00	0.00
3,512.32	4.40	63.74	3,503.00	108.65	220.21	117.74	0.00	0.00	0.00
Pierre Formation									
3,600.00	4.40	63.74	3,590.42	111.62	226.24	120.97	0.00	0.00	0.00
3,700.00	4.40	63.74	3,690.13	115.01	233.11	124.64	0.00	0.00	0.00

Civitas Resources

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Project:	WELD COUNTY	MD Reference:	KB 25' @ 4684.00usft
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Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned 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)
3,800.00	4.40	63.74	3,789.83	118.41	239.99	128.32	0.00	0.00	0.00
3,900.00	4.40	63.74	3,889.54	121.80	246.86	132.00	0.00	0.00	0.00
4,000.00	4.40	63.74	3,989.24	125.19	253.74	135.67	0.00	0.00	0.00
4,073.97	4.40	63.74	4,063.00	127.70	258.83	138.39	0.00	0.00	0.00
Terry ("Sussex") sandstone									
4,100.00	4.40	63.74	4,088.95	128.59	260.62	139.35	0.00	0.00	0.00
4,174.27	4.40	63.74	4,163.00	131.11	265.72	142.08	0.00	0.00	0.00
Pierre Formation									
4,200.00	4.40	63.74	4,188.66	131.98	267.49	143.03	0.00	0.00	0.00
4,300.00	4.40	63.74	4,288.36	135.37	274.37	146.70	0.00	0.00	0.00
4,400.00	4.40	63.74	4,388.07	138.76	281.25	150.38	0.00	0.00	0.00
4,445.07	4.40	63.74	4,433.00	140.29	284.34	152.04	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
4,495.21	4.40	63.74	4,483.00	141.99	287.79	153.88	0.00	0.00	0.00
Pierre Formation									
4,500.00	4.40	63.74	4,487.77	142.16	288.12	154.06	0.00	0.00	0.00
4,600.00	4.40	63.74	4,587.48	145.55	295.00	157.73	0.00	0.00	0.00
4,700.00	4.40	63.74	4,687.18	148.94	301.87	161.41	0.00	0.00	0.00
4,800.00	4.40	63.74	4,786.89	152.33	308.75	165.09	0.00	0.00	0.00
4,900.00	4.40	63.74	4,886.59	155.73	315.63	168.76	0.00	0.00	0.00
5,000.00	4.40	63.74	4,986.30	159.12	322.50	172.44	0.00	0.00	0.00
5,100.00	4.40	63.74	5,086.01	162.51	329.38	176.12	0.00	0.00	0.00
5,200.00	4.40	63.74	5,185.71	165.90	336.26	179.79	0.00	0.00	0.00
5,300.00	4.40	63.74	5,285.42	169.30	343.13	183.47	0.00	0.00	0.00
5,400.00	4.40	63.74	5,385.12	172.69	350.01	187.15	0.00	0.00	0.00
5,500.00	4.40	63.74	5,484.83	176.08	356.88	190.82	0.00	0.00	0.00
5,546.23	4.40	63.74	5,530.92	177.65	360.06	192.52	0.00	0.00	0.00
Start DLS 10.00 TFO -63.61									
5,550.00	4.58	59.50	5,534.68	177.79	360.32	192.67	10.00	4.77	-112.35
5,600.00	8.32	28.28	5,584.37	181.99	363.76	197.02	10.00	7.49	-62.45
5,650.00	12.94	17.63	5,633.50	190.52	367.17	205.68	10.00	9.24	-21.29
5,700.00	17.76	12.60	5,681.71	203.30	370.53	218.59	10.00	9.65	-10.06
5,750.00	22.66	9.68	5,728.61	220.25	373.82	235.66	10.00	9.80	-5.84
5,800.00	27.60	7.76	5,773.87	241.24	377.00	256.76	10.00	9.87	-3.84
5,850.00	32.55	6.39	5,817.13	266.09	380.07	281.72	10.00	9.91	-2.75
5,900.00	37.51	5.34	5,858.06	294.63	382.98	310.36	10.00	9.93	-2.09
5,950.00	42.48	4.50	5,896.35	326.64	385.73	342.46	10.00	9.94	-1.67
6,000.00	47.46	3.82	5,931.71	361.88	388.28	377.77	10.00	9.95	-1.38
6,050.00	52.44	3.23	5,963.87	400.07	390.62	416.02	10.00	9.96	-1.17
6,065.23	53.96	3.07	5,973.00	412.25	391.29	428.22	10.00	9.96	-1.07
Sharon Springs Member									
6,100.00	57.42	2.71	5,992.59	440.92	392.74	456.93	10.00	9.97	-1.01
6,150.00	62.41	2.26	6,017.65	484.13	394.61	500.18	10.00	9.97	-0.92
6,200.00	67.39	1.84	6,038.86	529.37	396.22	545.44	10.00	9.97	-0.84
6,250.00	72.38	1.45	6,056.05	576.28	397.56	592.37	10.00	9.97	-0.78
6,300.00	77.37	1.08	6,069.09	624.52	398.62	640.61	10.00	9.97	-0.74
6,350.00	82.35	0.72	6,077.89	673.72	399.40	689.80	10.00	9.98	-0.71
6,400.00	87.34	0.38	6,082.38	723.50	399.87	739.56	10.00	9.98	-0.69
6,426.65	90.00	0.19	6,083.00	750.14	400.01	766.18	10.00	9.98	-0.69
Start 9601.58 hold at 6426.65 MD - Niobrara Formation									
6,500.00	90.00	0.19	6,083.00	823.49	400.25	839.48	0.00	0.00	0.00
6,600.00	90.00	0.19	6,083.00	923.49	400.59	939.40	0.00	0.00	0.00
6,700.00	90.00	0.19	6,083.00	1,023.49	400.93	1,039.33	0.00	0.00	0.00

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Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned 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)	
6,800.00	90.00	0.19	6,083.00	1,123.49	401.27	1,139.26	0.00	0.00	0.00	
6,900.00	90.00	0.19	6,083.00	1,223.49	401.60	1,239.18	0.00	0.00	0.00	
7,000.00	90.00	0.19	6,083.00	1,323.49	401.94	1,339.11	0.00	0.00	0.00	
7,100.00	90.00	0.19	6,083.00	1,423.49	402.28	1,439.03	0.00	0.00	0.00	
7,200.00	90.00	0.19	6,083.00	1,523.48	402.62	1,538.96	0.00	0.00	0.00	
7,300.00	90.00	0.19	6,083.00	1,623.48	402.95	1,638.89	0.00	0.00	0.00	
7,400.00	90.00	0.19	6,083.00	1,723.48	403.29	1,738.81	0.00	0.00	0.00	
7,500.00	90.00	0.19	6,083.00	1,823.48	403.63	1,838.74	0.00	0.00	0.00	
7,600.00	90.00	0.19	6,083.00	1,923.48	403.97	1,938.67	0.00	0.00	0.00	
7,700.00	90.00	0.19	6,083.00	2,023.48	404.30	2,038.59	0.00	0.00	0.00	
7,800.00	90.00	0.19	6,083.00	2,123.48	404.64	2,138.52	0.00	0.00	0.00	
7,900.00	90.00	0.19	6,083.00	2,223.48	404.98	2,238.45	0.00	0.00	0.00	
8,000.00	90.00	0.19	6,083.00	2,323.48	405.31	2,338.37	0.00	0.00	0.00	
8,100.00	90.00	0.19	6,083.00	2,423.48	405.65	2,438.30	0.00	0.00	0.00	
8,200.00	90.00	0.19	6,083.00	2,523.48	405.99	2,538.22	0.00	0.00	0.00	
8,300.00	90.00	0.19	6,083.00	2,623.48	406.33	2,638.15	0.00	0.00	0.00	
8,400.00	90.00	0.19	6,083.00	2,723.48	406.66	2,738.08	0.00	0.00	0.00	
8,500.00	90.00	0.19	6,083.00	2,823.48	407.00	2,838.00	0.00	0.00	0.00	
8,600.00	90.00	0.19	6,083.00	2,923.48	407.34	2,937.93	0.00	0.00	0.00	
8,700.00	90.00	0.19	6,083.00	3,023.48	407.68	3,037.86	0.00	0.00	0.00	
8,800.00	90.00	0.19	6,083.00	3,123.48	408.01	3,137.78	0.00	0.00	0.00	
8,900.00	90.00	0.19	6,083.00	3,223.48	408.35	3,237.71	0.00	0.00	0.00	
9,000.00	90.00	0.19	6,083.00	3,323.47	408.69	3,337.64	0.00	0.00	0.00	
9,100.00	90.00	0.19	6,083.00	3,423.47	409.03	3,437.56	0.00	0.00	0.00	
9,200.00	90.00	0.19	6,083.00	3,523.47	409.36	3,537.49	0.00	0.00	0.00	
9,300.00	90.00	0.19	6,083.00	3,623.47	409.70	3,637.41	0.00	0.00	0.00	
9,400.00	90.00	0.19	6,083.00	3,723.47	410.04	3,737.34	0.00	0.00	0.00	
9,500.00	90.00	0.19	6,083.00	3,823.47	410.38	3,837.27	0.00	0.00	0.00	
9,600.00	90.00	0.19	6,083.00	3,923.47	410.71	3,937.19	0.00	0.00	0.00	
9,700.00	90.00	0.19	6,083.00	4,023.47	411.05	4,037.12	0.00	0.00	0.00	
9,800.00	90.00	0.19	6,083.00	4,123.47	411.39	4,137.05	0.00	0.00	0.00	
9,900.00	90.00	0.19	6,083.00	4,223.47	411.73	4,236.97	0.00	0.00	0.00	
10,000.00	90.00	0.19	6,083.00	4,323.47	412.06	4,336.90	0.00	0.00	0.00	
10,100.00	90.00	0.19	6,083.00	4,423.47	412.40	4,436.83	0.00	0.00	0.00	
10,200.00	90.00	0.19	6,083.00	4,523.47	412.74	4,536.75	0.00	0.00	0.00	
10,300.00	90.00	0.19	6,083.00	4,623.47	413.08	4,636.68	0.00	0.00	0.00	
10,400.00	90.00	0.19	6,083.00	4,723.47	413.41	4,736.61	0.00	0.00	0.00	
10,500.00	90.00	0.19	6,083.00	4,823.47	413.75	4,836.53	0.00	0.00	0.00	
10,600.00	90.00	0.19	6,083.00	4,923.47	414.09	4,936.46	0.00	0.00	0.00	
10,700.00	90.00	0.19	6,083.00	5,023.47	414.43	5,036.38	0.00	0.00	0.00	
10,800.00	90.00	0.19	6,083.00	5,123.46	414.76	5,136.31	0.00	0.00	0.00	
10,900.00	90.00	0.19	6,083.00	5,223.46	415.10	5,236.24	0.00	0.00	0.00	
11,000.00	90.00	0.19	6,083.00	5,323.46	415.44	5,336.16	0.00	0.00	0.00	
11,100.00	90.00	0.19	6,083.00	5,423.46	415.78	5,436.09	0.00	0.00	0.00	
11,200.00	90.00	0.19	6,083.00	5,523.46	416.11	5,536.02	0.00	0.00	0.00	
11,300.00	90.00	0.19	6,083.00	5,623.46	416.45	5,635.94	0.00	0.00	0.00	
11,400.00	90.00	0.19	6,083.00	5,723.46	416.79	5,735.87	0.00	0.00	0.00	
11,500.00	90.00	0.19	6,083.00	5,823.46	417.13	5,835.80	0.00	0.00	0.00	
11,600.00	90.00	0.19	6,083.00	5,923.46	417.46	5,935.72	0.00	0.00	0.00	
11,700.00	90.00	0.19	6,083.00	6,023.46	417.80	6,035.65	0.00	0.00	0.00	
11,800.00	90.00	0.19	6,083.00	6,123.46	418.14	6,135.57	0.00	0.00	0.00	
11,900.00	90.00	0.19	6,083.00	6,223.46	418.48	6,235.50	0.00	0.00	0.00	
12,000.00	90.00	0.19	6,083.00	6,323.46	418.81	6,335.43	0.00	0.00	0.00	
12,100.00	90.00	0.19	6,083.00	6,423.46	419.15	6,435.35	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-06
Company:	BONANZA CREEK ENERGY	TVD Reference:	KB 25' @ 4684.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4684.00usft
Site:	SEC 5-T5N-R61W	North Reference:	True
Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned 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)
12,200.00	90.00	0.19	6,083.00	6,523.46	419.49	6,535.28	0.00	0.00	0.00
12,300.00	90.00	0.19	6,083.00	6,623.46	419.83	6,635.21	0.00	0.00	0.00
12,400.00	90.00	0.19	6,083.00	6,723.46	420.16	6,735.13	0.00	0.00	0.00
12,500.00	90.00	0.19	6,083.00	6,823.45	420.50	6,835.06	0.00	0.00	0.00
12,600.00	90.00	0.19	6,083.00	6,923.45	420.84	6,934.99	0.00	0.00	0.00
12,700.00	90.00	0.19	6,083.00	7,023.45	421.17	7,034.91	0.00	0.00	0.00
12,800.00	90.00	0.19	6,083.00	7,123.45	421.51	7,134.84	0.00	0.00	0.00
12,900.00	90.00	0.19	6,083.00	7,223.45	421.85	7,234.76	0.00	0.00	0.00
13,000.00	90.00	0.19	6,083.00	7,323.45	422.19	7,334.69	0.00	0.00	0.00
13,100.00	90.00	0.19	6,083.00	7,423.45	422.52	7,434.62	0.00	0.00	0.00
13,200.00	90.00	0.19	6,083.00	7,523.45	422.86	7,534.54	0.00	0.00	0.00
13,300.00	90.00	0.19	6,083.00	7,623.45	423.20	7,634.47	0.00	0.00	0.00
13,400.00	90.00	0.19	6,083.00	7,723.45	423.54	7,734.40	0.00	0.00	0.00
13,500.00	90.00	0.19	6,083.00	7,823.45	423.87	7,834.32	0.00	0.00	0.00
13,600.00	90.00	0.19	6,083.00	7,923.45	424.21	7,934.25	0.00	0.00	0.00
13,700.00	90.00	0.19	6,083.00	8,023.45	424.55	8,034.18	0.00	0.00	0.00
13,800.00	90.00	0.19	6,083.00	8,123.45	424.89	8,134.10	0.00	0.00	0.00
13,900.00	90.00	0.19	6,083.00	8,223.45	425.22	8,234.03	0.00	0.00	0.00
14,000.00	90.00	0.19	6,083.00	8,323.45	425.56	8,333.96	0.00	0.00	0.00
14,100.00	90.00	0.19	6,083.00	8,423.45	425.90	8,433.88	0.00	0.00	0.00
14,200.00	90.00	0.19	6,083.00	8,523.45	426.24	8,533.81	0.00	0.00	0.00
14,300.00	90.00	0.19	6,083.00	8,623.44	426.57	8,633.73	0.00	0.00	0.00
14,400.00	90.00	0.19	6,083.00	8,723.44	426.91	8,733.66	0.00	0.00	0.00
14,500.00	90.00	0.19	6,083.00	8,823.44	427.25	8,833.59	0.00	0.00	0.00
14,600.00	90.00	0.19	6,083.00	8,923.44	427.59	8,933.51	0.00	0.00	0.00
14,700.00	90.00	0.19	6,083.00	9,023.44	427.92	9,033.44	0.00	0.00	0.00
14,800.00	90.00	0.19	6,083.00	9,123.44	428.26	9,133.37	0.00	0.00	0.00
14,900.00	90.00	0.19	6,083.00	9,223.44	428.60	9,233.29	0.00	0.00	0.00
15,000.00	90.00	0.19	6,083.00	9,323.44	428.94	9,333.22	0.00	0.00	0.00
15,100.00	90.00	0.19	6,083.00	9,423.44	429.27	9,433.15	0.00	0.00	0.00
15,200.00	90.00	0.19	6,083.00	9,523.44	429.61	9,533.07	0.00	0.00	0.00
15,300.00	90.00	0.19	6,083.00	9,623.44	429.95	9,633.00	0.00	0.00	0.00
15,400.00	90.00	0.19	6,083.00	9,723.44	430.29	9,732.92	0.00	0.00	0.00
15,500.00	90.00	0.19	6,083.00	9,823.44	430.62	9,832.85	0.00	0.00	0.00
15,600.00	90.00	0.19	6,083.00	9,923.44	430.96	9,932.78	0.00	0.00	0.00
15,700.00	90.00	0.19	6,083.00	10,023.44	431.30	10,032.70	0.00	0.00	0.00
15,800.00	90.00	0.19	6,083.00	10,123.44	431.64	10,132.63	0.00	0.00	0.00
15,900.00	90.00	0.19	6,083.00	10,223.44	431.97	10,232.56	0.00	0.00	0.00
16,000.00	90.00	0.19	6,083.00	10,323.44	432.31	10,332.48	0.00	0.00	0.00
16,028.23	90.00	0.19	6,083.00	10,351.66	432.41	10,360.69	0.00	0.00	0.00
TD at 16028.23									

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well PRONGHORN K-5 FED 32N-20-06
Company:	BONANZA CREEK ENERGY	TVD Reference:	KB 25' @ 4684.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4684.00usft
Site:	SEC 5-T5N-R61W	North Reference:	True
Well:	PRONGHORN K-5 FED 32N-20-06	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LP-PRONGHORN K-5 0	0.00	0.00	6,083.00	750.14	400.01	1,405,207.69	3,353,522.58	40.438747°N	104.229897°W
- plan hits target center									
- Point									
PBHL-PRONGHORN K-	0.00	0.00	6,083.00	10,351.66	432.41	1,414,808.33	3,353,417.62	40.465102°N	104.229780°W
- plan hits target center									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
24.00	24.00	Laramie-Fox Hills Formation			
208.00	208.00	Pierre Formation			
443.28	443.00	Upper Pierre aquifer			
1,466.30	1,463.00	Base of Upper Pierre aquifer			
3,321.76	3,313.00	Larimer ("Parkman") sandstone			
3,512.32	3,503.00	Pierre Formation			
4,073.97	4,063.00	Terry ("Sussex") sandstone			
4,174.27	4,163.00	Pierre Formation			
4,445.07	4,433.00	Hygiene ("Shannon") sandstone			
4,495.21	4,483.00	Pierre Formation			
6,065.23	5,973.00	Sharon Springs Member			
6,426.65	6,083.00	Niobrara Formation			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Start Build 2.00
419.88	419.66	3.73	7.56	Start 5126.35 hold at 419.88 MD
5,546.23	5,530.92	177.65	360.06	Start DLS 10.00 TFO -63.61
6,426.65	6,083.00	750.14	400.01	Start 9601.58 hold at 6426.65 MD
16,028.23	6,083.00	10,351.66	432.41	TD at 16028.23