

EXTRACTION OIL & GAS

**WELD COUNTY
SEC 28-T5N-66W
T-BONE 22N-20-07**

OWB

Plan: PROPOSAL 1

Standard Planning Report

21 July, 2025

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well T-BONE 22N-20-07
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4837.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4837.00usft
Site:	SEC 28-T5N-66W	North Reference:	True
Well:	T-BONE 22N-20-07	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		

Site	SEC 28-T5N-66W				
Site Position:		Northing:	1,375,980.59 usft	Latitude:	40.363261°N
From:	Lat/Long	Easting:	3,199,339.03 usft	Longitude:	104.784647°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.46 °

Well	T-BONE 22N-20-07					
Well Position	+N/-S	649.53 usft	Northing:	1,376,628.00 usft	Latitude:	40.365044°N
	+E/-W	-261.10 usft	Easting:	3,199,072.70 usft	Longitude:	104.785584°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,812.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/30/2025	7.48	66.47	51,551.64702093

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	17.29

Plan Survey Tool Program	Date	7/21/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,874.42 PROPOSAL 1 (OWB)	MWD OWSG		
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,684.13	47.52	47.44	1,508.63	419.48	456.78	3.00	3.00	0.00	47.44	
9,484.38	47.52	47.44	6,775.99	4,310.87	4,694.22	0.00	0.00	0.00	0.00	
10,085.77	90.00	359.90	7,000.00	4,808.09	4,873.82	10.00	7.06	-7.91	-58.29	LP-T-BONE 22N-20-C
20,874.42	90.00	359.90	7,000.00	15,596.72	4,854.15	0.00	0.00	0.00	0.00	PBHL-T-BONE 22N-2

Civitas Resources

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Project:	WELD COUNTY	MD Reference:	KB 25' @ 4837.00usft
Site:	SEC 28-T5N-66W	North Reference:	True
Well:	T-BONE 22N-20-07	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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
200.00	3.00	47.44	199.95	1.77	1.93	2.26	3.00	3.00	0.00
300.00	6.00	47.44	299.63	7.08	7.71	9.05	3.00	3.00	0.00
400.00	9.00	47.44	398.77	15.90	17.32	20.33	3.00	3.00	0.00
500.00	12.00	47.44	497.08	28.23	30.74	36.09	3.00	3.00	0.00
600.00	15.00	47.44	594.31	44.02	47.93	56.27	3.00	3.00	0.00
700.00	18.00	47.44	690.18	63.23	68.85	80.83	3.00	3.00	0.00
800.00	21.00	47.44	784.43	85.80	93.43	109.69	3.00	3.00	0.00
900.00	24.00	47.44	876.81	111.68	121.61	142.78	3.00	3.00	0.00
1,000.00	27.00	47.44	967.06	140.80	153.32	180.00	3.00	3.00	0.00
1,100.00	30.00	47.44	1,054.93	173.07	188.46	221.26	3.00	3.00	0.00
1,200.00	33.00	47.44	1,140.18	208.41	226.94	266.43	3.00	3.00	0.00
1,300.00	36.00	47.44	1,222.59	246.72	268.65	315.41	3.00	3.00	0.00
1,400.00	39.00	47.44	1,301.91	287.89	313.49	368.04	3.00	3.00	0.00
1,500.00	42.00	47.44	1,377.94	331.81	361.32	424.19	3.00	3.00	0.00
1,600.00	45.00	47.44	1,450.47	378.36	412.01	483.71	3.00	3.00	0.00
1,671.39	47.14	47.44	1,500.00	413.14	449.88	528.17	3.00	3.00	0.00
Base of Upper Pierre aquifer									
1,684.13	47.52	47.44	1,508.63	419.48	456.78	536.27	3.00	3.00	0.00
Start 7800.25 hold at 1684.13 MD									
1,700.00	47.52	47.44	1,519.35	427.39	465.40	546.39	0.00	0.00	0.00
1,800.00	47.52	47.44	1,586.88	477.28	519.72	610.17	0.00	0.00	0.00
1,900.00	47.52	47.44	1,654.41	527.17	574.05	673.94	0.00	0.00	0.00
2,000.00	47.52	47.44	1,721.93	577.06	628.37	737.72	0.00	0.00	0.00
2,100.00	47.52	47.44	1,789.46	626.95	682.70	801.50	0.00	0.00	0.00
2,200.00	47.52	47.44	1,856.99	676.83	737.02	865.28	0.00	0.00	0.00
2,300.00	47.52	47.44	1,924.52	726.72	791.34	929.06	0.00	0.00	0.00
2,400.00	47.52	47.44	1,992.05	776.61	845.67	992.83	0.00	0.00	0.00
2,500.00	47.52	47.44	2,059.57	826.50	899.99	1,056.61	0.00	0.00	0.00
2,600.00	47.52	47.44	2,127.10	876.39	954.32	1,120.39	0.00	0.00	0.00
2,700.00	47.52	47.44	2,194.63	926.27	1,008.64	1,184.17	0.00	0.00	0.00
2,800.00	47.52	47.44	2,262.16	976.16	1,062.97	1,247.94	0.00	0.00	0.00
2,900.00	47.52	47.44	2,329.69	1,026.05	1,117.29	1,311.72	0.00	0.00	0.00
3,000.00	47.52	47.44	2,397.22	1,075.94	1,171.62	1,375.50	0.00	0.00	0.00
3,100.00	47.52	47.44	2,464.74	1,125.83	1,225.94	1,439.28	0.00	0.00	0.00
3,200.00	47.52	47.44	2,532.27	1,175.71	1,280.26	1,503.06	0.00	0.00	0.00
3,300.00	47.52	47.44	2,599.80	1,225.60	1,334.59	1,566.83	0.00	0.00	0.00
3,400.00	47.52	47.44	2,667.33	1,275.49	1,388.91	1,630.61	0.00	0.00	0.00
3,500.00	47.52	47.44	2,734.86	1,325.38	1,443.24	1,694.39	0.00	0.00	0.00
3,600.00	47.52	47.44	2,802.38	1,375.27	1,497.56	1,758.17	0.00	0.00	0.00
3,700.00	47.52	47.44	2,869.91	1,425.16	1,551.89	1,821.95	0.00	0.00	0.00
3,800.00	47.52	47.44	2,937.44	1,475.04	1,606.21	1,885.72	0.00	0.00	0.00
3,900.00	47.52	47.44	3,004.97	1,524.93	1,660.53	1,949.50	0.00	0.00	0.00
4,000.00	47.52	47.44	3,072.50	1,574.82	1,714.86	2,013.28	0.00	0.00	0.00
4,100.00	47.52	47.44	3,140.02	1,624.71	1,769.18	2,077.06	0.00	0.00	0.00
4,200.00	47.52	47.44	3,207.55	1,674.60	1,823.51	2,140.84	0.00	0.00	0.00
4,300.00	47.52	47.44	3,275.08	1,724.48	1,877.83	2,204.61	0.00	0.00	0.00
4,400.00	47.52	47.44	3,342.61	1,774.37	1,932.16	2,268.39	0.00	0.00	0.00
4,500.00	47.52	47.44	3,410.14	1,824.26	1,986.48	2,332.17	0.00	0.00	0.00
4,600.00	47.52	47.44	3,477.66	1,874.15	2,040.81	2,395.95	0.00	0.00	0.00
4,700.00	47.52	47.44	3,545.19	1,924.04	2,095.13	2,459.73	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)	
4,800.00	47.52	47.44	3,612.72	1,973.92	2,149.45	2,523.50	0.00	0.00	0.00	
4,900.00	47.52	47.44	3,680.25	2,023.81	2,203.78	2,587.28	0.00	0.00	0.00	
5,000.00	47.52	47.44	3,747.78	2,073.70	2,258.10	2,651.06	0.00	0.00	0.00	
5,032.91	47.52	47.44	3,770.00	2,090.12	2,275.98	2,672.05	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
5,100.00	47.52	47.44	3,815.30	2,123.59	2,312.43	2,714.84	0.00	0.00	0.00	
5,151.38	47.52	47.44	3,850.00	2,149.22	2,340.34	2,747.61	0.00	0.00	0.00	
Larimer ("Parkman") sandstone Base										
5,200.00	47.52	47.44	3,882.83	2,173.48	2,366.75	2,778.62	0.00	0.00	0.00	
5,300.00	47.52	47.44	3,950.36	2,223.36	2,421.08	2,842.39	0.00	0.00	0.00	
5,400.00	47.52	47.44	4,017.89	2,273.25	2,475.40	2,906.17	0.00	0.00	0.00	
5,500.00	47.52	47.44	4,085.42	2,323.14	2,529.72	2,969.95	0.00	0.00	0.00	
5,600.00	47.52	47.44	4,152.95	2,373.03	2,584.05	3,033.73	0.00	0.00	0.00	
5,700.00	47.52	47.44	4,220.47	2,422.92	2,638.37	3,097.50	0.00	0.00	0.00	
5,800.00	47.52	47.44	4,288.00	2,472.81	2,692.70	3,161.28	0.00	0.00	0.00	
5,900.00	47.52	47.44	4,355.53	2,522.69	2,747.02	3,225.06	0.00	0.00	0.00	
5,995.47	47.52	47.44	4,420.00	2,570.32	2,798.89	3,285.95	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
6,000.00	47.52	47.44	4,423.06	2,572.58	2,801.35	3,288.84	0.00	0.00	0.00	
6,100.00	47.52	47.44	4,490.59	2,622.47	2,855.67	3,352.62	0.00	0.00	0.00	
6,150.96	47.52	47.44	4,525.00	2,647.89	2,883.36	3,385.12	0.00	0.00	0.00	
Terry ("Sussex") sandstone Base										
6,200.00	47.52	47.44	4,558.11	2,672.36	2,909.99	3,416.39	0.00	0.00	0.00	
6,300.00	47.52	47.44	4,625.64	2,722.25	2,964.32	3,480.17	0.00	0.00	0.00	
6,400.00	47.52	47.44	4,693.17	2,772.13	3,018.64	3,543.95	0.00	0.00	0.00	
6,500.00	47.52	47.44	4,760.70	2,822.02	3,072.97	3,607.73	0.00	0.00	0.00	
6,600.00	47.52	47.44	4,828.23	2,871.91	3,127.29	3,671.51	0.00	0.00	0.00	
6,700.00	47.52	47.44	4,895.75	2,921.80	3,181.62	3,735.28	0.00	0.00	0.00	
6,800.00	47.52	47.44	4,963.28	2,971.69	3,235.94	3,799.06	0.00	0.00	0.00	
6,817.35	47.52	47.44	4,975.00	2,980.34	3,245.37	3,810.13	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
6,900.00	47.52	47.44	5,030.81	3,021.57	3,290.27	3,862.84	0.00	0.00	0.00	
7,000.00	47.52	47.44	5,098.34	3,071.46	3,344.59	3,926.62	0.00	0.00	0.00	
7,100.00	47.52	47.44	5,165.87	3,121.35	3,398.91	3,990.40	0.00	0.00	0.00	
7,200.00	47.52	47.44	5,233.39	3,171.24	3,453.24	4,054.17	0.00	0.00	0.00	
7,298.63	47.52	47.44	5,300.00	3,220.45	3,506.82	4,117.08	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone Base										
7,300.00	47.52	47.44	5,300.92	3,221.13	3,507.56	4,117.95	0.00	0.00	0.00	
7,400.00	47.52	47.44	5,368.45	3,271.02	3,561.89	4,181.73	0.00	0.00	0.00	
7,500.00	47.52	47.44	5,435.98	3,320.90	3,616.21	4,245.51	0.00	0.00	0.00	
7,600.00	47.52	47.44	5,503.51	3,370.79	3,670.54	4,309.29	0.00	0.00	0.00	
7,700.00	47.52	47.44	5,571.03	3,420.68	3,724.86	4,373.06	0.00	0.00	0.00	
7,800.00	47.52	47.44	5,638.56	3,470.57	3,779.18	4,436.84	0.00	0.00	0.00	
7,900.00	47.52	47.44	5,706.09	3,520.46	3,833.51	4,500.62	0.00	0.00	0.00	
8,000.00	47.52	47.44	5,773.62	3,570.34	3,887.83	4,564.40	0.00	0.00	0.00	
8,100.00	47.52	47.44	5,841.15	3,620.23	3,942.16	4,628.18	0.00	0.00	0.00	
8,200.00	47.52	47.44	5,908.68	3,670.12	3,996.48	4,691.95	0.00	0.00	0.00	
8,300.00	47.52	47.44	5,976.20	3,720.01	4,050.81	4,755.73	0.00	0.00	0.00	
8,400.00	47.52	47.44	6,043.73	3,769.90	4,105.13	4,819.51	0.00	0.00	0.00	
8,500.00	47.52	47.44	6,111.26	3,819.78	4,159.46	4,883.29	0.00	0.00	0.00	
8,600.00	47.52	47.44	6,178.79	3,869.67	4,213.78	4,947.06	0.00	0.00	0.00	
8,700.00	47.52	47.44	6,246.32	3,919.56	4,268.10	5,010.84	0.00	0.00	0.00	
8,800.00	47.52	47.44	6,313.84	3,969.45	4,322.43	5,074.62	0.00	0.00	0.00	

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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)
8,900.00	47.52	47.44	6,381.37	4,019.34	4,376.75	5,138.40	0.00	0.00	0.00
9,000.00	47.52	47.44	6,448.90	4,069.22	4,431.08	5,202.18	0.00	0.00	0.00
9,100.00	47.52	47.44	6,516.43	4,119.11	4,485.40	5,265.95	0.00	0.00	0.00
9,200.00	47.52	47.44	6,583.96	4,169.00	4,539.73	5,329.73	0.00	0.00	0.00
9,300.00	47.52	47.44	6,651.48	4,218.89	4,594.05	5,393.51	0.00	0.00	0.00
9,400.00	47.52	47.44	6,719.01	4,268.78	4,648.37	5,457.29	0.00	0.00	0.00
9,484.38	47.52	47.44	6,775.99	4,310.87	4,694.22	5,511.11	0.00	0.00	0.00
Start DLS 10.00 TFO -58.29									
9,500.00	48.36	45.66	6,786.46	4,318.85	4,702.63	5,521.22	10.00	5.35	-11.38
9,550.00	51.20	40.27	6,818.75	4,346.79	4,728.60	5,555.62	10.00	5.69	-10.77
9,600.00	54.28	35.31	6,849.03	4,378.24	4,752.95	5,592.88	10.00	6.15	-9.92
9,650.00	57.54	30.74	6,877.07	4,412.95	4,775.47	5,632.72	10.00	6.52	-9.16
9,700.00	60.95	26.48	6,902.64	4,450.67	4,796.01	5,674.84	10.00	6.83	-8.50
9,715.42	62.03	25.23	6,910.00	4,462.86	4,801.92	5,688.24	10.00	7.00	-8.13
Sharon Springs									
9,750.00	64.49	22.51	6,925.56	4,491.10	4,814.41	5,718.91	10.00	7.11	-7.87
9,800.00	68.13	18.77	6,945.65	4,533.94	4,830.52	5,764.60	10.00	7.28	-7.49
9,850.00	71.85	15.21	6,962.76	4,578.86	4,844.23	5,811.56	10.00	7.44	-7.11
9,900.00	75.64	11.80	6,976.75	4,625.52	4,855.42	5,859.44	10.00	7.57	-6.81
9,950.00	79.47	8.51	6,987.53	4,673.57	4,864.02	5,907.87	10.00	7.66	-6.58
10,000.00	83.33	5.30	6,995.01	4,722.63	4,869.96	5,956.49	10.00	7.73	-6.42
10,050.00	87.22	2.14	6,999.13	4,772.34	4,873.19	6,004.91	10.00	7.77	-6.32
10,085.77	90.00	359.90	7,000.00	4,808.09	4,873.82	6,039.23	10.00	7.78	-6.28
Start 10788.65 hold at 10085.77 MD - Niobrara A Chalk									
10,100.00	90.00	359.90	7,000.00	4,822.32	4,873.80	6,052.81	0.00	0.00	0.00
10,200.00	90.00	359.90	7,000.00	4,922.32	4,873.62	6,148.24	0.00	0.00	0.00
10,300.00	90.00	359.90	7,000.00	5,022.32	4,873.44	6,243.67	0.00	0.00	0.00
10,400.00	90.00	359.90	7,000.00	5,122.32	4,873.26	6,339.10	0.00	0.00	0.00
10,500.00	90.00	359.90	7,000.00	5,222.32	4,873.08	6,434.53	0.00	0.00	0.00
10,600.00	90.00	359.90	7,000.00	5,322.32	4,872.90	6,529.95	0.00	0.00	0.00
10,700.00	90.00	359.90	7,000.00	5,422.32	4,872.72	6,625.38	0.00	0.00	0.00
10,800.00	90.00	359.90	7,000.00	5,522.32	4,872.54	6,720.81	0.00	0.00	0.00
10,900.00	90.00	359.90	7,000.00	5,622.32	4,872.36	6,816.24	0.00	0.00	0.00
11,000.00	90.00	359.90	7,000.00	5,722.31	4,872.18	6,911.67	0.00	0.00	0.00
11,100.00	90.00	359.90	7,000.00	5,822.31	4,872.00	7,007.10	0.00	0.00	0.00
11,200.00	90.00	359.90	7,000.00	5,922.31	4,871.82	7,102.53	0.00	0.00	0.00
11,300.00	90.00	359.90	7,000.00	6,022.31	4,871.64	7,197.96	0.00	0.00	0.00
11,400.00	90.00	359.90	7,000.00	6,122.31	4,871.46	7,293.39	0.00	0.00	0.00
11,500.00	90.00	359.90	7,000.00	6,222.31	4,871.28	7,388.81	0.00	0.00	0.00
11,600.00	90.00	359.90	7,000.00	6,322.31	4,871.10	7,484.24	0.00	0.00	0.00
11,700.00	90.00	359.90	7,000.00	6,422.31	4,870.92	7,579.67	0.00	0.00	0.00
11,800.00	90.00	359.90	7,000.00	6,522.31	4,870.74	7,675.10	0.00	0.00	0.00
11,900.00	90.00	359.90	7,000.00	6,622.31	4,870.56	7,770.53	0.00	0.00	0.00
12,000.00	90.00	359.90	7,000.00	6,722.31	4,870.38	7,865.96	0.00	0.00	0.00
12,100.00	90.00	359.90	7,000.00	6,822.31	4,870.20	7,961.39	0.00	0.00	0.00
12,200.00	90.00	359.90	7,000.00	6,922.31	4,870.02	8,056.82	0.00	0.00	0.00
12,300.00	90.00	359.90	7,000.00	7,022.31	4,869.84	8,152.24	0.00	0.00	0.00
12,400.00	90.00	359.90	7,000.00	7,122.31	4,869.66	8,247.67	0.00	0.00	0.00
12,500.00	90.00	359.90	7,000.00	7,222.31	4,869.48	8,343.10	0.00	0.00	0.00
12,600.00	90.00	359.90	7,000.00	7,322.31	4,869.30	8,438.53	0.00	0.00	0.00
12,700.00	90.00	359.90	7,000.00	7,422.31	4,869.12	8,533.96	0.00	0.00	0.00
12,800.00	90.00	359.90	7,000.00	7,522.31	4,868.94	8,629.39	0.00	0.00	0.00
12,900.00	90.00	359.90	7,000.00	7,622.31	4,868.76	8,724.82	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well T-BONE 22N-20-07
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4837.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4837.00usft
Site:	SEC 28-T5N-66W	North Reference:	True
Well:	T-BONE 22N-20-07	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)
13,000.00	90.00	359.90	7,000.00	7,722.31	4,868.58	8,820.25	0.00	0.00	0.00
13,100.00	90.00	359.90	7,000.00	7,822.31	4,868.40	8,915.68	0.00	0.00	0.00
13,200.00	90.00	359.90	7,000.00	7,922.31	4,868.22	9,011.10	0.00	0.00	0.00
13,300.00	90.00	359.90	7,000.00	8,022.31	4,868.04	9,106.53	0.00	0.00	0.00
13,400.00	90.00	359.90	7,000.00	8,122.31	4,867.86	9,201.96	0.00	0.00	0.00
13,500.00	90.00	359.90	7,000.00	8,222.31	4,867.68	9,297.39	0.00	0.00	0.00
13,600.00	90.00	359.90	7,000.00	8,322.31	4,867.50	9,392.82	0.00	0.00	0.00
13,700.00	90.00	359.90	7,000.00	8,422.31	4,867.32	9,488.25	0.00	0.00	0.00
13,800.00	90.00	359.90	7,000.00	8,522.31	4,867.14	9,583.68	0.00	0.00	0.00
13,900.00	90.00	359.90	7,000.00	8,622.31	4,866.96	9,679.11	0.00	0.00	0.00
14,000.00	90.00	359.90	7,000.00	8,722.31	4,866.78	9,774.53	0.00	0.00	0.00
14,100.00	90.00	359.90	7,000.00	8,822.31	4,866.60	9,869.96	0.00	0.00	0.00
14,200.00	90.00	359.90	7,000.00	8,922.31	4,866.42	9,965.39	0.00	0.00	0.00
14,300.00	90.00	359.90	7,000.00	9,022.31	4,866.24	10,060.82	0.00	0.00	0.00
14,400.00	90.00	359.90	7,000.00	9,122.31	4,866.06	10,156.25	0.00	0.00	0.00
14,500.00	90.00	359.90	7,000.00	9,222.31	4,865.88	10,251.68	0.00	0.00	0.00
14,600.00	90.00	359.90	7,000.00	9,322.31	4,865.70	10,347.11	0.00	0.00	0.00
14,700.00	90.00	359.90	7,000.00	9,422.31	4,865.52	10,442.54	0.00	0.00	0.00
14,800.00	90.00	359.90	7,000.00	9,522.31	4,865.34	10,537.97	0.00	0.00	0.00
14,900.00	90.00	359.90	7,000.00	9,622.31	4,865.16	10,633.39	0.00	0.00	0.00
15,000.00	90.00	359.90	7,000.00	9,722.31	4,864.98	10,728.82	0.00	0.00	0.00
15,100.00	90.00	359.90	7,000.00	9,822.31	4,864.80	10,824.25	0.00	0.00	0.00
15,200.00	90.00	359.90	7,000.00	9,922.31	4,864.62	10,919.68	0.00	0.00	0.00
15,300.00	90.00	359.90	7,000.00	10,022.31	4,864.44	11,015.11	0.00	0.00	0.00
15,400.00	90.00	359.90	7,000.00	10,122.31	4,864.26	11,110.54	0.00	0.00	0.00
15,500.00	90.00	359.90	7,000.00	10,222.31	4,864.08	11,205.97	0.00	0.00	0.00
15,600.00	90.00	359.90	7,000.00	10,322.31	4,863.90	11,301.40	0.00	0.00	0.00
15,700.00	90.00	359.90	7,000.00	10,422.31	4,863.72	11,396.83	0.00	0.00	0.00
15,800.00	90.00	359.90	7,000.00	10,522.31	4,863.54	11,492.25	0.00	0.00	0.00
15,900.00	90.00	359.90	7,000.00	10,622.31	4,863.36	11,587.68	0.00	0.00	0.00
16,000.00	90.00	359.90	7,000.00	10,722.31	4,863.18	11,683.11	0.00	0.00	0.00
16,100.00	90.00	359.90	7,000.00	10,822.31	4,863.00	11,778.54	0.00	0.00	0.00
16,200.00	90.00	359.90	7,000.00	10,922.31	4,862.82	11,873.97	0.00	0.00	0.00
16,300.00	90.00	359.90	7,000.00	11,022.31	4,862.64	11,969.40	0.00	0.00	0.00
16,400.00	90.00	359.90	7,000.00	11,122.31	4,862.46	12,064.83	0.00	0.00	0.00
16,500.00	90.00	359.90	7,000.00	11,222.31	4,862.28	12,160.26	0.00	0.00	0.00
16,600.00	90.00	359.90	7,000.00	11,322.31	4,862.10	12,255.68	0.00	0.00	0.00
16,700.00	90.00	359.90	7,000.00	11,422.31	4,861.92	12,351.11	0.00	0.00	0.00
16,800.00	90.00	359.90	7,000.00	11,522.31	4,861.74	12,446.54	0.00	0.00	0.00
16,900.00	90.00	359.90	7,000.00	11,622.31	4,861.56	12,541.97	0.00	0.00	0.00
17,000.00	90.00	359.90	7,000.00	11,722.31	4,861.38	12,637.40	0.00	0.00	0.00
17,100.00	90.00	359.90	7,000.00	11,822.31	4,861.20	12,732.83	0.00	0.00	0.00
17,200.00	90.00	359.90	7,000.00	11,922.30	4,861.02	12,828.26	0.00	0.00	0.00
17,300.00	90.00	359.90	7,000.00	12,022.30	4,860.84	12,923.69	0.00	0.00	0.00
17,400.00	90.00	359.90	7,000.00	12,122.30	4,860.66	13,019.12	0.00	0.00	0.00
17,500.00	90.00	359.90	7,000.00	12,222.30	4,860.48	13,114.54	0.00	0.00	0.00
17,600.00	90.00	359.90	7,000.00	12,322.30	4,860.30	13,209.97	0.00	0.00	0.00
17,700.00	90.00	359.90	7,000.00	12,422.30	4,860.12	13,305.40	0.00	0.00	0.00
17,800.00	90.00	359.90	7,000.00	12,522.30	4,859.94	13,400.83	0.00	0.00	0.00
17,900.00	90.00	359.90	7,000.00	12,622.30	4,859.76	13,496.26	0.00	0.00	0.00
18,000.00	90.00	359.90	7,000.00	12,722.30	4,859.58	13,591.69	0.00	0.00	0.00
18,100.00	90.00	359.90	7,000.00	12,822.30	4,859.40	13,687.12	0.00	0.00	0.00
18,200.00	90.00	359.90	7,000.00	12,922.30	4,859.22	13,782.55	0.00	0.00	0.00
18,300.00	90.00	359.90	7,000.00	13,022.30	4,859.04	13,877.98	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well T-BONE 22N-20-07
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4837.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4837.00usft
Site:	SEC 28-T5N-66W	North Reference:	True
Well:	T-BONE 22N-20-07	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)
18,400.00	90.00	359.90	7,000.00	13,122.30	4,858.86	13,973.40	0.00	0.00	0.00
18,500.00	90.00	359.90	7,000.00	13,222.30	4,858.68	14,068.83	0.00	0.00	0.00
18,600.00	90.00	359.90	7,000.00	13,322.30	4,858.50	14,164.26	0.00	0.00	0.00
18,700.00	90.00	359.90	7,000.00	13,422.30	4,858.32	14,259.69	0.00	0.00	0.00
18,800.00	90.00	359.90	7,000.00	13,522.30	4,858.14	14,355.12	0.00	0.00	0.00
18,900.00	90.00	359.90	7,000.00	13,622.30	4,857.96	14,450.55	0.00	0.00	0.00
19,000.00	90.00	359.90	7,000.00	13,722.30	4,857.78	14,545.98	0.00	0.00	0.00
19,100.00	90.00	359.90	7,000.00	13,822.30	4,857.60	14,641.41	0.00	0.00	0.00
19,200.00	90.00	359.90	7,000.00	13,922.30	4,857.42	14,736.83	0.00	0.00	0.00
19,300.00	90.00	359.90	7,000.00	14,022.30	4,857.24	14,832.26	0.00	0.00	0.00
19,400.00	90.00	359.90	7,000.00	14,122.30	4,857.06	14,927.69	0.00	0.00	0.00
19,500.00	90.00	359.90	7,000.00	14,222.30	4,856.88	15,023.12	0.00	0.00	0.00
19,600.00	90.00	359.90	7,000.00	14,322.30	4,856.70	15,118.55	0.00	0.00	0.00
19,700.00	90.00	359.90	7,000.00	14,422.30	4,856.52	15,213.98	0.00	0.00	0.00
19,800.00	90.00	359.90	7,000.00	14,522.30	4,856.34	15,309.41	0.00	0.00	0.00
19,900.00	90.00	359.90	7,000.00	14,622.30	4,856.16	15,404.84	0.00	0.00	0.00
20,000.00	90.00	359.90	7,000.00	14,722.30	4,855.98	15,500.27	0.00	0.00	0.00
20,100.00	90.00	359.90	7,000.00	14,822.30	4,855.80	15,595.69	0.00	0.00	0.00
20,200.00	90.00	359.90	7,000.00	14,922.30	4,855.62	15,691.12	0.00	0.00	0.00
20,300.00	90.00	359.90	7,000.00	15,022.30	4,855.44	15,786.55	0.00	0.00	0.00
20,400.00	90.00	359.90	7,000.00	15,122.30	4,855.26	15,881.98	0.00	0.00	0.00
20,500.00	90.00	359.90	7,000.00	15,222.30	4,855.08	15,977.41	0.00	0.00	0.00
20,600.00	90.00	359.90	7,000.00	15,322.30	4,854.90	16,072.84	0.00	0.00	0.00
20,700.00	90.00	359.90	7,000.00	15,422.30	4,854.72	16,168.27	0.00	0.00	0.00
20,800.00	90.00	359.90	7,000.00	15,522.30	4,854.54	16,263.70	0.00	0.00	0.00
20,874.42	90.00	359.90	7,000.00	15,596.72	4,854.15	16,334.64	0.00	0.00	0.00
TD at 20874.42									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP-T-BONE 22N-20-07 - hit/miss target - Shape - Point	0.00	0.00	7,000.00	4,808.09	4,873.82	1,381,475.19	3,203,907.63	40.378241°N	104.768090°W
PBHL-T-BONE 22N-20-07 - plan hits target center - Point	0.00	0.00	7,000.00	15,596.72	4,854.15	1,392,263.32	3,203,801.04	40.407856°N	104.768153°W

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well T-BONE 22N-20-07
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 4837.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 4837.00usft
Site:	SEC 28-T5N-66W	North Reference:	True
Well:	T-BONE 22N-20-07	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,671.39	1,500.00	Base of Upper Pierre aquifer			
5,032.91	3,770.00	Larimer ("Parkman") sandstone			
5,151.38	3,850.00	Larimer ("Parkman") sandstone Base			
5,995.47	4,420.00	Terry ("Sussex") sandstone			
6,150.96	4,525.00	Terry ("Sussex") sandstone Base			
6,817.35	4,975.00	Hygiene ("Shannon") sandstone			
7,298.63	5,300.00	Hygiene ("Shannon") sandstone Base			
9,715.42	6,910.00	Sharon Springs			
10,085.77	7,000.00	Niobrara A Chalk			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
100.00	100.00	0.00	0.00		Start Build 3.00
1,684.13	1,508.63	419.48	456.78		Start 7800.25 hold at 1684.13 MD
9,484.38	6,775.99	4,310.87	4,694.22		Start DLS 10.00 TFO -58.29
10,085.77	7,000.00	4,808.09	4,873.82		Start 10788.65 hold at 10085.77 MD
20,874.42	7,000.00	15,596.72	4,854.15		TD at 20874.42