

# **EXTRACTION OIL & GAS**

**WELD COUNTY  
SEC 28-T5N-66W  
T-BONE 22N-20-03**

**OWB**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**21 July, 2025**

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well T-BONE 22N-20-03
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KBE 25' @ 4837.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KBE 25' @ 4837.00usft
<b>Site:</b>	SEC 28-T5N-66W	<b>North Reference:</b>	True
<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

<b>Project</b>	WELD COUNTY		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

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

<b>Well</b>	T-BONE 22N-20-03					
<b>Well Position</b>	<b>+N/-S</b>	599.98 usft	<b>Northing:</b>	1,376,577.90 usft	<b>Latitude:</b>	40.364908°N
	<b>+E/-W</b>	-329.09 usft	<b>Easting:</b>	3,199,005.11 usft	<b>Longitude:</b>	104.785828°W
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,812.00 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	1/30/2025	7.48	66.47	51,551.54305603

<b>Design</b>	PROPOSAL 1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	13.80	

<b>Plan Survey Tool Program</b>	<b>Date</b>	7/21/2025			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	20,642.44	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

<b>Plan Sections</b>										
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	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,217.17	50.34	40.17	2,905.55	791.98	668.69	2.00	2.00	0.00	40.17	
9,340.83	50.34	40.17	6,813.58	4,394.23	3,710.13	0.00	0.00	0.00	0.00	
9,881.11	90.00	359.90	7,000.00	4,858.18	3,854.71	10.00	7.34	-7.45	-53.01	LP-T-BONE 22N-20-C
20,642.44	90.00	359.90	7,000.00	15,619.49	3,836.04	0.00	0.00	0.00	0.00	PBHL-T-BONE 22N-2

# Civitas Resources

## Planning Report

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<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KBE 25' @ 4837.00usft
<b>Site:</b>	SEC 28-T5N-66W	<b>North Reference:</b>	True
<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
800.00	2.00	40.17	799.98	1.33	1.13	1.56	2.00	2.00	0.00
900.00	4.00	40.17	899.84	5.33	4.50	6.25	2.00	2.00	0.00
1,000.00	6.00	40.17	999.45	11.99	10.12	14.06	2.00	2.00	0.00
1,100.00	8.00	40.17	1,098.70	21.30	17.99	24.98	2.00	2.00	0.00
1,200.00	10.00	40.17	1,197.47	33.25	28.08	38.99	2.00	2.00	0.00
1,300.00	12.00	40.17	1,295.62	47.83	40.39	56.09	2.00	2.00	0.00
1,400.00	14.00	40.17	1,393.06	65.02	54.90	76.24	2.00	2.00	0.00
1,500.00	16.00	40.17	1,489.64	84.80	71.59	99.42	2.00	2.00	0.00
1,510.78	16.22	40.17	1,500.00	87.08	73.52	102.10	2.00	2.00	0.00
<b>Base of Upper Pierre aquifer</b>									
1,600.00	18.00	40.17	1,585.27	107.13	90.45	125.62	2.00	2.00	0.00
1,700.00	20.00	40.17	1,679.82	132.01	111.46	154.78	2.00	2.00	0.00
1,800.00	22.00	40.17	1,773.17	159.39	134.58	186.89	2.00	2.00	0.00
1,900.00	24.00	40.17	1,865.21	189.24	159.78	221.89	2.00	2.00	0.00
2,000.00	26.00	40.17	1,955.84	221.53	187.04	259.75	2.00	2.00	0.00
2,100.00	28.00	40.17	2,044.94	256.22	216.33	300.42	2.00	2.00	0.00
2,200.00	30.00	40.17	2,132.39	293.26	247.60	343.85	2.00	2.00	0.00
2,300.00	32.00	40.17	2,218.11	332.61	280.83	389.99	2.00	2.00	0.00
2,400.00	34.00	40.17	2,301.97	374.22	315.96	438.78	2.00	2.00	0.00
2,500.00	36.00	40.17	2,383.88	418.05	352.96	490.17	2.00	2.00	0.00
2,600.00	38.00	40.17	2,463.74	464.03	391.79	544.08	2.00	2.00	0.00
2,700.00	40.00	40.17	2,541.45	512.11	432.38	600.46	2.00	2.00	0.00
2,800.00	42.00	40.17	2,616.92	562.24	474.71	659.23	2.00	2.00	0.00
2,900.00	44.00	40.17	2,690.05	614.34	518.70	720.33	2.00	2.00	0.00
3,000.00	46.00	40.17	2,760.76	668.37	564.32	783.67	2.00	2.00	0.00
3,100.00	48.00	40.17	2,828.95	724.25	611.50	849.19	2.00	2.00	0.00
3,200.00	50.00	40.17	2,894.55	781.91	660.18	916.80	2.00	2.00	0.00
3,217.17	50.34	40.17	2,905.55	791.98	668.69	928.61	2.00	2.00	0.00
<b>Start 6123.67 hold at 3217.17 MD</b>									
3,300.00	50.34	40.17	2,958.41	840.71	709.83	985.75	0.00	0.00	0.00
3,400.00	50.34	40.17	3,022.23	899.54	759.49	1,054.72	0.00	0.00	0.00
3,500.00	50.34	40.17	3,086.05	958.36	809.16	1,123.69	0.00	0.00	0.00
3,600.00	50.34	40.17	3,149.87	1,017.19	858.83	1,192.67	0.00	0.00	0.00
3,700.00	50.34	40.17	3,213.69	1,076.01	908.50	1,261.64	0.00	0.00	0.00
3,800.00	50.34	40.17	3,277.50	1,134.84	958.16	1,330.61	0.00	0.00	0.00
3,900.00	50.34	40.17	3,341.32	1,193.66	1,007.83	1,399.59	0.00	0.00	0.00
4,000.00	50.34	40.17	3,405.14	1,252.49	1,057.50	1,468.56	0.00	0.00	0.00
4,100.00	50.34	40.17	3,468.96	1,311.31	1,107.16	1,537.53	0.00	0.00	0.00
4,200.00	50.34	40.17	3,532.78	1,370.14	1,156.83	1,606.51	0.00	0.00	0.00
4,300.00	50.34	40.17	3,596.60	1,428.96	1,206.50	1,675.48	0.00	0.00	0.00
4,400.00	50.34	40.17	3,660.42	1,487.79	1,256.16	1,744.45	0.00	0.00	0.00
4,500.00	50.34	40.17	3,724.23	1,546.61	1,305.83	1,813.43	0.00	0.00	0.00
4,571.71	50.34	40.17	3,770.00	1,588.80	1,341.45	1,862.89	0.00	0.00	0.00
<b>Larimer ("Parkman") sandstone</b>									

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<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)
4,600.00	50.34	40.17	3,788.05	1,605.44	1,355.50	1,882.40	0.00	0.00	0.00
4,697.07	50.34	40.17	3,850.00	1,662.54	1,403.71	1,949.35	0.00	0.00	0.00
<b>Larimer ("Parkman") sandstone Base</b>									
4,700.00	50.34	40.17	3,851.87	1,664.26	1,405.17	1,951.37	0.00	0.00	0.00
4,800.00	50.34	40.17	3,915.69	1,723.09	1,454.83	2,020.35	0.00	0.00	0.00
4,900.00	50.34	40.17	3,979.51	1,781.91	1,504.50	2,089.32	0.00	0.00	0.00
5,000.00	50.34	40.17	4,043.33	1,840.74	1,554.17	2,158.29	0.00	0.00	0.00
5,100.00	50.34	40.17	4,107.14	1,899.56	1,603.83	2,227.27	0.00	0.00	0.00
5,200.00	50.34	40.17	4,170.96	1,958.39	1,653.50	2,296.24	0.00	0.00	0.00
5,300.00	50.34	40.17	4,234.78	2,017.21	1,703.17	2,365.21	0.00	0.00	0.00
5,400.00	50.34	40.17	4,298.60	2,076.04	1,752.83	2,434.19	0.00	0.00	0.00
5,500.00	50.34	40.17	4,362.42	2,134.86	1,802.50	2,503.16	0.00	0.00	0.00
5,590.23	50.34	40.17	4,420.00	2,187.94	1,847.31	2,565.39	0.00	0.00	0.00
<b>Terry ("Sussex") sandstone</b>									
5,600.00	50.34	40.17	4,426.24	2,193.69	1,852.17	2,572.13	0.00	0.00	0.00
5,700.00	50.34	40.17	4,490.06	2,252.51	1,901.84	2,641.11	0.00	0.00	0.00
5,754.76	50.34	40.17	4,525.00	2,284.72	1,929.03	2,678.87	0.00	0.00	0.00
<b>Terry ("Sussex") sandstone Base</b>									
5,800.00	50.34	40.17	4,553.87	2,311.34	1,951.50	2,710.08	0.00	0.00	0.00
5,900.00	50.34	40.17	4,617.69	2,370.16	2,001.17	2,779.05	0.00	0.00	0.00
6,000.00	50.34	40.17	4,681.51	2,428.99	2,050.84	2,848.03	0.00	0.00	0.00
6,100.00	50.34	40.17	4,745.33	2,487.81	2,100.50	2,917.00	0.00	0.00	0.00
6,200.00	50.34	40.17	4,809.15	2,546.64	2,150.17	2,985.97	0.00	0.00	0.00
6,300.00	50.34	40.17	4,872.97	2,605.46	2,199.84	3,054.95	0.00	0.00	0.00
6,400.00	50.34	40.17	4,936.79	2,664.29	2,249.51	3,123.92	0.00	0.00	0.00
6,459.88	50.34	40.17	4,975.00	2,699.51	2,279.25	3,165.22	0.00	0.00	0.00
<b>Hygiene ("Shannon") sandstone</b>									
6,500.00	50.34	40.17	5,000.60	2,723.11	2,299.17	3,192.89	0.00	0.00	0.00
6,600.00	50.34	40.17	5,064.42	2,781.94	2,348.84	3,261.87	0.00	0.00	0.00
6,700.00	50.34	40.17	5,128.24	2,840.76	2,398.51	3,330.84	0.00	0.00	0.00
6,800.00	50.34	40.17	5,192.06	2,899.59	2,448.17	3,399.81	0.00	0.00	0.00
6,900.00	50.34	40.17	5,255.88	2,958.41	2,497.84	3,468.79	0.00	0.00	0.00
6,969.14	50.34	40.17	5,300.00	2,999.08	2,532.18	3,516.47	0.00	0.00	0.00
<b>Hygiene ("Shannon") sandstone Base</b>									
7,000.00	50.34	40.17	5,319.70	3,017.24	2,547.51	3,537.76	0.00	0.00	0.00
7,100.00	50.34	40.17	5,383.51	3,076.06	2,597.17	3,606.73	0.00	0.00	0.00
7,200.00	50.34	40.17	5,447.33	3,134.89	2,646.84	3,675.71	0.00	0.00	0.00
7,300.00	50.34	40.17	5,511.15	3,193.71	2,696.51	3,744.68	0.00	0.00	0.00
7,400.00	50.34	40.17	5,574.97	3,252.54	2,746.18	3,813.65	0.00	0.00	0.00
7,500.00	50.34	40.17	5,638.79	3,311.36	2,795.84	3,882.63	0.00	0.00	0.00
7,600.00	50.34	40.17	5,702.61	3,370.19	2,845.51	3,951.60	0.00	0.00	0.00
7,700.00	50.34	40.17	5,766.43	3,429.01	2,895.18	4,020.57	0.00	0.00	0.00
7,800.00	50.34	40.17	5,830.24	3,487.84	2,944.84	4,089.55	0.00	0.00	0.00
7,900.00	50.34	40.17	5,894.06	3,546.66	2,994.51	4,158.52	0.00	0.00	0.00
8,000.00	50.34	40.17	5,957.88	3,605.49	3,044.18	4,227.49	0.00	0.00	0.00
8,100.00	50.34	40.17	6,021.70	3,664.31	3,093.84	4,296.47	0.00	0.00	0.00
8,200.00	50.34	40.17	6,085.52	3,723.14	3,143.51	4,365.44	0.00	0.00	0.00
8,300.00	50.34	40.17	6,149.34	3,781.96	3,193.18	4,434.41	0.00	0.00	0.00
8,400.00	50.34	40.17	6,213.15	3,840.79	3,242.85	4,503.39	0.00	0.00	0.00
8,500.00	50.34	40.17	6,276.97	3,899.61	3,292.51	4,572.36	0.00	0.00	0.00
8,600.00	50.34	40.17	6,340.79	3,958.44	3,342.18	4,641.33	0.00	0.00	0.00
8,700.00	50.34	40.17	6,404.61	4,017.27	3,391.85	4,710.31	0.00	0.00	0.00
8,800.00	50.34	40.17	6,468.43	4,076.09	3,441.51	4,779.28	0.00	0.00	0.00

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<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)	
8,900.00	50.34	40.17	6,532.25	4,134.92	3,491.18	4,848.25	0.00	0.00	0.00	
9,000.00	50.34	40.17	6,596.07	4,193.74	3,540.85	4,917.23	0.00	0.00	0.00	
9,100.00	50.34	40.17	6,659.88	4,252.57	3,590.52	4,986.20	0.00	0.00	0.00	
9,200.00	50.34	40.17	6,723.70	4,311.39	3,640.18	5,055.17	0.00	0.00	0.00	
9,300.00	50.34	40.17	6,787.52	4,370.22	3,689.85	5,124.15	0.00	0.00	0.00	
9,340.83	50.34	40.17	6,813.58	4,394.23	3,710.13	5,152.31	0.00	0.00	0.00	
<b>Start DLS 10.00 TFO -53.01</b>										
9,350.00	50.90	39.23	6,819.40	4,399.69	3,714.66	5,158.68	10.00	6.06	-10.29	
9,400.00	54.05	34.34	6,849.86	4,431.45	3,738.36	5,195.18	10.00	6.31	-9.79	
9,450.00	57.39	29.83	6,878.02	4,466.45	3,760.26	5,234.40	10.00	6.67	-9.02	
9,500.00	60.88	25.65	6,903.68	4,504.43	3,780.20	5,276.04	10.00	6.97	-8.35	
9,513.18	61.82	24.60	6,910.00	4,514.90	3,785.11	5,287.38	10.00	7.13	-7.99	
<b>Sharon Springs</b>										
9,550.00	64.48	21.75	6,926.63	4,545.10	3,798.03	5,319.78	10.00	7.24	-7.73	
9,600.00	68.19	18.09	6,946.70	4,588.14	3,813.61	5,365.30	10.00	7.41	-7.34	
9,650.00	71.97	14.61	6,963.74	4,633.24	3,826.82	5,412.25	10.00	7.56	-6.96	
9,700.00	75.81	11.27	6,977.62	4,680.04	3,837.56	5,460.26	10.00	7.68	-6.67	
9,750.00	79.70	8.05	6,988.22	4,728.20	3,845.75	5,508.98	10.00	7.77	-6.44	
9,800.00	83.61	4.91	6,995.48	4,777.34	3,851.32	5,558.03	10.00	7.83	-6.28	
9,850.00	87.55	1.81	6,999.33	4,827.09	3,854.24	5,607.04	10.00	7.87	-6.19	
9,881.11	90.00	359.90	7,000.00	4,858.18	3,854.71	5,637.35	10.00	7.88	-6.15	
<b>Start 10761.33 hold at 9881.11 MD - Niobrara A Chalk</b>										
9,900.00	90.00	359.90	7,000.00	4,877.07	3,854.67	5,655.69	0.00	0.00	0.00	
10,000.00	90.00	359.90	7,000.00	4,977.07	3,854.50	5,752.76	0.00	0.00	0.00	
10,100.00	90.00	359.90	7,000.00	5,077.07	3,854.33	5,849.83	0.00	0.00	0.00	
10,200.00	90.00	359.90	7,000.00	5,177.07	3,854.15	5,946.90	0.00	0.00	0.00	
10,300.00	90.00	359.90	7,000.00	5,277.07	3,853.98	6,043.98	0.00	0.00	0.00	
10,400.00	90.00	359.90	7,000.00	5,377.07	3,853.81	6,141.05	0.00	0.00	0.00	
10,500.00	90.00	359.90	7,000.00	5,477.07	3,853.63	6,238.12	0.00	0.00	0.00	
10,600.00	90.00	359.90	7,000.00	5,577.07	3,853.46	6,335.19	0.00	0.00	0.00	
10,700.00	90.00	359.90	7,000.00	5,677.07	3,853.29	6,432.27	0.00	0.00	0.00	
10,800.00	90.00	359.90	7,000.00	5,777.07	3,853.11	6,529.34	0.00	0.00	0.00	
10,900.00	90.00	359.90	7,000.00	5,877.07	3,852.94	6,626.41	0.00	0.00	0.00	
11,000.00	90.00	359.90	7,000.00	5,977.07	3,852.77	6,723.48	0.00	0.00	0.00	
11,100.00	90.00	359.90	7,000.00	6,077.07	3,852.59	6,820.56	0.00	0.00	0.00	
11,200.00	90.00	359.90	7,000.00	6,177.07	3,852.42	6,917.63	0.00	0.00	0.00	
11,300.00	90.00	359.90	7,000.00	6,277.07	3,852.25	7,014.70	0.00	0.00	0.00	
11,400.00	90.00	359.90	7,000.00	6,377.07	3,852.07	7,111.78	0.00	0.00	0.00	
11,500.00	90.00	359.90	7,000.00	6,477.07	3,851.90	7,208.85	0.00	0.00	0.00	
11,600.00	90.00	359.90	7,000.00	6,577.07	3,851.72	7,305.92	0.00	0.00	0.00	
11,700.00	90.00	359.90	7,000.00	6,677.07	3,851.55	7,402.99	0.00	0.00	0.00	
11,800.00	90.00	359.90	7,000.00	6,777.07	3,851.38	7,500.07	0.00	0.00	0.00	
11,900.00	90.00	359.90	7,000.00	6,877.07	3,851.20	7,597.14	0.00	0.00	0.00	
12,000.00	90.00	359.90	7,000.00	6,977.07	3,851.03	7,694.21	0.00	0.00	0.00	
12,100.00	90.00	359.90	7,000.00	7,077.07	3,850.86	7,791.28	0.00	0.00	0.00	
12,200.00	90.00	359.90	7,000.00	7,177.07	3,850.68	7,888.36	0.00	0.00	0.00	
12,300.00	90.00	359.90	7,000.00	7,277.07	3,850.51	7,985.43	0.00	0.00	0.00	
12,400.00	90.00	359.90	7,000.00	7,377.07	3,850.34	8,082.50	0.00	0.00	0.00	
12,500.00	90.00	359.90	7,000.00	7,477.07	3,850.16	8,179.57	0.00	0.00	0.00	
12,600.00	90.00	359.90	7,000.00	7,577.07	3,849.99	8,276.65	0.00	0.00	0.00	
12,700.00	90.00	359.90	7,000.00	7,677.07	3,849.82	8,373.72	0.00	0.00	0.00	
12,800.00	90.00	359.90	7,000.00	7,777.07	3,849.64	8,470.79	0.00	0.00	0.00	
12,900.00	90.00	359.90	7,000.00	7,877.07	3,849.47	8,567.86	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well T-BONE 22N-20-03
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KBE 25' @ 4837.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KBE 25' @ 4837.00usft
<b>Site:</b>	SEC 28-T5N-66W	<b>North Reference:</b>	True
<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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	7,977.07	3,849.30	8,664.94	0.00	0.00	0.00	
13,100.00	90.00	359.90	7,000.00	8,077.07	3,849.12	8,762.01	0.00	0.00	0.00	
13,200.00	90.00	359.90	7,000.00	8,177.07	3,848.95	8,859.08	0.00	0.00	0.00	
13,300.00	90.00	359.90	7,000.00	8,277.07	3,848.78	8,956.15	0.00	0.00	0.00	
13,400.00	90.00	359.90	7,000.00	8,377.07	3,848.60	9,053.23	0.00	0.00	0.00	
13,500.00	90.00	359.90	7,000.00	8,477.07	3,848.43	9,150.30	0.00	0.00	0.00	
13,600.00	90.00	359.90	7,000.00	8,577.07	3,848.26	9,247.37	0.00	0.00	0.00	
13,700.00	90.00	359.90	7,000.00	8,677.07	3,848.08	9,344.44	0.00	0.00	0.00	
13,800.00	90.00	359.90	7,000.00	8,777.07	3,847.91	9,441.52	0.00	0.00	0.00	
13,900.00	90.00	359.90	7,000.00	8,877.07	3,847.74	9,538.59	0.00	0.00	0.00	
14,000.00	90.00	359.90	7,000.00	8,977.07	3,847.56	9,635.66	0.00	0.00	0.00	
14,100.00	90.00	359.90	7,000.00	9,077.07	3,847.39	9,732.74	0.00	0.00	0.00	
14,200.00	90.00	359.90	7,000.00	9,177.07	3,847.22	9,829.81	0.00	0.00	0.00	
14,300.00	90.00	359.90	7,000.00	9,277.07	3,847.04	9,926.88	0.00	0.00	0.00	
14,400.00	90.00	359.90	7,000.00	9,377.07	3,846.87	10,023.95	0.00	0.00	0.00	
14,500.00	90.00	359.90	7,000.00	9,477.06	3,846.70	10,121.03	0.00	0.00	0.00	
14,600.00	90.00	359.90	7,000.00	9,577.06	3,846.52	10,218.10	0.00	0.00	0.00	
14,700.00	90.00	359.90	7,000.00	9,677.06	3,846.35	10,315.17	0.00	0.00	0.00	
14,800.00	90.00	359.90	7,000.00	9,777.06	3,846.17	10,412.24	0.00	0.00	0.00	
14,900.00	90.00	359.90	7,000.00	9,877.06	3,846.00	10,509.32	0.00	0.00	0.00	
15,000.00	90.00	359.90	7,000.00	9,977.06	3,845.83	10,606.39	0.00	0.00	0.00	
15,100.00	90.00	359.90	7,000.00	10,077.06	3,845.65	10,703.46	0.00	0.00	0.00	
15,200.00	90.00	359.90	7,000.00	10,177.06	3,845.48	10,800.53	0.00	0.00	0.00	
15,300.00	90.00	359.90	7,000.00	10,277.06	3,845.31	10,897.61	0.00	0.00	0.00	
15,400.00	90.00	359.90	7,000.00	10,377.06	3,845.13	10,994.68	0.00	0.00	0.00	
15,500.00	90.00	359.90	7,000.00	10,477.06	3,844.96	11,091.75	0.00	0.00	0.00	
15,600.00	90.00	359.90	7,000.00	10,577.06	3,844.79	11,188.82	0.00	0.00	0.00	
15,700.00	90.00	359.90	7,000.00	10,677.06	3,844.61	11,285.90	0.00	0.00	0.00	
15,800.00	90.00	359.90	7,000.00	10,777.06	3,844.44	11,382.97	0.00	0.00	0.00	
15,900.00	90.00	359.90	7,000.00	10,877.06	3,844.27	11,480.04	0.00	0.00	0.00	
16,000.00	90.00	359.90	7,000.00	10,977.06	3,844.09	11,577.11	0.00	0.00	0.00	
16,100.00	90.00	359.90	7,000.00	11,077.06	3,843.92	11,674.19	0.00	0.00	0.00	
16,200.00	90.00	359.90	7,000.00	11,177.06	3,843.75	11,771.26	0.00	0.00	0.00	
16,300.00	90.00	359.90	7,000.00	11,277.06	3,843.57	11,868.33	0.00	0.00	0.00	
16,400.00	90.00	359.90	7,000.00	11,377.06	3,843.40	11,965.41	0.00	0.00	0.00	
16,500.00	90.00	359.90	7,000.00	11,477.06	3,843.23	12,062.48	0.00	0.00	0.00	
16,600.00	90.00	359.90	7,000.00	11,577.06	3,843.05	12,159.55	0.00	0.00	0.00	
16,700.00	90.00	359.90	7,000.00	11,677.06	3,842.88	12,256.62	0.00	0.00	0.00	
16,800.00	90.00	359.90	7,000.00	11,777.06	3,842.71	12,353.70	0.00	0.00	0.00	
16,900.00	90.00	359.90	7,000.00	11,877.06	3,842.53	12,450.77	0.00	0.00	0.00	
17,000.00	90.00	359.90	7,000.00	11,977.06	3,842.36	12,547.84	0.00	0.00	0.00	
17,100.00	90.00	359.90	7,000.00	12,077.06	3,842.19	12,644.91	0.00	0.00	0.00	
17,200.00	90.00	359.90	7,000.00	12,177.06	3,842.01	12,741.99	0.00	0.00	0.00	
17,300.00	90.00	359.90	7,000.00	12,277.06	3,841.84	12,839.06	0.00	0.00	0.00	
17,400.00	90.00	359.90	7,000.00	12,377.06	3,841.67	12,936.13	0.00	0.00	0.00	
17,500.00	90.00	359.90	7,000.00	12,477.06	3,841.49	13,033.20	0.00	0.00	0.00	
17,600.00	90.00	359.90	7,000.00	12,577.06	3,841.32	13,130.28	0.00	0.00	0.00	
17,700.00	90.00	359.90	7,000.00	12,677.06	3,841.15	13,227.35	0.00	0.00	0.00	
17,800.00	90.00	359.90	7,000.00	12,777.06	3,840.97	13,324.42	0.00	0.00	0.00	
17,900.00	90.00	359.90	7,000.00	12,877.06	3,840.80	13,421.49	0.00	0.00	0.00	
18,000.00	90.00	359.90	7,000.00	12,977.06	3,840.62	13,518.57	0.00	0.00	0.00	
18,100.00	90.00	359.90	7,000.00	13,077.06	3,840.45	13,615.64	0.00	0.00	0.00	
18,200.00	90.00	359.90	7,000.00	13,177.06	3,840.28	13,712.71	0.00	0.00	0.00	
18,300.00	90.00	359.90	7,000.00	13,277.06	3,840.10	13,809.78	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well T-BONE 22N-20-03
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KBE 25' @ 4837.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KBE 25' @ 4837.00usft
<b>Site:</b>	SEC 28-T5N-66W	<b>North Reference:</b>	True
<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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	13,377.06	3,839.93	13,906.86	0.00	0.00	0.00	
18,500.00	90.00	359.90	7,000.00	13,477.06	3,839.76	14,003.93	0.00	0.00	0.00	
18,600.00	90.00	359.90	7,000.00	13,577.06	3,839.58	14,101.00	0.00	0.00	0.00	
18,700.00	90.00	359.90	7,000.00	13,677.06	3,839.41	14,198.08	0.00	0.00	0.00	
18,800.00	90.00	359.90	7,000.00	13,777.06	3,839.24	14,295.15	0.00	0.00	0.00	
18,900.00	90.00	359.90	7,000.00	13,877.06	3,839.06	14,392.22	0.00	0.00	0.00	
19,000.00	90.00	359.90	7,000.00	13,977.06	3,838.89	14,489.29	0.00	0.00	0.00	
19,100.00	90.00	359.90	7,000.00	14,077.06	3,838.72	14,586.37	0.00	0.00	0.00	
19,200.00	90.00	359.90	7,000.00	14,177.06	3,838.54	14,683.44	0.00	0.00	0.00	
19,300.00	90.00	359.90	7,000.00	14,277.06	3,838.37	14,780.51	0.00	0.00	0.00	
19,400.00	90.00	359.90	7,000.00	14,377.06	3,838.20	14,877.58	0.00	0.00	0.00	
19,500.00	90.00	359.90	7,000.00	14,477.06	3,838.02	14,974.66	0.00	0.00	0.00	
19,600.00	90.00	359.90	7,000.00	14,577.06	3,837.85	15,071.73	0.00	0.00	0.00	
19,700.00	90.00	359.90	7,000.00	14,677.06	3,837.68	15,168.80	0.00	0.00	0.00	
19,800.00	90.00	359.90	7,000.00	14,777.06	3,837.50	15,265.87	0.00	0.00	0.00	
19,900.00	90.00	359.90	7,000.00	14,877.06	3,837.33	15,362.95	0.00	0.00	0.00	
20,000.00	90.00	359.90	7,000.00	14,977.06	3,837.16	15,460.02	0.00	0.00	0.00	
20,100.00	90.00	359.90	7,000.00	15,077.06	3,836.98	15,557.09	0.00	0.00	0.00	
20,200.00	90.00	359.90	7,000.00	15,177.06	3,836.81	15,654.16	0.00	0.00	0.00	
20,300.00	90.00	359.90	7,000.00	15,277.06	3,836.64	15,751.24	0.00	0.00	0.00	
20,400.00	90.00	359.90	7,000.00	15,377.06	3,836.46	15,848.31	0.00	0.00	0.00	
20,500.00	90.00	359.90	7,000.00	15,477.06	3,836.29	15,945.38	0.00	0.00	0.00	
20,600.00	90.00	359.90	7,000.00	15,577.06	3,836.12	16,042.45	0.00	0.00	0.00	
20,642.44	90.00	359.90	7,000.00	15,619.49	3,836.04	16,083.65	0.00	0.00	0.00	
<b>TD at 20642.44</b>										

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-20-03 - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,000.00	4,858.18	3,854.71	1,381,466.97	3,202,820.56	40.378243°N	104.771992°W	
PBHL-T-BONE 22N-20-03 - plan hits target center - Point	0.00	0.00	7,000.00	15,619.49	3,836.04	1,392,227.78	3,202,715.23	40.407783°N	104.772053°W	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well T-BONE 22N-20-03
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KBE 25' @ 4837.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KBE 25' @ 4837.00usft
<b>Site:</b>	SEC 28-T5N-66W	<b>North Reference:</b>	True
<b>Well:</b>	T-BONE 22N-20-03	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,510.78	1,500.00	Base of Upper Pierre aquifer			
4,571.71	3,770.00	Larimer ("Parkman") sandstone			
4,697.07	3,850.00	Larimer ("Parkman") sandstone Base			
5,590.23	4,420.00	Terry ("Sussex") sandstone			
5,754.76	4,525.00	Terry ("Sussex") sandstone Base			
6,459.88	4,975.00	Hygiene ("Shannon") sandstone			
6,969.14	5,300.00	Hygiene ("Shannon") sandstone Base			
9,513.18	6,910.00	Sharon Springs			
9,881.11	7,000.00	Niobrara A Chalk			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
700.00	700.00	0.00	0.00		Start Build 2.00
3,217.17	2,905.55	791.98	668.69		Start 6123.67 hold at 3217.17 MD
9,340.83	6,813.58	4,394.23	3,710.13		Start DLS 10.00 TFO -53.01
9,881.11	7,000.00	4,858.18	3,854.71		Start 10761.33 hold at 9881.11 MD
20,642.44	7,000.00	15,619.49	3,836.04		TD at 20642.44