

EXTRACTION OIL & GAS

WELD COUNTY

Sec 36-T7N-R67W

MAVERICK 2W-20-03

OWB

Plan: PROPOSAL 1

Standard Planning Report

23 January, 2025



Project: WELD COUNTY
Site: Sec 36-T7N-R67W
Well: MAVERICK 2W-20-03
Wellbore: OWB
Design: PROPOSAL 1



Azimuths to True North
Magnetic North: 7.54°

Magnetic Field
Strength: 51644.1nT
Dip Angle: 66.60°
Date: 12/17/2024
Model: IGRF2020

WELL DETAILS: MAVERICK 2W-20-03

			4897.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	1436577.00	3183569.59	40.529928°N	104.839616°W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	2807.67	52.15	203.24	2462.20	-1017.24	-436.92	2.00	203.24	835.41	
4	10311.24	52.15	203.24	7066.00	-6461.52	-2775.37	0.00	0.00	5306.58	
5	11030.37	90.00	270.09	7321.00	-6762.40	-3320.51	10.00	75.30	5928.30	LP-MAVERICK 2W-20-03
6	21696.25	90.00	270.09	7321.00	-6744.86	-13986.37	0.00	0.00	15527.77	PBHL-MAVERICK 2W-20-03

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	Start Build 2.00
2807.67	52.15	203.24	2462.20	-1017.24	-436.92	835.41	1107.10	Start 7503.57 hold at 2807.67 MD
10311.24	52.15	203.24	7066.00	-6461.52	-2775.37	5306.58	7032.35	Start DLS 10.00 TFO 75.30
11030.37	90.00	270.09	7321.00	-6762.40	-3320.51	5928.30	7689.95	Start 10665.88 hold at 11030.37 MD
21696.25	90.00	270.09	7321.00	-6744.86	-13986.37	15527.77	18355.83	TD at 21696.25

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-MAVERICK 2W-20-03	7321.00	-6762.40	-3320.51	1429790.06	3180299.53	40.511365°N	104.851558°W	Point
- plan hits target center								
PBHL-MAVERICK 2W-20-03	7321.00	-6744.86	-13986.37	1429728.17	3169633.83	40.511403°N	104.889917°W	Point
- plan hits target center								

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
24.00	24.00	Laramie-Fox Hills Formation
196.00	196.00	Pierre Formation
471.00	471.41	Upper Pierre aquifer
1381.00	1417.30	Base of Upper Pierre aquifer
3716.00	4851.20	Larimer ("Parkman") sandstone
4011.00	5332.01	Pierre Formation
4201.00	5641.68	Terry ("Sussex") sandstone
4471.00	6081.75	Pierre Formation
4781.00	6587.00	Hygiene ("Shannon") sandstone
5016.00	6970.02	Pierre Formation
6961.00	10140.11	Sharon Springs Member
7001.00	10205.30	Niobrara Formation
7296.00	10818.49	Fort Hays limestone
7321.00	11030.37	Codell sandstone

PROJECT DETAILS: WELD COUNTY

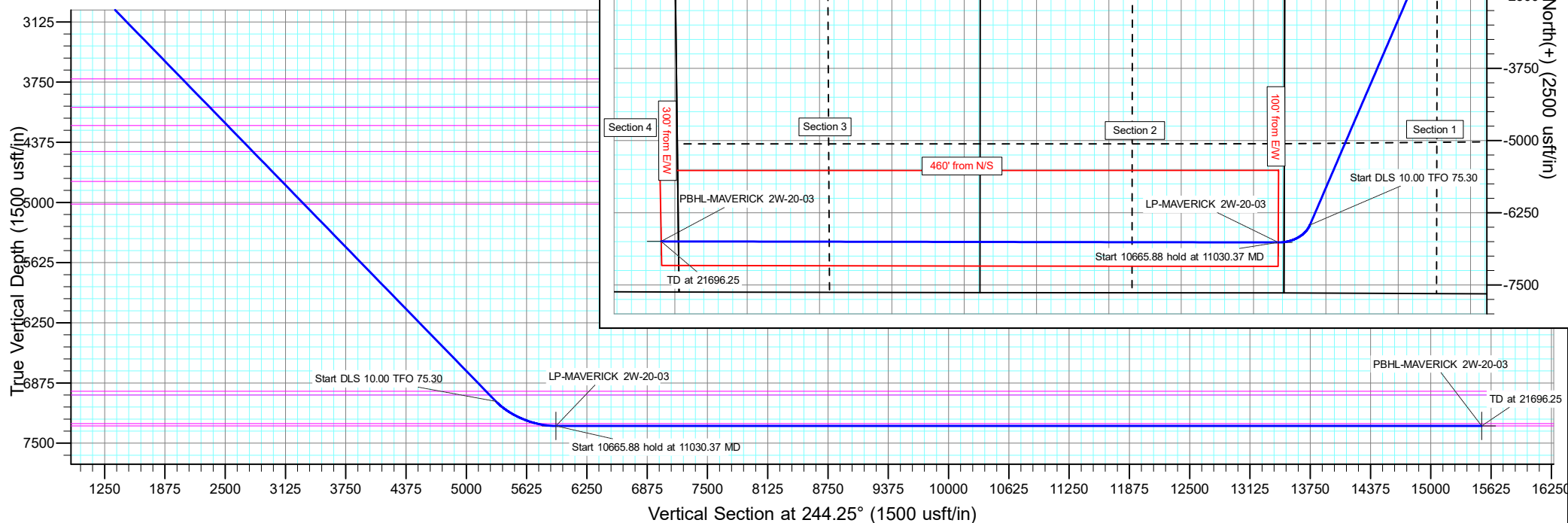
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level

SHL:
2367' FSL, 2077' FEL
Sec 36-T7N-R67W

LP:
875' FSL, 100' FEL
Sec 2-T6N-R67W

BHL:
875' FSL, 300' FEL
Sec 4-T6N-R67W



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well MAVERICK 2W-20-03
Company:	EXTRACTION OIL & GAS	TVD Reference:	KBE 25' @ 4922.00usft
Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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 36-T7N-R67W			
Site Position:		Northing:	1,434,164.62 usft	Latitude:	40.523371°N
From:	Lat/Long	Easting:	3,180,376.52 usft	Longitude:	104.851166°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.42 °

Well	MAVERICK 2W-20-03					
Well Position	+N/-S	2,388.96 usft	Northing:	1,436,577.00 usft	Latitude:	40.529928°N
	+E/-W	3,210.63 usft	Easting:	3,183,569.59 usft	Longitude:	104.839616°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,897.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/17/2024	7.54	66.60	51,644.12332123

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	244.25

Plan Survey Tool Program	Date	1/23/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,696.25	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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,807.67	52.15	203.24	2,462.20	-1,017.24	-436.92	2.00	2.00	0.00	203.24	
10,311.24	52.15	203.24	7,066.00	-6,461.52	-2,775.37	0.00	0.00	0.00	0.00	
11,030.38	90.00	270.09	7,321.00	-6,762.40	-3,320.51	10.00	5.26	9.30	75.30	LP-MAVERICK 2W-20
21,696.25	90.00	270.09	7,321.00	-6,744.86	-13,986.37	0.00	0.00	0.00	0.00	PBHL-MAVERICK 2W

Civitas Resources

Planning Report

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Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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
196.00	0.00	0.00	196.00	0.00	0.00	0.00	0.00	0.00	0.00
Pierre Formation									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
300.00	2.00	203.24	299.98	-1.60	-0.69	1.32	2.00	2.00	0.00
400.00	4.00	203.24	399.84	-6.41	-2.75	5.27	2.00	2.00	0.00
471.41	5.43	203.24	471.00	-11.80	-5.07	9.69	2.00	2.00	0.00
Upper Pierre aquifer									
500.00	6.00	203.24	499.45	-14.42	-6.19	11.84	2.00	2.00	0.00
600.00	8.00	203.24	598.70	-25.62	-11.00	21.04	2.00	2.00	0.00
700.00	10.00	203.24	697.47	-39.99	-17.18	32.84	2.00	2.00	0.00
800.00	12.00	203.24	795.62	-57.52	-24.71	47.24	2.00	2.00	0.00
900.00	14.00	203.24	893.06	-78.19	-33.58	64.21	2.00	2.00	0.00
1,000.00	16.00	203.24	989.64	-101.97	-43.80	83.74	2.00	2.00	0.00
1,100.00	18.00	203.24	1,085.27	-128.83	-55.34	105.80	2.00	2.00	0.00
1,200.00	20.00	203.24	1,179.82	-158.74	-68.18	130.37	2.00	2.00	0.00
1,300.00	22.00	203.24	1,273.17	-191.67	-82.33	157.41	2.00	2.00	0.00
1,400.00	24.00	203.24	1,365.21	-227.57	-97.75	186.89	2.00	2.00	0.00
1,417.30	24.35	203.24	1,381.00	-234.08	-100.54	192.24	2.00	2.00	0.00
Base of Upper Pierre aquifer									
1,500.00	26.00	203.24	1,455.84	-266.40	-114.42	218.78	2.00	2.00	0.00
1,600.00	28.00	203.24	1,544.94	-308.11	-132.34	253.04	2.00	2.00	0.00
1,700.00	30.00	203.24	1,632.39	-352.66	-151.47	289.62	2.00	2.00	0.00
1,800.00	32.00	203.24	1,718.11	-399.98	-171.80	328.48	2.00	2.00	0.00
1,900.00	34.00	203.24	1,801.97	-450.02	-193.29	369.58	2.00	2.00	0.00
2,000.00	36.00	203.24	1,883.88	-502.72	-215.93	412.86	2.00	2.00	0.00
2,100.00	38.00	203.24	1,963.74	-558.01	-239.68	458.27	2.00	2.00	0.00
2,200.00	40.00	203.24	2,041.45	-615.83	-264.51	505.76	2.00	2.00	0.00
2,300.00	42.00	203.24	2,116.92	-676.11	-290.40	555.26	2.00	2.00	0.00
2,400.00	44.00	203.24	2,190.05	-738.77	-317.32	606.72	2.00	2.00	0.00
2,500.00	46.00	203.24	2,260.76	-803.74	-345.22	660.08	2.00	2.00	0.00
2,600.00	48.00	203.24	2,328.95	-870.93	-374.08	715.26	2.00	2.00	0.00
2,700.00	50.00	203.24	2,394.55	-940.27	-403.87	772.21	2.00	2.00	0.00
2,807.67	52.15	203.24	2,462.20	-1,017.24	-436.92	835.41	2.00	2.00	0.00
Start 7503.57 hold at 2807.67 MD									
2,900.00	52.15	203.24	2,518.85	-1,084.23	-465.70	890.43	0.00	0.00	0.00
3,000.00	52.15	203.24	2,580.20	-1,156.78	-496.86	950.02	0.00	0.00	0.00
3,100.00	52.15	203.24	2,641.56	-1,229.34	-528.03	1,009.60	0.00	0.00	0.00
3,200.00	52.15	203.24	2,702.91	-1,301.89	-559.19	1,069.19	0.00	0.00	0.00
3,300.00	52.15	203.24	2,764.27	-1,374.45	-590.36	1,128.78	0.00	0.00	0.00
3,400.00	52.15	203.24	2,825.62	-1,447.01	-621.52	1,188.37	0.00	0.00	0.00
3,500.00	52.15	203.24	2,886.98	-1,519.56	-652.69	1,247.95	0.00	0.00	0.00
3,600.00	52.15	203.24	2,948.33	-1,592.12	-683.85	1,307.54	0.00	0.00	0.00
3,700.00	52.15	203.24	3,009.68	-1,664.67	-715.01	1,367.13	0.00	0.00	0.00
3,800.00	52.15	203.24	3,071.04	-1,737.23	-746.18	1,426.72	0.00	0.00	0.00
3,900.00	52.15	203.24	3,132.39	-1,809.79	-777.34	1,486.30	0.00	0.00	0.00
4,000.00	52.15	203.24	3,193.75	-1,882.34	-808.51	1,545.89	0.00	0.00	0.00
4,100.00	52.15	203.24	3,255.10	-1,954.90	-839.67	1,605.48	0.00	0.00	0.00
4,200.00	52.15	203.24	3,316.46	-2,027.45	-870.84	1,665.06	0.00	0.00	0.00

Civitas Resources

Planning Report

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Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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)	
4,300.00	52.15	203.24	3,377.81	-2,100.01	-902.00	1,724.65	0.00	0.00	0.00	
4,400.00	52.15	203.24	3,439.17	-2,172.57	-933.16	1,784.24	0.00	0.00	0.00	
4,500.00	52.15	203.24	3,500.52	-2,245.12	-964.33	1,843.83	0.00	0.00	0.00	
4,600.00	52.15	203.24	3,561.88	-2,317.68	-995.49	1,903.41	0.00	0.00	0.00	
4,700.00	52.15	203.24	3,623.23	-2,390.23	-1,026.66	1,963.00	0.00	0.00	0.00	
4,800.00	52.15	203.24	3,684.59	-2,462.79	-1,057.82	2,022.59	0.00	0.00	0.00	
4,851.20	52.15	203.24	3,716.00	-2,499.94	-1,073.78	2,053.09	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,900.00	52.15	203.24	3,745.94	-2,535.35	-1,088.99	2,082.17	0.00	0.00	0.00	
5,000.00	52.15	203.24	3,807.30	-2,607.90	-1,120.15	2,141.76	0.00	0.00	0.00	
5,100.00	52.15	203.24	3,868.65	-2,680.46	-1,151.32	2,201.35	0.00	0.00	0.00	
5,200.00	52.15	203.24	3,930.01	-2,753.01	-1,182.48	2,260.94	0.00	0.00	0.00	
5,300.00	52.15	203.24	3,991.36	-2,825.57	-1,213.64	2,320.52	0.00	0.00	0.00	
5,332.01	52.15	203.24	4,011.00	-2,848.79	-1,223.62	2,339.60	0.00	0.00	0.00	
Pierre Formation										
5,400.00	52.15	203.24	4,052.72	-2,898.13	-1,244.81	2,380.11	0.00	0.00	0.00	
5,500.00	52.15	203.24	4,114.07	-2,970.68	-1,275.97	2,439.70	0.00	0.00	0.00	
5,600.00	52.15	203.24	4,175.43	-3,043.24	-1,307.14	2,499.28	0.00	0.00	0.00	
5,641.68	52.15	203.24	4,201.00	-3,073.48	-1,320.13	2,524.12	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
5,700.00	52.15	203.24	4,236.78	-3,115.79	-1,338.30	2,558.87	0.00	0.00	0.00	
5,800.00	52.15	203.24	4,298.14	-3,188.35	-1,369.47	2,618.46	0.00	0.00	0.00	
5,900.00	52.15	203.24	4,359.49	-3,260.91	-1,400.63	2,678.05	0.00	0.00	0.00	
6,000.00	52.15	203.24	4,420.85	-3,333.46	-1,431.79	2,737.63	0.00	0.00	0.00	
6,081.75	52.15	203.24	4,471.00	-3,392.77	-1,457.27	2,786.34	0.00	0.00	0.00	
Pierre Formation										
6,100.00	52.15	203.24	4,482.20	-3,406.02	-1,462.96	2,797.22	0.00	0.00	0.00	
6,200.00	52.15	203.24	4,543.55	-3,478.57	-1,494.12	2,856.81	0.00	0.00	0.00	
6,300.00	52.15	203.24	4,604.91	-3,551.13	-1,525.29	2,916.39	0.00	0.00	0.00	
6,400.00	52.15	203.24	4,666.26	-3,623.69	-1,556.45	2,975.98	0.00	0.00	0.00	
6,500.00	52.15	203.24	4,727.62	-3,696.24	-1,587.62	3,035.57	0.00	0.00	0.00	
6,587.00	52.15	203.24	4,781.00	-3,759.37	-1,614.73	3,087.41	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
6,600.00	52.15	203.24	4,788.97	-3,768.80	-1,618.78	3,095.16	0.00	0.00	0.00	
6,700.00	52.15	203.24	4,850.33	-3,841.35	-1,649.94	3,154.74	0.00	0.00	0.00	
6,800.00	52.15	203.24	4,911.68	-3,913.91	-1,681.11	3,214.33	0.00	0.00	0.00	
6,900.00	52.15	203.24	4,973.04	-3,986.47	-1,712.27	3,273.92	0.00	0.00	0.00	
6,970.02	52.15	203.24	5,016.00	-4,037.27	-1,734.10	3,315.64	0.00	0.00	0.00	
Pierre Formation										
7,000.00	52.15	203.24	5,034.39	-4,059.02	-1,743.44	3,333.51	0.00	0.00	0.00	
7,100.00	52.15	203.24	5,095.75	-4,131.58	-1,774.60	3,393.09	0.00	0.00	0.00	
7,200.00	52.15	203.24	5,157.10	-4,204.13	-1,805.77	3,452.68	0.00	0.00	0.00	
7,300.00	52.15	203.24	5,218.46	-4,276.69	-1,836.93	3,512.27	0.00	0.00	0.00	
7,400.00	52.15	203.24	5,279.81	-4,349.25	-1,868.10	3,571.85	0.00	0.00	0.00	
7,500.00	52.15	203.24	5,341.17	-4,421.80	-1,899.26	3,631.44	0.00	0.00	0.00	
7,600.00	52.15	203.24	5,402.52	-4,494.36	-1,930.42	3,691.03	0.00	0.00	0.00	
7,700.00	52.15	203.24	5,463.88	-4,566.91	-1,961.59	3,750.62	0.00	0.00	0.00	
7,800.00	52.15	203.24	5,525.23	-4,639.47	-1,992.75	3,810.20	0.00	0.00	0.00	
7,900.00	52.15	203.24	5,586.59	-4,712.03	-2,023.92	3,869.79	0.00	0.00	0.00	
8,000.00	52.15	203.24	5,647.94	-4,784.58	-2,055.08	3,929.38	0.00	0.00	0.00	
8,100.00	52.15	203.24	5,709.30	-4,857.14	-2,086.25	3,988.96	0.00	0.00	0.00	
8,200.00	52.15	203.24	5,770.65	-4,929.69	-2,117.41	4,048.55	0.00	0.00	0.00	
8,300.00	52.15	203.24	5,832.01	-5,002.25	-2,148.57	4,108.14	0.00	0.00	0.00	

Civitas Resources

Planning Report

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Company:	EXTRACTION OIL & GAS	TVD Reference:	KBE 25' @ 4922.00usft
Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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)	
8,400.00	52.15	203.24	5,893.36	-5,074.81	-2,179.74	4,167.73	0.00	0.00	0.00	
8,500.00	52.15	203.24	5,954.72	-5,147.36	-2,210.90	4,227.31	0.00	0.00	0.00	
8,600.00	52.15	203.24	6,016.07	-5,219.92	-2,242.07	4,286.90	0.00	0.00	0.00	
8,700.00	52.15	203.24	6,077.43	-5,292.47	-2,273.23	4,346.49	0.00	0.00	0.00	
8,800.00	52.15	203.24	6,138.78	-5,365.03	-2,304.40	4,406.07	0.00	0.00	0.00	
8,900.00	52.15	203.24	6,200.13	-5,437.59	-2,335.56	4,465.66	0.00	0.00	0.00	
9,000.00	52.15	203.24	6,261.49	-5,510.14	-2,366.73	4,525.25	0.00	0.00	0.00	
9,100.00	52.15	203.24	6,322.84	-5,582.70	-2,397.89	4,584.84	0.00	0.00	0.00	
9,200.00	52.15	203.24	6,384.20	-5,655.25	-2,429.05	4,644.42	0.00	0.00	0.00	
9,300.00	52.15	203.24	6,445.55	-5,727.81	-2,460.22	4,704.01	0.00	0.00	0.00	
9,400.00	52.15	203.24	6,506.91	-5,800.37	-2,491.38	4,763.60	0.00	0.00	0.00	
9,500.00	52.15	203.24	6,568.26	-5,872.92	-2,522.55	4,823.18	0.00	0.00	0.00	
9,600.00	52.15	203.24	6,629.62	-5,945.48	-2,553.71	4,882.77	0.00	0.00	0.00	
9,700.00	52.15	203.24	6,690.97	-6,018.03	-2,584.88	4,942.36	0.00	0.00	0.00	
9,800.00	52.15	203.24	6,752.33	-6,090.59	-2,616.04	5,001.95	0.00	0.00	0.00	
9,900.00	52.15	203.24	6,813.68	-6,163.15	-2,647.20	5,061.53	0.00	0.00	0.00	
10,000.00	52.15	203.24	6,875.04	-6,235.70	-2,678.37	5,121.12	0.00	0.00	0.00	
10,100.00	52.15	203.24	6,936.39	-6,308.26	-2,709.53	5,180.71	0.00	0.00	0.00	
10,140.11	52.15	203.24	6,961.00	-6,337.36	-2,722.03	5,204.61	0.00	0.00	0.00	
Sharon Springs Member										
10,200.00	52.15	203.24	6,997.75	-6,380.81	-2,740.70	5,240.30	0.00	0.00	0.00	
10,205.30	52.15	203.24	7,001.00	-6,384.66	-2,742.35	5,243.45	0.00	0.00	0.00	
Niobrara Formation										
10,300.00	52.15	203.24	7,059.10	-6,453.37	-2,771.86	5,299.88	0.00	0.00	0.00	
10,311.24	52.15	203.24	7,066.00	-6,461.52	-2,775.37	5,306.58	0.00	0.00	0.00	
Start DLS 10.00 TFO 75.30										
10,350.00	53.23	207.93	7,089.50	-6,489.31	-2,788.68	5,330.64	10.00	2.78	12.08	
10,400.00	54.88	213.76	7,118.86	-6,524.03	-2,809.44	5,364.42	10.00	3.30	11.66	
10,450.00	56.80	219.34	7,146.95	-6,557.23	-2,834.08	5,401.03	10.00	3.84	11.16	
10,500.00	58.95	224.67	7,173.55	-6,588.66	-2,862.41	5,440.21	10.00	4.31	10.66	
10,550.00	61.32	229.75	7,198.46	-6,618.09	-2,894.23	5,481.65	10.00	4.73	10.16	
10,600.00	63.86	234.60	7,221.49	-6,645.28	-2,929.28	5,525.04	10.00	5.09	9.70	
10,650.00	66.57	239.23	7,242.46	-6,670.03	-2,967.31	5,570.04	10.00	5.40	9.27	
10,700.00	69.40	243.68	7,261.21	-6,692.15	-3,008.02	5,616.32	10.00	5.66	8.89	
10,750.00	72.34	247.96	7,277.60	-6,711.48	-3,051.10	5,663.52	10.00	5.88	8.56	
10,800.00	75.37	252.10	7,291.51	-6,727.86	-3,096.23	5,711.29	10.00	6.06	8.28	
10,818.49	76.51	253.60	7,296.00	-6,733.15	-3,113.37	5,729.02	10.00	6.16	8.12	
Fort Hays limestone										
10,850.00	78.47	256.13	7,302.83	-6,741.18	-3,143.06	5,759.25	10.00	6.23	8.02	
10,900.00	81.63	260.06	7,311.47	-6,751.33	-3,191.24	5,807.05	10.00	6.31	7.88	
10,950.00	84.82	263.94	7,317.37	-6,758.23	-3,240.39	5,854.32	10.00	6.39	7.75	
11,000.00	88.04	267.77	7,320.48	-6,761.83	-3,290.15	5,900.71	10.00	6.44	7.67	
11,030.38	90.00	270.09	7,321.00	-6,762.40	-3,320.51	5,928.30	10.00	6.45	7.64	
Start 10665.88 hold at 11030.37 MD - Codell sandstone										
11,100.00	90.00	270.09	7,321.00	-6,762.28	-3,390.13	5,990.96	0.00	0.00	0.00	
11,200.00	90.00	270.09	7,321.00	-6,762.12	-3,490.13	6,080.96	0.00	0.00	0.00	
11,300.00	90.00	270.09	7,321.00	-6,761.95	-3,590.13	6,170.97	0.00	0.00	0.00	
11,400.00	90.00	270.09	7,321.00	-6,761.79	-3,690.13	6,260.97	0.00	0.00	0.00	
11,500.00	90.00	270.09	7,321.00	-6,761.63	-3,790.13	6,350.97	0.00	0.00	0.00	
11,600.00	90.00	270.09	7,321.00	-6,761.46	-3,890.13	6,440.97	0.00	0.00	0.00	
11,700.00	90.00	270.09	7,321.00	-6,761.30	-3,990.13	6,530.97	0.00	0.00	0.00	
11,800.00	90.00	270.09	7,321.00	-6,761.13	-4,090.13	6,620.97	0.00	0.00	0.00	
11,900.00	90.00	270.09	7,321.00	-6,760.97	-4,190.13	6,710.98	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well MAVERICK 2W-20-03
Company:	EXTRACTION OIL & GAS	TVD Reference:	KBE 25' @ 4922.00usft
Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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)	
12,000.00	90.00	270.09	7,321.00	-6,760.80	-4,290.13	6,800.98	0.00	0.00	0.00	
12,100.00	90.00	270.09	7,321.00	-6,760.64	-4,390.13	6,890.98	0.00	0.00	0.00	
12,200.00	90.00	270.09	7,321.00	-6,760.47	-4,490.13	6,980.98	0.00	0.00	0.00	
12,300.00	90.00	270.09	7,321.00	-6,760.31	-4,590.13	7,070.98	0.00	0.00	0.00	
12,400.00	90.00	270.09	7,321.00	-6,760.15	-4,690.13	7,160.98	0.00	0.00	0.00	
12,500.00	90.00	270.09	7,321.00	-6,759.98	-4,790.13	7,250.99	0.00	0.00	0.00	
12,600.00	90.00	270.09	7,321.00	-6,759.82	-4,890.13	7,340.99	0.00	0.00	0.00	
12,700.00	90.00	270.09	7,321.00	-6,759.65	-4,990.13	7,430.99	0.00	0.00	0.00	
12,800.00	90.00	270.09	7,321.00	-6,759.49	-5,090.13	7,520.99	0.00	0.00	0.00	
12,900.00	90.00	270.09	7,321.00	-6,759.32	-5,190.13	7,610.99	0.00	0.00	0.00	
13,000.00	90.00	270.09	7,321.00	-6,759.16	-5,290.13	7,701.00	0.00	0.00	0.00	
13,100.00	90.00	270.09	7,321.00	-6,758.99	-5,390.13	7,791.00	0.00	0.00	0.00	
13,200.00	90.00	270.09	7,321.00	-6,758.83	-5,490.13	7,881.00	0.00	0.00	0.00	
13,300.00	90.00	270.09	7,321.00	-6,758.67	-5,590.13	7,971.00	0.00	0.00	0.00	
13,400.00	90.00	270.09	7,321.00	-6,758.50	-5,690.13	8,061.00	0.00	0.00	0.00	
13,500.00	90.00	270.09	7,321.00	-6,758.34	-5,790.13	8,151.00	0.00	0.00	0.00	
13,600.00	90.00	270.09	7,321.00	-6,758.17	-5,890.13	8,241.01	0.00	0.00	0.00	
13,700.00	90.00	270.09	7,321.00	-6,758.01	-5,990.13	8,331.01	0.00	0.00	0.00	
13,800.00	90.00	270.09	7,321.00	-6,757.84	-6,090.13	8,421.01	0.00	0.00	0.00	
13,900.00	90.00	270.09	7,321.00	-6,757.68	-6,190.13	8,511.01	0.00	0.00	0.00	
14,000.00	90.00	270.09	7,321.00	-6,757.52	-6,290.13	8,601.01	0.00	0.00	0.00	
14,100.00	90.00	270.09	7,321.00	-6,757.35	-6,390.13	8,691.01	0.00	0.00	0.00	
14,200.00	90.00	270.09	7,321.00	-6,757.19	-6,490.13	8,781.02	0.00	0.00	0.00	
14,300.00	90.00	270.09	7,321.00	-6,757.02	-6,590.13	8,871.02	0.00	0.00	0.00	
14,400.00	90.00	270.09	7,321.00	-6,756.86	-6,690.13	8,961.02	0.00	0.00	0.00	
14,500.00	90.00	270.09	7,321.00	-6,756.69	-6,790.13	9,051.02	0.00	0.00	0.00	
14,600.00	90.00	270.09	7,321.00	-6,756.53	-6,890.13	9,141.02	0.00	0.00	0.00	
14,700.00	90.00	270.09	7,321.00	-6,756.36	-6,990.13	9,231.02	0.00	0.00	0.00	
14,800.00	90.00	270.09	7,321.00	-6,756.20	-7,090.13	9,321.03	0.00	0.00	0.00	
14,900.00	90.00	270.09	7,321.00	-6,756.04	-7,190.13	9,411.03	0.00	0.00	0.00	
15,000.00	90.00	270.09	7,321.00	-6,755.87	-7,290.13	9,501.03	0.00	0.00	0.00	
15,100.00	90.00	270.09	7,321.00	-6,755.71	-7,390.13	9,591.03	0.00	0.00	0.00	
15,200.00	90.00	270.09	7,321.00	-6,755.54	-7,490.13	9,681.03	0.00	0.00	0.00	
15,300.00	90.00	270.09	7,321.00	-6,755.38	-7,590.13	9,771.04	0.00	0.00	0.00	
15,400.00	90.00	270.09	7,321.00	-6,755.21	-7,690.13	9,861.04	0.00	0.00	0.00	
15,500.00	90.00	270.09	7,321.00	-6,755.05	-7,790.13	9,951.04	0.00	0.00	0.00	
15,600.00	90.00	270.09	7,321.00	-6,754.89	-7,890.13	10,041.04	0.00	0.00	0.00	
15,700.00	90.00	270.09	7,321.00	-6,754.72	-7,990.13	10,131.04	0.00	0.00	0.00	
15,800.00	90.00	270.09	7,321.00	-6,754.56	-8,090.13	10,221.04	0.00	0.00	0.00	
15,900.00	90.00	270.09	7,321.00	-6,754.39	-8,190.13	10,311.05	0.00	0.00	0.00	
16,000.00	90.00	270.09	7,321.00	-6,754.23	-8,290.13	10,401.05	0.00	0.00	0.00	
16,100.00	90.00	270.09	7,321.00	-6,754.06	-8,390.13	10,491.05	0.00	0.00	0.00	
16,200.00	90.00	270.09	7,321.00	-6,753.90	-8,490.13	10,581.05	0.00	0.00	0.00	
16,300.00	90.00	270.09	7,321.00	-6,753.73	-8,590.13	10,671.05	0.00	0.00	0.00	
16,400.00	90.00	270.09	7,321.00	-6,753.57	-8,690.12	10,761.05	0.00	0.00	0.00	
16,500.00	90.00	270.09	7,321.00	-6,753.41	-8,790.12	10,851.06	0.00	0.00	0.00	
16,600.00	90.00	270.09	7,321.00	-6,753.24	-8,890.12	10,941.06	0.00	0.00	0.00	
16,700.00	90.00	270.09	7,321.00	-6,753.08	-8,990.12	11,031.06	0.00	0.00	0.00	
16,800.00	90.00	270.09	7,321.00	-6,752.91	-9,090.12	11,121.06	0.00	0.00	0.00	
16,900.00	90.00	270.09	7,321.00	-6,752.75	-9,190.12	11,211.06	0.00	0.00	0.00	
17,000.00	90.00	270.09	7,321.00	-6,752.58	-9,290.12	11,301.06	0.00	0.00	0.00	
17,100.00	90.00	270.09	7,321.00	-6,752.42	-9,390.12	11,391.07	0.00	0.00	0.00	
17,200.00	90.00	270.09	7,321.00	-6,752.26	-9,490.12	11,481.07	0.00	0.00	0.00	
17,300.00	90.00	270.09	7,321.00	-6,752.09	-9,590.12	11,571.07	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well MAVERICK 2W-20-03
Company:	EXTRACTION OIL & GAS	TVD Reference:	KBE 25' @ 4922.00usft
Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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)	
17,400.00	90.00	270.09	7,321.00	-6,751.93	-9,690.12	11,661.07	0.00	0.00	0.00	
17,500.00	90.00	270.09	7,321.00	-6,751.76	-9,790.12	11,751.07	0.00	0.00	0.00	
17,600.00	90.00	270.09	7,321.00	-6,751.60	-9,890.12	11,841.08	0.00	0.00	0.00	
17,700.00	90.00	270.09	7,321.00	-6,751.43	-9,990.12	11,931.08	0.00	0.00	0.00	
17,800.00	90.00	270.09	7,321.00	-6,751.27	-10,090.12	12,021.08	0.00	0.00	0.00	
17,900.00	90.00	270.09	7,321.00	-6,751.10	-10,190.12	12,111.08	0.00	0.00	0.00	
18,000.00	90.00	270.09	7,321.00	-6,750.94	-10,290.12	12,201.08	0.00	0.00	0.00	
18,100.00	90.00	270.09	7,321.00	-6,750.78	-10,390.12	12,291.08	0.00	0.00	0.00	
18,200.00	90.00	270.09	7,321.00	-6,750.61	-10,490.12	12,381.09	0.00	0.00	0.00	
18,300.00	90.00	270.09	7,321.00	-6,750.45	-10,590.12	12,471.09	0.00	0.00	0.00	
18,400.00	90.00	270.09	7,321.00	-6,750.28	-10,690.12	12,561.09	0.00	0.00	0.00	
18,500.00	90.00	270.09	7,321.00	-6,750.12	-10,790.12	12,651.09	0.00	0.00	0.00	
18,600.00	90.00	270.09	7,321.00	-6,749.95	-10,890.12	12,741.09	0.00	0.00	0.00	
18,700.00	90.00	270.09	7,321.00	-6,749.79	-10,990.12	12,831.09	0.00	0.00	0.00	
18,800.00	90.00	270.09	7,321.00	-6,749.62	-11,090.12	12,921.10	0.00	0.00	0.00	
18,900.00	90.00	270.09	7,321.00	-6,749.46	-11,190.12	13,011.10	0.00	0.00	0.00	
19,000.00	90.00	270.09	7,321.00	-6,749.30	-11,290.12	13,101.10	0.00	0.00	0.00	
19,100.00	90.00	270.09	7,321.00	-6,749.13	-11,390.12	13,191.10	0.00	0.00	0.00	
19,200.00	90.00	270.09	7,321.00	-6,748.97	-11,490.12	13,281.10	0.00	0.00	0.00	
19,300.00	90.00	270.09	7,321.00	-6,748.80	-11,590.12	13,371.10	0.00	0.00	0.00	
19,400.00	90.00	270.09	7,321.00	-6,748.64	-11,690.12	13,461.11	0.00	0.00	0.00	
19,500.00	90.00	270.09	7,321.00	-6,748.47	-11,790.12	13,551.11	0.00	0.00	0.00	
19,600.00	90.00	270.09	7,321.00	-6,748.31	-11,890.12	13,641.11	0.00	0.00	0.00	
19,700.00	90.00	270.09	7,321.00	-6,748.15	-11,990.12	13,731.11	0.00	0.00	0.00	
19,800.00	90.00	270.09	7,321.00	-6,747.98	-12,090.12	13,821.11	0.00	0.00	0.00	
19,900.00	90.00	270.09	7,321.00	-6,747.82	-12,190.12	13,911.11	0.00	0.00	0.00	
20,000.00	90.00	270.09	7,321.00	-6,747.65	-12,290.12	14,001.12	0.00	0.00	0.00	
20,100.00	90.00	270.09	7,321.00	-6,747.49	-12,390.12	14,091.12	0.00	0.00	0.00	
20,200.00	90.00	270.09	7,321.00	-6,747.32	-12,490.12	14,181.12	0.00	0.00	0.00	
20,300.00	90.00	270.09	7,321.00	-6,747.16	-12,590.12	14,271.12	0.00	0.00	0.00	
20,400.00	90.00	270.09	7,321.00	-6,746.99	-12,690.12	14,361.12	0.00	0.00	0.00	
20,500.00	90.00	270.09	7,321.00	-6,746.83	-12,790.12	14,451.13	0.00	0.00	0.00	
20,600.00	90.00	270.09	7,321.00	-6,746.67	-12,890.12	14,541.13	0.00	0.00	0.00	
20,700.00	90.00	270.09	7,321.00	-6,746.50	-12,990.12	14,631.13	0.00	0.00	0.00	
20,800.00	90.00	270.09	7,321.00	-6,746.34	-13,090.12	14,721.13	0.00	0.00	0.00	
20,900.00	90.00	270.09	7,321.00	-6,746.17	-13,190.12	14,811.13	0.00	0.00	0.00	
21,000.00	90.00	270.09	7,321.00	-6,746.01	-13,290.12	14,901.13	0.00	0.00	0.00	
21,100.00	90.00	270.09	7,321.00	-6,745.84	-13,390.12	14,991.14	0.00	0.00	0.00	
21,200.00	90.00	270.09	7,321.00	-6,745.68	-13,490.12	15,081.14	0.00	0.00	0.00	
21,300.00	90.00	270.09	7,321.00	-6,745.52	-13,590.12	15,171.14	0.00	0.00	0.00	
21,400.00	90.00	270.09	7,321.00	-6,745.35	-13,690.12	15,261.14	0.00	0.00	0.00	
21,500.00	90.00	270.09	7,321.00	-6,745.19	-13,790.12	15,351.14	0.00	0.00	0.00	
21,600.00	90.00	270.09	7,321.00	-6,745.02	-13,890.12	15,441.14	0.00	0.00	0.00	
21,696.25	90.00	270.09	7,321.00	-6,744.86	-13,986.37	15,527.77	0.00	0.00	0.00	
TD at 21696.25										

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well MAVERICK 2W-20-03
Company:	EXTRACTION OIL & GAS	TVD Reference:	KBE 25' @ 4922.00usft
Project:	WELD COUNTY	MD Reference:	KBE 25' @ 4922.00usft
Site:	Sec 36-T7N-R67W	North Reference:	True
Well:	MAVERICK 2W-20-03	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-MAVERICK 2W-20-0	0.00	0.00	7,321.00	-6,762.40	-3,320.51	1,429,790.07	3,180,299.53	40.511365°N	104.851558°W
- plan hits target center									
- Point									
PBHL-MAVERICK 2W-2	0.00	0.00	7,321.00	-6,744.86	-13,986.37	1,429,728.17	3,169,633.83	40.511403°N	104.889917°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			
196.00	196.00	Pierre Formation			
471.41	471.00	Upper Pierre aquifer			
1,417.30	1,381.00	Base of Upper Pierre aquifer			
4,851.20	3,716.00	Larimer ("Parkman") sandstone			
5,332.01	4,011.00	Pierre Formation			
5,641.68	4,201.00	Terry ("Sussex") sandstone			
6,081.75	4,471.00	Pierre Formation			
6,587.00	4,781.00	Hygiene ("Shannon") sandstone			
6,970.02	5,016.00	Pierre Formation			
10,140.11	6,961.00	Sharon Springs Member			
10,205.30	7,001.00	Niobrara Formation			
10,818.49	7,296.00	Fort Hays limestone			
11,030.38	7,321.00	Codell sandstone			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
200.00	200.00	0.00	0.00	Start Build 2.00
2,807.67	2,462.20	-1,017.24	-436.92	Start 7503.57 hold at 2807.67 MD
10,311.24	7,066.00	-6,461.52	-2,775.37	Start DLS 10.00 TFO 75.30
11,030.38	7,321.00	-6,762.40	-3,320.51	Start 10665.88 hold at 11030.37 MD
21,696.25	7,321.00	-6,744.86	-13,986.37	TD at 21696.25