

VERDAD RESOURCES

WATTENBERG FIELD

1N-64W-10 TIGER 0916 PAD

TIGER 0916-06H

Wellbore #1

Plan: Design #1

Standard Planning Report

27 December, 2022

Project: WATTENBERG FIELD
Site: 1N-64W-10 TIGER 0916 PAD
Well: TIGER 0916-06H
Wellbore: Wellbore #1
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
2304.00	2436.69	9 5/8"	9-5/8

SHL	LP/TPZ	BPZ	BHL
245' FNL	460' FNL	460' FSL	370' FSL
1387' FWL	1714' FEL	1714' FEL	1714' FEL

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
325.70	0.00	0.00	325.70	0.00	0.00	0.00	0.00	0.00	
1678.70	27.06	273.00	1628.96	16.41	-313.18	2.00	273.00	-16.08	
1823.99	27.06	279.39	1758.37	23.54	-378.80	2.00	92.85	-23.14	
7192.96	27.06	279.39	6539.60	422.03	-2788.54	0.00	0.00	-419.11	
8239.94	90.00	180.06	7150.00	-212.52	-3096.92	9.00	-98.32	215.76	
18101.98	90.00	180.06	7150.00	-10074.54	-3107.66	0.00	0.00	10077.79	TIGER 0916-06H_BHL

WELLBORE TARGET DETAILS

Name	TVD	Northing	Easting	Latitude	Longitude
TIGER 0916-06H_SHL	0.00	1270723.48	3268261.25	40.072546	-104.541411
TIGER 0916-06H_LP/TPZ	7150.00	1270477.52	3265166.82	40.071962	-104.552477
TIGER 0916-06H_BPZ	7150.00	1260705.93	3265263.96	40.045136	-104.552503
TIGER 0916-06H_BHL	7150.00	1260615.93	3265262.68	40.044889	-104.552511

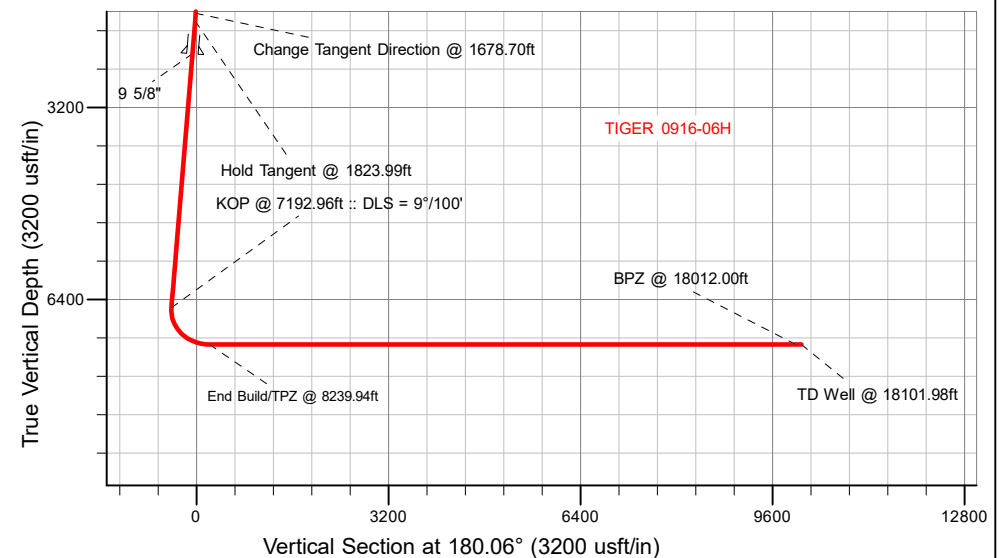
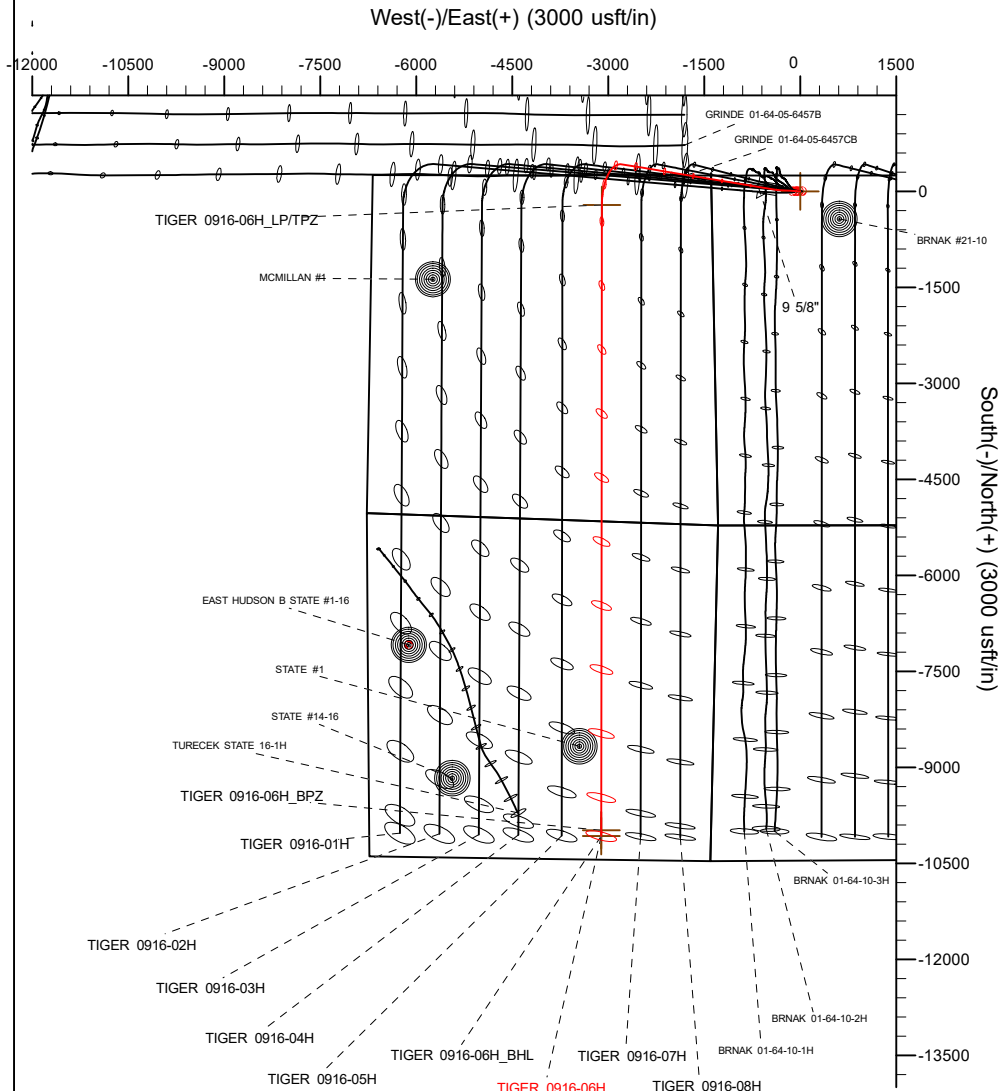
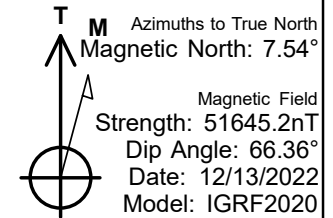
WELL DETAILS: TIGER 0916-06H

GL = 5105'

RKB = 24' @ 5129.00usft (RIG)

Plan: Design #1 (TIGER 0916-06H/Wellbore #1)

Date: 12/27/2022



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	WATTENBERG FIELD		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		1N-64W-10 TIGER 0916 PAD			
Site Position:		Northing:	1,270,722.66 usft	Latitude:	40.072546
From:	Lat/Long	Easting:	3,268,181.22 usft	Longitude:	-104.541697
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well		TIGER 0916-06H				
Well Position	+N/-S	0.00 usft	Northing:	1,270,723.48 usft	Latitude:	40.072546
	+E/-W	0.00 usft	Easting:	3,268,261.25 usft	Longitude:	-104.541411
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,105.00 usft
Grid Convergence:		0.62 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	12/13/2022	7.54	66.36	51,645.22550708

Design	Design #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.06	

Plan Survey Tool Program		Date	12/27/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,436.69	Design #1 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,436.69	18,101.98	Design #1 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
325.70	0.00	0.00	325.70	0.00	0.00	0.00	0.00	0.00	0.00	
1,678.70	27.06	273.00	1,628.96	16.41	-313.18	2.00	2.00	0.00	273.00	
1,823.99	27.06	279.39	1,758.37	23.54	-378.80	2.00	0.00	4.40	92.85	
7,192.96	27.06	279.39	6,539.60	422.03	-2,788.54	0.00	0.00	0.00	0.00	
8,239.94	90.00	180.06	7,150.00	-212.52	-3,096.92	9.00	6.01	-9.49	-98.32	
18,101.98	90.00	180.06	7,150.00	-10,074.54	-3,107.66	0.00	0.00	0.00	0.00	TIGER 0916-06H_BH

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
325.70	0.00	0.00	325.70	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 325.70ft									
400.00	1.49	273.00	399.99	0.05	-0.96	-0.05	2.00	2.00	0.00
500.00	3.49	273.00	499.89	0.28	-5.29	-0.27	2.00	2.00	0.00
600.00	5.49	273.00	599.58	0.69	-13.10	-0.67	2.00	2.00	0.00
700.00	7.49	273.00	698.94	1.28	-24.38	-1.25	2.00	2.00	0.00
800.00	9.49	273.00	797.84	2.05	-39.12	-2.01	2.00	2.00	0.00
900.00	11.49	273.00	896.16	3.00	-57.29	-2.94	2.00	2.00	0.00
1,000.00	13.49	273.00	993.79	4.13	-78.88	-4.05	2.00	2.00	0.00
1,100.00	15.49	273.00	1,090.61	5.44	-103.86	-5.33	2.00	2.00	0.00
1,200.00	17.49	273.00	1,186.49	6.93	-132.20	-6.79	2.00	2.00	0.00
1,300.00	19.49	273.00	1,281.33	8.59	-163.86	-8.42	2.00	2.00	0.00
1,400.00	21.49	273.00	1,375.00	10.42	-198.81	-10.21	2.00	2.00	0.00
1,500.00	23.49	273.00	1,467.39	12.42	-237.00	-12.17	2.00	2.00	0.00
1,600.00	25.49	273.00	1,558.39	14.59	-278.39	-14.30	2.00	2.00	0.00
1,678.70	27.06	273.00	1,628.96	16.41	-313.18	-16.08	2.00	2.00	0.00
Change Tangent Direction @ 1678.70ft									
1,700.00	27.04	273.94	1,647.93	17.00	-322.85	-16.66	2.00	-0.08	4.39
1,800.00	27.04	278.34	1,737.01	21.86	-368.02	-21.47	2.00	0.00	4.40
1,823.99	27.06	279.39	1,758.37	23.54	-378.80	-23.14	2.00	0.08	4.39
Hold Tangent @ 1823.99ft									
1,900.00	27.06	279.39	1,826.06	29.18	-412.91	-28.75	0.00	0.00	0.00
2,000.00	27.06	279.39	1,915.11	36.60	-457.80	-36.12	0.00	0.00	0.00
2,100.00	27.06	279.39	2,004.17	44.02	-502.68	-43.50	0.00	0.00	0.00
2,200.00	27.06	279.39	2,093.22	51.44	-547.56	-50.87	0.00	0.00	0.00
2,300.00	27.06	279.39	2,182.27	58.87	-592.45	-58.25	0.00	0.00	0.00
2,400.00	27.06	279.39	2,271.33	66.29	-637.33	-65.62	0.00	0.00	0.00
2,436.69	27.06	279.39	2,304.00	69.01	-653.80	-68.33	0.00	0.00	0.00
9 5/8"									
2,500.00	27.06	279.39	2,360.38	73.71	-682.21	-73.00	0.00	0.00	0.00
2,600.00	27.06	279.39	2,449.43	81.13	-727.09	-80.37	0.00	0.00	0.00
2,700.00	27.06	279.39	2,538.49	88.56	-771.98	-87.75	0.00	0.00	0.00
2,800.00	27.06	279.39	2,627.54	95.98	-816.86	-95.12	0.00	0.00	0.00
2,900.00	27.06	279.39	2,716.59	103.40	-861.74	-102.50	0.00	0.00	0.00
3,000.00	27.06	279.39	2,805.65	110.82	-906.62	-109.87	0.00	0.00	0.00
3,100.00	27.06	279.39	2,894.70	118.24	-951.51	-117.25	0.00	0.00	0.00
3,200.00	27.06	279.39	2,983.75	125.67	-996.39	-124.62	0.00	0.00	0.00
3,300.00	27.06	279.39	3,072.80	133.09	-1,041.27	-132.00	0.00	0.00	0.00
3,400.00	27.06	279.39	3,161.86	140.51	-1,086.16	-139.37	0.00	0.00	0.00
3,500.00	27.06	279.39	3,250.91	147.93	-1,131.04	-146.75	0.00	0.00	0.00
3,600.00	27.06	279.39	3,339.96	155.36	-1,175.92	-154.12	0.00	0.00	0.00
3,700.00	27.06	279.39	3,429.02	162.78	-1,220.80	-161.50	0.00	0.00	0.00
3,800.00	27.06	279.39	3,518.07	170.20	-1,265.69	-168.87	0.00	0.00	0.00
3,900.00	27.06	279.39	3,607.12	177.62	-1,310.57	-176.25	0.00	0.00	0.00
4,000.00	27.06	279.39	3,696.18	185.04	-1,355.45	-183.63	0.00	0.00	0.00
4,100.00	27.06	279.39	3,785.23	192.47	-1,400.33	-191.00	0.00	0.00	0.00
4,200.00	27.06	279.39	3,874.28	199.89	-1,445.22	-198.38	0.00	0.00	0.00
4,300.00	27.06	279.39	3,963.34	207.31	-1,490.10	-205.75	0.00	0.00	0.00
4,400.00	27.06	279.39	4,052.39	214.73	-1,534.98	-213.13	0.00	0.00	0.00
4,500.00	27.06	279.39	4,141.44	222.16	-1,579.87	-220.50	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	27.06	279.39	4,230.49	229.58	-1,624.75	-227.88	0.00	0.00	0.00
4,700.00	27.06	279.39	4,319.55	237.00	-1,669.63	-235.25	0.00	0.00	0.00
4,800.00	27.06	279.39	4,408.60	244.42	-1,714.51	-242.63	0.00	0.00	0.00
4,900.00	27.06	279.39	4,497.65	251.84	-1,759.40	-250.00	0.00	0.00	0.00
5,000.00	27.06	279.39	4,586.71	259.27	-1,804.28	-257.38	0.00	0.00	0.00
5,100.00	27.06	279.39	4,675.76	266.69	-1,849.16	-264.75	0.00	0.00	0.00
5,200.00	27.06	279.39	4,764.81	274.11	-1,894.05	-272.13	0.00	0.00	0.00
5,300.00	27.06	279.39	4,853.87	281.53	-1,938.93	-279.50	0.00	0.00	0.00
5,400.00	27.06	279.39	4,942.92	288.96	-1,983.81	-286.88	0.00	0.00	0.00
5,500.00	27.06	279.39	5,031.97	296.38	-2,028.69	-294.25	0.00	0.00	0.00
5,600.00	27.06	279.39	5,121.02	303.80	-2,073.58	-301.63	0.00	0.00	0.00
5,700.00	27.06	279.39	5,210.08	311.22	-2,118.46	-309.00	0.00	0.00	0.00
5,800.00	27.06	279.39	5,299.13	318.65	-2,163.34	-316.38	0.00	0.00	0.00
5,900.00	27.06	279.39	5,388.18	326.07	-2,208.22	-323.75	0.00	0.00	0.00
6,000.00	27.06	279.39	5,477.24	333.49	-2,253.11	-331.13	0.00	0.00	0.00
6,100.00	27.06	279.39	5,566.29	340.91	-2,297.99	-338.51	0.00	0.00	0.00
6,200.00	27.06	279.39	5,655.34	348.33	-2,342.87	-345.88	0.00	0.00	0.00
6,300.00	27.06	279.39	5,744.40	355.76	-2,387.76	-353.26	0.00	0.00	0.00
6,400.00	27.06	279.39	5,833.45	363.18	-2,432.64	-360.63	0.00	0.00	0.00
6,500.00	27.06	279.39	5,922.50	370.60	-2,477.52	-368.01	0.00	0.00	0.00
6,600.00	27.06	279.39	6,011.56	378.02	-2,522.40	-375.38	0.00	0.00	0.00
6,700.00	27.06	279.39	6,100.61	385.45	-2,567.29	-382.76	0.00	0.00	0.00
6,800.00	27.06	279.39	6,189.66	392.87	-2,612.17	-390.13	0.00	0.00	0.00
6,900.00	27.06	279.39	6,278.71	400.29	-2,657.05	-397.51	0.00	0.00	0.00
7,000.00	27.06	279.39	6,367.77	407.71	-2,701.94	-404.88	0.00	0.00	0.00
7,100.00	27.06	279.39	6,456.82	415.13	-2,746.82	-412.26	0.00	0.00	0.00
7,192.96	27.06	279.39	6,539.60	422.03	-2,788.54	-419.11	0.00	0.00	0.00
KOP @ 7192.96ft :: DLS = 9°/100'									
7,200.00	26.98	278.01	6,545.88	422.52	-2,791.70	-419.59	9.00	-1.21	-19.63
7,250.00	26.77	268.05	6,590.50	423.72	-2,814.20	-420.77	9.00	-0.42	-19.91
7,300.00	27.25	258.19	6,635.07	420.99	-2,836.66	-418.02	9.00	0.97	-19.72
7,350.00	28.40	248.86	6,679.31	414.35	-2,858.97	-411.36	9.00	2.29	-18.66
7,400.00	30.13	240.35	6,722.94	403.85	-2,880.98	-400.84	9.00	3.46	-17.01
7,450.00	32.35	232.80	6,765.71	389.55	-2,902.55	-386.51	9.00	4.44	-15.11
7,500.00	34.97	226.18	6,807.34	371.53	-2,923.56	-368.47	9.00	5.23	-13.23
7,550.00	37.90	220.43	6,847.57	349.91	-2,943.86	-346.83	9.00	5.86	-11.52
7,600.00	41.07	215.40	6,886.17	324.82	-2,963.35	-321.72	9.00	6.35	-10.04
7,650.00	44.44	211.00	6,922.89	296.42	-2,981.89	-293.30	9.00	6.73	-8.81
7,700.00	47.95	207.11	6,957.50	264.87	-2,999.37	-261.73	9.00	7.03	-7.79
7,750.00	51.58	203.63	6,989.79	230.39	-3,015.69	-227.23	9.00	7.27	-6.96
7,800.00	55.31	200.48	7,019.57	193.16	-3,030.74	-189.99	9.00	7.45	-6.28
7,850.00	59.11	197.61	7,046.65	153.44	-3,044.43	-150.25	9.00	7.60	-5.74
7,900.00	62.97	194.97	7,070.86	111.46	-3,056.68	-108.25	9.00	7.72	-5.30
7,950.00	66.87	192.50	7,092.05	67.47	-3,067.41	-64.26	9.00	7.81	-4.94
8,000.00	70.81	190.16	7,110.10	21.76	-3,076.56	-18.54	9.00	7.88	-4.66
8,050.00	74.78	187.94	7,124.88	-25.39	-3,084.06	28.62	9.00	7.94	-4.44
8,100.00	78.77	185.81	7,136.32	-73.71	-3,089.88	76.94	9.00	7.98	-4.28
8,150.00	82.78	183.73	7,144.33	-122.88	-3,093.97	126.12	9.00	8.01	-4.16
8,200.00	86.79	181.68	7,148.88	-172.60	-3,096.32	175.84	9.00	8.03	-4.09
8,239.94	90.00	180.06	7,150.00	-212.52	-3,096.92	215.76	9.00	8.04	-4.06
End Build/TPZ @ 8239.94ft									
8,300.00	90.00	180.06	7,150.00	-272.57	-3,096.99	275.82	0.00	0.00	0.00
8,400.00	90.00	180.06	7,150.00	-372.57	-3,097.10	375.82	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	90.00	180.06	7,150.00	-472.57	-3,097.21	475.82	0.00	0.00	0.00
8,600.00	90.00	180.06	7,150.00	-572.57	-3,097.32	575.82	0.00	0.00	0.00
8,700.00	90.00	180.06	7,150.00	-672.57	-3,097.43	675.82	0.00	0.00	0.00
8,800.00	90.00	180.06	7,150.00	-772.57	-3,097.53	775.82	0.00	0.00	0.00
8,900.00	90.00	180.06	7,150.00	-872.57	-3,097.64	875.82	0.00	0.00	0.00
9,000.00	90.00	180.06	7,150.00	-972.57	-3,097.75	975.82	0.00	0.00	0.00
9,100.00	90.00	180.06	7,150.00	-1,072.57	-3,097.86	1,075.82	0.00	0.00	0.00
9,200.00	90.00	180.06	7,150.00	-1,172.57	-3,097.97	1,175.82	0.00	0.00	0.00
9,300.00	90.00	180.06	7,150.00	-1,272.57	-3,098.08	1,275.82	0.00	0.00	0.00
9,400.00	90.00	180.06	7,150.00	-1,372.57	-3,098.19	1,375.82	0.00	0.00	0.00
9,500.00	90.00	180.06	7,150.00	-1,472.57	-3,098.30	1,475.82	0.00	0.00	0.00
9,600.00	90.00	180.06	7,150.00	-1,572.57	-3,098.41	1,575.82	0.00	0.00	0.00
9,700.00	90.00	180.06	7,150.00	-1,672.57	-3,098.51	1,675.82	0.00	0.00	0.00
9,800.00	90.00	180.06	7,150.00	-1,772.57	-3,098.62	1,775.82	0.00	0.00	0.00
9,900.00	90.00	180.06	7,150.00	-1,872.57	-3,098.73	1,875.82	0.00	0.00	0.00
10,000.00	90.00	180.06	7,150.00	-1,972.57	-3,098.84	1,975.82	0.00	0.00	0.00
10,100.00	90.00	180.06	7,150.00	-2,072.57	-3,098.95	2,075.82	0.00	0.00	0.00
10,200.00	90.00	180.06	7,150.00	-2,172.57	-3,099.06	2,175.82	0.00	0.00	0.00
10,300.00	90.00	180.06	7,150.00	-2,272.57	-3,099.17	2,275.82	0.00	0.00	0.00
10,400.00	90.00	180.06	7,150.00	-2,372.57	-3,099.28	2,375.82	0.00	0.00	0.00
10,500.00	90.00	180.06	7,150.00	-2,472.57	-3,099.38	2,475.82	0.00	0.00	0.00
10,600.00	90.00	180.06	7,150.00	-2,572.57	-3,099.49	2,575.82	0.00	0.00	0.00
10,700.00	90.00	180.06	7,150.00	-2,672.57	-3,099.60	2,675.82	0.00	0.00	0.00
10,800.00	90.00	180.06	7,150.00	-2,772.57	-3,099.71	2,775.82	0.00	0.00	0.00
10,900.00	90.00	180.06	7,150.00	-2,872.57	-3,099.82	2,875.82	0.00	0.00	0.00
11,000.00	90.00	180.06	7,150.00	-2,972.57	-3,099.93	2,975.82	0.00	0.00	0.00
11,100.00	90.00	180.06	7,150.00	-3,072.57	-3,100.04	3,075.82	0.00	0.00	0.00
11,200.00	90.00	180.06	7,150.00	-3,172.57	-3,100.15	3,175.82	0.00	0.00	0.00
11,300.00	90.00	180.06	7,150.00	-3,272.57	-3,100.26	3,275.82	0.00	0.00	0.00
11,400.00	90.00	180.06	7,150.00	-3,372.57	-3,100.36	3,375.82	0.00	0.00	0.00
11,500.00	90.00	180.06	7,150.00	-3,472.57	-3,100.47	3,475.82	0.00	0.00	0.00
11,600.00	90.00	180.06	7,150.00	-3,572.57	-3,100.58	3,575.82	0.00	0.00	0.00
11,700.00	90.00	180.06	7,150.00	-3,672.57	-3,100.69	3,675.82	0.00	0.00	0.00
11,800.00	90.00	180.06	7,150.00	-3,772.57	-3,100.80	3,775.82	0.00	0.00	0.00
11,900.00	90.00	180.06	7,150.00	-3,872.57	-3,100.91	3,875.82	0.00	0.00	0.00
12,000.00	90.00	180.06	7,150.00	-3,972.57	-3,101.02	3,975.82	0.00	0.00	0.00
12,100.00	90.00	180.06	7,150.00	-4,072.57	-3,101.13	4,075.82	0.00	0.00	0.00
12,200.00	90.00	180.06	7,150.00	-4,172.57	-3,101.23	4,175.82	0.00	0.00	0.00
12,300.00	90.00	180.06	7,150.00	-4,272.57	-3,101.34	4,275.82	0.00	0.00	0.00
12,400.00	90.00	180.06	7,150.00	-4,372.57	-3,101.45	4,375.82	0.00	0.00	0.00
12,500.00	90.00	180.06	7,150.00	-4,472.57	-3,101.56	4,475.82	0.00	0.00	0.00
12,600.00	90.00	180.06	7,150.00	-4,572.57	-3,101.67	4,575.82	0.00	0.00	0.00
12,700.00	90.00	180.06	7,150.00	-4,672.57	-3,101.78	4,675.82	0.00	0.00	0.00
12,800.00	90.00	180.06	7,150.00	-4,772.57	-3,101.89	4,775.82	0.00	0.00	0.00
12,900.00	90.00	180.06	7,150.00	-4,872.57	-3,102.00	4,875.82	0.00	0.00	0.00
13,000.00	90.00	180.06	7,150.00	-4,972.57	-3,102.11	4,975.82	0.00	0.00	0.00
13,100.00	90.00	180.06	7,150.00	-5,072.57	-3,102.21	5,075.82	0.00	0.00	0.00
13,200.00	90.00	180.06	7,150.00	-5,172.57	-3,102.32	5,175.82	0.00	0.00	0.00
13,300.00	90.00	180.06	7,150.00	-5,272.57	-3,102.43	5,275.82	0.00	0.00	0.00
13,400.00	90.00	180.06	7,150.00	-5,372.57	-3,102.54	5,375.82	0.00	0.00	0.00
13,500.00	90.00	180.06	7,150.00	-5,472.57	-3,102.65	5,475.82	0.00	0.00	0.00
13,600.00	90.00	180.06	7,150.00	-5,572.57	-3,102.76	5,575.82	0.00	0.00	0.00
13,700.00	90.00	180.06	7,150.00	-5,672.57	-3,102.87	5,675.82	0.00	0.00	0.00
13,800.00	90.00	180.06	7,150.00	-5,772.57	-3,102.98	5,775.82	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.00	90.00	180.06	7,150.00	-5,872.57	-3,103.08	5,875.82	0.00	0.00	0.00
14,000.00	90.00	180.06	7,150.00	-5,972.57	-3,103.19	5,975.82	0.00	0.00	0.00
14,100.00	90.00	180.06	7,150.00	-6,072.57	-3,103.30	6,075.82	0.00	0.00	0.00
14,200.00	90.00	180.06	7,150.00	-6,172.57	-3,103.41	6,175.82	0.00	0.00	0.00
14,300.00	90.00	180.06	7,150.00	-6,272.57	-3,103.52	6,275.82	0.00	0.00	0.00
14,400.00	90.00	180.06	7,150.00	-6,372.57	-3,103.63	6,375.82	0.00	0.00	0.00
14,500.00	90.00	180.06	7,150.00	-6,472.57	-3,103.74	6,475.82	0.00	0.00	0.00
14,600.00	90.00	180.06	7,150.00	-6,572.57	-3,103.85	6,575.82	0.00	0.00	0.00
14,700.00	90.00	180.06	7,150.00	-6,672.57	-3,103.96	6,675.82	0.00	0.00	0.00
14,800.00	90.00	180.06	7,150.00	-6,772.57	-3,104.06	6,775.82	0.00	0.00	0.00
14,900.00	90.00	180.06	7,150.00	-6,872.57	-3,104.17	6,875.82	0.00	0.00	0.00
15,000.00	90.00	180.06	7,150.00	-6,972.57	-3,104.28	6,975.82	0.00	0.00	0.00
15,100.00	90.00	180.06	7,150.00	-7,072.57	-3,104.39	7,075.82	0.00	0.00	0.00
15,200.00	90.00	180.06	7,150.00	-7,172.57	-3,104.50	7,175.82	0.00	0.00	0.00
15,300.00	90.00	180.06	7,150.00	-7,272.57	-3,104.61	7,275.82	0.00	0.00	0.00
15,400.00	90.00	180.06	7,150.00	-7,372.57	-3,104.72	7,375.82	0.00	0.00	0.00
15,500.00	90.00	180.06	7,150.00	-7,472.57	-3,104.83	7,475.82	0.00	0.00	0.00
15,600.00	90.00	180.06	7,150.00	-7,572.57	-3,104.94	7,575.82	0.00	0.00	0.00
15,700.00	90.00	180.06	7,150.00	-7,672.57	-3,105.04	7,675.82	0.00	0.00	0.00
15,800.00	90.00	180.06	7,150.00	-7,772.57	-3,105.15	7,775.82	0.00	0.00	0.00
15,900.00	90.00	180.06	7,150.00	-7,872.57	-3,105.26	7,875.82	0.00	0.00	0.00
16,000.00	90.00	180.06	7,150.00	-7,972.57	-3,105.37	7,975.82	0.00	0.00	0.00
16,100.00	90.00	180.06	7,150.00	-8,072.57	-3,105.48	8,075.82	0.00	0.00	0.00
16,200.00	90.00	180.06	7,150.00	-8,172.57	-3,105.59	8,175.82	0.00	0.00	0.00
16,300.00	90.00	180.06	7,150.00	-8,272.57	-3,105.70	8,275.82	0.00	0.00	0.00
16,400.00	90.00	180.06	7,150.00	-8,372.57	-3,105.81	8,375.82	0.00	0.00	0.00
16,500.00	90.00	180.06	7,150.00	-8,472.57	-3,105.91	8,475.82	0.00	0.00	0.00
16,600.00	90.00	180.06	7,150.00	-8,572.57	-3,106.02	8,575.82	0.00	0.00	0.00
16,700.00	90.00	180.06	7,150.00	-8,672.57	-3,106.13	8,675.82	0.00	0.00	0.00
16,800.00	90.00	180.06	7,150.00	-8,772.57	-3,106.24	8,775.82	0.00	0.00	0.00
16,900.00	90.00	180.06	7,150.00	-8,872.57	-3,106.35	8,875.82	0.00	0.00	0.00
17,000.00	90.00	180.06	7,150.00	-8,972.57	-3,106.46	8,975.82	0.00	0.00	0.00
17,100.00	90.00	180.06	7,150.00	-9,072.57	-3,106.57	9,075.82	0.00	0.00	0.00
17,200.00	90.00	180.06	7,150.00	-9,172.57	-3,106.68	9,175.82	0.00	0.00	0.00
17,300.00	90.00	180.06	7,150.00	-9,272.57	-3,106.79	9,275.82	0.00	0.00	0.00
17,400.00	90.00	180.06	7,150.00	-9,372.57	-3,106.89	9,375.82	0.00	0.00	0.00
17,500.00	90.00	180.06	7,150.00	-9,472.57	-3,107.00	9,475.82	0.00	0.00	0.00
17,600.00	90.00	180.06	7,150.00	-9,572.57	-3,107.11	9,575.82	0.00	0.00	0.00
17,700.00	90.00	180.06	7,150.00	-9,672.57	-3,107.22	9,675.82	0.00	0.00	0.00
17,800.00	90.00	180.06	7,150.00	-9,772.57	-3,107.33	9,775.82	0.00	0.00	0.00
17,900.00	90.00	180.06	7,150.00	-9,872.57	-3,107.44	9,875.82	0.00	0.00	0.00
18,000.00	90.00	180.06	7,150.00	-9,972.57	-3,107.55	9,975.82	0.00	0.00	0.00
18,012.00	90.00	180.06	7,150.00	-9,984.57	-3,107.56	9,987.82	0.00	0.00	0.00
BPZ @ 18012.00ft									
18,101.98	90.00	180.06	7,150.00	-10,074.54	-3,107.66	10,077.79	0.00	0.00	0.00
TD Well @ 18101.98ft									

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-06H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 5129.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-06H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,436.69	2,304.00	9 5/8"		9-5/8	13-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
325.70	325.70	0.00	0.00	Begin Nudge @ 325.70ft	
1,678.70	1,628.96	16.41	-313.18	Change Tangent Direction @ 1678.70ft	
1,823.99	1,758.37	23.54	-378.80	Hold Tangent @ 1823.99ft	
7,192.96	6,539.60	422.03	-2,788.54	KOP @ 7192.96ft :: DLS = 9"/100'	
8,239.94	7,150.00	-212.52	-3,096.92	End Build/TPZ @ 8239.94ft	
18,012.00	7,150.00	-9,984.57	-3,107.56	BPZ @ 18012.00ft	
18,101.98	7,150.00	-10,074.54	-3,107.66	TD Well @ 18101.98ft	