

VERDAD RESOURCES

WATTENBERG FIELD

1N-64W-10 TIGER 0916 PAD

TIGER 0916-07H

Wellbore #1

Plan: Design #1

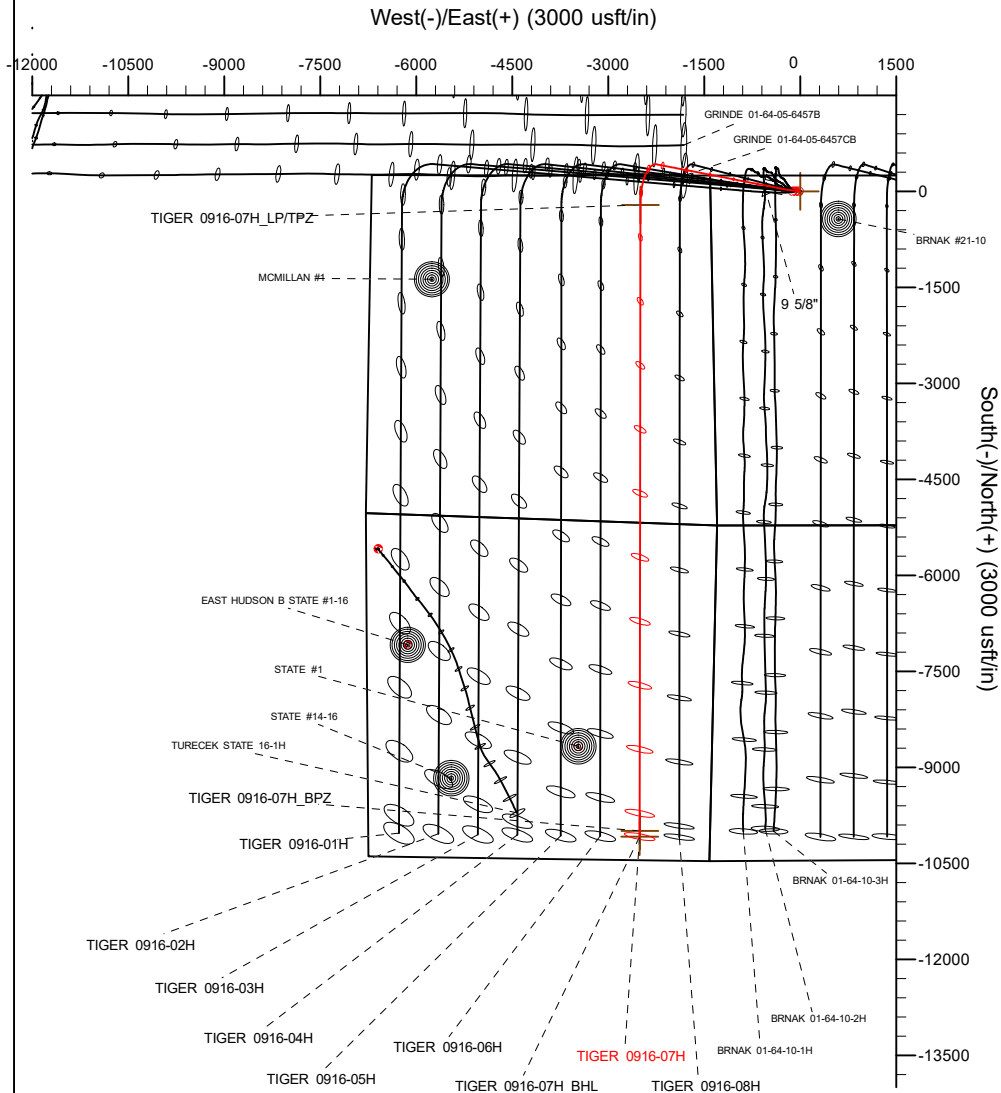
Standard Planning Report

27 December, 2022

VERDAD RESOURCES

CASING DETAILS			
TVD	MD	Name	Size
2304.00	2400.91	9 5/8"	9-5/8

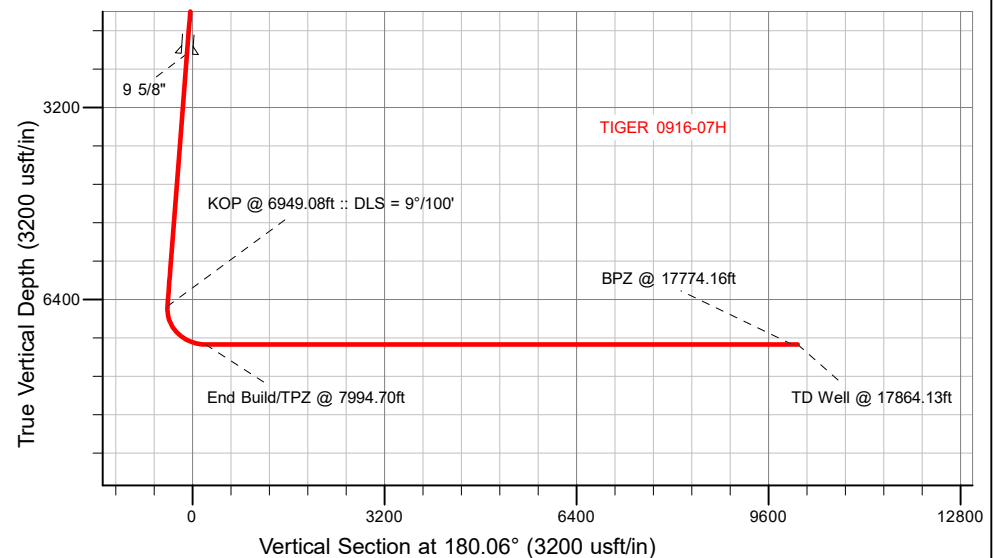
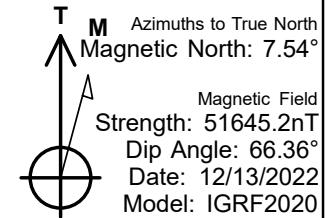
BHL
370' FSL
1097' FEL



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
351.25	0.00	0.00	351.25	0.00	0.00	0.00	0.00	0.00	
1458.75	22.15	277.25	1431.37	26.68	-209.73	2.00	277.25	-26.46	
1529.62	22.15	281.01	1497.01	30.92	-236.10	2.00	91.74	-30.67	
6949.08	22.15	281.01	6516.52	421.15	-2241.80	0.00	0.00	-418.80	
7994.70	90.00	180.06	7150.00	-213.55	-2495.69	9.00	-100.16	216.17	
17864.13	90.00	180.06	7150.00	-10082.98	-2506.56	0.00	0.00	10085.60	TIGER 0916-07H_BHL

WELLBORE TARGET DETAILS						
Name	TVD	Northing	Easting	Latitude	Longitude	
TIGER 0916-07H_SHL	0.00	1270723.65	3268277.20	40.072546	-104.541354	
TIGER 0916-07H_LP/TPZ	7150.00	1270483.03	3265783.88	40.071959	-104.550272	
TIGER 0916-07H_BPZ	7150.00	1260704.15	3265880.78	40.045113	-104.550300	
TIGER 0916-07H_BHL	7150.00	1260614.16	3265879.78	40.044866	-104.550307	

WELL DETAILS: TIGER 0916-07H	
GL = 5105'	
RKB = 24' @ 5129.00usft (RIG)	
Plan: Design #1 (TIGER 0916-07H/Wellbore #1)	
Date:	12/27/2022



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-07H
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 0916-07H	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 0916-07H			
Well Position	+N/-S	0.00 usft	Northing:	1,270,723.65 usft
	+E/-W	0.00 usft	Easting:	3,268,277.20 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft
Grid Convergence:		0.62 °	Ground Level:	5,105.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	12/13/2022	7.54	66.36	51,645.23132960

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	2,400.91	Design #1 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	2,400.91	17,864.13	Design #1 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 5129.00usft (RIG)
Site:	1N-64W-10 TIGER 0916 PAD	North Reference:	True
Well:	TIGER 0916-07H	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	
351.25	0.00	0.00	351.25	0.00	0.00	0.00	0.00	0.00	0.00	
1,458.75	22.15	277.25	1,431.37	26.68	-209.73	2.00	2.00	0.00	277.25	
1,529.62	22.15	281.01	1,497.01	30.92	-236.10	2.00	0.00	5.31	91.74	
6,949.08	22.15	281.01	6,516.52	421.15	-2,241.80	0.00	0.00	0.00	0.00	
7,994.70	90.00	180.06	7,150.00	-213.55	-2,495.69	9.00	6.49	-9.65	-100.16	
17,864.13	90.00	180.06	7,150.00	-10,082.98	-2,506.57	0.00	0.00	0.00	0.00	TIGER 0916-07H_BH

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-07H
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 0916-07H	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
351.25	0.00	0.00	351.25	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 351.25ft									
400.00	0.97	277.25	400.00	0.05	-0.41	-0.05	2.00	2.00	0.00
500.00	2.97	277.25	499.93	0.49	-3.83	-0.48	2.00	2.00	0.00
600.00	4.97	277.25	599.69	1.36	-10.71	-1.35	2.00	2.00	0.00
700.00	6.97	277.25	699.14	2.68	-21.03	-2.65	2.00	2.00	0.00
800.00	8.97	277.25	798.17	4.43	-34.79	-4.39	2.00	2.00	0.00
900.00	10.97	277.25	896.65	6.61	-51.98	-6.56	2.00	2.00	0.00
1,000.00	12.97	277.25	994.47	9.23	-72.56	-9.15	2.00	2.00	0.00
1,100.00	14.97	277.25	1,091.50	12.28	-96.51	-12.18	2.00	2.00	0.00
1,200.00	16.97	277.25	1,187.64	15.75	-123.81	-15.62	2.00	2.00	0.00
1,300.00	18.97	277.25	1,282.75	19.65	-154.43	-19.48	2.00	2.00	0.00
1,400.00	20.97	277.25	1,376.73	23.96	-188.31	-23.76	2.00	2.00	0.00
1,458.75	22.15	277.25	1,431.37	26.68	-209.73	-26.46	2.00	2.00	0.00
Change Tangent Direction @ 1458.75ft									
1,500.00	22.14	279.44	1,469.58	28.94	-225.11	-28.70	2.00	-0.03	5.31
1,529.62	22.15	281.01	1,497.01	30.92	-236.10	-30.67	2.00	0.04	5.31
Hold Tangent @ 1529.62ft									
1,600.00	22.15	281.01	1,562.20	35.99	-262.15	-35.71	0.00	0.00	0.00
1,700.00	22.15	281.01	1,654.82	43.19	-299.16	-42.87	0.00	0.00	0.00
1,800.00	22.15	281.01	1,747.44	50.39	-336.17	-50.04	0.00	0.00	0.00
1,900.00	22.15	281.01	1,840.06	57.59	-373.18	-57.20	0.00	0.00	0.00
2,000.00	22.15	281.01	1,932.68	64.79	-410.18	-64.36	0.00	0.00	0.00
2,100.00	22.15	281.01	2,025.30	71.99	-447.19	-71.52	0.00	0.00	0.00
2,200.00	22.15	281.01	2,117.92	79.19	-484.20	-78.68	0.00	0.00	0.00
2,300.00	22.15	281.01	2,210.54	86.39	-521.21	-85.84	0.00	0.00	0.00
2,400.00	22.15	281.01	2,303.16	93.59	-558.22	-93.01	0.00	0.00	0.00
2,400.91	22.15	281.01	2,304.00	93.66	-558.56	-93.07	0.00	0.00	0.00
9 5/8"									
2,500.00	22.15	281.01	2,395.78	100.79	-595.23	-100.17	0.00	0.00	0.00
2,600.00	22.15	281.01	2,488.40	107.99	-632.24	-107.33	0.00	0.00	0.00
2,700.00	22.15	281.01	2,581.02	115.19	-669.25	-114.49	0.00	0.00	0.00
2,800.00	22.15	281.01	2,673.64	122.39	-706.26	-121.65	0.00	0.00	0.00
2,900.00	22.15	281.01	2,766.26	129.59	-743.27	-128.82	0.00	0.00	0.00
3,000.00	22.15	281.01	2,858.88	136.79	-780.28	-135.98	0.00	0.00	0.00
3,100.00	22.15	281.01	2,951.50	144.00	-817.29	-143.14	0.00	0.00	0.00
3,200.00	22.15	281.01	3,044.12	151.20	-854.30	-150.30	0.00	0.00	0.00
3,300.00	22.15	281.01	3,136.74	158.40	-891.31	-157.46	0.00	0.00	0.00
3,400.00	22.15	281.01	3,229.36	165.60	-928.31	-164.62	0.00	0.00	0.00
3,500.00	22.15	281.01	3,321.98	172.80	-965.32	-171.79	0.00	0.00	0.00
3,600.00	22.15	281.01	3,414.60	180.00	-1,002.33	-178.95	0.00	0.00	0.00
3,700.00	22.15	281.01	3,507.22	187.20	-1,039.34	-186.11	0.00	0.00	0.00
3,800.00	22.15	281.01	3,599.84	194.40	-1,076.35	-193.27	0.00	0.00	0.00
3,900.00	22.15	281.01	3,692.46	201.60	-1,113.36	-200.43	0.00	0.00	0.00
4,000.00	22.15	281.01	3,785.08	208.80	-1,150.37	-207.60	0.00	0.00	0.00
4,100.00	22.15	281.01	3,877.70	216.00	-1,187.38	-214.76	0.00	0.00	0.00
4,200.00	22.15	281.01	3,970.32	223.20	-1,224.39	-221.92	0.00	0.00	0.00
4,300.00	22.15	281.01	4,062.94	230.40	-1,261.40	-229.08	0.00	0.00	0.00
4,400.00	22.15	281.01	4,155.56	237.60	-1,298.41	-236.24	0.00	0.00	0.00
4,500.00	22.15	281.01	4,248.18	244.80	-1,335.42	-243.41	0.00	0.00	0.00

Planning Report

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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 0916-07H	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	22.15	281.01	4,340.80	252.00	-1,372.43	-250.57	0.00	0.00	0.00
4,700.00	22.15	281.01	4,433.42	259.20	-1,409.44	-257.73	0.00	0.00	0.00
4,800.00	22.15	281.01	4,526.04	266.41	-1,446.44	-264.89	0.00	0.00	0.00
4,900.00	22.15	281.01	4,618.66	273.61	-1,483.45	-272.05	0.00	0.00	0.00
5,000.00	22.15	281.01	4,711.28	280.81	-1,520.46	-279.21	0.00	0.00	0.00
5,100.00	22.15	281.01	4,803.90	288.01	-1,557.47	-286.38	0.00	0.00	0.00
5,200.00	22.15	281.01	4,896.52	295.21	-1,594.48	-293.54	0.00	0.00	0.00
5,300.00	22.15	281.01	4,989.14	302.41	-1,631.49	-300.70	0.00	0.00	0.00
5,400.00	22.15	281.01	5,081.76	309.61	-1,668.50	-307.86	0.00	0.00	0.00
5,500.00	22.15	281.01	5,174.38	316.81	-1,705.51	-315.02	0.00	0.00	0.00
5,600.00	22.15	281.01	5,267.00	324.01	-1,742.52	-322.19	0.00	0.00	0.00
5,700.00	22.15	281.01	5,359.62	331.21	-1,779.53	-329.35	0.00	0.00	0.00
5,800.00	22.15	281.01	5,452.24	338.41	-1,816.54	-336.51	0.00	0.00	0.00
5,900.00	22.15	281.01	5,544.86	345.61	-1,853.55	-343.67	0.00	0.00	0.00
6,000.00	22.15	281.01	5,637.48	352.81	-1,890.56	-350.83	0.00	0.00	0.00
6,100.00	22.15	281.01	5,730.10	360.01	-1,927.57	-357.99	0.00	0.00	0.00
6,200.00	22.15	281.01	5,822.72	367.21	-1,964.57	-365.16	0.00	0.00	0.00
6,300.00	22.15	281.01	5,915.34	374.41	-2,001.58	-372.32	0.00	0.00	0.00
6,400.00	22.15	281.01	6,007.96	381.61	-2,038.59	-379.48	0.00	0.00	0.00
6,500.00	22.15	281.01	6,100.58	388.82	-2,075.60	-386.64	0.00	0.00	0.00
6,600.00	22.15	281.01	6,193.20	396.02	-2,112.61	-393.80	0.00	0.00	0.00
6,700.00	22.15	281.01	6,285.82	403.22	-2,149.62	-400.97	0.00	0.00	0.00
6,800.00	22.15	281.01	6,378.44	410.42	-2,186.63	-408.13	0.00	0.00	0.00
6,900.00	22.15	281.01	6,471.06	417.62	-2,223.64	-415.29	0.00	0.00	0.00
6,949.08	22.15	281.01	6,516.52	421.15	-2,241.80	-418.80	0.00	0.00	0.00
KOP @ 6949.08ft :: DLS = 9°/100'									
7,000.00	21.79	268.78	6,563.76	422.78	-2,260.69	-420.42	9.00	-0.71	-24.02
7,050.00	22.32	256.86	6,610.13	420.43	-2,279.22	-418.04	9.00	1.06	-23.84
7,100.00	23.66	245.85	6,656.18	414.16	-2,297.63	-411.75	9.00	2.69	-22.02
7,150.00	25.70	236.21	6,701.62	404.02	-2,315.80	-401.59	9.00	4.07	-19.26
7,200.00	28.27	228.06	6,746.19	390.07	-2,333.63	-387.63	9.00	5.15	-16.30
7,250.00	31.25	221.26	6,789.61	372.40	-2,351.00	-369.94	9.00	5.96	-13.61
7,300.00	34.53	215.58	6,831.60	351.11	-2,367.81	-348.63	9.00	6.56	-11.37
7,350.00	38.03	210.79	6,871.90	326.34	-2,383.95	-323.85	9.00	7.00	-9.57
7,400.00	41.70	206.72	6,910.28	298.24	-2,399.32	-295.73	9.00	7.33	-8.15
7,450.00	45.49	203.20	6,946.49	266.99	-2,413.82	-264.46	9.00	7.58	-7.04
7,500.00	49.37	200.12	6,980.32	232.76	-2,427.38	-230.22	9.00	7.77	-6.17
7,550.00	53.33	197.37	7,011.54	195.79	-2,439.90	-193.24	9.00	7.92	-5.48
7,600.00	57.35	194.90	7,039.97	156.29	-2,451.30	-153.72	9.00	8.03	-4.94
7,650.00	61.41	192.65	7,065.44	114.51	-2,461.53	-111.93	9.00	8.12	-4.51
7,700.00	65.50	190.56	7,087.78	70.70	-2,470.51	-68.12	9.00	8.19	-4.18
7,750.00	69.62	188.60	7,106.86	25.14	-2,478.18	-22.55	9.00	8.24	-3.91
7,800.00	73.76	186.75	7,122.56	-21.89	-2,484.51	24.49	9.00	8.28	-3.71
7,850.00	77.92	184.97	7,134.79	-70.10	-2,489.45	72.71	9.00	8.31	-3.55
7,900.00	82.09	183.25	7,143.47	-119.21	-2,492.97	121.82	9.00	8.34	-3.45
7,950.00	86.26	181.56	7,148.54	-168.89	-2,495.05	171.51	9.00	8.35	-3.38
7,994.70	90.00	180.06	7,150.00	-213.55	-2,495.69	216.17	9.00	8.36	-3.34
End Build/TPZ @ 7994.70ft									
8,000.00	90.00	180.06	7,150.00	-218.86	-2,495.69	221.47	0.00	0.00	0.00
8,100.00	90.00	180.06	7,150.00	-318.86	-2,495.80	321.47	0.00	0.00	0.00
8,200.00	90.00	180.06	7,150.00	-418.86	-2,495.91	421.47	0.00	0.00	0.00
8,300.00	90.00	180.06	7,150.00	-518.86	-2,496.02	521.47	0.00	0.00	0.00
8,400.00	90.00	180.06	7,150.00	-618.86	-2,496.13	621.47	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-07H
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 0916-07H	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	-718.85	-2,496.24	721.47	0.00	0.00	0.00	
8,600.00	90.00	180.06	7,150.00	-818.85	-2,496.35	821.47	0.00	0.00	0.00	
8,700.00	90.00	180.06	7,150.00	-918.85	-2,496.46	921.47	0.00	0.00	0.00	
8,800.00	90.00	180.06	7,150.00	-1,018.85	-2,496.57	1,021.47	0.00	0.00	0.00	
8,900.00	90.00	180.06	7,150.00	-1,118.85	-2,496.68	1,121.47	0.00	0.00	0.00	
9,000.00	90.00	180.06	7,150.00	-1,218.85	-2,496.79	1,221.47	0.00	0.00	0.00	
9,100.00	90.00	180.06	7,150.00	-1,318.85	-2,496.90	1,321.47	0.00	0.00	0.00	
9,200.00	90.00	180.06	7,150.00	-1,418.85	-2,497.01	1,421.47	0.00	0.00	0.00	
9,300.00	90.00	180.06	7,150.00	-1,518.85	-2,497.12	1,521.47	0.00	0.00	0.00	
9,400.00	90.00	180.06	7,150.00	-1,618.85	-2,497.23	1,621.47	0.00	0.00	0.00	
9,500.00	90.00	180.06	7,150.00	-1,718.85	-2,497.34	1,721.47	0.00	0.00	0.00	
9,600.00	90.00	180.06	7,150.00	-1,818.85	-2,497.45	1,821.47	0.00	0.00	0.00	
9,700.00	90.00	180.06	7,150.00	-1,918.85	-2,497.57	1,921.47	0.00	0.00	0.00	
9,800.00	90.00	180.06	7,150.00	-2,018.85	-2,497.68	2,021.47	0.00	0.00	0.00	
9,900.00	90.00	180.06	7,150.00	-2,118.85	-2,497.79	2,121.47	0.00	0.00	0.00	
10,000.00	90.00	180.06	7,150.00	-2,218.85	-2,497.90	2,221.47	0.00	0.00	0.00	
10,100.00	90.00	180.06	7,150.00	-2,318.85	-2,498.01	2,321.47	0.00	0.00	0.00	
10,200.00	90.00	180.06	7,150.00	-2,418.85	-2,498.12	2,421.47	0.00	0.00	0.00	
10,300.00	90.00	180.06	7,150.00	-2,518.85	-2,498.23	2,521.47	0.00	0.00	0.00	
10,400.00	90.00	180.06	7,150.00	-2,618.85	-2,498.34	2,621.47	0.00	0.00	0.00	
10,500.00	90.00	180.06	7,150.00	-2,718.85	-2,498.45	2,721.47	0.00	0.00	0.00	
10,600.00	90.00	180.06	7,150.00	-2,818.85	-2,498.56	2,821.47	0.00	0.00	0.00	
10,700.00	90.00	180.06	7,150.00	-2,918.85	-2,498.67	2,921.47	0.00	0.00	0.00	
10,800.00	90.00	180.06	7,150.00	-3,018.85	-2,498.78	3,021.47	0.00	0.00	0.00	
10,900.00	90.00	180.06	7,150.00	-3,118.85	-2,498.89	3,121.47	0.00	0.00	0.00	
11,000.00	90.00	180.06	7,150.00	-3,218.85	-2,499.00	3,221.47	0.00	0.00	0.00	
11,100.00	90.00	180.06	7,150.00	-3,318.85	-2,499.11	3,321.47	0.00	0.00	0.00	
11,200.00	90.00	180.06	7,150.00	-3,418.85	-2,499.22	3,421.47	0.00	0.00	0.00	
11,300.00	90.00	180.06	7,150.00	-3,518.85	-2,499.33	3,521.47	0.00	0.00	0.00	
11,400.00	90.00	180.06	7,150.00	-3,618.85	-2,499.44	3,621.47	0.00	0.00	0.00	
11,500.00	90.00	180.06	7,150.00	-3,718.85	-2,499.55	3,721.47	0.00	0.00	0.00	
11,600.00	90.00	180.06	7,150.00	-3,818.85	-2,499.66	3,821.47	0.00	0.00	0.00	
11,700.00	90.00	180.06	7,150.00	-3,918.85	-2,499.77	3,921.47	0.00	0.00	0.00	
11,800.00	90.00	180.06	7,150.00	-4,018.85	-2,499.88	4,021.47	0.00	0.00	0.00	
11,900.00	90.00	180.06	7,150.00	-4,118.85	-2,499.99	4,121.47	0.00	0.00	0.00	
12,000.00	90.00	180.06	7,150.00	-4,218.85	-2,500.10	4,221.47	0.00	0.00	0.00	
12,100.00	90.00	180.06	7,150.00	-4,318.85	-2,500.21	4,321.47	0.00	0.00	0.00	
12,200.00	90.00	180.06	7,150.00	-4,418.85	-2,500.32	4,421.47	0.00	0.00	0.00	
12,300.00	90.00	180.06	7,150.00	-4,518.85	-2,500.43	4,521.47	0.00	0.00	0.00	
12,400.00	90.00	180.06	7,150.00	-4,618.85	-2,500.54	4,621.47	0.00	0.00	0.00	
12,500.00	90.00	180.06	7,150.00	-4,718.85	-2,500.65	4,721.47	0.00	0.00	0.00	
12,600.00	90.00	180.06	7,150.00	-4,818.85	-2,500.76	4,821.47	0.00	0.00	0.00	
12,700.00	90.00	180.06	7,150.00	-4,918.85	-2,500.87	4,921.47	0.00	0.00	0.00	
12,800.00	90.00	180.06	7,150.00	-5,018.85	-2,500.98	5,021.47	0.00	0.00	0.00	
12,900.00	90.00	180.06	7,150.00	-5,118.85	-2,501.09	5,121.47	0.00	0.00	0.00	
13,000.00	90.00	180.06	7,150.00	-5,218.85	-2,501.20	5,221.47	0.00	0.00	0.00	
13,100.00	90.00	180.06	7,150.00	-5,318.85	-2,501.31	5,321.47	0.00	0.00	0.00	
13,200.00	90.00	180.06	7,150.00	-5,418.85	-2,501.42	5,421.47	0.00	0.00	0.00	
13,300.00	90.00	180.06	7,150.00	-5,518.85	-2,501.53	5,521.47	0.00	0.00	0.00	
13,400.00	90.00	180.06	7,150.00	-5,618.85	-2,501.64	5,621.47	0.00	0.00	0.00	
13,500.00	90.00	180.06	7,150.00	-5,718.85	-2,501.75	5,721.47	0.00	0.00	0.00	
13,600.00	90.00	180.06	7,150.00	-5,818.85	-2,501.86	5,821.47	0.00	0.00	0.00	
13,700.00	90.00	180.06	7,150.00	-5,918.85	-2,501.97	5,921.47	0.00	0.00	0.00	
13,800.00	90.00	180.06	7,150.00	-6,018.85	-2,502.08	6,021.47	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-07H
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 0916-07H	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	-6,118.85	-2,502.20	6,121.47	0.00	0.00	0.00	
14,000.00	90.00	180.06	7,150.00	-6,218.85	-2,502.31	6,221.47	0.00	0.00	0.00	
14,100.00	90.00	180.06	7,150.00	-6,318.85	-2,502.42	6,321.47	0.00	0.00	0.00	
14,200.00	90.00	180.06	7,150.00	-6,418.85	-2,502.53	6,421.47	0.00	0.00	0.00	
14,300.00	90.00	180.06	7,150.00	-6,518.85	-2,502.64	6,521.47	0.00	0.00	0.00	
14,400.00	90.00	180.06	7,150.00	-6,618.85	-2,502.75	6,621.47	0.00	0.00	0.00	
14,500.00	90.00	180.06	7,150.00	-6,718.85	-2,502.86	6,721.47	0.00	0.00	0.00	
14,600.00	90.00	180.06	7,150.00	-6,818.85	-2,502.97	6,821.47	0.00	0.00	0.00	
14,700.00	90.00	180.06	7,150.00	-6,918.85	-2,503.08	6,921.47	0.00	0.00	0.00	
14,800.00	90.00	180.06	7,150.00	-7,018.85	-2,503.19	7,021.47	0.00	0.00	0.00	
14,900.00	90.00	180.06	7,150.00	-7,118.85	-2,503.30	7,121.47	0.00	0.00	0.00	
15,000.00	90.00	180.06	7,150.00	-7,218.85	-2,503.41	7,221.47	0.00	0.00	0.00	
15,100.00	90.00	180.06	7,150.00	-7,318.85	-2,503.52	7,321.47	0.00	0.00	0.00	
15,200.00	90.00	180.06	7,150.00	-7,418.85	-2,503.63	7,421.47	0.00	0.00	0.00	
15,300.00	90.00	180.06	7,150.00	-7,518.85	-2,503.74	7,521.47	0.00	0.00	0.00	
15,400.00	90.00	180.06	7,150.00	-7,618.85	-2,503.85	7,621.47	0.00	0.00	0.00	
15,500.00	90.00	180.06	7,150.00	-7,718.85	-2,503.96	7,721.47	0.00	0.00	0.00	
15,600.00	90.00	180.06	7,150.00	-7,818.85	-2,504.07	7,821.47	0.00	0.00	0.00	
15,700.00	90.00	180.06	7,150.00	-7,918.85	-2,504.18	7,921.47	0.00	0.00	0.00	
15,800.00	90.00	180.06	7,150.00	-8,018.85	-2,504.29	8,021.47	0.00	0.00	0.00	
15,900.00	90.00	180.06	7,150.00	-8,118.85	-2,504.40	8,121.47	0.00	0.00	0.00	
16,000.00	90.00	180.06	7,150.00	-8,218.85	-2,504.51	8,221.47	0.00	0.00	0.00	
16,100.00	90.00	180.06	7,150.00	-8,318.85	-2,504.62	8,321.47	0.00	0.00	0.00	
16,200.00	90.00	180.06	7,150.00	-8,418.85	-2,504.73	8,421.47	0.00	0.00	0.00	
16,300.00	90.00	180.06	7,150.00	-8,518.85	-2,504.84	8,521.47	0.00	0.00	0.00	
16,400.00	90.00	180.06	7,150.00	-8,618.85	-2,504.95	8,621.47	0.00	0.00	0.00	
16,500.00	90.00	180.06	7,150.00	-8,718.85	-2,505.06	8,721.47	0.00	0.00	0.00	
16,600.00	90.00	180.06	7,150.00	-8,818.85	-2,505.17	8,821.47	0.00	0.00	0.00	
16,700.00	90.00	180.06	7,150.00	-8,918.85	-2,505.28	8,921.47	0.00	0.00	0.00	
16,800.00	90.00	180.06	7,150.00	-9,018.85	-2,505.39	9,021.47	0.00	0.00	0.00	
16,900.00	90.00	180.06	7,150.00	-9,118.85	-2,505.50	9,121.47	0.00	0.00	0.00	
17,000.00	90.00	180.06	7,150.00	-9,218.85	-2,505.61	9,221.47	0.00	0.00	0.00	
17,100.00	90.00	180.06	7,150.00	-9,318.85	-2,505.72	9,321.47	0.00	0.00	0.00	
17,200.00	90.00	180.06	7,150.00	-9,418.85	-2,505.83	9,421.47	0.00	0.00	0.00	
17,300.00	90.00	180.06	7,150.00	-9,518.85	-2,505.94	9,521.47	0.00	0.00	0.00	
17,400.00	90.00	180.06	7,150.00	-9,618.85	-2,506.05	9,621.47	0.00	0.00	0.00	
17,500.00	90.00	180.06	7,150.00	-9,718.85	-2,506.16	9,721.47	0.00	0.00	0.00	
17,600.00	90.00	180.06	7,150.00	-9,818.85	-2,506.27	9,821.47	0.00	0.00	0.00	
17,700.00	90.00	180.06	7,150.00	-9,918.85	-2,506.38	9,921.47	0.00	0.00	0.00	
17,774.16	90.00	180.06	7,150.00	-9,993.01	-2,506.47	9,995.63	0.00	0.00	0.00	
BPZ @ 17774.16ft										
17,800.00	90.00	180.06	7,150.00	-10,018.85	-2,506.49	10,021.47	0.00	0.00	0.00	
17,864.13	90.00	180.06	7,150.00	-10,082.98	-2,506.57	10,085.60	0.00	0.00	0.00	
TD Well @ 17864.13ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
2,400.91	2,304.00	9 5/8"		9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIGER 0916-07H
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 0916-07H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
351.25	351.25	0.00	0.00	Begin Nudge @ 351.25ft
1,458.75	1,431.37	26.68	-209.73	Change Tangent Direction @ 1458.75ft
1,529.62	1,497.01	30.92	-236.10	Hold Tangent @ 1529.62ft
6,949.08	6,516.52	421.15	-2,241.80	KOP @ 6949.08ft :: DLS = 9°/100'
7,994.70	7,150.00	-213.55	-2,495.69	End Build/TPZ @ 7994.70ft
17,774.16	7,150.00	-9,993.01	-2,506.47	BPZ @ 17774.16ft
17,864.13	7,150.00	-10,082.98	-2,506.57	TD Well @ 17864.13ft