

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-01 TIMBRO 0101 PAD

TIMBRO 0101-01H

Plan B

Plan: Design #2

Standard Planning Report

20 October, 2021

Project: WATTENBERG FIELD
Site: 9N-59W-01 TIMBRO 0101 PAD
Well: TIMBRO 0101-01H
Wellbore: Plan B
Design: Design #2

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1600.00	1662.62	9 5/8"	9-5/8

SECTION DETAILS

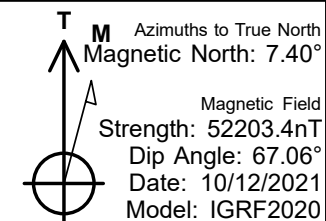
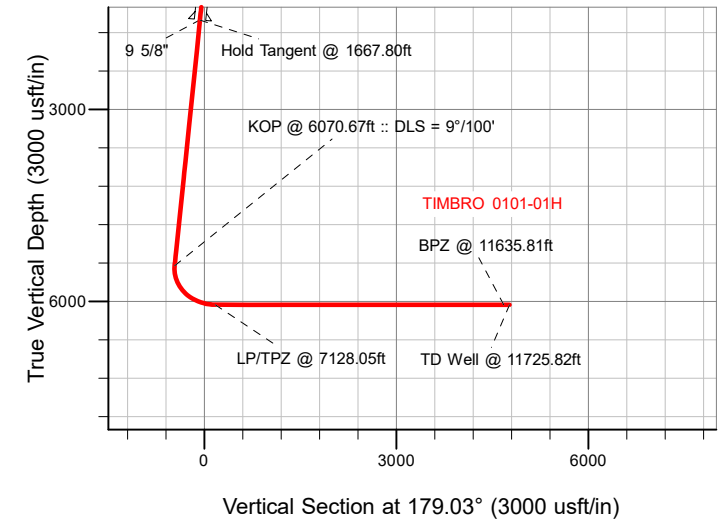
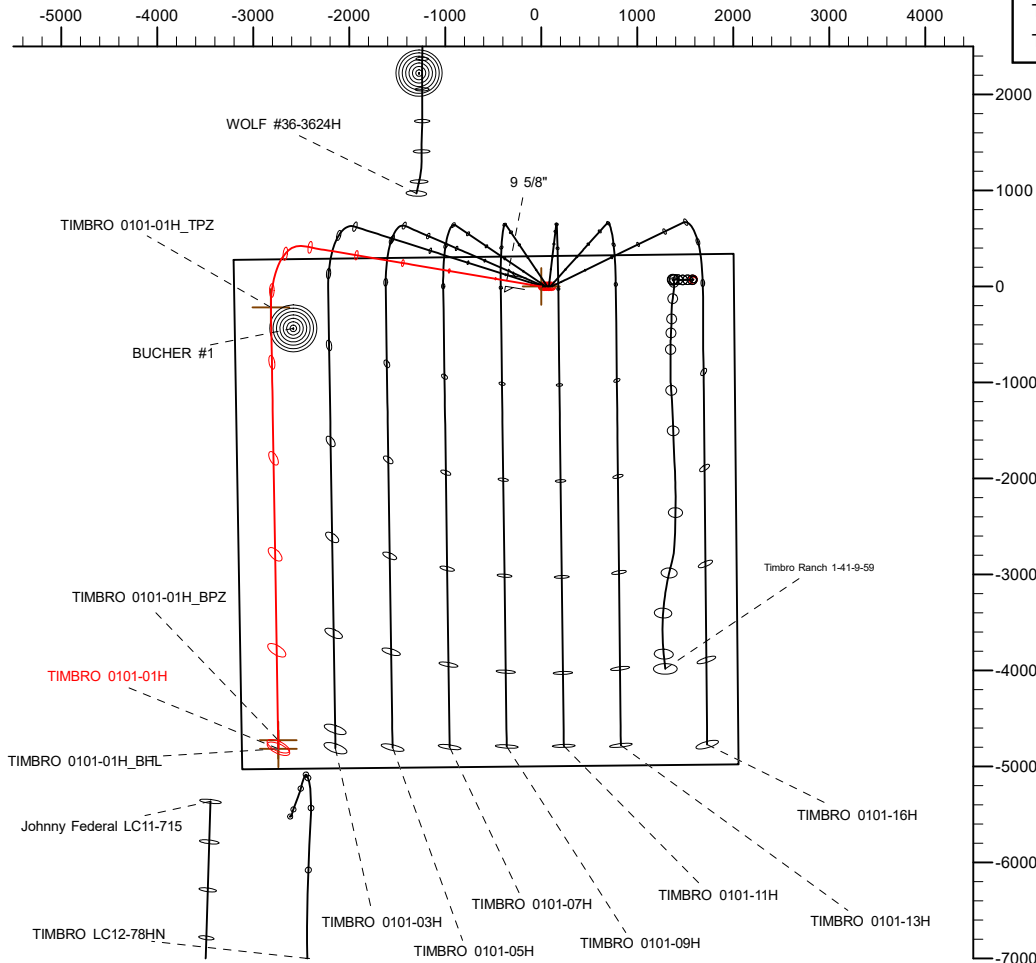
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.80	0.00	0.00	200.80	0.00	0.00	0.00	0.00	0.00	
1667.80	29.34	279.62	1604.52	61.41	-362.31	2.00	279.62	-67.53	
6070.67	29.34	279.62	5442.62	421.93	-2489.34	0.00	0.00	-464.01	
7128.05	90.00	179.03	6050.00	-217.56	-2814.20	9.00	-99.25	169.99	
11725.82	90.00	179.03	6050.00	-4814.78	-2736.73	0.00	0.00	4767.76	TIMBRO 0101-01H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
TIMBRO 0101-01H_SHL	0.00	0.00	0.00	40.786591	-103.924576
TIMBRO 0101-01H_TPZ	6050.00	-217.56	-2814.20	40.785993	-103.934738
TIMBRO 0101-01H_BPZ	6050.00	-4724.79	-2738.24	40.773622	-103.934462
TIMBRO 0101-01H_BHL	6050.00	-4814.78	-2736.73	40.773375	-103.934457

SHL **TPZ** **BPZ/Cross S. Setback** **BHL**
316' FNL **500' FNL** **300' FSL** **210' FSL**
2009' FEL **376' FWL** **377' FWL** **378' FWL**

West(-)/East(+) (2000 usft/in)



WELL DETAILS: TIMBRO 0101-01H

GL = 4938'

RKB = 24' @ 4962.00usft (RIG)

Plan: Design #2 (TIMBRO 0101-01H/Plan B)

Date: 10/20/2021

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

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		9N-59W-01 TIMBRO 0101 PAD			
Site Position:		Northing:	1,533,230.40 usft	Latitude:	40.786474
From:	Lat/Long	Easting:	3,436,039.96 usft	Longitude:	-103.925326
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well		TIMBRO 0101-01H				
Well Position	+N/-S	0.00 usft	Northing:	1,533,276.57 usft	Latitude:	40.786591
	+E/-W	0.00 usft	Easting:	3,436,246.69 usft	Longitude:	-103.924576
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,938.00 usft
Grid Convergence:		1.02 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/12/2021	7.40	67.06	52,203.41582097

Design	Design #2				
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	179.03	

Plan Survey Tool Program	Date	10/20/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,600.00	Design #2 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination
2	1,600.00	11,725.82	Design #2 (Plan B)	ISCWSA MWD	Fixed:v2:standard declination

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

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	
200.80	0.00	0.00	200.80	0.00	0.00	0.00	0.00	0.00	0.00	
1,667.80	29.34	279.62	1,604.52	61.41	-362.31	2.00	2.00	0.00	279.62	
6,070.67	29.34	279.62	5,442.62	421.93	-2,489.34	0.00	0.00	0.00	0.00	
7,128.05	90.00	179.03	6,050.00	-217.67	-2,814.20	9.00	5.74	-9.51	-99.25	
11,725.82	90.00	179.03	6,050.00	-4,814.78	-2,736.73	0.00	0.00	0.00	0.00	TIMBRO 0101-01H_E

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

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
200.80	0.00	0.00	200.80	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 200.80ft									
300.00	1.98	279.62	299.98	0.29	-1.69	-0.32	2.00	2.00	0.00
400.00	3.98	279.62	399.84	1.16	-6.83	-1.27	2.00	2.00	0.00
500.00	5.98	279.62	499.46	2.61	-15.39	-2.87	2.00	2.00	0.00
600.00	7.98	279.62	598.71	4.64	-27.38	-5.10	2.00	2.00	0.00
700.00	9.98	279.62	697.48	7.25	-42.77	-7.97	2.00	2.00	0.00
800.00	11.98	279.62	795.64	10.43	-61.56	-11.47	2.00	2.00	0.00
900.00	13.98	279.62	893.08	14.19	-83.71	-15.60	2.00	2.00	0.00
1,000.00	15.98	279.62	989.67	18.51	-109.20	-20.35	2.00	2.00	0.00
1,100.00	17.98	279.62	1,085.31	23.39	-138.00	-25.72	2.00	2.00	0.00
1,200.00	19.98	279.62	1,179.86	28.83	-170.07	-31.70	2.00	2.00	0.00
1,300.00	21.98	279.62	1,273.23	34.81	-205.37	-38.28	2.00	2.00	0.00
1,400.00	23.98	279.62	1,365.28	41.34	-243.87	-45.46	2.00	2.00	0.00
1,500.00	25.98	279.62	1,455.92	48.39	-285.51	-53.22	2.00	2.00	0.00
1,600.00	27.98	279.62	1,545.03	55.98	-330.24	-61.56	2.00	2.00	0.00
1,662.62	29.24	279.62	1,600.00	60.99	-359.81	-67.07	2.00	2.00	0.00
9 5/8"									
1,667.80	29.34	279.62	1,604.52	61.41	-362.31	-67.53	2.00	2.00	0.00
Hold Tangent @ 1667.80ft									
1,700.00	29.34	279.62	1,632.59	64.05	-377.86	-70.43	0.00	0.00	0.00
1,800.00	29.34	279.62	1,719.76	72.23	-426.17	-79.44	0.00	0.00	0.00
1,900.00	29.34	279.62	1,806.94	80.42	-474.48	-88.44	0.00	0.00	0.00
2,000.00	29.34	279.62	1,894.11	88.61	-522.79	-97.45	0.00	0.00	0.00
2,100.00	29.34	279.62	1,981.28	96.80	-571.10	-106.45	0.00	0.00	0.00
2,200.00	29.34	279.62	2,068.45	104.99	-619.41	-115.46	0.00	0.00	0.00
2,300.00	29.34	279.62	2,155.63	113.18	-667.72	-124.46	0.00	0.00	0.00
2,400.00	29.34	279.62	2,242.80	121.36	-716.03	-133.47	0.00	0.00	0.00
2,500.00	29.34	279.62	2,329.97	129.55	-764.34	-142.47	0.00	0.00	0.00
2,600.00	29.34	279.62	2,417.15	137.74	-812.65	-151.48	0.00	0.00	0.00
2,700.00	29.34	279.62	2,504.32	145.93	-860.96	-160.48	0.00	0.00	0.00
2,800.00	29.34	279.62	2,591.49	154.12	-909.27	-169.49	0.00	0.00	0.00
2,900.00	29.34	279.62	2,678.66	162.31	-957.58	-178.49	0.00	0.00	0.00
3,000.00	29.34	279.62	2,765.84	170.50	-1,005.89	-187.50	0.00	0.00	0.00
3,100.00	29.34	279.62	2,853.01	178.68	-1,054.20	-196.50	0.00	0.00	0.00
3,200.00	29.34	279.62	2,940.18	186.87	-1,102.51	-205.51	0.00	0.00	0.00
3,300.00	29.34	279.62	3,027.35	195.06	-1,150.82	-214.51	0.00	0.00	0.00
3,400.00	29.34	279.62	3,114.53	203.25	-1,199.13	-223.52	0.00	0.00	0.00
3,500.00	29.34	279.62	3,201.70	211.44	-1,247.44	-232.52	0.00	0.00	0.00
3,600.00	29.34	279.62	3,288.87	219.63	-1,295.75	-241.53	0.00	0.00	0.00
3,700.00	29.34	279.62	3,376.05	227.81	-1,344.06	-250.53	0.00	0.00	0.00
3,800.00	29.34	279.62	3,463.22	236.00	-1,392.37	-259.54	0.00	0.00	0.00
3,900.00	29.34	279.62	3,550.39	244.19	-1,440.68	-268.54	0.00	0.00	0.00
4,000.00	29.34	279.62	3,637.56	252.38	-1,488.99	-277.55	0.00	0.00	0.00
4,100.00	29.34	279.62	3,724.74	260.57	-1,537.30	-286.56	0.00	0.00	0.00
4,200.00	29.34	279.62	3,811.91	268.76	-1,585.61	-295.56	0.00	0.00	0.00
4,300.00	29.34	279.62	3,899.08	276.94	-1,633.92	-304.57	0.00	0.00	0.00
4,400.00	29.34	279.62	3,986.25	285.13	-1,682.23	-313.57	0.00	0.00	0.00
4,500.00	29.34	279.62	4,073.43	293.32	-1,730.54	-322.58	0.00	0.00	0.00
4,600.00	29.34	279.62	4,160.60	301.51	-1,778.85	-331.58	0.00	0.00	0.00
4,700.00	29.34	279.62	4,247.77	309.70	-1,827.16	-340.59	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

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)
4,800.00	29.34	279.62	4,334.95	317.89	-1,875.47	-349.59	0.00	0.00	0.00
4,900.00	29.34	279.62	4,422.12	326.07	-1,923.78	-358.60	0.00	0.00	0.00
5,000.00	29.34	279.62	4,509.29	334.26	-1,972.09	-367.60	0.00	0.00	0.00
5,100.00	29.34	279.62	4,596.46	342.45	-2,020.40	-376.61	0.00	0.00	0.00
5,200.00	29.34	279.62	4,683.64	350.64	-2,068.72	-385.61	0.00	0.00	0.00
5,300.00	29.34	279.62	4,770.81	358.83	-2,117.03	-394.62	0.00	0.00	0.00
5,400.00	29.34	279.62	4,857.98	367.02	-2,165.34	-403.62	0.00	0.00	0.00
5,500.00	29.34	279.62	4,945.16	375.20	-2,213.65	-412.63	0.00	0.00	0.00
5,600.00	29.34	279.62	5,032.33	383.39	-2,261.96	-421.63	0.00	0.00	0.00
5,700.00	29.34	279.62	5,119.50	391.58	-2,310.27	-430.64	0.00	0.00	0.00
5,800.00	29.34	279.62	5,206.67	399.77	-2,358.58	-439.64	0.00	0.00	0.00
5,900.00	29.34	279.62	5,293.85	407.96	-2,406.89	-448.65	0.00	0.00	0.00
6,000.00	29.34	279.62	5,381.02	416.15	-2,455.20	-457.65	0.00	0.00	0.00
6,070.67	29.34	279.62	5,442.62	421.93	-2,489.34	-464.01	0.00	0.00	0.00
KOP @ 6070.67ft :: DLS = 9°/100'									
6,100.00	29.02	274.24	5,468.24	423.66	-2,503.52	-465.98	9.00	-1.08	-18.33
6,150.00	28.98	264.96	5,511.99	423.49	-2,527.69	-466.22	9.00	-0.08	-18.58
6,200.00	29.58	255.83	5,555.62	419.40	-2,551.74	-462.54	9.00	1.19	-18.26
6,250.00	30.77	247.18	5,598.87	411.42	-2,575.50	-454.96	9.00	2.38	-17.29
6,300.00	32.48	239.24	5,641.46	399.59	-2,598.84	-443.53	9.00	3.44	-15.88
6,350.00	34.65	232.11	5,683.14	383.98	-2,621.61	-428.31	9.00	4.34	-14.28
6,400.00	37.19	225.77	5,723.64	364.70	-2,643.66	-409.40	9.00	5.08	-12.68
6,450.00	40.03	220.17	5,762.72	341.86	-2,664.87	-386.93	9.00	5.68	-11.20
6,500.00	43.11	215.21	5,800.13	315.60	-2,685.11	-361.01	9.00	6.15	-9.91
6,550.00	46.37	210.81	5,835.65	286.09	-2,704.24	-331.83	9.00	6.53	-8.80
6,600.00	49.79	206.88	5,869.06	253.50	-2,722.15	-299.55	9.00	6.84	-7.87
6,650.00	53.33	203.33	5,900.14	218.04	-2,738.73	-264.37	9.00	7.08	-7.10
6,700.00	56.96	200.09	5,928.72	179.93	-2,753.88	-226.52	9.00	7.27	-6.47
6,750.00	60.68	197.12	5,954.60	139.39	-2,767.50	-186.22	9.00	7.42	-5.95
6,800.00	64.45	194.35	5,977.64	96.69	-2,779.51	-143.73	9.00	7.55	-5.53
6,850.00	68.27	191.76	5,997.69	52.08	-2,789.84	-99.30	9.00	7.64	-5.19
6,900.00	72.13	189.30	6,014.63	5.84	-2,798.42	-53.21	9.00	7.72	-4.92
6,950.00	76.02	186.94	6,028.35	-41.75	-2,805.20	-5.74	9.00	7.78	-4.71
7,000.00	79.93	184.67	6,038.77	-90.39	-2,810.13	42.81	9.00	7.82	-4.55
7,050.00	83.86	182.44	6,045.82	-139.78	-2,813.20	92.14	9.00	7.85	-4.44
7,100.00	87.79	180.26	6,049.46	-189.62	-2,814.37	141.95	9.00	7.87	-4.38
7,128.05	90.00	179.03	6,050.00	-217.67	-2,814.20	169.99	9.00	7.88	-4.35
LP/TPZ @ 7128.05ft									
7,200.00	90.00	179.03	6,050.00	-289.61	-2,812.99	241.94	0.00	0.00	0.00
7,300.00	90.00	179.03	6,050.00	-389.59	-2,811.30	341.94	0.00	0.00	0.00
7,400.00	90.00	179.03	6,050.00	-489.58	-2,809.62	441.94	0.00	0.00	0.00
7,500.00	90.00	179.03	6,050.00	-589.56	-2,807.93	541.94	0.00	0.00	0.00
7,600.00	90.00	179.03	6,050.00	-689.55	-2,806.25	641.94	0.00	0.00	0.00
7,700.00	90.00	179.03	6,050.00	-789.53	-2,804.56	741.94	0.00	0.00	0.00
7,800.00	90.00	179.03	6,050.00	-889.52	-2,802.88	841.94	0.00	0.00	0.00
7,900.00	90.00	179.03	6,050.00	-989.51	-2,801.19	941.94	0.00	0.00	0.00
8,000.00	90.00	179.03	6,050.00	-1,089.49	-2,799.51	1,041.94	0.00	0.00	0.00
8,100.00	90.00	179.03	6,050.00	-1,189.48	-2,797.82	1,141.94	0.00	0.00	0.00
8,200.00	90.00	179.03	6,050.00	-1,289.46	-2,796.14	1,241.94	0.00	0.00	0.00
8,300.00	90.00	179.03	6,050.00	-1,389.45	-2,794.45	1,341.94	0.00	0.00	0.00
8,400.00	90.00	179.03	6,050.00	-1,489.43	-2,792.77	1,441.94	0.00	0.00	0.00
8,500.00	90.00	179.03	6,050.00	-1,589.42	-2,791.08	1,541.94	0.00	0.00	0.00
8,600.00	90.00	179.03	6,050.00	-1,689.41	-2,789.40	1,641.94	0.00	0.00	0.00
8,700.00	90.00	179.03	6,050.00	-1,789.39	-2,787.71	1,741.94	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

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)	
8,800.00	90.00	179.03	6,050.00	-1,889.38	-2,786.03	1,841.94	0.00	0.00	0.00	
8,900.00	90.00	179.03	6,050.00	-1,989.36	-2,784.34	1,941.94	0.00	0.00	0.00	
9,000.00	90.00	179.03	6,050.00	-2,089.35	-2,782.66	2,041.94	0.00	0.00	0.00	
9,100.00	90.00	179.03	6,050.00	-2,189.34	-2,780.97	2,141.94	0.00	0.00	0.00	
9,200.00	90.00	179.03	6,050.00	-2,289.32	-2,779.29	2,241.94	0.00	0.00	0.00	
9,300.00	90.00	179.03	6,050.00	-2,389.31	-2,777.60	2,341.94	0.00	0.00	0.00	
9,400.00	90.00	179.03	6,050.00	-2,489.29	-2,775.92	2,441.94	0.00	0.00	0.00	
9,500.00	90.00	179.03	6,050.00	-2,589.28	-2,774.23	2,541.94	0.00	0.00	0.00	
9,600.00	90.00	179.03	6,050.00	-2,689.26	-2,772.55	2,641.94	0.00	0.00	0.00	
9,700.00	90.00	179.03	6,050.00	-2,789.25	-2,770.86	2,741.94	0.00	0.00	0.00	
9,800.00	90.00	179.03	6,050.00	-2,889.24	-2,769.18	2,841.94	0.00	0.00	0.00	
9,900.00	90.00	179.03	6,050.00	-2,989.22	-2,767.49	2,941.94	0.00	0.00	0.00	
10,000.00	90.00	179.03	6,050.00	-3,089.21	-2,765.81	3,041.94	0.00	0.00	0.00	
10,100.00	90.00	179.03	6,050.00	-3,189.19	-2,764.12	3,141.94	0.00	0.00	0.00	
10,200.00	90.00	179.03	6,050.00	-3,289.18	-2,762.44	3,241.94	0.00	0.00	0.00	
10,300.00	90.00	179.03	6,050.00	-3,389.17	-2,760.75	3,341.94	0.00	0.00	0.00	
10,400.00	90.00	179.03	6,050.00	-3,489.15	-2,759.07	3,441.94	0.00	0.00	0.00	
10,500.00	90.00	179.03	6,050.00	-3,589.14	-2,757.38	3,541.94	0.00	0.00	0.00	
10,600.00	90.00	179.03	6,050.00	-3,689.12	-2,755.70	3,641.94	0.00	0.00	0.00	
10,700.00	90.00	179.03	6,050.00	-3,789.11	-2,754.01	3,741.94	0.00	0.00	0.00	
10,800.00	90.00	179.03	6,050.00	-3,889.09	-2,752.33	3,841.94	0.00	0.00	0.00	
10,900.00	90.00	179.03	6,050.00	-3,989.08	-2,750.64	3,941.94	0.00	0.00	0.00	
11,000.00	90.00	179.03	6,050.00	-4,089.07	-2,748.96	4,041.94	0.00	0.00	0.00	
11,100.00	90.00	179.03	6,050.00	-4,189.05	-2,747.27	4,141.94	0.00	0.00	0.00	
11,200.00	90.00	179.03	6,050.00	-4,289.04	-2,745.59	4,241.94	0.00	0.00	0.00	
11,300.00	90.00	179.03	6,050.00	-4,389.02	-2,743.90	4,341.94	0.00	0.00	0.00	
11,400.00	90.00	179.03	6,050.00	-4,489.01	-2,742.22	4,441.94	0.00	0.00	0.00	
11,500.00	90.00	179.03	6,050.00	-4,588.99	-2,740.53	4,541.94	0.00	0.00	0.00	
11,600.00	90.00	179.03	6,050.00	-4,688.98	-2,738.85	4,641.94	0.00	0.00	0.00	
11,635.81	90.00	179.03	6,050.00	-4,724.79	-2,738.24	4,677.75	0.00	0.00	0.00	
BPZ @ 11635.81ft										
11,700.00	90.00	179.03	6,050.00	-4,788.97	-2,737.16	4,741.94	0.00	0.00	0.00	
11,725.82	90.00	179.03	6,050.00	-4,814.78	-2,736.73	4,767.76	0.00	0.00	0.00	
TD Well @ 11725.82ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,662.62	1,600.00	9 5/8"		9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 0101-01H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 24' @ 4962.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 24' @ 4962.00usft (RIG)
Site:	9N-59W-01 TIMBRO 0101 PAD	North Reference:	True
Well:	TIMBRO 0101-01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.80	200.80	0.00	0.00	Begin Nudge @ 200.80ft
1,667.80	1,604.52	61.41	-362.31	Hold Tangent @ 1667.80ft
6,070.67	5,442.62	421.93	-2,489.34	KOP @ 6070.67ft :: DLS = 9°/100'
7,128.05	6,050.00	-217.67	-2,814.20	LP/TPZ @ 7128.05ft
11,635.81	6,050.00	-4,724.79	-2,738.24	BPZ @ 11635.81ft
11,725.82	6,050.00	-4,814.78	-2,736.73	TD Well @ 11725.82ft