

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-17 TIMBRO 1717 PAD

TIMBRO 1717-08H

Plan B

Plan: Design #1

Standard Planning Report

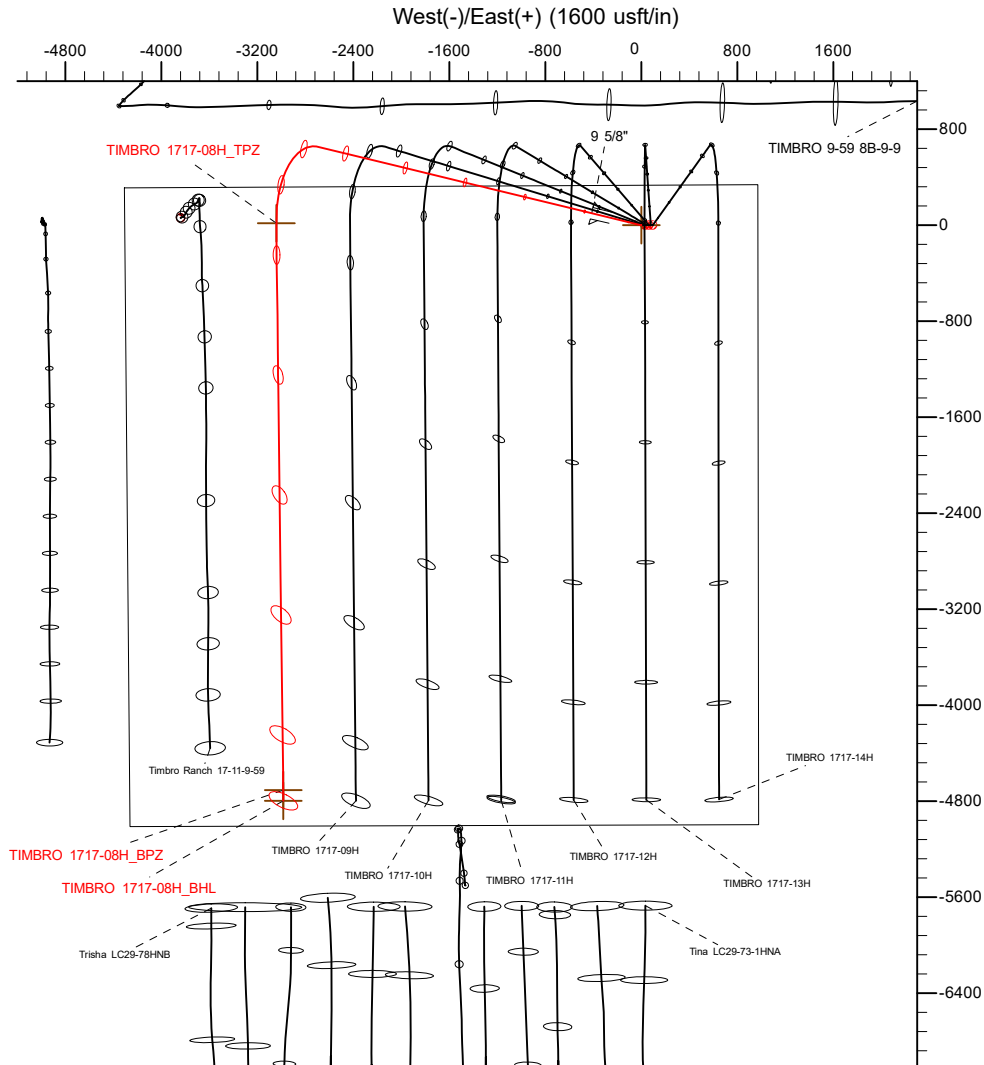
02 September, 2021

Project: WATTENBERG FIELD
Site: 9N-59W-17 TIMBRO 1717 PAD
Well: TIMBRO 1717-08H
Wellbore: Plan B
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1700.00	1778.39	9 5/8"	9-5/8



SHL
334 FNL
972' FEL

TPZ
300' FNL
1262' FWL

BPZ
300' FSL
1278' FWL

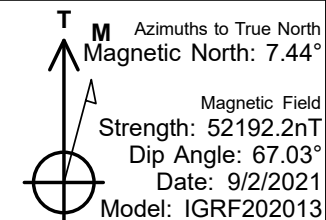
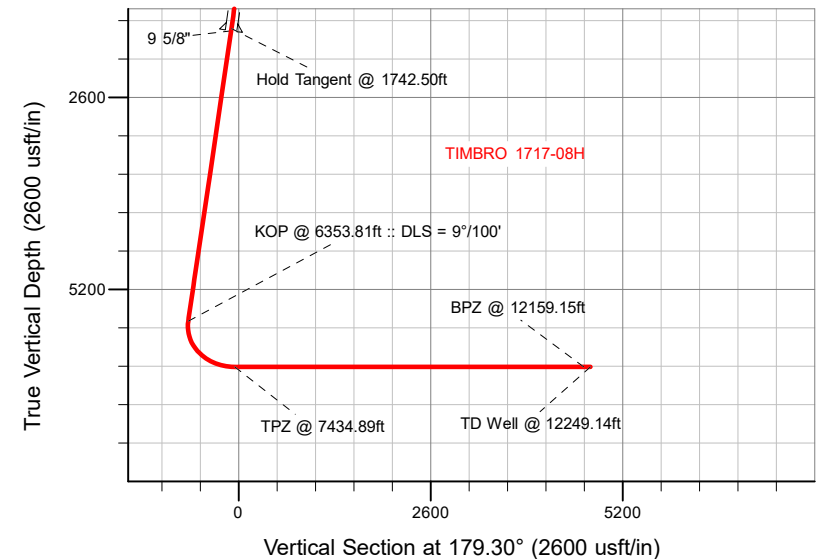
BHL
210' FSL
1278' FWL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	
3	1742.50	30.83	283.65	1669.18	95.53	-393.38	2.00	283.65	-100.33	
4	6353.81	30.83	283.65	5628.88	653.24	-2689.90	0.00	0.00	-686.05	
5	7434.89	90.00	179.30	6250.00	17.44	-3041.30	9.00	-102.39	-54.59	
6	12249.14	90.00	179.30	6250.00	-4796.46	-2982.55	0.00	0.00	4759.66	TIMBRO 1717-08H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
TIMBRO 1717-08H_SHL	0.00	0.00	0.00	40.756875	-103.996117
TIMBRO 1717-08H_TPZ	6250.00	17.44	-3041.30	40.756922	-104.007095
TIMBRO 1717-08H_BPZ	6250.00	-4706.47	-2983.64	40.743956	-104.006885
TIMBRO 1717-08H_BHL	6250.00	-4796.46	-2982.55	40.743709	-104.006880



WELL DETAILS: TIMBRO 1717-08H

GL = 5010'

RKB = 20' @ 5030.00usft (RIG)

Plan: Design #1 (TIMBRO 1717-08H/Plan B)

Date: 9/02/2021

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-08H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5030.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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		9N-59W-17 TIMBRO 1717 PAD			
Site Position:		Northing:	1,522,135.25 usft	Latitude:	40.756951
From:	Lat/Long	Easting:	3,416,606.55 usft	Longitude:	-103.996171
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well		TIMBRO 1717-08H				
Well Position	+N/-S	0.00 usft	Northing:	1,522,107.59 usft	Latitude:	40.756875
	+E/-W	0.00 usft	Easting:	3,416,622.03 usft	Longitude:	-103.996117
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,010.00 usft
Grid Convergence:		0.97 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	9/2/2021	7.44	67.03	52,192.16952003

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	179.30	

Plan Survey Tool Program		Date	9/2/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,700.00	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,700.00	12,249.14	Design #1 (Plan B)	ISCWSA MWD	
				Fixed:v2:standard declination	

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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	
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,742.50	30.83	283.65	1,669.18	95.53	-393.38	2.00	2.00	0.00	283.65	
6,353.81	30.83	283.65	5,628.88	653.24	-2,689.90	0.00	0.00	0.00	0.00	
7,434.89	90.00	179.30	6,250.00	17.44	-3,041.30	9.00	5.47	-9.65	-102.39	
12,249.14	90.00	179.30	6,250.00	-4,796.46	-2,982.55	0.00	0.00	0.00	0.00	TIMBRO 1717-08H_E

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-08H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5030.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 201.00ft									
300.00	1.98	283.65	299.98	0.40	-1.66	-0.42	2.00	2.00	0.00
400.00	3.98	283.65	399.84	1.63	-6.71	-1.71	2.00	2.00	0.00
500.00	5.98	283.65	499.46	3.68	-15.15	-3.86	2.00	2.00	0.00
600.00	7.98	283.65	598.71	6.55	-26.96	-6.88	2.00	2.00	0.00
700.00	9.98	283.65	697.48	10.23	-42.12	-10.74	2.00	2.00	0.00
800.00	11.98	283.65	795.64	14.72	-60.63	-15.46	2.00	2.00	0.00
900.00	13.98	283.65	893.08	20.02	-82.46	-21.03	2.00	2.00	0.00
1,000.00	15.98	283.65	989.68	26.12	-107.57	-27.44	2.00	2.00	0.00
1,100.00	17.98	283.65	1,085.32	33.02	-135.95	-34.67	2.00	2.00	0.00
1,200.00	19.98	283.65	1,179.88	40.69	-167.56	-42.73	2.00	2.00	0.00
1,300.00	21.98	283.65	1,273.24	49.14	-202.35	-51.61	2.00	2.00	0.00
1,400.00	23.98	283.65	1,365.30	58.35	-240.28	-61.28	2.00	2.00	0.00
1,500.00	25.98	283.65	1,455.94	68.32	-281.32	-71.75	2.00	2.00	0.00
1,600.00	27.98	283.65	1,545.05	79.02	-325.40	-82.99	2.00	2.00	0.00
1,700.00	29.98	283.65	1,632.53	90.46	-372.48	-95.00	2.00	2.00	0.00
1,742.50	30.83	283.65	1,669.18	95.53	-393.38	-100.33	2.00	2.00	0.00
Hold Tangent @ 1742.50ft									
1,778.39	30.83	283.65	1,700.00	99.87	-411.26	-104.89	0.00	0.00	0.00
9 5/8"									
1,800.00	30.83	283.65	1,718.56	102.49	-422.02	-107.64	0.00	0.00	0.00
1,900.00	30.83	283.65	1,804.43	114.58	-471.82	-120.34	0.00	0.00	0.00
2,000.00	30.83	283.65	1,890.30	126.68	-521.62	-133.04	0.00	0.00	0.00
2,100.00	30.83	283.65	1,976.17	138.77	-571.43	-145.74	0.00	0.00	0.00
2,200.00	30.83	283.65	2,062.03	150.86	-621.23	-158.44	0.00	0.00	0.00
2,300.00	30.83	283.65	2,147.90	162.96	-671.03	-171.14	0.00	0.00	0.00
2,400.00	30.83	283.65	2,233.77	175.05	-720.83	-183.85	0.00	0.00	0.00
2,500.00	30.83	283.65	2,319.64	187.15	-770.63	-196.55	0.00	0.00	0.00
2,600.00	30.83	283.65	2,405.51	199.24	-820.43	-209.25	0.00	0.00	0.00
2,700.00	30.83	283.65	2,491.38	211.34	-870.24	-221.95	0.00	0.00	0.00
2,800.00	30.83	283.65	2,577.25	223.43	-920.04	-234.65	0.00	0.00	0.00
2,900.00	30.83	283.65	2,663.12	235.53	-969.84	-247.36	0.00	0.00	0.00
3,000.00	30.83	283.65	2,748.99	247.62	-1,019.64	-260.06	0.00	0.00	0.00
3,100.00	30.83	283.65	2,834.86	259.71	-1,069.44	-272.76	0.00	0.00	0.00
3,200.00	30.83	283.65	2,920.73	271.81	-1,119.25	-285.46	0.00	0.00	0.00
3,300.00	30.83	283.65	3,006.60	283.90	-1,169.05	-298.16	0.00	0.00	0.00
3,400.00	30.83	283.65	3,092.46	296.00	-1,218.85	-310.87	0.00	0.00	0.00
3,500.00	30.83	283.65	3,178.33	308.09	-1,268.65	-323.57	0.00	0.00	0.00
3,600.00	30.83	283.65	3,264.20	320.19	-1,318.45	-336.27	0.00	0.00	0.00
3,700.00	30.83	283.65	3,350.07	332.28	-1,368.25	-348.97	0.00	0.00	0.00
3,800.00	30.83	283.65	3,435.94	344.37	-1,418.06	-361.67	0.00	0.00	0.00
3,900.00	30.83	283.65	3,521.81	356.47	-1,467.86	-374.37	0.00	0.00	0.00
4,000.00	30.83	283.65	3,607.68	368.56	-1,517.66	-387.08	0.00	0.00	0.00
4,100.00	30.83	283.65	3,693.55	380.66	-1,567.46	-399.78	0.00	0.00	0.00
4,200.00	30.83	283.65	3,779.42	392.75	-1,617.26	-412.48	0.00	0.00	0.00
4,300.00	30.83	283.65	3,865.29	404.85	-1,667.06	-425.18	0.00	0.00	0.00
4,400.00	30.83	283.65	3,951.16	416.94	-1,716.87	-437.88	0.00	0.00	0.00
4,500.00	30.83	283.65	4,037.03	429.03	-1,766.67	-450.59	0.00	0.00	0.00
4,600.00	30.83	283.65	4,122.89	441.13	-1,816.47	-463.29	0.00	0.00	0.00
4,700.00	30.83	283.65	4,208.76	453.22	-1,866.27	-475.99	0.00	0.00	0.00

Planning Report

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Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)
4,800.00	30.83	283.65	4,294.63	465.32	-1,916.07	-488.69	0.00	0.00	0.00
4,900.00	30.83	283.65	4,380.50	477.41	-1,965.87	-501.39	0.00	0.00	0.00
5,000.00	30.83	283.65	4,466.37	489.51	-2,015.68	-514.09	0.00	0.00	0.00
5,100.00	30.83	283.65	4,552.24	501.60	-2,065.48	-526.80	0.00	0.00	0.00
5,200.00	30.83	283.65	4,638.11	513.69	-2,115.28	-539.50	0.00	0.00	0.00
5,300.00	30.83	283.65	4,723.98	525.79	-2,165.08	-552.20	0.00	0.00	0.00
5,400.00	30.83	283.65	4,809.85	537.88	-2,214.88	-564.90	0.00	0.00	0.00
5,500.00	30.83	283.65	4,895.72	549.98	-2,264.69	-577.60	0.00	0.00	0.00
5,600.00	30.83	283.65	4,981.59	562.07	-2,314.49	-590.31	0.00	0.00	0.00
5,700.00	30.83	283.65	5,067.46	574.17	-2,364.29	-603.01	0.00	0.00	0.00
5,800.00	30.83	283.65	5,153.32	586.26	-2,414.09	-615.71	0.00	0.00	0.00
5,900.00	30.83	283.65	5,239.19	598.35	-2,463.89	-628.41	0.00	0.00	0.00
6,000.00	30.83	283.65	5,325.06	610.45	-2,513.69	-641.11	0.00	0.00	0.00
6,100.00	30.83	283.65	5,410.93	622.54	-2,563.50	-653.82	0.00	0.00	0.00
6,200.00	30.83	283.65	5,496.80	634.64	-2,613.30	-666.52	0.00	0.00	0.00
6,300.00	30.83	283.65	5,582.67	646.73	-2,663.10	-679.22	0.00	0.00	0.00
6,353.81	30.83	283.65	5,628.88	653.24	-2,689.90	-686.05	0.00	0.00	0.00
KOP @ 6353.81ft :: DLS = 9°/100'									
6,400.00	30.19	275.55	5,668.69	657.16	-2,712.97	-690.25	9.00	-1.40	-17.53
6,450.00	30.06	266.59	5,711.96	657.63	-2,737.99	-691.03	9.00	-0.24	-17.94
6,500.00	30.55	257.71	5,755.15	654.18	-2,762.92	-687.88	9.00	0.97	-17.74
6,550.00	31.62	249.24	5,797.99	646.82	-2,787.61	-680.83	9.00	2.13	-16.95
6,600.00	33.20	241.37	5,840.22	635.61	-2,811.89	-669.92	9.00	3.17	-15.73
6,650.00	35.24	234.23	5,881.58	620.62	-2,835.62	-655.21	9.00	4.08	-14.28
6,700.00	37.65	227.84	5,921.81	601.92	-2,858.66	-636.80	9.00	4.83	-12.79
6,750.00	40.38	222.14	5,960.67	579.65	-2,880.86	-614.80	9.00	5.45	-11.39
6,800.00	43.35	217.07	5,997.91	553.94	-2,902.08	-589.35	9.00	5.94	-10.13
6,850.00	46.52	212.55	6,033.31	524.94	-2,922.20	-560.60	9.00	6.34	-9.04
6,900.00	49.85	208.49	6,066.65	492.84	-2,941.08	-528.73	9.00	6.66	-8.12
6,950.00	53.31	204.82	6,097.72	457.83	-2,958.62	-493.94	9.00	6.92	-7.35
7,000.00	56.88	201.47	6,126.33	420.13	-2,974.71	-456.44	9.00	7.13	-6.70
7,050.00	60.52	198.38	6,152.31	379.97	-2,989.24	-416.46	9.00	7.29	-6.18
7,100.00	64.24	195.51	6,175.49	337.60	-3,002.13	-374.25	9.00	7.42	-5.74
7,150.00	68.00	192.81	6,195.73	293.28	-3,013.29	-330.07	9.00	7.53	-5.39
7,200.00	71.81	190.25	6,212.91	247.28	-3,022.66	-284.19	9.00	7.61	-5.11
7,250.00	75.65	187.81	6,226.92	199.89	-3,030.18	-236.89	9.00	7.68	-4.89
7,300.00	79.51	185.45	6,237.68	151.40	-3,035.81	-188.47	9.00	7.73	-4.73
7,350.00	83.39	183.14	6,245.11	102.10	-3,039.51	-139.23	9.00	7.76	-4.61
7,400.00	87.28	180.87	6,249.17	52.31	-3,041.25	-89.46	9.00	7.78	-4.54
7,434.89	90.00	179.30	6,250.00	17.44	-3,041.30	-54.59	9.00	7.79	-4.51
TPZ @ 7434.89ft									
7,500.00	90.00	179.30	6,250.00	-47.67	-3,040.51	10.52	0.00	0.00	0.00
7,600.00	90.00	179.30	6,250.00	-147.66	-3,039.29	110.52	0.00	0.00	0.00
7,700.00	90.00	179.30	6,250.00	-247.65	-3,038.07	210.52	0.00	0.00	0.00
7,800.00	90.00	179.30	6,250.00	-347.65	-3,036.85	310.52	0.00	0.00	0.00
7,900.00	90.00	179.30	6,250.00	-447.64	-3,035.63	410.52	0.00	0.00	0.00
8,000.00	90.00	179.30	6,250.00	-547.63	-3,034.41	510.52	0.00	0.00	0.00
8,100.00	90.00	179.30	6,250.00	-647.62	-3,033.19	610.52	0.00	0.00	0.00
8,200.00	90.00	179.30	6,250.00	-747.62	-3,031.97	710.52	0.00	0.00	0.00
8,300.00	90.00	179.30	6,250.00	-847.61	-3,030.75	810.52	0.00	0.00	0.00
8,400.00	90.00	179.30	6,250.00	-947.60	-3,029.52	910.52	0.00	0.00	0.00
8,500.00	90.00	179.30	6,250.00	-1,047.59	-3,028.30	1,010.52	0.00	0.00	0.00
8,600.00	90.00	179.30	6,250.00	-1,147.59	-3,027.08	1,110.52	0.00	0.00	0.00
8,700.00	90.00	179.30	6,250.00	-1,247.58	-3,025.86	1,210.52	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-08H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5030.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
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)	
8,800.00	90.00	179.30	6,250.00	-1,347.57	-3,024.64	1,310.52	0.00	0.00	0.00	
8,900.00	90.00	179.30	6,250.00	-1,447.56	-3,023.42	1,410.52	0.00	0.00	0.00	
9,000.00	90.00	179.30	6,250.00	-1,547.56	-3,022.20	1,510.52	0.00	0.00	0.00	
9,100.00	90.00	179.30	6,250.00	-1,647.55	-3,020.98	1,610.52	0.00	0.00	0.00	
9,200.00	90.00	179.30	6,250.00	-1,747.54	-3,019.76	1,710.52	0.00	0.00	0.00	
9,300.00	90.00	179.30	6,250.00	-1,847.53	-3,018.54	1,810.52	0.00	0.00	0.00	
9,400.00	90.00	179.30	6,250.00	-1,947.53	-3,017.32	1,910.52	0.00	0.00	0.00	
9,500.00	90.00	179.30	6,250.00	-2,047.52	-3,016.10	2,010.52	0.00	0.00	0.00	
9,600.00	90.00	179.30	6,250.00	-2,147.51	-3,014.88	2,110.52	0.00	0.00	0.00	
9,700.00	90.00	179.30	6,250.00	-2,247.50	-3,013.66	2,210.52	0.00	0.00	0.00	
9,800.00	90.00	179.30	6,250.00	-2,347.50	-3,012.44	2,310.52	0.00	0.00	0.00	
9,900.00	90.00	179.30	6,250.00	-2,447.49	-3,011.22	2,410.52	0.00	0.00	0.00	
10,000.00	90.00	179.30	6,250.00	-2,547.48	-3,010.00	2,510.52	0.00	0.00	0.00	
10,100.00	90.00	179.30	6,250.00	-2,647.47	-3,008.78	2,610.52	0.00	0.00	0.00	
10,200.00	90.00	179.30	6,250.00	-2,747.47	-3,007.56	2,710.52	0.00	0.00	0.00	
10,300.00	90.00	179.30	6,250.00	-2,847.46	-3,006.34	2,810.52	0.00	0.00	0.00	
10,400.00	90.00	179.30	6,250.00	-2,947.45	-3,005.12	2,910.52	0.00	0.00	0.00	
10,500.00	90.00	179.30	6,250.00	-3,047.44	-3,003.89	3,010.52	0.00	0.00	0.00	
10,600.00	90.00	179.30	6,250.00	-3,147.44	-3,002.67	3,110.52	0.00	0.00	0.00	
10,700.00	90.00	179.30	6,250.00	-3,247.43	-3,001.45	3,210.52	0.00	0.00	0.00	
10,800.00	90.00	179.30	6,250.00	-3,347.42	-3,000.23	3,310.52	0.00	0.00	0.00	
10,900.00	90.00	179.30	6,250.00	-3,447.41	-2,999.01	3,410.52	0.00	0.00	0.00	
11,000.00	90.00	179.30	6,250.00	-3,547.41	-2,997.79	3,510.52	0.00	0.00	0.00	
11,100.00	90.00	179.30	6,250.00	-3,647.40	-2,996.57	3,610.52	0.00	0.00	0.00	
11,200.00	90.00	179.30	6,250.00	-3,747.39	-2,995.35	3,710.52	0.00	0.00	0.00	
11,300.00	90.00	179.30	6,250.00	-3,847.38	-2,994.13	3,810.52	0.00	0.00	0.00	
11,400.00	90.00	179.30	6,250.00	-3,947.38	-2,992.91	3,910.52	0.00	0.00	0.00	
11,500.00	90.00	179.30	6,250.00	-4,047.37	-2,991.69	4,010.52	0.00	0.00	0.00	
11,600.00	90.00	179.30	6,250.00	-4,147.36	-2,990.47	4,110.52	0.00	0.00	0.00	
11,700.00	90.00	179.30	6,250.00	-4,247.35	-2,989.25	4,210.52	0.00	0.00	0.00	
11,800.00	90.00	179.30	6,250.00	-4,347.35	-2,988.03	4,310.52	0.00	0.00	0.00	
11,900.00	90.00	179.30	6,250.00	-4,447.34	-2,986.81	4,410.52	0.00	0.00	0.00	
12,000.00	90.00	179.30	6,250.00	-4,547.33	-2,985.59	4,510.52	0.00	0.00	0.00	
12,100.00	90.00	179.30	6,250.00	-4,647.33	-2,984.37	4,610.52	0.00	0.00	0.00	
12,159.15	90.00	179.30	6,250.00	-4,706.47	-2,983.65	4,669.67	0.00	0.00	0.00	
BPZ @ 12159.15ft										
12,200.00	90.00	179.30	6,250.00	-4,747.32	-2,983.15	4,710.52	0.00	0.00	0.00	
12,249.14	90.00	179.30	6,250.00	-4,796.45	-2,982.55	4,759.66	0.00	0.00	0.00	
TD Well @ 12249.14ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,778.39	1,700.00	9 5/8"		9-5/8	13-1/2

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-08H
Company:	VERDAD RESOURCES	TVD Reference:	RKB = 20' @ 5030.00usft (RIG)
Project:	WATTENBERG FIELD	MD Reference:	RKB = 20' @ 5030.00usft (RIG)
Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
201.00	201.00	0.00	0.00	Begin Nudge @ 201.00ft
1,742.50	1,669.18	95.53	-393.38	Hold Tangent @ 1742.50ft
6,353.81	5,628.88	653.24	-2,689.90	KOP @ 6353.81ft :: DLS = 9°/100'
7,434.89	6,250.00	17.44	-3,041.30	TPZ @ 7434.89ft
12,159.15	6,250.00	-4,706.47	-2,983.65	BPZ @ 12159.15ft
12,249.14	6,250.00	-4,796.45	-2,982.55	TD Well @ 12249.14ft