

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-17 TIMBRO 1717 PAD

TIMBRO 1717-10H

Wellbore #1

Plan: Design #3

Standard Planning Report

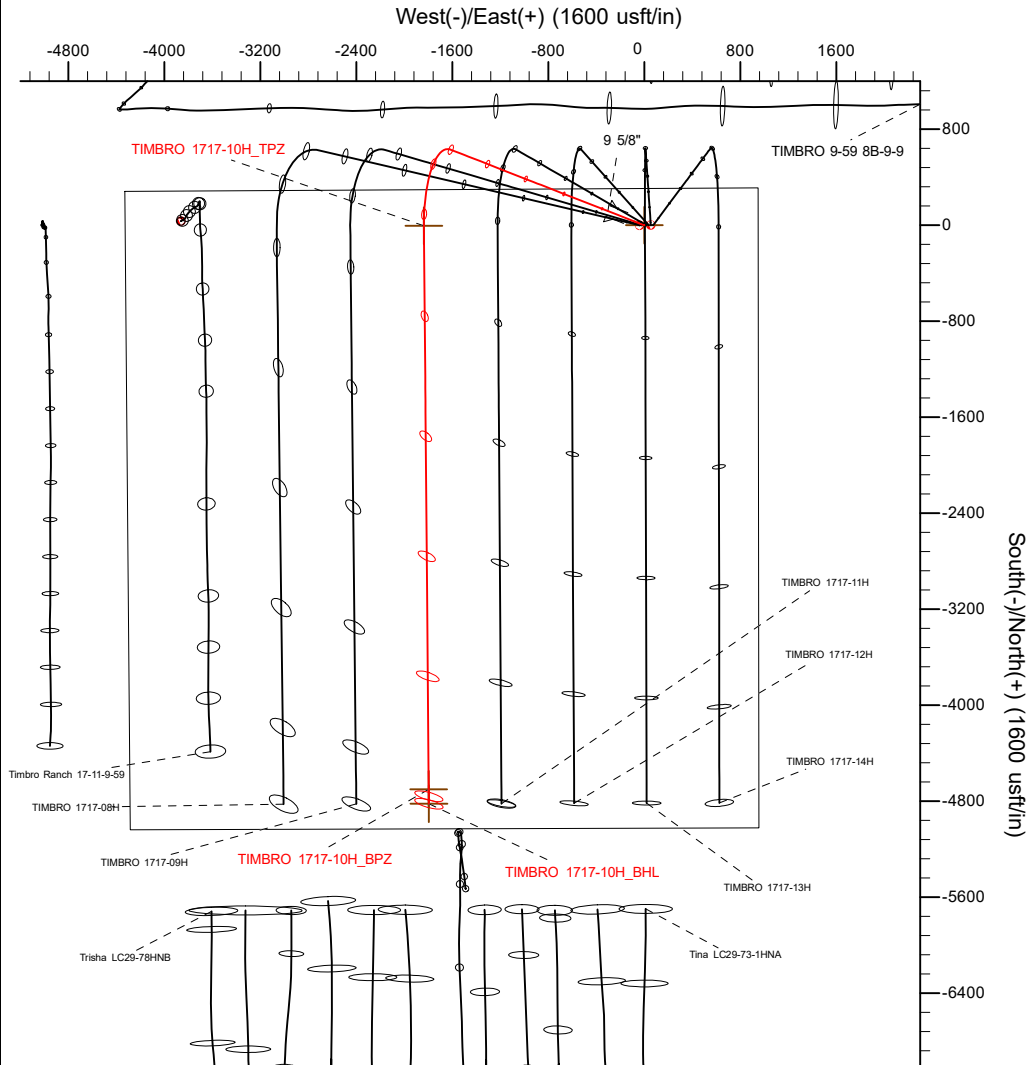
11 May, 2021

Project: WATTENBERG FIELD
Site: 9N-59W-17 TIMBRO 1717 PAD
Well: TIMBRO 1717-10H
Wellbore: Wellbore #1
Design: Design #3

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1700.00	1746.99	9 5/8"	9-5/8



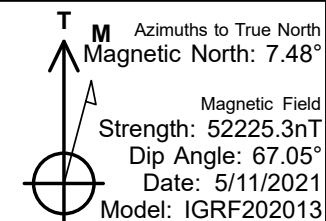
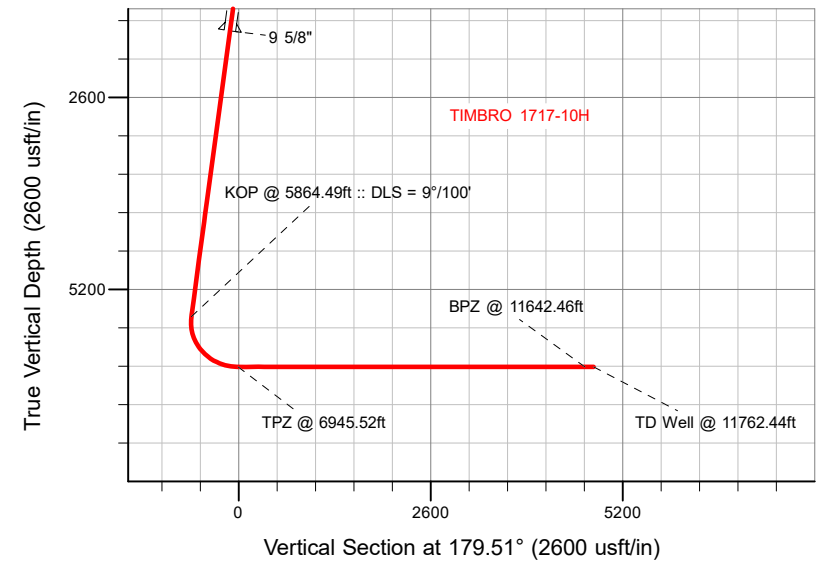
SHL	TPZ	BPZ	BHL
306 FNL	300' FNL	330' FSL	210' FSL
950' FEL	2490' FWL	2489' FWL	2489' FWL

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	300.80	0.00	0.00	300.80	0.00	0.00	0.00	0.00	0.00	
3	1298.80	19.96	291.34	1278.74	62.62	-160.29	2.00	291.34	-63.99	
4	5864.49	19.96	291.34	5570.17	629.79	-1611.99	0.00	0.00	-643.55	
5	6945.52	90.00	179.51	6250.00	-3.62	-1835.78	9.00	-110.63	-12.08	
6	11762.44	90.00	179.51	6250.00	-4820.36	-1794.63	0.00	0.00	4804.84	TIMBRO 1717-10H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
TIMBRO 1717-10H_SHL	0.00	0.00	0.00	0.00	40.756950	-103.996036
TIMBRO 1717-10H_TPZ	6945.52	6250.00	-3.62	-1835.78	40.756940	-104.002663
TIMBRO 1717-10H_BPZ	11642.46	6250.00	-4700.39	-1795.64	40.744049	-104.002517
TIMBRO 1717-10H_BHL	11762.44	6250.00	-4820.36	-1794.63	40.743720	-104.002513



WELL DETAILS: TIMBRO 1717-10H

GL = 5010'

RKB = 20' @ 5030.00usft (RIG)

Plan: Design #3 (TIMBRO 1717-10H/Wellbore #1)

Date: 5/11/2021

VERDAD RESOURCES

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-10H
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 1717-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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 1717-10H				
Well Position	+N/-S	0.00 usft	Northing:	1,522,135.58 usft	Latitude:	40.756951
	+E/-W	0.00 usft	Easting:	3,416,643.89 usft	Longitude:	-103.996037
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,010.00 usft
Grid Convergence:		0.97 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	5/11/2021	7.48	67.05	52,225.26910637

Design	Design #3				
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	179.51	

Plan Survey Tool Program	Date	5/11/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,700.00	Design #3 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	
2	1,700.00	11,762.44	Design #3 (Wellbore #1)	ISCWSA MWD	
				Fixed:v2:standard declination	

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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 1717-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	
300.80	0.00	0.00	300.80	0.00	0.00	0.00	0.00	0.00	0.00	
1,298.80	19.96	291.34	1,278.74	62.62	-160.29	2.00	2.00	0.00	291.34	
5,864.49	19.96	291.34	5,570.17	629.79	-1,611.99	0.00	0.00	0.00	0.00	
6,945.52	90.00	179.51	6,250.00	-3.62	-1,835.78	9.00	6.48	-10.34	-110.63	
11,762.44	90.00	179.51	6,250.00	-4,820.36	-1,794.63	0.00	0.00	0.00	0.00	TIMBRO 1717-10H_E

VERDAD RESOURCES

Planning Report

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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 1717-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
300.80	0.00	0.00	300.80	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 300.80ft									
400.00	1.98	291.34	399.98	0.62	-1.60	-0.64	2.00	2.00	0.00
500.00	3.98	291.34	499.84	2.52	-6.45	-2.57	2.00	2.00	0.00
600.00	5.98	291.34	599.46	5.68	-14.54	-5.80	2.00	2.00	0.00
700.00	7.98	291.34	698.71	10.11	-25.86	-10.33	2.00	2.00	0.00
800.00	9.98	291.34	797.48	15.79	-40.41	-16.13	2.00	2.00	0.00
900.00	11.98	291.34	895.64	22.72	-58.16	-23.22	2.00	2.00	0.00
1,000.00	13.98	291.34	993.08	30.90	-79.08	-31.57	2.00	2.00	0.00
1,100.00	15.98	291.34	1,089.67	40.30	-103.16	-41.19	2.00	2.00	0.00
1,200.00	17.98	291.34	1,185.31	50.93	-130.37	-52.05	2.00	2.00	0.00
1,298.80	19.96	291.34	1,278.74	62.62	-160.29	-63.99	2.00	2.00	0.00
Hold Tangent @ 1298.80ft									
1,300.00	19.96	291.34	1,279.86	62.77	-160.67	-64.14	0.00	0.00	0.00
1,400.00	19.96	291.34	1,373.86	75.19	-192.46	-76.84	0.00	0.00	0.00
1,500.00	19.96	291.34	1,467.85	87.62	-224.26	-89.53	0.00	0.00	0.00
1,600.00	19.96	291.34	1,561.84	100.04	-256.06	-102.22	0.00	0.00	0.00
1,700.00	19.96	291.34	1,655.84	112.46	-287.85	-114.92	0.00	0.00	0.00
1,746.99	19.96	291.34	1,700.00	118.30	-302.79	-120.88	0.00	0.00	0.00
9 5/8"									
1,800.00	19.96	291.34	1,749.83	124.88	-319.65	-127.61	0.00	0.00	0.00
1,900.00	19.96	291.34	1,843.82	137.30	-351.44	-140.31	0.00	0.00	0.00
2,000.00	19.96	291.34	1,937.82	149.73	-383.24	-153.00	0.00	0.00	0.00
2,100.00	19.96	291.34	2,031.81	162.15	-415.03	-165.69	0.00	0.00	0.00
2,200.00	19.96	291.34	2,125.80	174.57	-446.83	-178.39	0.00	0.00	0.00
2,300.00	19.96	291.34	2,219.80	186.99	-478.63	-191.08	0.00	0.00	0.00
2,400.00	19.96	291.34	2,313.79	199.42	-510.42	-203.77	0.00	0.00	0.00
2,500.00	19.96	291.34	2,407.78	211.84	-542.22	-216.47	0.00	0.00	0.00
2,600.00	19.96	291.34	2,501.77	224.26	-574.01	-229.16	0.00	0.00	0.00
2,700.00	19.96	291.34	2,595.77	236.68	-605.81	-241.86	0.00	0.00	0.00
2,800.00	19.96	291.34	2,689.76	249.11	-637.61	-254.55	0.00	0.00	0.00
2,900.00	19.96	291.34	2,783.75	261.53	-669.40	-267.24	0.00	0.00	0.00
3,000.00	19.96	291.34	2,877.75	273.95	-701.20	-279.94	0.00	0.00	0.00
3,100.00	19.96	291.34	2,971.74	286.37	-732.99	-292.63	0.00	0.00	0.00
3,200.00	19.96	291.34	3,065.73	298.79	-764.79	-305.32	0.00	0.00	0.00
3,300.00	19.96	291.34	3,159.73	311.22	-796.59	-318.02	0.00	0.00	0.00
3,400.00	19.96	291.34	3,253.72	323.64	-828.38	-330.71	0.00	0.00	0.00
3,500.00	19.96	291.34	3,347.71	336.06	-860.18	-343.41	0.00	0.00	0.00
3,600.00	19.96	291.34	3,441.71	348.48	-891.97	-356.10	0.00	0.00	0.00
3,700.00	19.96	291.34	3,535.70	360.91	-923.77	-368.79	0.00	0.00	0.00
3,800.00	19.96	291.34	3,629.69	373.33	-955.57	-381.49	0.00	0.00	0.00
3,900.00	19.96	291.34	3,723.68	385.75	-987.36	-394.18	0.00	0.00	0.00
4,000.00	19.96	291.34	3,817.68	398.17	-1,019.16	-406.87	0.00	0.00	0.00
4,100.00	19.96	291.34	3,911.67	410.60	-1,050.95	-419.57	0.00	0.00	0.00
4,200.00	19.96	291.34	4,005.66	423.02	-1,082.75	-432.26	0.00	0.00	0.00
4,300.00	19.96	291.34	4,099.66	435.44	-1,114.55	-444.96	0.00	0.00	0.00
4,400.00	19.96	291.34	4,193.65	447.86	-1,146.34	-457.65	0.00	0.00	0.00
4,500.00	19.96	291.34	4,287.64	460.28	-1,178.14	-470.34	0.00	0.00	0.00
4,600.00	19.96	291.34	4,381.64	472.71	-1,209.93	-483.04	0.00	0.00	0.00

VERDAD RESOURCES

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-10H
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 1717-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
4,700.00	19.96	291.34	4,475.63	485.13	-1,241.73	-495.73	0.00	0.00	0.00
4,800.00	19.96	291.34	4,569.62	497.55	-1,273.52	-508.42	0.00	0.00	0.00
4,900.00	19.96	291.34	4,663.62	509.97	-1,305.32	-521.12	0.00	0.00	0.00
5,000.00	19.96	291.34	4,757.61	522.40	-1,337.12	-533.81	0.00	0.00	0.00
5,100.00	19.96	291.34	4,851.60	534.82	-1,368.91	-546.51	0.00	0.00	0.00
5,200.00	19.96	291.34	4,945.60	547.24	-1,400.71	-559.20	0.00	0.00	0.00
5,300.00	19.96	291.34	5,039.59	559.66	-1,432.50	-571.89	0.00	0.00	0.00
5,400.00	19.96	291.34	5,133.58	572.08	-1,464.30	-584.59	0.00	0.00	0.00
5,500.00	19.96	291.34	5,227.57	584.51	-1,496.10	-597.28	0.00	0.00	0.00
5,600.00	19.96	291.34	5,321.57	596.93	-1,527.89	-609.97	0.00	0.00	0.00
5,700.00	19.96	291.34	5,415.56	609.35	-1,559.69	-622.67	0.00	0.00	0.00
5,800.00	19.96	291.34	5,509.55	621.77	-1,591.48	-635.36	0.00	0.00	0.00
5,864.49	19.96	291.34	5,570.17	629.79	-1,611.99	-643.55	0.00	0.00	0.00
KOP @ 5864.49ft :: DLS = 9°/100'									
5,900.00	19.06	282.15	5,603.65	633.21	-1,623.31	-647.07	9.00	-2.53	-25.89
6,000.00	19.24	254.48	5,698.31	632.24	-1,655.21	-646.37	9.00	0.18	-27.67
6,100.00	23.10	231.74	5,791.70	615.65	-1,686.56	-630.05	9.00	3.86	-22.74
6,200.00	29.20	216.61	5,881.52	583.85	-1,716.57	-598.51	9.00	6.11	-15.13
6,300.00	36.44	206.68	5,965.56	537.63	-1,744.51	-552.53	9.00	7.24	-9.93
6,400.00	44.26	199.75	6,041.75	478.13	-1,769.69	-493.25	9.00	7.82	-6.92
6,500.00	52.39	194.57	6,108.21	406.81	-1,791.49	-422.11	9.00	8.13	-5.19
6,600.00	60.70	190.42	6,163.31	325.42	-1,809.37	-340.88	9.00	8.31	-4.15
6,700.00	69.12	186.90	6,205.69	235.98	-1,822.89	-251.56	9.00	8.42	-3.52
6,800.00	77.60	183.76	6,234.31	140.67	-1,831.73	-156.33	9.00	8.48	-3.14
6,900.00	86.12	180.82	6,248.46	41.86	-1,835.65	-57.56	9.00	8.52	-2.94
6,945.52	90.00	179.51	6,250.00	-3.62	-1,835.78	-12.08	9.00	8.53	-2.88
TPZ @ 6945.52ft									
7,000.00	90.00	179.51	6,250.00	-58.10	-1,835.32	42.40	0.00	0.00	0.00
7,100.00	90.00	179.51	6,250.00	-158.10	-1,834.46	142.40	0.00	0.00	0.00
7,200.00	90.00	179.51	6,250.00	-258.09	-1,833.61	242.40	0.00	0.00	0.00
7,300.00	90.00	179.51	6,250.00	-358.09	-1,832.75	342.40	0.00	0.00	0.00
7,400.00	90.00	179.51	6,250.00	-458.09	-1,831.90	442.40	0.00	0.00	0.00
7,500.00	90.00	179.51	6,250.00	-558.08	-1,831.05	542.40	0.00	0.00	0.00
7,600.00	90.00	179.51	6,250.00	-658.08	-1,830.19	642.40	0.00	0.00	0.00
7,700.00	90.00	179.51	6,250.00	-758.07	-1,829.34	742.40	0.00	0.00	0.00
7,800.00	90.00	179.51	6,250.00	-858.07	-1,828.48	842.40	0.00	0.00	0.00
7,900.00	90.00	179.51	6,250.00	-958.07	-1,827.63	942.40	0.00	0.00	0.00
8,000.00	90.00	179.51	6,250.00	-1,058.06	-1,826.77	1,042.40	0.00	0.00	0.00
8,100.00	90.00	179.51	6,250.00	-1,158.06	-1,825.92	1,142.40	0.00	0.00	0.00
8,200.00	90.00	179.51	6,250.00	-1,258.06	-1,825.06	1,242.40	0.00	0.00	0.00
8,300.00	90.00	179.51	6,250.00	-1,358.05	-1,824.21	1,342.40	0.00	0.00	0.00
8,400.00	90.00	179.51	6,250.00	-1,458.05	-1,823.36	1,442.40	0.00	0.00	0.00
8,500.00	90.00	179.51	6,250.00	-1,558.05	-1,822.50	1,542.40	0.00	0.00	0.00
8,600.00	90.00	179.51	6,250.00	-1,658.04	-1,821.65	1,642.40	0.00	0.00	0.00
8,700.00	90.00	179.51	6,250.00	-1,758.04	-1,820.79	1,742.40	0.00	0.00	0.00
8,800.00	90.00	179.51	6,250.00	-1,858.03	-1,819.94	1,842.40	0.00	0.00	0.00
8,900.00	90.00	179.51	6,250.00	-1,958.03	-1,819.08	1,942.40	0.00	0.00	0.00
9,000.00	90.00	179.51	6,250.00	-2,058.03	-1,818.23	2,042.40	0.00	0.00	0.00
9,100.00	90.00	179.51	6,250.00	-2,158.02	-1,817.37	2,142.40	0.00	0.00	0.00
9,200.00	90.00	179.51	6,250.00	-2,258.02	-1,816.52	2,242.40	0.00	0.00	0.00
9,300.00	90.00	179.51	6,250.00	-2,358.02	-1,815.67	2,342.40	0.00	0.00	0.00
9,400.00	90.00	179.51	6,250.00	-2,458.01	-1,814.81	2,442.40	0.00	0.00	0.00
9,500.00	90.00	179.51	6,250.00	-2,558.01	-1,813.96	2,542.40	0.00	0.00	0.00
9,600.00	90.00	179.51	6,250.00	-2,658.01	-1,813.10	2,642.40	0.00	0.00	0.00

VERDAD RESOURCES

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well TIMBRO 1717-10H
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 1717-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)	
9,700.00	90.00	179.51	6,250.00	-2,758.00	-1,812.25	2,742.40	0.00	0.00	0.00	
9,800.00	90.00	179.51	6,250.00	-2,858.00	-1,811.39	2,842.40	0.00	0.00	0.00	
9,900.00	90.00	179.51	6,250.00	-2,957.99	-1,810.54	2,942.40	0.00	0.00	0.00	
10,000.00	90.00	179.51	6,250.00	-3,057.99	-1,809.69	3,042.40	0.00	0.00	0.00	
10,100.00	90.00	179.51	6,250.00	-3,157.99	-1,808.83	3,142.40	0.00	0.00	0.00	
10,200.00	90.00	179.51	6,250.00	-3,257.98	-1,807.98	3,242.40	0.00	0.00	0.00	
10,300.00	90.00	179.51	6,250.00	-3,357.98	-1,807.12	3,342.40	0.00	0.00	0.00	
10,400.00	90.00	179.51	6,250.00	-3,457.98	-1,806.27	3,442.40	0.00	0.00	0.00	
10,500.00	90.00	179.51	6,250.00	-3,557.97	-1,805.41	3,542.40	0.00	0.00	0.00	
10,600.00	90.00	179.51	6,250.00	-3,657.97	-1,804.56	3,642.40	0.00	0.00	0.00	
10,700.00	90.00	179.51	6,250.00	-3,757.97	-1,803.70	3,742.40	0.00	0.00	0.00	
10,800.00	90.00	179.51	6,250.00	-3,857.96	-1,802.85	3,842.40	0.00	0.00	0.00	
10,900.00	90.00	179.51	6,250.00	-3,957.96	-1,802.00	3,942.40	0.00	0.00	0.00	
11,000.00	90.00	179.51	6,250.00	-4,057.95	-1,801.14	4,042.40	0.00	0.00	0.00	
11,100.00	90.00	179.51	6,250.00	-4,157.95	-1,800.29	4,142.40	0.00	0.00	0.00	
11,200.00	90.00	179.51	6,250.00	-4,257.95	-1,799.43	4,242.40	0.00	0.00	0.00	
11,300.00	90.00	179.51	6,250.00	-4,357.94	-1,798.58	4,342.40	0.00	0.00	0.00	
11,400.00	90.00	179.51	6,250.00	-4,457.94	-1,797.72	4,442.40	0.00	0.00	0.00	
11,500.00	90.00	179.51	6,250.00	-4,557.94	-1,796.87	4,542.40	0.00	0.00	0.00	
11,600.00	90.00	179.51	6,250.00	-4,657.93	-1,796.01	4,642.40	0.00	0.00	0.00	
11,642.46	90.00	179.51	6,250.00	-4,700.39	-1,795.65	4,684.86	0.00	0.00	0.00	
BPZ @ 11642.46ft										
11,700.00	90.00	179.51	6,250.00	-4,757.93	-1,795.16	4,742.40	0.00	0.00	0.00	
11,762.44	90.00	179.51	6,250.00	-4,820.36	-1,794.63	4,804.84	0.00	0.00	0.00	
TD Well @ 11762.44ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,746.99	1,700.00	9 5/8"	9-5/8	13-1/2	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.80	300.80	0.00	0.00	Begin Nudge @ 300.80ft	
1,298.80	1,278.74	62.62	-160.29	Hold Tangent @ 1298.80ft	
5,864.49	5,570.17	629.79	-1,611.99	KOP @ 5864.49ft :: DLS = 9°/100'	
6,945.52	6,250.00	-3.62	-1,835.78	TPZ @ 6945.52ft	
11,642.46	6,250.00	-4,700.39	-1,795.65	BPZ @ 11642.46ft	
11,762.44	6,250.00	-4,820.36	-1,794.63	TD Well @ 11762.44ft	