

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-17 TIMBRO 1717 PAD

TIMBRO 1717-08H

Wellbore #1

Plan: Design #3

Standard Planning Report

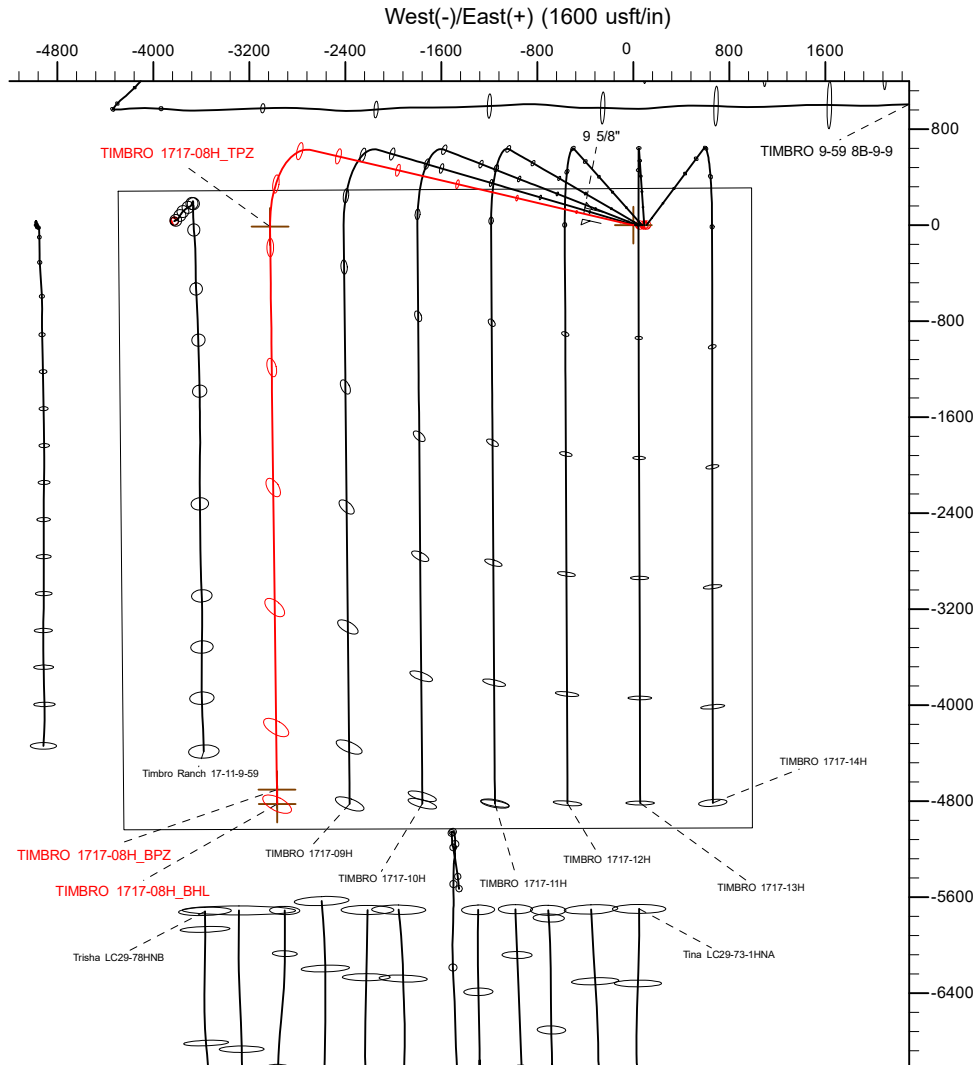
11 May, 2021

Project: WATTENBERG FIELD
 Site: 9N-59W-17 TIMBRO 1717 PAD
 Well: TIMBRO 1717-08H
 Wellbore: Wellbore #1
 Design: Design #3

VERDAD RESOURCES

CASING DETAILS

TVD	MD	Name	Size
1700.00	1778.30	9 5/8"	9-5/8

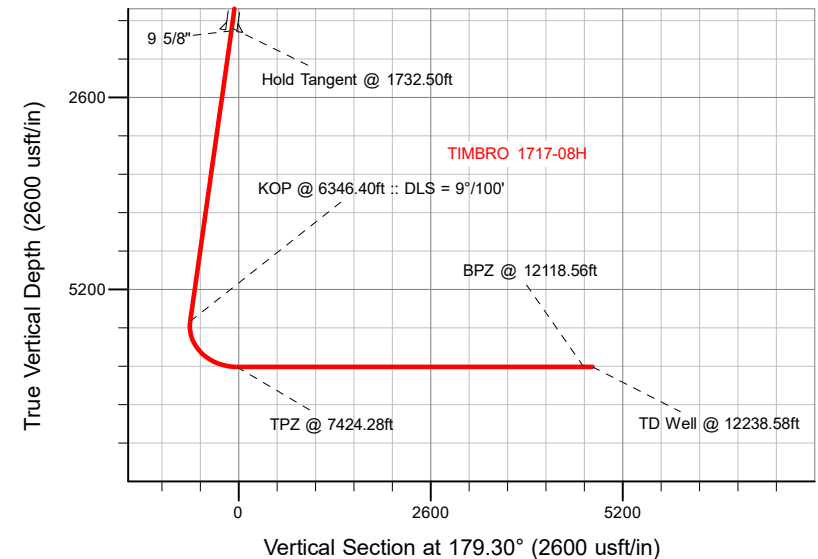


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet	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	1732.50	30.63	283.16	1660.59	91.00	-389.21	2.00	283.16	-95.75	
4	6346.40	30.63	283.16	5630.73	626.20	-2678.22	0.00	0.00	-658.87	
5	7424.28	90.00	179.30	6250.00	-9.95	-3026.50	9.00	-101.98	-27.02	
6	12238.58	90.00	179.30	6250.00	-4823.89	-2967.89	0.00	0.00	4787.27	TIMBRO 1717-08H_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	MD	TVD	+N/-S	+E/-W	Latitude	Longitude
TIMBRO 1717-08H_SHL	0.00	0.00	0.00	0.00	40.756950	-103.996170
TIMBRO 1717-08H_TPZ	7424.28	6250.00	-9.95	-3026.50	40.756922	-104.007095
TIMBRO 1717-08H_BPZ	12118.56	6250.00	-4703.88	-2969.34	40.744038	-104.006886
TIMBRO 1717-08H_BHL	12238.58	6250.00	-4823.89	-2967.89	40.743709	-104.006880

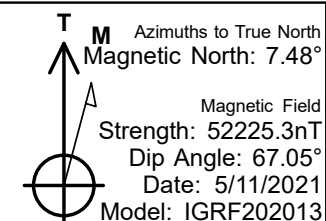


SHL
306 FNL
987' FEL

TPZ
300' FNL
1262' FWL

BPZ
330' FSL
1278' FWL

BHL
210' FSL
1279' FWL



WELL DETAILS: TIMBRO 1717-08H

GL = 5010'

RKB = 20' @ 5030.00usft (RIG)

Plan: Design #3 (TIMBRO 1717-08H/Wellbore #1)

Date: 5/11/2021

VERDAD RESOURCES

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:	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 1717-08H				
Well Position	+N/-S	0.00 usft	Northing:	1,522,134.77 usft	Latitude:	40.756950
	+E/-W	0.00 usft	Easting:	3,416,606.92 usft	Longitude:	-103.996170
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	52,225.25574990

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	179.30	

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	12,238.58	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 1717-08H	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	
201.00	0.00	0.00	201.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,732.50	30.63	283.16	1,660.59	91.00	-389.21	2.00	2.00	0.00	283.16	
6,346.40	30.63	283.16	5,630.73	626.20	-2,678.22	0.00	0.00	0.00	0.00	
7,424.28	90.00	179.30	6,250.00	-9.95	-3,026.50	9.00	5.51	-9.64	-101.98	
12,238.58	90.00	179.30	6,250.00	-4,823.89	-2,967.89	0.00	0.00	0.00	0.00	TIMBRO 1717-08H_E

VERDAD RESOURCES

Planning Report

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Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	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
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	283.16	299.98	0.39	-1.67	-0.41	2.00	2.00	0.00
400.00	3.98	283.16	399.84	1.57	-6.73	-1.66	2.00	2.00	0.00
500.00	5.98	283.16	499.46	3.55	-15.18	-3.73	2.00	2.00	0.00
600.00	7.98	283.16	598.71	6.32	-27.01	-6.65	2.00	2.00	0.00
700.00	9.98	283.16	697.48	9.87	-42.21	-10.38	2.00	2.00	0.00
800.00	11.98	283.16	795.64	14.21	-60.76	-14.95	2.00	2.00	0.00
900.00	13.98	283.16	893.08	19.32	-82.63	-20.33	2.00	2.00	0.00
1,000.00	15.98	283.16	989.68	25.20	-107.79	-26.52	2.00	2.00	0.00
1,100.00	17.98	283.16	1,085.32	31.85	-136.23	-33.51	2.00	2.00	0.00
1,200.00	19.98	283.16	1,179.88	39.26	-167.90	-41.30	2.00	2.00	0.00
1,300.00	21.98	283.16	1,273.24	47.41	-202.76	-49.88	2.00	2.00	0.00
1,400.00	23.98	283.16	1,365.30	56.30	-240.77	-59.23	2.00	2.00	0.00
1,500.00	25.98	283.16	1,455.94	65.91	-281.89	-69.35	2.00	2.00	0.00
1,600.00	27.98	283.16	1,545.05	76.24	-326.07	-80.22	2.00	2.00	0.00
1,700.00	29.98	283.16	1,632.53	87.27	-373.24	-91.82	2.00	2.00	0.00
1,732.50	30.63	283.16	1,660.59	91.00	-389.21	-95.75	2.00	2.00	0.00
Hold Tangent @ 1732.50ft									
1,778.30	30.63	283.16	1,700.00	96.32	-411.94	-101.34	0.00	0.00	0.00
9 5/8"									
1,800.00	30.63	283.16	1,718.67	98.83	-422.70	-103.99	0.00	0.00	0.00
1,900.00	30.63	283.16	1,804.72	110.43	-472.31	-116.19	0.00	0.00	0.00
2,000.00	30.63	283.16	1,890.76	122.03	-521.92	-128.40	0.00	0.00	0.00
2,100.00	30.63	283.16	1,976.81	133.63	-571.53	-140.60	0.00	0.00	0.00
2,200.00	30.63	283.16	2,062.86	145.23	-621.14	-152.81	0.00	0.00	0.00
2,300.00	30.63	283.16	2,148.91	156.83	-670.75	-165.01	0.00	0.00	0.00
2,400.00	30.63	283.16	2,234.95	168.43	-720.37	-177.22	0.00	0.00	0.00
2,500.00	30.63	283.16	2,321.00	180.03	-769.98	-189.42	0.00	0.00	0.00
2,600.00	30.63	283.16	2,407.05	191.63	-819.59	-201.63	0.00	0.00	0.00
2,700.00	30.63	283.16	2,493.10	203.23	-869.20	-213.83	0.00	0.00	0.00
2,800.00	30.63	283.16	2,579.14	214.83	-918.81	-226.04	0.00	0.00	0.00
2,900.00	30.63	283.16	2,665.19	226.43	-968.42	-238.24	0.00	0.00	0.00
3,000.00	30.63	283.16	2,751.24	238.03	-1,018.03	-250.45	0.00	0.00	0.00
3,100.00	30.63	283.16	2,837.29	249.63	-1,067.64	-262.65	0.00	0.00	0.00
3,200.00	30.63	283.16	2,923.33	261.23	-1,117.26	-274.86	0.00	0.00	0.00
3,300.00	30.63	283.16	3,009.38	272.83	-1,166.87	-287.06	0.00	0.00	0.00
3,400.00	30.63	283.16	3,095.43	284.43	-1,216.48	-299.27	0.00	0.00	0.00
3,500.00	30.63	283.16	3,181.48	296.03	-1,266.09	-311.47	0.00	0.00	0.00
3,600.00	30.63	283.16	3,267.52	307.63	-1,315.70	-323.68	0.00	0.00	0.00
3,700.00	30.63	283.16	3,353.57	319.23	-1,365.31	-335.88	0.00	0.00	0.00
3,800.00	30.63	283.16	3,439.62	330.83	-1,414.92	-348.09	0.00	0.00	0.00
3,900.00	30.63	283.16	3,525.67	342.42	-1,464.53	-360.29	0.00	0.00	0.00
4,000.00	30.63	283.16	3,611.72	354.02	-1,514.15	-372.50	0.00	0.00	0.00
4,100.00	30.63	283.16	3,697.76	365.62	-1,563.76	-384.70	0.00	0.00	0.00
4,200.00	30.63	283.16	3,783.81	377.22	-1,613.37	-396.91	0.00	0.00	0.00
4,300.00	30.63	283.16	3,869.86	388.82	-1,662.98	-409.11	0.00	0.00	0.00
4,400.00	30.63	283.16	3,955.91	400.42	-1,712.59	-421.32	0.00	0.00	0.00
4,500.00	30.63	283.16	4,041.95	412.02	-1,762.20	-433.52	0.00	0.00	0.00
4,600.00	30.63	283.16	4,128.00	423.62	-1,811.81	-445.73	0.00	0.00	0.00

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 1717-08H	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	30.63	283.16	4,214.05	435.22	-1,861.42	-457.93	0.00	0.00	0.00
4,800.00	30.63	283.16	4,300.10	446.82	-1,911.03	-470.14	0.00	0.00	0.00
4,900.00	30.63	283.16	4,386.14	458.42	-1,960.65	-482.34	0.00	0.00	0.00
5,000.00	30.63	283.16	4,472.19	470.02	-2,010.26	-494.55	0.00	0.00	0.00
5,100.00	30.63	283.16	4,558.24	481.62	-2,059.87	-506.75	0.00	0.00	0.00
5,200.00	30.63	283.16	4,644.29	493.22	-2,109.48	-518.96	0.00	0.00	0.00
5,300.00	30.63	283.16	4,730.33	504.82	-2,159.09	-531.16	0.00	0.00	0.00
5,400.00	30.63	283.16	4,816.38	516.42	-2,208.70	-543.36	0.00	0.00	0.00
5,500.00	30.63	283.16	4,902.43	528.02	-2,258.31	-555.57	0.00	0.00	0.00
5,600.00	30.63	283.16	4,988.48	539.62	-2,307.92	-567.77	0.00	0.00	0.00
5,700.00	30.63	283.16	5,074.52	551.22	-2,357.54	-579.98	0.00	0.00	0.00
5,800.00	30.63	283.16	5,160.57	562.82	-2,407.15	-592.18	0.00	0.00	0.00
5,900.00	30.63	283.16	5,246.62	574.42	-2,456.76	-604.39	0.00	0.00	0.00
6,000.00	30.63	283.16	5,332.67	586.02	-2,506.37	-616.59	0.00	0.00	0.00
6,100.00	30.63	283.16	5,418.71	597.62	-2,555.98	-628.80	0.00	0.00	0.00
6,200.00	30.63	283.16	5,504.76	609.22	-2,605.59	-641.00	0.00	0.00	0.00
6,300.00	30.63	283.16	5,590.81	620.82	-2,655.20	-653.21	0.00	0.00	0.00
6,346.40	30.63	283.16	5,630.73	626.20	-2,678.22	-658.87	0.00	0.00	0.00
KOP @ 6346.40ft :: DLS = 9°/100'									
6,400.00	29.97	273.68	5,677.04	630.17	-2,704.89	-663.17	9.00	-1.24	-17.69
6,500.00	30.59	255.82	5,763.58	625.53	-2,754.59	-659.14	9.00	0.62	-17.86
6,600.00	33.47	239.69	5,848.50	605.34	-2,803.16	-639.54	9.00	2.88	-16.13
6,700.00	38.10	226.45	5,929.72	570.09	-2,849.43	-604.86	9.00	4.63	-13.24
6,800.00	43.92	215.95	6,005.23	520.65	-2,892.24	-555.95	9.00	5.82	-10.49
6,900.00	50.51	207.58	6,073.19	458.25	-2,930.55	-494.02	9.00	6.59	-8.37
7,000.00	57.59	200.71	6,131.90	384.41	-2,963.41	-420.58	9.00	7.08	-6.87
7,100.00	64.99	194.86	6,179.94	300.95	-2,990.01	-337.46	9.00	7.40	-5.85
7,200.00	72.59	189.69	6,216.11	209.94	-3,009.69	-246.69	9.00	7.60	-5.17
7,300.00	80.32	184.93	6,239.52	113.61	-3,021.98	-150.52	9.00	7.72	-4.75
7,400.00	88.11	180.39	6,249.60	14.32	-3,026.57	-51.30	9.00	7.79	-4.54
7,424.28	90.00	179.30	6,250.00	-9.95	-3,026.50	-27.02	9.00	7.80	-4.49
TPZ @ 7424.28ft									
7,500.00	90.00	179.30	6,250.00	-85.67	-3,025.58	48.70	0.00	0.00	0.00
7,600.00	90.00	179.30	6,250.00	-185.66	-3,024.36	148.70	0.00	0.00	0.00
7,700.00	90.00	179.30	6,250.00	-285.65	-3,023.15	248.70	0.00	0.00	0.00
7,800.00	90.00	179.30	6,250.00	-385.64	-3,021.93	348.70	0.00	0.00	0.00
7,900.00	90.00	179.30	6,250.00	-485.64	-3,020.71	448.70	0.00	0.00	0.00
8,000.00	90.00	179.30	6,250.00	-585.63	-3,019.49	548.70	0.00	0.00	0.00
8,100.00	90.00	179.30	6,250.00	-685.62	-3,018.28	648.70	0.00	0.00	0.00
8,200.00	90.00	179.30	6,250.00	-785.61	-3,017.06	748.70	0.00	0.00	0.00
8,300.00	90.00	179.30	6,250.00	-885.61	-3,015.84	848.70	0.00	0.00	0.00
8,400.00	90.00	179.30	6,250.00	-985.60	-3,014.62	948.70	0.00	0.00	0.00
8,500.00	90.00	179.30	6,250.00	-1,085.59	-3,013.41	1,048.70	0.00	0.00	0.00
8,600.00	90.00	179.30	6,250.00	-1,185.58	-3,012.19	1,148.70	0.00	0.00	0.00
8,700.00	90.00	179.30	6,250.00	-1,285.58	-3,010.97	1,248.70	0.00	0.00	0.00
8,800.00	90.00	179.30	6,250.00	-1,385.57	-3,009.75	1,348.70	0.00	0.00	0.00
8,900.00	90.00	179.30	6,250.00	-1,485.56	-3,008.54	1,448.70	0.00	0.00	0.00
9,000.00	90.00	179.30	6,250.00	-1,585.55	-3,007.32	1,548.70	0.00	0.00	0.00
9,100.00	90.00	179.30	6,250.00	-1,685.55	-3,006.10	1,648.70	0.00	0.00	0.00
9,200.00	90.00	179.30	6,250.00	-1,785.54	-3,004.88	1,748.70	0.00	0.00	0.00
9,300.00	90.00	179.30	6,250.00	-1,885.53	-3,003.67	1,848.70	0.00	0.00	0.00
9,400.00	90.00	179.30	6,250.00	-1,985.52	-3,002.45	1,948.70	0.00	0.00	0.00
9,500.00	90.00	179.30	6,250.00	-2,085.52	-3,001.23	2,048.70	0.00	0.00	0.00
9,600.00	90.00	179.30	6,250.00	-2,185.51	-3,000.01	2,148.70	0.00	0.00	0.00

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Site:	9N-59W-17 TIMBRO 1717 PAD	North Reference:	True
Well:	TIMBRO 1717-08H	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	179.30	6,250.00	-2,285.50	-2,998.80	2,248.70	0.00	0.00	0.00	
9,800.00	90.00	179.30	6,250.00	-2,385.49	-2,997.58	2,348.70	0.00	0.00	0.00	
9,900.00	90.00	179.30	6,250.00	-2,485.49	-2,996.36	2,448.70	0.00	0.00	0.00	
10,000.00	90.00	179.30	6,250.00	-2,585.48	-2,995.14	2,548.70	0.00	0.00	0.00	
10,100.00	90.00	179.30	6,250.00	-2,685.47	-2,993.93	2,648.70	0.00	0.00	0.00	
10,200.00	90.00	179.30	6,250.00	-2,785.47	-2,992.71	2,748.70	0.00	0.00	0.00	
10,300.00	90.00	179.30	6,250.00	-2,885.46	-2,991.49	2,848.70	0.00	0.00	0.00	
10,400.00	90.00	179.30	6,250.00	-2,985.45	-2,990.27	2,948.70	0.00	0.00	0.00	
10,500.00	90.00	179.30	6,250.00	-3,085.44	-2,989.06	3,048.70	0.00	0.00	0.00	
10,600.00	90.00	179.30	6,250.00	-3,185.44	-2,987.84	3,148.70	0.00	0.00	0.00	
10,700.00	90.00	179.30	6,250.00	-3,285.43	-2,986.62	3,248.70	0.00	0.00	0.00	
10,800.00	90.00	179.30	6,250.00	-3,385.42	-2,985.40	3,348.70	0.00	0.00	0.00	
10,900.00	90.00	179.30	6,250.00	-3,485.41	-2,984.19	3,448.70	0.00	0.00	0.00	
11,000.00	90.00	179.30	6,250.00	-3,585.41	-2,982.97	3,548.70	0.00	0.00	0.00	
11,100.00	90.00	179.30	6,250.00	-3,685.40	-2,981.75	3,648.70	0.00	0.00	0.00	
11,200.00	90.00	179.30	6,250.00	-3,785.39	-2,980.53	3,748.70	0.00	0.00	0.00	
11,300.00	90.00	179.30	6,250.00	-3,885.38	-2,979.32	3,848.70	0.00	0.00	0.00	
11,400.00	90.00	179.30	6,250.00	-3,985.38	-2,978.10	3,948.70	0.00	0.00	0.00	
11,500.00	90.00	179.30	6,250.00	-4,085.37	-2,976.88	4,048.70	0.00	0.00	0.00	
11,600.00	90.00	179.30	6,250.00	-4,185.36	-2,975.66	4,148.70	0.00	0.00	0.00	
11,700.00	90.00	179.30	6,250.00	-4,285.35	-2,974.45	4,248.70	0.00	0.00	0.00	
11,800.00	90.00	179.30	6,250.00	-4,385.35	-2,973.23	4,348.70	0.00	0.00	0.00	
11,900.00	90.00	179.30	6,250.00	-4,485.34	-2,972.01	4,448.70	0.00	0.00	0.00	
12,000.00	90.00	179.30	6,250.00	-4,585.33	-2,970.79	4,548.70	0.00	0.00	0.00	
12,100.00	90.00	179.30	6,250.00	-4,685.32	-2,969.58	4,648.70	0.00	0.00	0.00	
12,118.56	90.00	179.30	6,250.00	-4,703.88	-2,969.35	4,667.26	0.00	0.00	0.00	
BPZ @ 12118.56ft										
12,200.00	90.00	179.30	6,250.00	-4,785.32	-2,968.36	4,748.70	0.00	0.00	0.00	
12,238.58	90.00	179.30	6,250.00	-4,823.89	-2,967.89	4,787.27	0.00	0.00	0.00	
TD Well @ 12238.58ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,778.30	1,700.00	9 5/8"		9-5/8	13-1/2

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
201.00	201.00	+N/-S (usft)	+E/-W (usft)	Begin Nudge @ 201.00ft	
1,732.50	1,660.59	91.00	-389.21	Hold Tangent @ 1732.50ft	
6,346.40	5,630.73	626.20	-2,678.22	KOP @ 6346.40ft :: DLS = 9°/100'	
7,424.28	6,250.00	-9.95	-3,026.50	TPZ @ 7424.28ft	
12,118.56	6,250.00	-4,703.88	-2,969.35	BPZ @ 12118.56ft	
12,238.58	6,250.00	-4,823.89	-2,967.89	TD Well @ 12238.58ft	