



Veradad Oil & Gas Corporation

SEC 8 T3N R62W

Lost Creek 03-62-08 Pad

Lost Creek 03-62-08-02H

OH

Plan: Plan 4

Standard Planning Report

10 April, 2017



Project: SEC 8 T3N R62W
Site: Lost Creek 03-62-08 Pad
Well: Lost Creek 03-62-08-02H
Wellbore: OH
Design: Plan 4

PROJECT DETAILS: SEC 8 T3N R62W

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 Colorado Northern Zone
 System Datum: Mean Sea Level

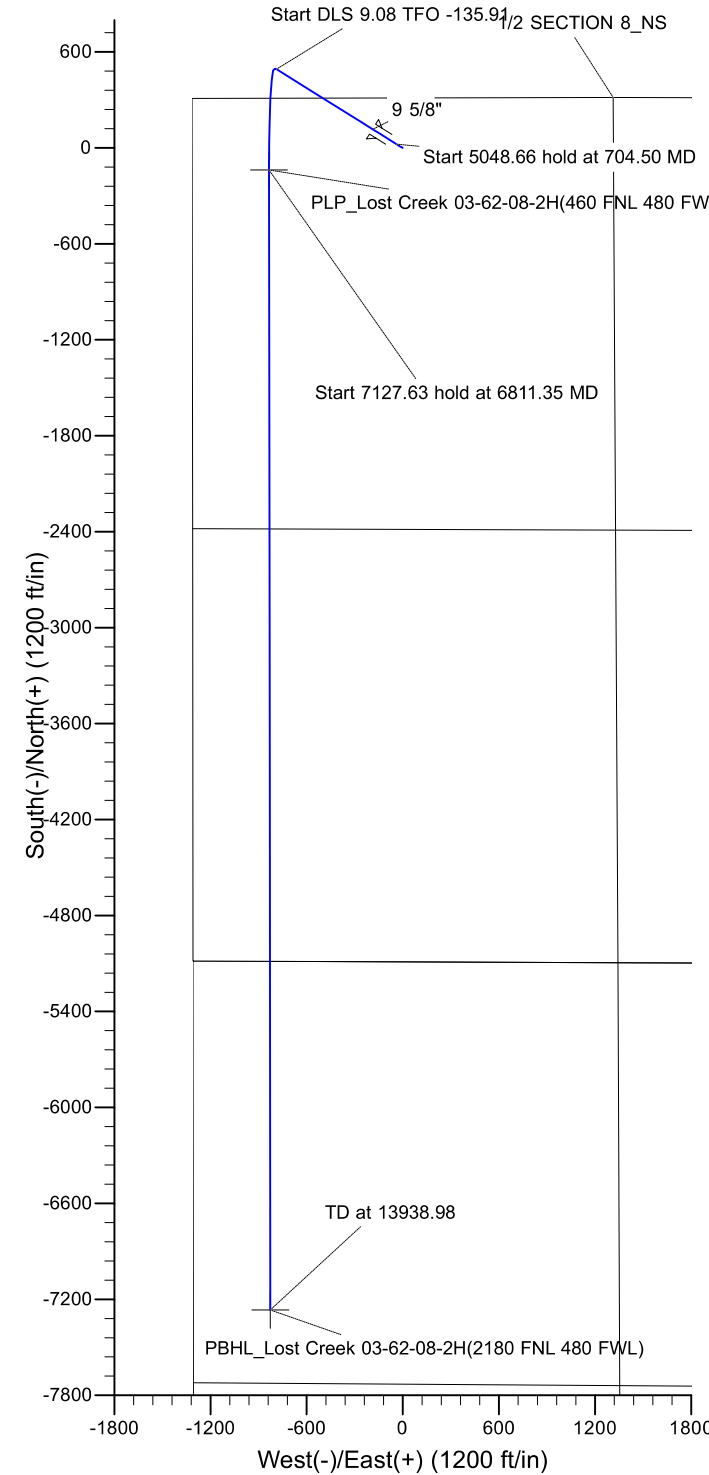
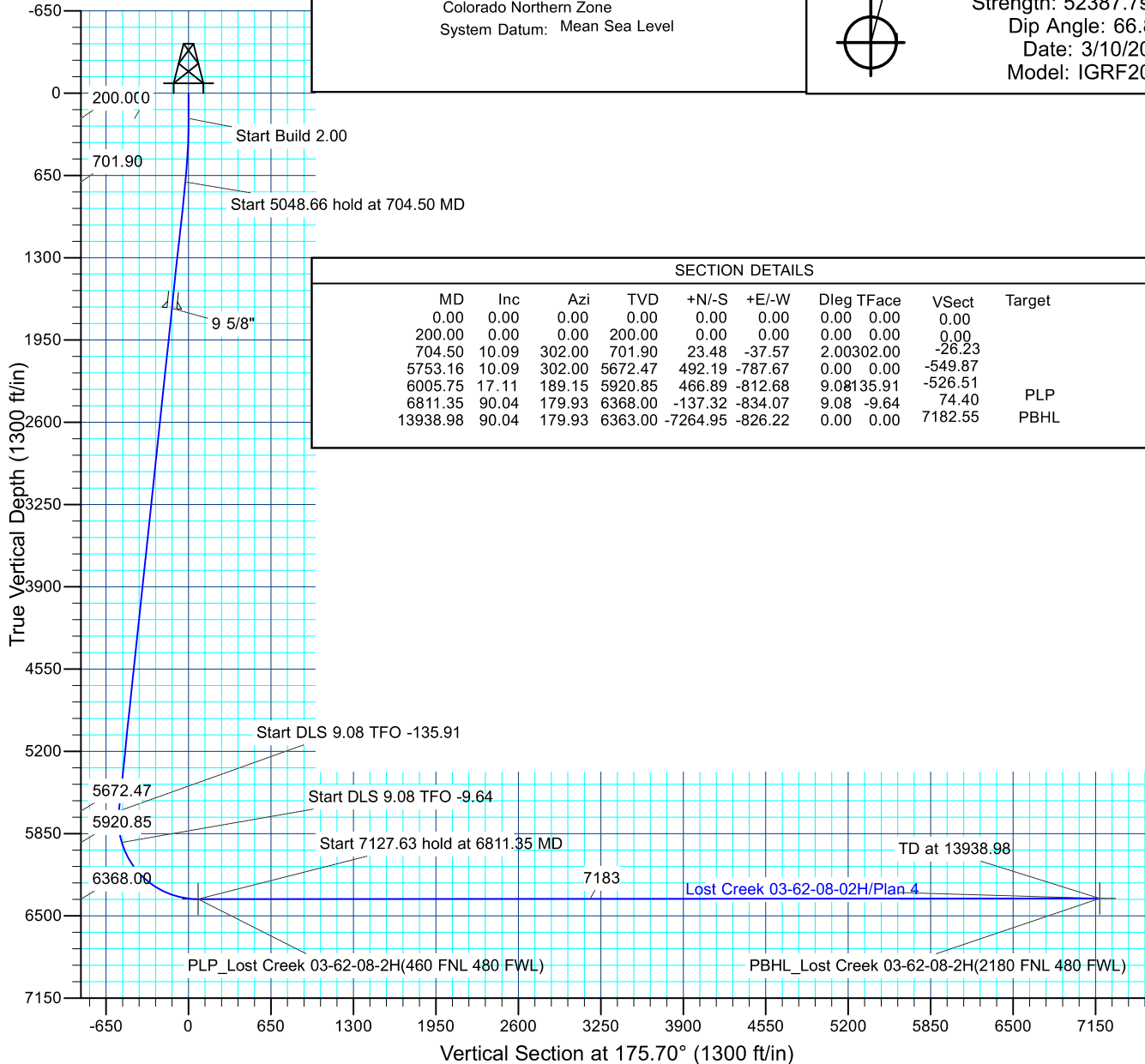


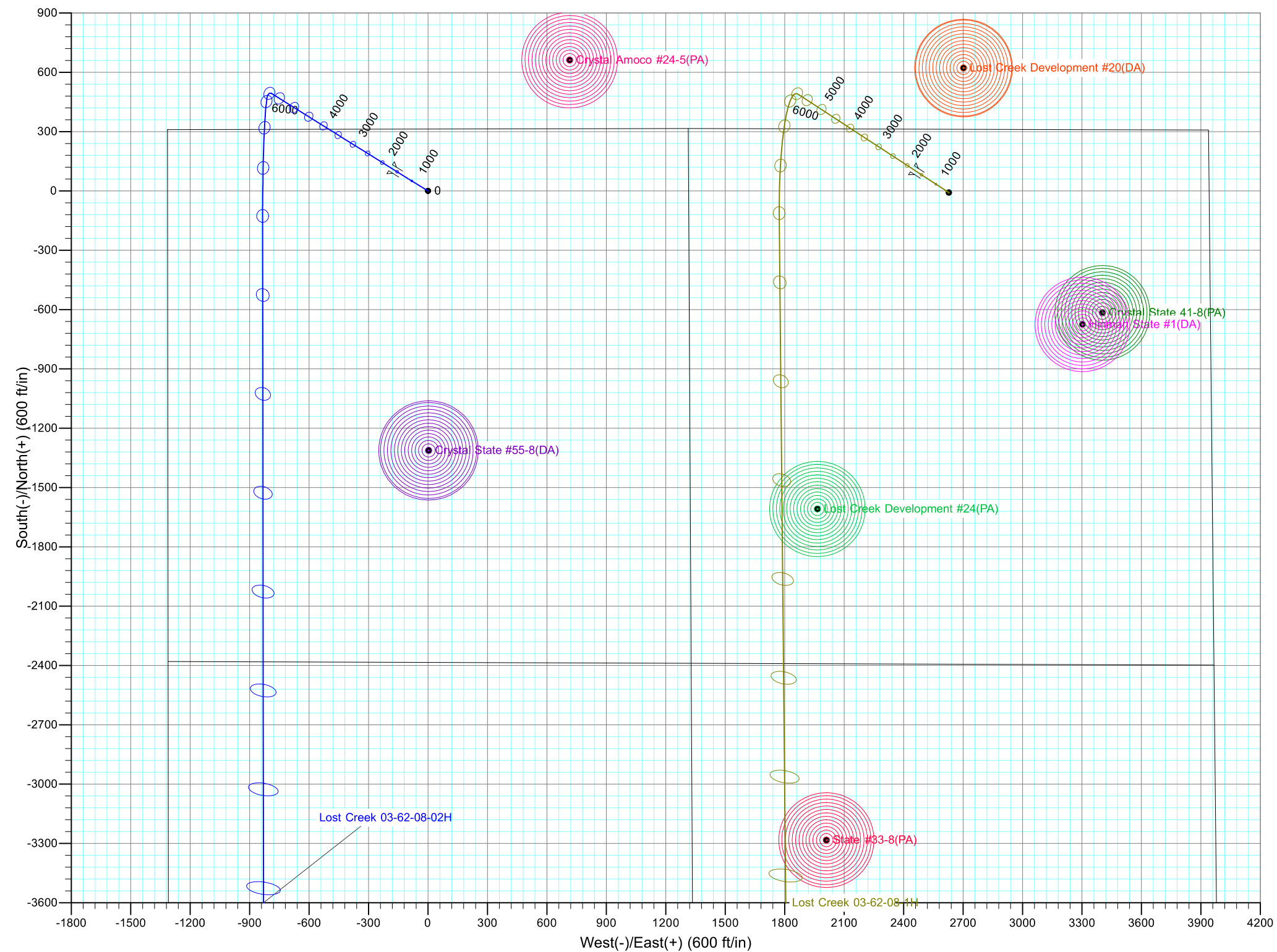
Azimuths to True North
 Magnetic North: 8.01°

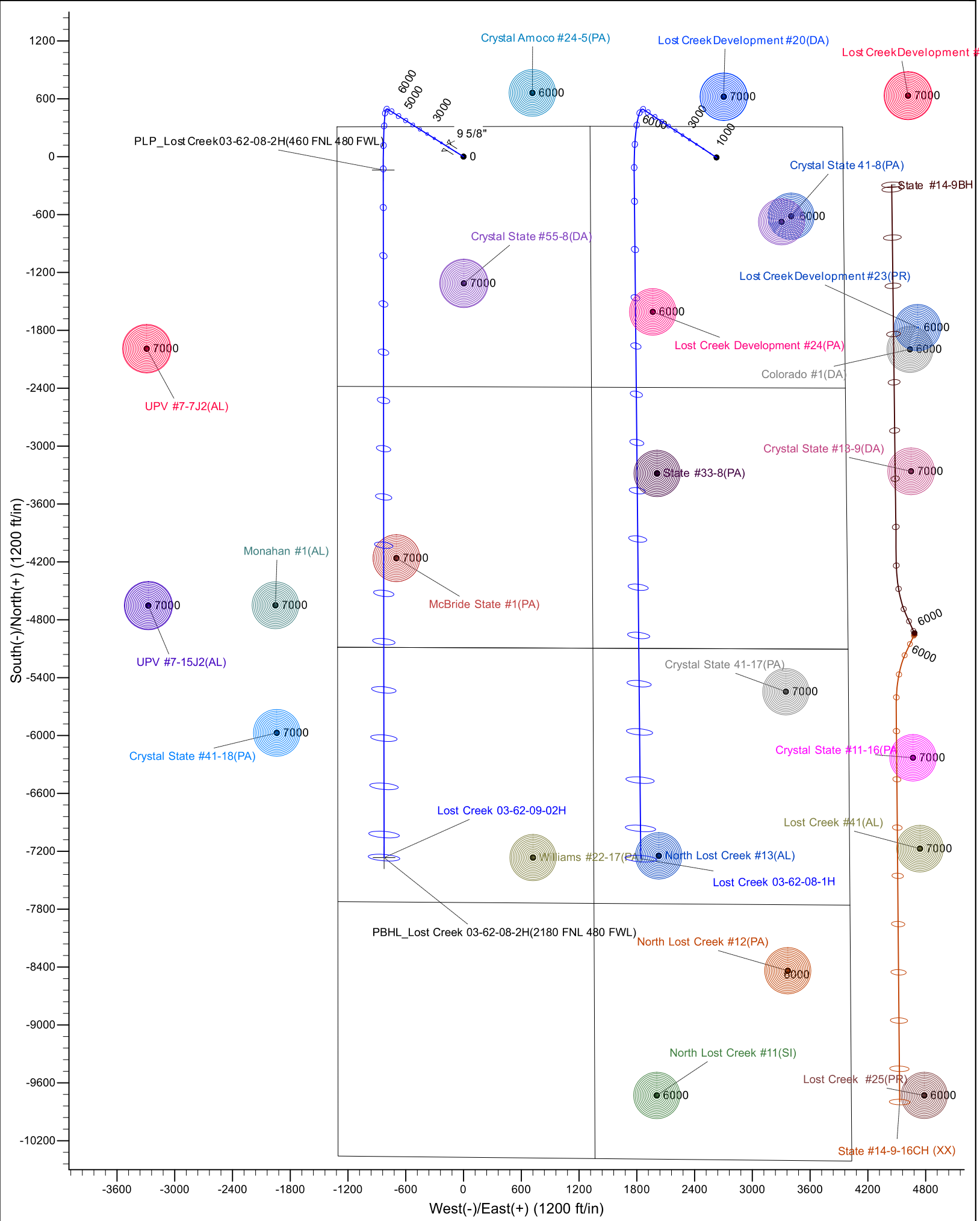
Magnetic Field
 Strength: 52387.7snT
 Dip Angle: 66.80°
 Date: 3/10/2017
 Model: IGRF2015

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
704.50	10.09	302.00	701.90	23.48	-37.57	2.00	302.00	-26.23	
5753.16	10.09	302.00	5672.47	492.19	-787.67	0.00	0.00	-549.87	
6005.75	17.11	189.15	5920.85	466.89	-812.68	9.08	135.91	-526.51	PLP
6811.35	90.04	179.93	6368.00	-137.32	-834.07	9.08	-9.64	74.40	
13938.98	90.04	179.93	6363.00	-7264.95	-826.22	0.00	0.00	7182.55	PBHL







Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Lost Creek 03-62-08-02H
Company:	Verdad Oil & Gas Corporation	TVD Reference:	GL @ 4698.00ft (Ground Level)
Project:	SEC 8 T3N R62W	MD Reference:	GL @ 4698.00ft (Ground Level)
Site:	Lost Creek 03-62-08 Pad	North Reference:	True
Well:	Lost Creek 03-62-08-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4		

Project	SEC 8 T3N R62W, Weld County, Co		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Lost Creek 03-62-08 Pad			
Site Position: From:	Lat/Long	Northing:	1,334,866.02 ft	Latitude:	40.2469100
		Easting:	3,320,296.63 ft	Longitude:	-104.3525480
Position Uncertainty:	4.01 ft	Slot Radius:	13.200 in	Grid Convergence:	0.74 °

Well	Lost Creek 03-62-08-02H, 320 FNL 1314 FWL					
Well Position	+N/-S	0.00 ft	Northing:	1,334,866.02 ft	Latitude:	40.2469100
	+E/-W	0.00 ft	Easting:	3,320,296.63 ft	Longitude:	-104.3525480
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,698.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/10/2017	8.01	66.80	52,388

Design	Plan 4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	175.70

Plan Survey Tool Program	Date	4/10/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,938.97 Plan 4 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
704.50	10.09	302.00	701.90	23.48	-37.57	2.00	2.00	0.00	302.00	
5,753.16	10.09	302.00	5,672.47	492.19	-787.67	0.00	0.00	0.00	0.00	
6,005.75	17.11	189.15	5,920.85	466.89	-812.68	9.08	2.78	-44.67	-135.91	
6,811.35	90.04	179.94	6,368.00	-137.32	-834.07	9.08	9.05	-1.14	-9.64	PLP_Lost Creek 03-6
13,938.98	90.04	179.94	6,363.00	-7,264.95	-826.22	0.00	0.00	0.00	0.00	PBHL_Lost Creek 03-

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Lost Creek 03-62-08-02H
Company:	Verdad Oil & Gas Corporation	TVD Reference:	GL @ 4698.00ft (Ground Level)
Project:	SEC 8 T3N R62W	MD Reference:	GL @ 4698.00ft (Ground Level)
Site:	Lost Creek 03-62-08 Pad	North Reference:	True
Well:	Lost Creek 03-62-08-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
Start Build 2.00									
300.00	2.00	302.00	299.98	0.92	-1.48	-1.03	2.00	2.00	0.00
400.00	4.00	302.00	399.84	3.70	-5.92	-4.13	2.00	2.00	0.00
500.00	6.00	302.00	499.45	8.32	-13.31	-9.29	2.00	2.00	0.00
600.00	8.00	302.00	598.70	14.77	-23.64	-16.51	2.00	2.00	0.00
700.00	10.00	302.00	697.47	23.06	-36.91	-25.77	2.00	2.00	0.00
704.50	10.09	302.00	701.90	23.48	-37.57	-26.23	2.00	2.00	0.00
Start 5048.66 hold at 704.50 MD									
800.00	10.09	302.00	795.92	32.35	-51.76	-36.14	0.00	0.00	0.00
900.00	10.09	302.00	894.37	41.63	-66.62	-46.51	0.00	0.00	0.00
1,000.00	10.09	302.00	992.83	50.91	-81.48	-56.88	0.00	0.00	0.00
1,100.00	10.09	302.00	1,091.28	60.20	-96.34	-67.25	0.00	0.00	0.00
1,200.00	10.09	302.00	1,189.73	69.48	-111.19	-77.62	0.00	0.00	0.00
1,300.00	10.09	302.00	1,288.19	78.77	-126.05	-87.99	0.00	0.00	0.00
1,400.00	10.09	302.00	1,386.64	88.05	-140.91	-98.37	0.00	0.00	0.00
1,500.00	10.09	302.00	1,485.09	97.33	-155.77	-108.74	0.00	0.00	0.00
1,600.00	10.09	302.00	1,583.55	106.62	-170.62	-119.11	0.00	0.00	0.00
1,700.00	10.09	302.00	1,682.00	115.90	-185.48	-129.48	0.00	0.00	0.00
1,718.28	10.09	302.00	1,700.00	117.60	-188.20	-131.38	0.00	0.00	0.00
9 5/8"									
1,800.00	10.09	302.00	1,780.45	125.18	-200.34	-139.85	0.00	0.00	0.00
1,900.00	10.09	302.00	1,878.91	134.47	-215.19	-150.23	0.00	0.00	0.00
2,000.00	10.09	302.00	1,977.36	143.75	-230.05	-160.60	0.00	0.00	0.00
2,100.00	10.09	302.00	2,075.81	153.04	-244.91	-170.97	0.00	0.00	0.00
2,200.00	10.09	302.00	2,174.27	162.32	-259.77	-181.34	0.00	0.00	0.00
2,300.00	10.09	302.00	2,272.72	171.60	-274.62	-191.71	0.00	0.00	0.00
2,400.00	10.09	302.00	2,371.17	180.89	-289.48	-202.08	0.00	0.00	0.00
2,500.00	10.09	302.00	2,469.63	190.17	-304.34	-212.46	0.00	0.00	0.00
2,600.00	10.09	302.00	2,568.08	199.46	-319.20	-222.83	0.00	0.00	0.00
2,700.00	10.09	302.00	2,666.53	208.74	-334.05	-233.20	0.00	0.00	0.00
2,800.00	10.09	302.00	2,764.99	218.02	-348.91	-243.57	0.00	0.00	0.00
2,900.00	10.09	302.00	2,863.44	227.31	-363.77	-253.94	0.00	0.00	0.00
3,000.00	10.09	302.00	2,961.89	236.59	-378.63	-264.31	0.00	0.00	0.00
3,100.00	10.09	302.00	3,060.35	245.88	-393.48	-274.69	0.00	0.00	0.00
3,200.00	10.09	302.00	3,158.80	255.16	-408.34	-285.06	0.00	0.00	0.00
3,300.00	10.09	302.00	3,257.25	264.44	-423.20	-295.43	0.00	0.00	0.00
3,400.00	10.09	302.00	3,355.71	273.73	-438.06	-305.80	0.00	0.00	0.00
3,500.00	10.09	302.00	3,454.16	283.01	-452.91	-316.17	0.00	0.00	0.00
3,600.00	10.09	302.00	3,552.61	292.30	-467.77	-326.55	0.00	0.00	0.00
3,700.00	10.09	302.00	3,651.07	301.58	-482.63	-336.92	0.00	0.00	0.00
3,800.00	10.09	302.00	3,749.52	310.86	-497.48	-347.29	0.00	0.00	0.00
3,900.00	10.09	302.00	3,847.97	320.15	-512.34	-357.66	0.00	0.00	0.00
4,000.00	10.09	302.00	3,946.43	329.43	-527.20	-368.03	0.00	0.00	0.00
4,100.00	10.09	302.00	4,044.88	338.71	-542.06	-378.40	0.00	0.00	0.00
4,200.00	10.09	302.00	4,143.33	348.00	-556.91	-388.78	0.00	0.00	0.00
4,300.00	10.09	302.00	4,241.79	357.28	-571.77	-399.15	0.00	0.00	0.00
4,400.00	10.09	302.00	4,340.24	366.57	-586.63	-409.52	0.00	0.00	0.00
4,500.00	10.09	302.00	4,438.69	375.85	-601.49	-419.89	0.00	0.00	0.00
4,600.00	10.09	302.00	4,537.15	385.13	-616.34	-430.26	0.00	0.00	0.00
4,700.00	10.09	302.00	4,635.60	394.42	-631.20	-440.63	0.00	0.00	0.00

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Project:	SEC 8 T3N R62W	MD Reference:	GL @ 4698.00ft (Ground Level)
Site:	Lost Creek 03-62-08 Pad	North Reference:	True
Well:	Lost Creek 03-62-08-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,800.00	10.09	302.00	4,734.05	403.70	-646.06	-451.01	0.00	0.00	0.00
4,900.00	10.09	302.00	4,832.51	412.99	-660.92	-461.38	0.00	0.00	0.00
5,000.00	10.09	302.00	4,930.96	422.27	-675.77	-471.75	0.00	0.00	0.00
5,100.00	10.09	302.00	5,029.41	431.55	-690.63	-482.12	0.00	0.00	0.00
5,200.00	10.09	302.00	5,127.87	440.84	-705.49	-492.49	0.00	0.00	0.00
5,300.00	10.09	302.00	5,226.32	450.12	-720.35	-502.87	0.00	0.00	0.00
5,400.00	10.09	302.00	5,324.77	459.41	-735.20	-513.24	0.00	0.00	0.00
5,500.00	10.09	302.00	5,423.23	468.69	-750.06	-523.61	0.00	0.00	0.00
5,600.00	10.09	302.00	5,521.68	477.97	-764.92	-533.98	0.00	0.00	0.00
5,700.00	10.09	302.00	5,620.13	487.26	-779.77	-544.35	0.00	0.00	0.00
5,753.16	10.09	302.00	5,672.47	492.19	-787.67	-549.87	0.00	0.00	0.00
Start DLS 9.08 TFO -135.91									
5,800.00	7.63	279.11	5,718.76	494.86	-794.22	-553.02	9.08	-5.26	-48.86
5,900.00	9.24	214.63	5,817.88	489.29	-805.36	-548.30	9.08	1.62	-64.48
6,000.00	16.64	189.91	5,915.34	468.53	-812.41	-528.13	9.08	7.39	-24.72
6,005.75	17.11	189.15	5,920.85	466.89	-812.68	-526.51	9.08	8.24	-13.14
Start DLS 9.08 TFO -9.64									
6,100.00	25.59	185.85	6,008.55	432.88	-816.97	-492.92	9.08	8.99	-3.51
6,200.00	34.63	184.03	6,094.97	382.96	-821.18	-443.45	9.08	9.04	-1.82
6,300.00	43.68	182.90	6,172.44	320.00	-824.93	-380.95	9.08	9.05	-1.14
6,400.00	52.74	182.09	6,239.01	245.59	-828.13	-306.99	9.08	9.06	-0.81
6,500.00	61.80	181.45	6,293.02	161.59	-830.71	-223.42	9.08	9.07	-0.64
6,600.00	70.87	180.92	6,333.11	70.11	-832.58	-132.34	9.08	9.07	-0.53
6,700.00	79.94	180.44	6,358.28	-26.55	-833.72	-36.03	9.08	9.07	-0.48
6,704.21	80.32	180.42	6,359.00	-30.70	-833.75	-31.90	9.08	9.07	-0.46
Niobrara									
6,800.00	89.01	179.99	6,367.89	-125.99	-834.08	63.09	9.08	9.07	-0.45
6,811.35	90.04	179.94	6,368.00	-137.32	-834.07	74.40	9.08	9.07	-0.45
Start 7127.63 hold at 6811.35 MD - PLP_Lost Creek 03-62-08-2H(460 FNL 480 FWL)									
6,900.00	90.04	179.94	6,367.94	-225.97	-833.97	162.81	0.00	0.00	0.00
7,000.00	90.04	179.94	6,367.87	-325.97	-833.86	262.53	0.00	0.00	0.00
7,100.00	90.04	179.94	6,367.80	-425.97	-833.75	362.26	0.00	0.00	0.00
7,200.00	90.04	179.94	6,367.73	-525.97	-833.63	461.99	0.00	0.00	0.00
7,300.00	90.04	179.94	6,367.66	-625.97	-833.52	561.71	0.00	0.00	0.00
7,400.00	90.04	179.94	6,367.59	-725.97	-833.41	661.44	0.00	0.00	0.00
7,500.00	90.04	179.94	6,367.52	-825.97	-833.29	761.17	0.00	0.00	0.00
7,600.00	90.04	179.94	6,367.45	-925.97	-833.18	860.89	0.00	0.00	0.00
7,700.00	90.04	179.94	6,367.38	-1,025.97	-833.07	960.62	0.00	0.00	0.00
7,800.00	90.04	179.94	6,367.31	-1,125.97	-832.95	1,060.35	0.00	0.00	0.00
7,900.00	90.04	179.94	6,367.24	-1,225.97	-832.84	1,160.08	0.00	0.00	0.00
8,000.00	90.04	179.94	6,367.17	-1,325.97	-832.73	1,259.80	0.00	0.00	0.00
8,100.00	90.04	179.94	6,367.10	-1,425.97	-832.61	1,359.53	0.00	0.00	0.00
8,200.00	90.04	179.94	6,367.03	-1,525.97	-832.50	1,459.26	0.00	0.00	0.00
8,300.00	90.04	179.94	6,366.96	-1,625.97	-832.39	1,558.98	0.00	0.00	0.00
8,400.00	90.04	179.94	6,366.89	-1,725.97	-832.27	1,658.71	0.00	0.00	0.00
8,500.00	90.04	179.94	6,366.82	-1,825.97	-832.16	1,758.44	0.00	0.00	0.00
8,600.00	90.04	179.94	6,366.75	-1,925.97	-832.05	1,858.16	0.00	0.00	0.00
8,700.00	90.04	179.94	6,366.68	-2,025.97	-831.93	1,957.89	0.00	0.00	0.00
8,800.00	90.04	179.94	6,366.61	-2,125.97	-831.82	2,057.62	0.00	0.00	0.00
8,900.00	90.04	179.94	6,366.54	-2,225.97	-831.70	2,157.34	0.00	0.00	0.00
9,000.00	90.04	179.94	6,366.47	-2,325.97	-831.59	2,257.07	0.00	0.00	0.00
9,100.00	90.04	179.94	6,366.40	-2,425.97	-831.48	2,356.80	0.00	0.00	0.00
9,200.00	90.04	179.94	6,366.33	-2,525.97	-831.36	2,456.53	0.00	0.00	0.00
9,300.00	90.04	179.94	6,366.26	-2,625.97	-831.25	2,556.25	0.00	0.00	0.00

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Project:	SEC 8 T3N R62W	MD Reference:	GL @ 4698.00ft (Ground Level)
Site:	Lost Creek 03-62-08 Pad	North Reference:	True
Well:	Lost Creek 03-62-08-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	90.04	179.94	6,366.19	-2,725.97	-831.14	2,655.98	0.00	0.00	0.00
9,500.00	90.04	179.94	6,366.12	-2,825.97	-831.02	2,755.71	0.00	0.00	0.00
9,600.00	90.04	179.94	6,366.05	-2,925.97	-830.91	2,855.43	0.00	0.00	0.00
9,700.00	90.04	179.94	6,365.98	-3,025.97	-830.80	2,955.16	0.00	0.00	0.00
9,800.00	90.04	179.94	6,365.91	-3,125.97	-830.68	3,054.89	0.00	0.00	0.00
9,900.00	90.04	179.94	6,365.84	-3,225.97	-830.57	3,154.61	0.00	0.00	0.00
10,000.00	90.04	179.94	6,365.77	-3,325.97	-830.46	3,254.34	0.00	0.00	0.00
10,100.00	90.04	179.94	6,365.70	-3,425.97	-830.34	3,354.07	0.00	0.00	0.00
10,200.00	90.04	179.94	6,365.63	-3,525.97	-830.23	3,453.79	0.00	0.00	0.00
10,300.00	90.04	179.94	6,365.56	-3,625.97	-830.12	3,553.52	0.00	0.00	0.00
10,400.00	90.04	179.94	6,365.49	-3,725.97	-830.00	3,653.25	0.00	0.00	0.00
10,500.00	90.04	179.94	6,365.42	-3,825.97	-829.89	3,752.98	0.00	0.00	0.00
10,600.00	90.04	179.94	6,365.36	-3,925.97	-829.78	3,852.70	0.00	0.00	0.00
10,700.00	90.04	179.94	6,365.29	-4,025.97	-829.66	3,952.43	0.00	0.00	0.00
10,800.00	90.04	179.94	6,365.22	-4,125.97	-829.55	4,052.16	0.00	0.00	0.00
10,900.00	90.04	179.94	6,365.15	-4,225.97	-829.44	4,151.88	0.00	0.00	0.00
11,000.00	90.04	179.94	6,365.08	-4,325.97	-829.32	4,251.61	0.00	0.00	0.00
11,100.00	90.04	179.94	6,365.01	-4,425.97	-829.21	4,351.34	0.00	0.00	0.00
11,200.00	90.04	179.94	6,364.94	-4,525.97	-829.10	4,451.06	0.00	0.00	0.00
11,300.00	90.04	179.94	6,364.87	-4,625.97	-828.98	4,550.79	0.00	0.00	0.00
11,400.00	90.04	179.94	6,364.80	-4,725.97	-828.87	4,650.52	0.00	0.00	0.00
11,500.00	90.04	179.94	6,364.73	-4,825.97	-828.76	4,750.24	0.00	0.00	0.00
11,600.00	90.04	179.94	6,364.66	-4,925.97	-828.64	4,849.97	0.00	0.00	0.00
11,700.00	90.04	179.94	6,364.59	-5,025.97	-828.53	4,949.70	0.00	0.00	0.00
11,800.00	90.04	179.94	6,364.52	-5,125.97	-828.42	5,049.43	0.00	0.00	0.00
11,900.00	90.04	179.94	6,364.45	-5,225.97	-828.30	5,149.15	0.00	0.00	0.00
12,000.00	90.04	179.94	6,364.38	-5,325.97	-828.19	5,248.88	0.00	0.00	0.00
12,100.00	90.04	179.94	6,364.31	-5,425.97	-828.07	5,348.61	0.00	0.00	0.00
12,200.00	90.04	179.94	6,364.24	-5,525.97	-827.96	5,448.33	0.00	0.00	0.00
12,300.00	90.04	179.94	6,364.17	-5,625.97	-827.85	5,548.06	0.00	0.00	0.00
12,400.00	90.04	179.94	6,364.10	-5,725.97	-827.73	5,647.79	0.00	0.00	0.00
12,500.00	90.04	179.94	6,364.03	-5,825.97	-827.62	5,747.51	0.00	0.00	0.00
12,600.00	90.04	179.94	6,363.96	-5,925.97	-827.51	5,847.24	0.00	0.00	0.00
12,700.00	90.04	179.94	6,363.89	-6,025.97	-827.39	5,946.97	0.00	0.00	0.00
12,800.00	90.04	179.94	6,363.82	-6,125.97	-827.28	6,046.69	0.00	0.00	0.00
12,900.00	90.04	179.94	6,363.75	-6,225.97	-827.17	6,146.42	0.00	0.00	0.00
13,000.00	90.04	179.94	6,363.68	-6,325.97	-827.05	6,246.15	0.00	0.00	0.00
13,100.00	90.04	179.94	6,363.61	-6,425.97	-826.94	6,345.88	0.00	0.00	0.00
13,200.00	90.04	179.94	6,363.54	-6,525.97	-826.83	6,445.60	0.00	0.00	0.00
13,300.00	90.04	179.94	6,363.47	-6,625.97	-826.71	6,545.33	0.00	0.00	0.00
13,400.00	90.04	179.94	6,363.40	-6,725.97	-826.60	6,645.06	0.00	0.00	0.00
13,500.00	90.04	179.94	6,363.33	-6,825.97	-826.49	6,744.78	0.00	0.00	0.00
13,600.00	90.04	179.94	6,363.26	-6,925.97	-826.37	6,844.51	0.00	0.00	0.00
13,700.00	90.04	179.94	6,363.19	-7,025.97	-826.26	6,944.24	0.00	0.00	0.00
13,800.00	90.04	179.94	6,363.12	-7,125.97	-826.15	7,043.96	0.00	0.00	0.00
13,900.00	90.04	179.94	6,363.05	-7,225.97	-826.03	7,143.69	0.00	0.00	0.00
13,938.98	90.04	179.94	6,363.00	-7,264.95	-826.22	7,182.55	0.00	0.00	0.00
TD at 13938.98 - PBHL_Lost Creek 03-62-08-2H(2180 FNL 480 FWL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Lost Creek 03-62-08-02H
Company:	Verdad Oil & Gas Corporation	TVD Reference:	GL @ 4698.00ft (Ground Level)
Project:	SEC 8 T3N R62W	MD Reference:	GL @ 4698.00ft (Ground Level)
Site:	Lost Creek 03-62-08 Pad	North Reference:	True
Well:	Lost Creek 03-62-08-02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_Lost Creek 03-62	0.00	0.00	6,363.00	-7,264.95	-826.22	1,327,590.99	3,319,564.48	40.2269670	-104.3555070
- plan hits target center									
- Point									
PLP_Lost Creek 03-62-(0.00	0.00	6,368.00	-137.32	-834.07	1,334,717.92	3,319,464.40	40.2465330	-104.3555360
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,718.28	1,700.00	9 5/8"	9.625	13.500	
13,962.07		5 1/2"	5.500	8.500	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,704.21	6,359.00	Niobrara		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.00	200.00	0.00	0.00	Start Build 2.00	
704.50	701.90	23.48	-37.57	Start 5048.66 hold at 704.50 MD	
5,753.16	5,672.47	492.19	-787.67	Start DLS 9.08 TFO -135.91	
6,005.75	5,920.85	466.89	-812.68	Start DLS 9.08 TFO -9.64	
6,811.35	6,368.00	-137.32	-834.07	Start 7127.63 hold at 6811.35 MD	
13,938.98	6,363.00	-7,264.95	-826.22	TD at 13938.98	