



Project: SEC 33 T2N R64W
Site: Jackson 02N-64W-33 Pad
Well: Jackson 33-5H
Wellbore: OH
Design: Plan 2
Lat: 40.1014780
Long: -104.5616450

LP_Jackson 33-5H(0 FNL 1560 FWL)



500

0

-500

-1000

-1500

-2000

-2500

-3000

-3500

-4000

-4500

-5000

-5500

South(-)/North(+) (1000 ft/in)

SEC 33

PBHL_Jackson 33-5H(0 FSL 1560 FWL)

5 1/2"

West(-)/East(+) (1000 ft/in)

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	
759.77	11.20	29.05	756.21	47.66	26.47	2.00	29.05	-45.05	
5538.27	11.20	29.05	5443.79	858.73	476.93	0.00	0.00	-811.82	
6098.04	0.00	0.00	6000.00	906.39	503.40	2.00	180.00	-856.88	
6511.42	0.00	0.00	6413.38	906.39	503.40	0.00	0.00	-856.88	
7513.82	90.22	180.42	7050.00	267.39	498.77	9.00	180.42	-220.94	
12823.71	90.22	180.42	7030.00	-5042.33	460.26	0.00	0.00	5063.29	PBHL

DESIGN TARGET DETAILS

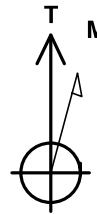
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7030.00	-5042.33	460.26	1276164.47	3263001.04	40.0876360	-104.5600000	Point
- plan hits target center								
LP	7050.00	267.40	498.77	1281474.30	3262983.36	40.1022120	-104.5598620	Point
- plan hits target center								

PROJECT DETAILS: SEC 33 T2N R64W

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

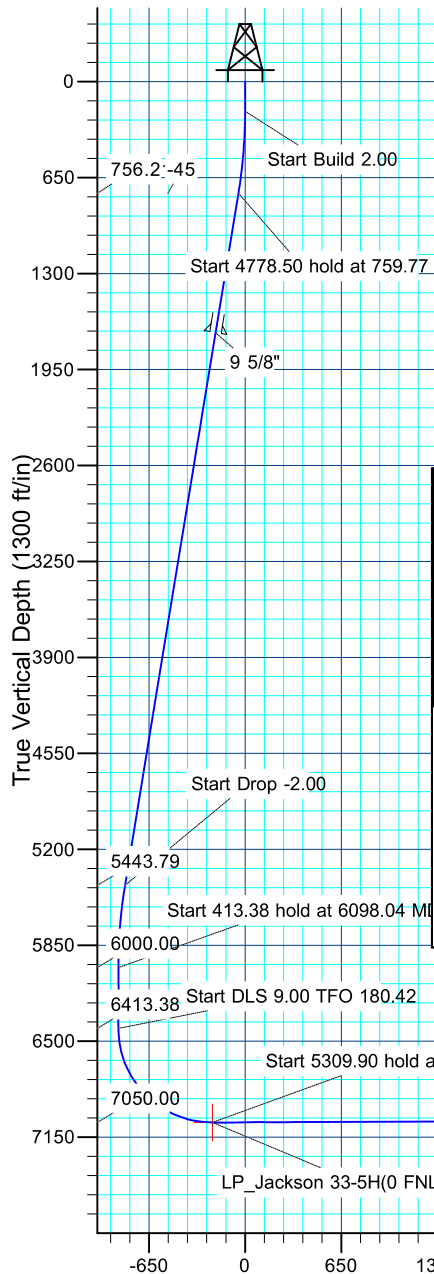
CASING DETAILS

TVD	MD	Name	Size
1700.00	1721.86	9 5/8"	9.625
7030.00	12823.72	5 1/2"	5.500



Azimuths to True North
Magnetic North: 8.08°

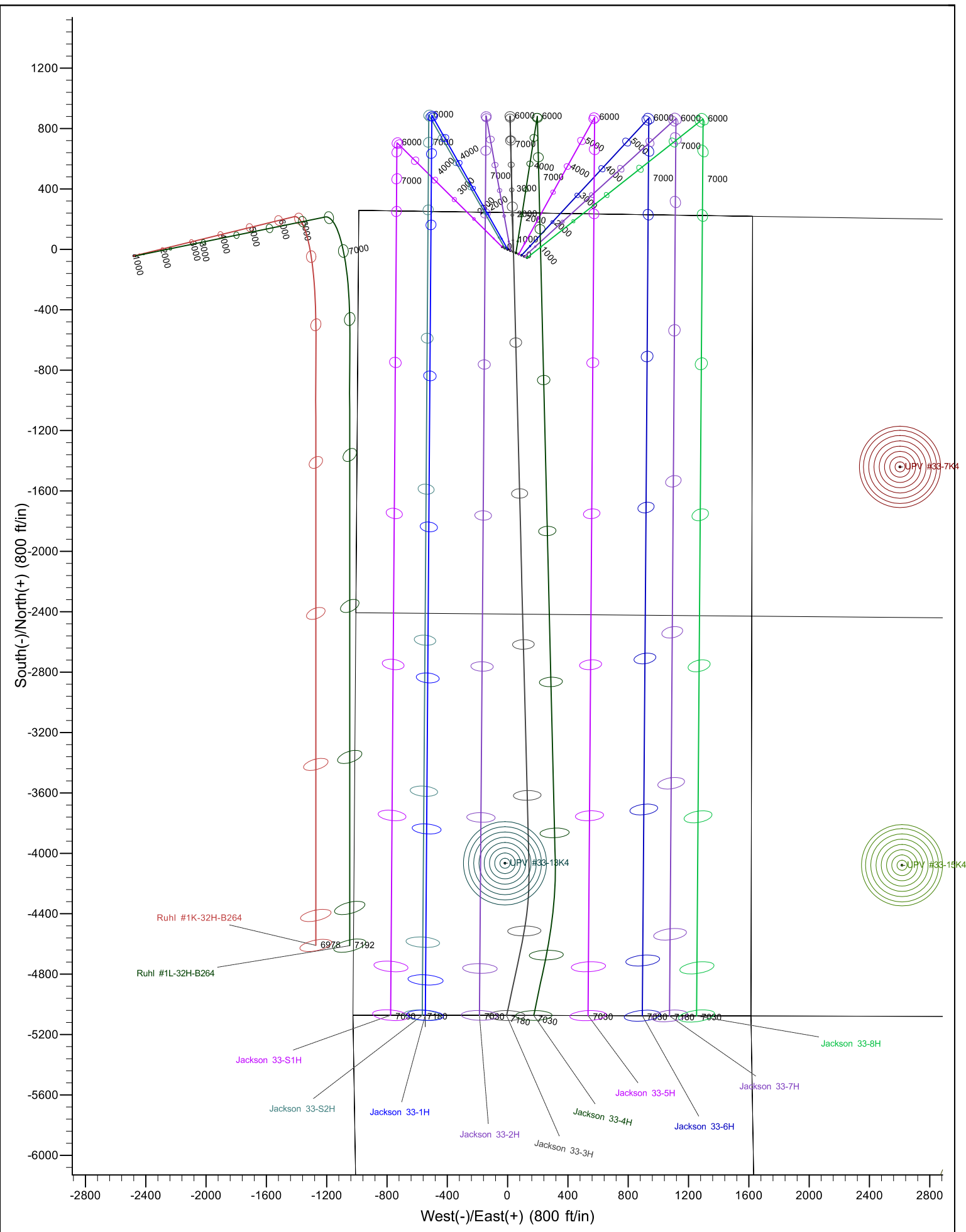
Magnetic Field
Strength: 52263.9snT
Dip Angle: 66.65°
Date: 5/25/2017
Model: IGRF2015



Jackson 33-5H/Plan 2

5 1/2"

Vertical Section at 174.78° (1300 ft/in)





Verdad Resources LLC

SEC 33 T2N R64W

Jackson 02N-64W-33 Pad

Jackson 33-5H

OH

Plan: Plan 2

Standard Planning Report

28 December, 2017





Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jackson 33-5H
Company:	Verdad Resources LLC	TVD Reference:	WELL @ 5017.00ft (Original Well Elev)
Project:	SEC 33 T2N R64W	MD Reference:	WELL @ 5017.00ft (Original Well Elev)
Site:	Jackson 02N-64W-33 Pad	North Reference:	True
Well:	Jackson 33-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

Project	SEC 33 T2N R64W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Jackson 02N-64W-33 Pad			
Site Position:		Northing:	1,281,248.57 usft	Latitude: 40.1016100
From:	Lat/Long	Easting:	3,262,377.29 usft	Longitude: -104.5620370
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence: 0.61 °

Well	Jackson 33-5H, 259 FNL 1026 FWL			
Well Position	+N/-S	-48.10 ft	Northing:	1,281,201.63 usft
	+E/-W	109.66 ft	Easting:	3,262,487.45 usft
Position Uncertainty		3.28 ft	Wellhead Elevation:	Ground Level: 5,017.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/25/2017	8.08	66.65	52,264

Design	Plan 2			
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	174.78

Plan Survey Tool Program	Date	12/22/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,823.37	Plan 2 (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	
759.77	11.20	29.05	756.21	47.66	26.47	2.00	2.00	0.00	29.05	
5,538.27	11.20	29.05	5,443.79	858.73	476.93	0.00	0.00	0.00	0.00	
6,098.04	0.00	0.00	6,000.00	906.39	503.40	2.00	-2.00	0.00	180.00	
6,511.42	0.00	0.00	6,413.38	906.39	503.40	0.00	0.00	0.00	0.00	
7,513.82	90.22	180.42	7,050.00	267.39	498.77	9.00	9.00	-17.92	180.42	
12,823.71	90.22	180.42	7,030.00	-5,042.33	460.26	0.00	0.00	0.00	0.00	PBHL_Jackson 33-5H



Database: EDM 5000.14 Single User Db
Company: Verdad Resources LLC
Project: SEC 33 T2N R64W
Site: Jackson 02N-64W-33 Pad
Well: Jackson 33-5H
Wellbore: OH
Design: Plan 2

Local Co-ordinate Reference: Well Jackson 33-5H
TVD Reference: WELL @ 5017.00ft (Original Well Elev)
MD Reference: WELL @ 5017.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
300.00	2.00	29.05	299.98	1.53	0.85	-1.44	2.00	2.00	0.00
400.00	4.00	29.05	399.84	6.10	3.39	-5.77	2.00	2.00	0.00
500.00	6.00	29.05	499.45	13.72	7.62	-12.97	2.00	2.00	0.00
600.00	8.00	29.05	598.70	24.37	13.54	-23.04	2.00	2.00	0.00
700.00	10.00	29.05	697.47	38.05	21.13	-35.97	2.00	2.00	0.00
759.77	11.20	29.05	756.21	47.66	26.47	-45.05	2.00	2.00	0.00
800.00	11.20	29.05	795.68	54.49	30.26	-51.51	0.00	0.00	0.00
900.00	11.20	29.05	893.78	71.46	39.69	-67.56	0.00	0.00	0.00
1,000.00	11.20	29.05	991.88	88.43	49.12	-83.60	0.00	0.00	0.00
1,100.00	11.20	29.05	1,089.97	105.41	58.54	-99.65	0.00	0.00	0.00
1,200.00	11.20	29.05	1,188.07	122.38	67.97	-115.70	0.00	0.00	0.00
1,300.00	11.20	29.05	1,286.17	139.35	77.40	-131.74	0.00	0.00	0.00
1,400.00	11.20	29.05	1,384.26	156.33	86.82	-147.79	0.00	0.00	0.00
1,500.00	11.20	29.05	1,482.36	173.30	96.25	-163.83	0.00	0.00	0.00
1,600.00	11.20	29.05	1,580.46	190.27	105.68	-179.88	0.00	0.00	0.00
1,700.00	11.20	29.05	1,678.56	207.25	115.10	-195.93	0.00	0.00	0.00
1,721.86	11.20	29.05	1,700.00	210.96	117.16	-199.43	0.00	0.00	0.00
9 5/8"									
1,800.00	11.20	29.05	1,776.65	224.22	124.53	-211.97	0.00	0.00	0.00
1,900.00	11.20	29.05	1,874.75	241.19	133.96	-228.02	0.00	0.00	0.00
2,000.00	11.20	29.05	1,972.85	258.17	143.38	-244.07	0.00	0.00	0.00
2,100.00	11.20	29.05	2,070.95	275.14	152.81	-260.11	0.00	0.00	0.00
2,200.00	11.20	29.05	2,169.04	292.11	162.24	-276.16	0.00	0.00	0.00
2,300.00	11.20	29.05	2,267.14	309.09	171.66	-292.20	0.00	0.00	0.00
2,400.00	11.20	29.05	2,365.24	326.06	181.09	-308.25	0.00	0.00	0.00
2,500.01	11.20	29.05	2,463.33	343.03	190.52	-324.30	0.00	0.00	0.00
2,600.01	11.20	29.05	2,561.43	360.01	199.95	-340.34	0.00	0.00	0.00
2,700.01	11.20	29.05	2,659.53	376.98	209.37	-356.39	0.00	0.00	0.00
2,800.01	11.20	29.05	2,757.63	393.96	218.80	-372.44	0.00	0.00	0.00
2,900.01	11.20	29.05	2,855.72	410.93	228.23	-388.48	0.00	0.00	0.00
3,000.01	11.20	29.05	2,953.82	427.90	237.65	-404.53	0.00	0.00	0.00
3,100.01	11.20	29.05	3,051.92	444.88	247.08	-420.57	0.00	0.00	0.00
3,200.01	11.20	29.05	3,150.02	461.85	256.51	-436.62	0.00	0.00	0.00
3,300.01	11.20	29.05	3,248.11	478.82	265.93	-452.67	0.00	0.00	0.00
3,400.01	11.20	29.05	3,346.21	495.80	275.36	-468.71	0.00	0.00	0.00
3,500.01	11.20	29.05	3,444.31	512.77	284.79	-484.76	0.00	0.00	0.00
3,600.01	11.20	29.05	3,542.40	529.74	294.21	-500.81	0.00	0.00	0.00
3,700.01	11.20	29.05	3,640.50	546.72	303.64	-516.85	0.00	0.00	0.00
3,800.01	11.20	29.05	3,738.60	563.69	313.07	-532.90	0.00	0.00	0.00
3,900.01	11.20	29.05	3,836.70	580.66	322.49	-548.94	0.00	0.00	0.00
4,000.01	11.20	29.05	3,934.79	597.64	331.92	-564.99	0.00	0.00	0.00
4,100.01	11.20	29.05	4,032.89	614.61	341.35	-581.04	0.00	0.00	0.00
4,200.01	11.20	29.05	4,130.99	631.58	350.78	-597.08	0.00	0.00	0.00
4,300.01	11.20	29.05	4,229.09	648.56	360.20	-613.13	0.00	0.00	0.00
4,400.01	11.20	29.05	4,327.18	665.53	369.63	-629.18	0.00	0.00	0.00
4,500.01	11.20	29.05	4,425.28	682.50	379.06	-645.22	0.00	0.00	0.00
4,600.01	11.20	29.05	4,523.38	699.48	388.48	-661.27	0.00	0.00	0.00
4,700.01	11.20	29.05	4,621.47	716.45	397.91	-677.31	0.00	0.00	0.00
4,800.01	11.20	29.05	4,719.57	733.42	407.34	-693.36	0.00	0.00	0.00
4,900.01	11.20	29.05	4,817.67	750.40	416.76	-709.41	0.00	0.00	0.00
5,000.01	11.20	29.05	4,915.77	767.37	426.19	-725.45	0.00	0.00	0.00



Database: EDM 5000.14 Single User Db
Company: Verdad Resources LLC
Project: SEC 33 T2N R64W
Site: Jackson 02N-64W-33 Pad
Well: Jackson 33-5H
Wellbore: OH
Design: Plan 2

Local Co-ordinate Reference: Well Jackson 33-5H
TVD Reference: WELL @ 5017.00ft (Original Well Elev)
MD Reference: WELL @ 5017.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
5,100.01	11.20	29.05	5,013.86	784.34	435.62	-741.50	0.00	0.00	0.00
5,200.01	11.20	29.05	5,111.96	801.32	445.04	-757.55	0.00	0.00	0.00
5,300.01	11.20	29.05	5,210.06	818.29	454.47	-773.59	0.00	0.00	0.00
5,400.01	11.20	29.05	5,308.16	835.26	463.90	-789.64	0.00	0.00	0.00
5,500.01	11.20	29.05	5,406.25	852.24	473.32	-805.68	0.00	0.00	0.00
5,538.27	11.20	29.05	5,443.79	858.73	476.93	-811.82	0.00	0.00	0.00
5,600.01	9.96	29.05	5,504.47	868.64	482.43	-821.19	2.00	-2.00	0.00
5,700.01	7.96	29.05	5,603.25	882.26	490.00	-834.06	2.00	-2.00	0.00
5,800.01	5.96	29.05	5,702.51	892.85	495.88	-844.08	2.00	-2.00	0.00
5,900.01	3.96	29.05	5,802.13	900.41	500.08	-851.22	2.00	-2.00	0.00
6,000.01	1.96	29.05	5,901.99	904.92	502.59	-855.49	2.00	-2.00	0.00
6,098.04	0.00	0.00	6,000.00	906.39	503.40	-856.88	2.00	-2.00	0.00
6,100.01	0.00	0.00	6,001.97	906.39	503.40	-856.88	0.00	0.00	0.00
6,200.01	0.00	0.00	6,101.97	906.39	503.40	-856.88	0.00	0.00	0.00
6,300.01	0.00	0.00	6,201.97	906.39	503.40	-856.88	0.00	0.00	0.00
6,400.01	0.00	0.00	6,301.97	906.39	503.40	-856.88	0.00	0.00	0.00
6,500.01	0.00	0.00	6,401.97	906.39	503.40	-856.88	0.00	0.00	0.00
6,511.42	0.00	0.00	6,413.38	906.39	503.40	-856.88	0.00	0.00	0.00
6,600.01	7.97	180.42	6,501.69	900.24	503.36	-850.75	9.00	9.00	0.00
6,700.01	16.97	180.42	6,599.23	878.66	503.20	-829.28	9.00	9.00	0.00
6,800.01	25.97	180.42	6,692.19	842.09	502.93	-792.89	9.00	9.00	0.00
6,900.01	34.97	180.42	6,778.29	791.43	502.57	-742.47	9.00	9.00	0.00
7,000.01	43.97	180.42	6,855.40	727.93	502.11	-679.27	9.00	9.00	0.00
7,100.01	52.97	180.42	6,921.63	653.14	501.56	-604.84	9.00	9.00	0.00
7,200.01	61.97	180.42	6,975.34	568.92	500.95	-521.02	9.00	9.00	0.00
7,300.01	70.97	180.42	7,015.22	477.32	500.29	-429.87	9.00	9.00	0.00
7,400.01	79.97	180.42	7,040.28	380.62	499.59	-333.63	9.00	9.00	0.00
7,500.02	88.97	180.42	7,049.90	281.19	498.87	-234.68	9.00	9.00	0.00
7,513.81	90.21	180.42	7,050.00	267.40	498.77	-220.95	9.01	9.01	0.00
LP_Jackson 33-5H(0 FNL 1560 FWL)									
7,513.82	90.22	180.42	7,050.00	267.39	498.77	-220.94	9.01	9.01	0.00
7,600.02	90.22	180.42	7,049.67	181.20	498.14	-135.16	0.00	0.00	0.00
7,700.02	90.22	180.42	7,049.29	81.20	497.42	-35.65	0.00	0.00	0.00
7,800.02	90.22	180.42	7,048.92	-18.80	496.69	63.87	0.00	0.00	0.00
7,900.02	90.22	180.42	7,048.54	-118.79	495.97	163.39	0.00	0.00	0.00
8,000.02	90.22	180.42	7,048.16	-218.79	495.24	262.90	0.00	0.00	0.00
8,100.02	90.22	180.42	7,047.79	-318.79	494.52	362.42	0.00	0.00	0.00
8,200.02	90.22	180.42	7,047.41	-418.79	493.79	461.94	0.00	0.00	0.00
8,300.02	90.22	180.42	7,047.03	-518.78	493.07	561.45	0.00	0.00	0.00
8,400.02	90.22	180.42	7,046.66	-618.78	492.34	660.97	0.00	0.00	0.00
8,500.02	90.22	180.42	7,046.28	-718.78	491.61	760.49	0.00	0.00	0.00
8,600.02	90.22	180.42	7,045.91	-818.77	490.89	860.01	0.00	0.00	0.00
8,700.02	90.22	180.42	7,045.53	-918.77	490.16	959.52	0.00	0.00	0.00
8,800.02	90.22	180.42	7,045.15	-1,018.77	489.44	1,059.04	0.00	0.00	0.00
8,900.02	90.22	180.42	7,044.78	-1,118.76	488.71	1,158.56	0.00	0.00	0.00
9,000.02	90.22	180.42	7,044.40	-1,218.76	487.99	1,258.07	0.00	0.00	0.00
9,100.02	90.22	180.42	7,044.02	-1,318.76	487.26	1,357.59	0.00	0.00	0.00
9,200.02	90.22	180.42	7,043.65	-1,418.75	486.54	1,457.11	0.00	0.00	0.00
9,300.02	90.22	180.42	7,043.27	-1,518.75	485.81	1,556.62	0.00	0.00	0.00
9,400.02	90.22	180.42	7,042.89	-1,618.75	485.09	1,656.14	0.00	0.00	0.00
9,500.02	90.22	180.42	7,042.52	-1,718.74	484.36	1,755.66	0.00	0.00	0.00
9,600.02	90.22	180.42	7,042.14	-1,818.74	483.64	1,855.17	0.00	0.00	0.00
9,700.02	90.22	180.42	7,041.76	-1,918.74	482.91	1,954.69	0.00	0.00	0.00



Database: EDM 5000.14 Single User Db
Company: Verdad Resources LLC
Project: SEC 33 T2N R64W
Site: Jackson 02N-64W-33 Pad
Well: Jackson 33-5H
Wellbore: OH
Design: Plan 2

Local Co-ordinate Reference: Well Jackson 33-5H
TVD Reference: WELL @ 5017.00ft (Original Well Elev)
MD Reference: WELL @ 5017.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
9,800.02	90.22	180.42	7,041.39	-2,018.73	482.19	2,054.21	0.00	0.00	0.00
9,900.02	90.22	180.42	7,041.01	-2,118.73	481.46	2,153.73	0.00	0.00	0.00
10,000.02	90.22	180.42	7,040.63	-2,218.73	480.74	2,253.24	0.00	0.00	0.00
10,100.02	90.22	180.42	7,040.26	-2,318.73	480.01	2,352.76	0.00	0.00	0.00
10,200.02	90.22	180.42	7,039.88	-2,418.72	479.29	2,452.28	0.00	0.00	0.00
10,300.02	90.22	180.42	7,039.50	-2,518.72	478.56	2,551.79	0.00	0.00	0.00
10,400.02	90.22	180.42	7,039.13	-2,618.72	477.84	2,651.31	0.00	0.00	0.00
10,500.02	90.22	180.42	7,038.75	-2,718.71	477.11	2,750.83	0.00	0.00	0.00
10,600.02	90.22	180.42	7,038.37	-2,818.71	476.39	2,850.34	0.00	0.00	0.00
10,700.02	90.22	180.42	7,038.00	-2,918.71	475.66	2,949.86	0.00	0.00	0.00
10,800.02	90.22	180.42	7,037.62	-3,018.70	474.94	3,049.38	0.00	0.00	0.00
10,900.02	90.22	180.42	7,037.24	-3,118.70	474.21	3,148.90	0.00	0.00	0.00
11,000.02	90.22	180.42	7,036.87	-3,218.70	473.49	3,248.41	0.00	0.00	0.00
11,100.02	90.22	180.42	7,036.49	-3,318.69	472.76	3,347.93	0.00	0.00	0.00
11,200.02	90.22	180.42	7,036.11	-3,418.69	472.04	3,447.45	0.00	0.00	0.00
11,300.02	90.22	180.42	7,035.74	-3,518.69	471.31	3,546.96	0.00	0.00	0.00
11,400.02	90.22	180.42	7,035.36	-3,618.68	470.59	3,646.48	0.00	0.00	0.00
11,500.02	90.22	180.42	7,034.98	-3,718.68	469.86	3,746.00	0.00	0.00	0.00
11,600.02	90.22	180.42	7,034.61	-3,818.68	469.13	3,845.51	0.00	0.00	0.00
11,700.02	90.22	180.42	7,034.23	-3,918.68	468.41	3,945.03	0.00	0.00	0.00
11,800.02	90.22	180.42	7,033.86	-4,018.67	467.68	4,044.55	0.00	0.00	0.00
11,900.02	90.22	180.42	7,033.48	-4,118.67	466.96	4,144.06	0.00	0.00	0.00
12,000.02	90.22	180.42	7,033.10	-4,218.67	466.23	4,243.58	0.00	0.00	0.00
12,100.02	90.22	180.42	7,032.73	-4,318.66	465.51	4,343.10	0.00	0.00	0.00
12,200.02	90.22	180.42	7,032.35	-4,418.66	464.78	4,442.62	0.00	0.00	0.00
12,300.02	90.22	180.42	7,031.97	-4,518.66	464.06	4,542.13	0.00	0.00	0.00
12,400.03	90.22	180.42	7,031.60	-4,618.65	463.33	4,641.65	0.00	0.00	0.00
12,500.03	90.22	180.42	7,031.22	-4,718.65	462.61	4,741.17	0.00	0.00	0.00
12,600.03	90.22	180.42	7,030.84	-4,818.65	461.88	4,840.68	0.00	0.00	0.00
12,700.03	90.22	180.42	7,030.47	-4,918.64	461.16	4,940.20	0.00	0.00	0.00
12,800.03	90.22	180.42	7,030.09	-5,018.64	460.43	5,039.72	0.00	0.00	0.00
12,823.71	90.22	180.42	7,030.00	-5,042.33	460.26	5,063.29	0.00	0.00	0.00
PBHL_Jackson 33-5H(0 FSL 1560 FWL)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_Jackson 33-5H(0 - plan hits target center - Point	0.00	0.00	7,030.00	-5,042.33	460.26	1,276,164.47	3,263,001.05	40.0876360	-104.5600000
LP_Jackson 33-5H(0 FN - plan hits target center - Point	0.00	0.00	7,050.00	267.40	498.77	1,281,474.29	3,262,983.36	40.1022120	-104.5598620



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Jackson 33-5H
Company:	Verdad Resources LLC	TVD Reference:	WELL @ 5017.00ft (Original Well Elev)
Project:	SEC 33 T2N R64W	MD Reference:	WELL @ 5017.00ft (Original Well Elev)
Site:	Jackson 02N-64W-33 Pad	North Reference:	True
Well:	Jackson 33-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)
1,721.86	1,700.00	9 5/8"		9.625	13.500
12,823.72	7,030.00	5 1/2"		5.500	8.500

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	
759.77	756.21	47.66	26.47	Start 4778.50 hold at 759.77 MD	
5,538.27	5,443.79	858.73	476.93	Start Drop -2.00	
6,098.04	6,000.00	906.39	503.40	Start 413.38 hold at 6098.04 MD	
6,511.42	6,413.38	906.39	503.40	Start DLS 9.00 TFO 180.42	
7,513.82	7,050.00	267.39	498.77	Start 5309.90 hold at 7513.82 MD	
12,823.71	7,030.00	-5,042.33	460.26	TD at 12823.72	