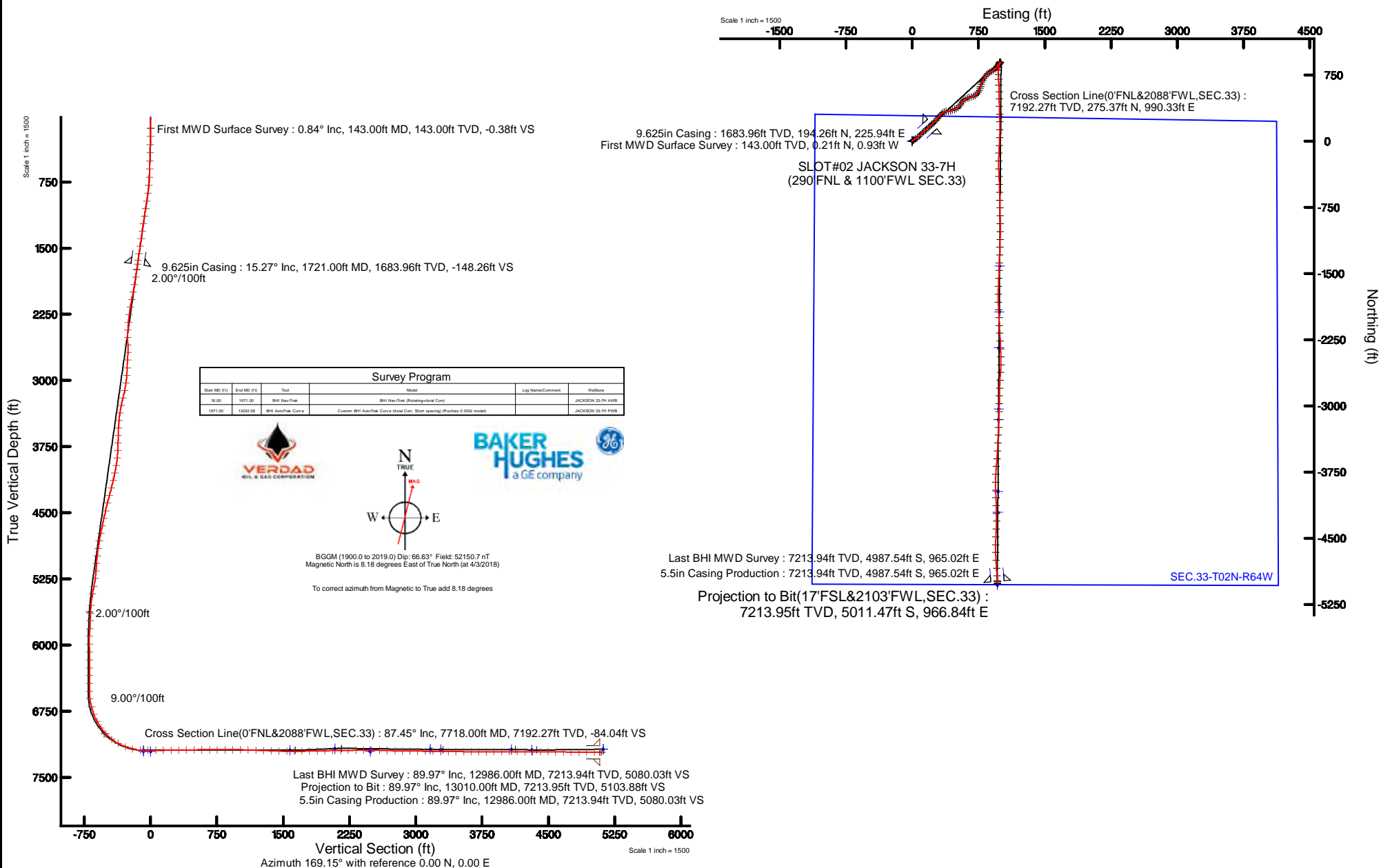


# VERDAD OIL & GAS CORPORATION

Location: COLORADO Slot: SLOT#02 JACKSON 33-7H (290°FNL & 1100'FWL SEC.33)  
Field: WELD COUNTY (NAD83/TN) Well: JACKSON 33-7H  
Facility: SEC.33-T02N-R64W Wellbore: JACKSON 33-7H PWB

Plot reference wellbore is JACKSON 33-7H REV C 0.0 PWB	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (2011), US feet
True vertical depths are referenced to XTREME 24 (10700±010'GSL) (RKB)	* = Wellbore was lateral arrived from a different geologic datum
Measured depths are referenced to XTREME 24 (10700±010'GSL) (RKB)	North Reference: True north
XTREME 24 (10700±010'GSL) (RKB) to Mean Sea Level: 1032 feet	Scale: True distance
Mean Sea Level to Mud line (M Line): SLOTHED JACKSON 33-7H (290°FNL & 1100'FWL SEC.33): 0 feet	Depths are in feet
Coordinates are in feet referenced to SLS	Created by: gaudier on 2018-04-17
	Dataverse: WA, DEN, Denver, Dain

Location Information					
Facility Name	Grid East (U.S. ft)	Grid North (U.S. ft)	Latitude	Longitude	
SEC.33-T02N-R64W	388204.285	101180.866	40°00'00.00"N	109°10'00.00"W	
Well	Local N (ft)	Local E (ft)	Grid East (U.S. ft)	Grid North (U.S. ft)	Latitude
SLOTHED JACKSON 33-7H (290°FNL & 1100'FWL SEC.33)	0.00	0.00	388204.285	101180.866	40°00'00.00"N
XTREME 24 (10700±010'GSL) (RKB) to Mud line (M Line): SLOTHED JACKSON 33-7H (290°FNL & 1100'FWL SEC.33)					0.00
Mean Sea Level to Mud line (M Line): SLOTHED JACKSON 33-7H (290°FNL & 1100'FWL SEC.33)					0.00
XTREME 24 (10700±010'GSL) (RKB) to Mean Sea Level					1032.00





# Actual Wellpath Report

JACKSON 33-7H AWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Guenaler
Scale	0.999960	Report Generated	5/25/2018 at 12:15:40 PM
Convergence at slot	0.61° East	Database/Source file	WA_DEN_Denver_Defn/JACKSON_33-7H_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3262524.30	1281185.97	40°06'05.162"N	104°33'41.450"W
Facility Reference Pt			3262524.30	1281185.97	40°06'05.162"N	104°33'41.450"W
Field Reference Pt			3242930.13	1254608.21	40°01'44.490"N	104°37'56.946"W

WELLPATH DATUM			
Calculation method	Minimum curvature	XTREME 24 (16'RKB+5016'GL) (RKB) to Facility Vertical Datum	5032.00ft
Horizontal Reference Pt	Slot	XTREME 24 (16'RKB+5016'GL) (RKB) to Mean Sea Level	5032.00ft
Vertical Reference Pt	XTREME 24 (16'RKB+5016'GL) (RKB)	XTREME 24 (16'RKB+5016'GL) (RKB) to Mud Line at Slot (SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33))	5032.00ft
MD Reference Pt	XTREME 24 (16'RKB+5016'GL) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	169.15°



Actual Wellpath Report

JACKSON 33-7H AWP



REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH DATA (150 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	282.740	0.00	0.00	0.00	0.00	40°06'05.162"N	104°33'41.450"W	0.00	
16.00	0.000	282.740	16.00	0.00	0.00	0.00	40°06'05.162"N	104°33'41.450"W	0.00	
142.00	0.850	282.740	142.00	-0.37	0.21	-0.91	40°06'05.164"N	104°33'41.462"W	0.67	
143.00†	0.839	283.399	143.00	-0.38	0.21	-0.93	40°06'05.164"N	104°33'41.462"W	1.49	First MWD Surface Survey
234.00	0.910	25.390	233.99	-1.24	1.02	-1.26	40°06'05.172"N	104°33'41.466"W	1.49	
326.00	1.610	20.500	325.97	-2.93	2.89	-0.50	40°06'05.191"N	104°33'41.456"W	0.77	
419.00	2.950	49.860	418.89	-5.22	5.65	1.79	40°06'05.218"N	104°33'41.427"W	1.87	
512.00	5.020	58.040	511.66	-7.85	9.35	7.07	40°06'05.254"N	104°33'41.359"W	2.30	
604.00	6.620	60.630	603.19	-10.99	14.08	15.11	40°06'05.301"N	104°33'41.256"W	1.76	
697.00	9.320	61.650	695.28	-14.96	20.29	26.41	40°06'05.362"N	104°33'41.110"W	2.91	
789.00	12.200	57.940	785.65	-20.71	28.99	41.21	40°06'05.448"N	104°33'40.920"W	3.22	
882.00	15.300	50.490	875.99	-30.16	42.01	59.01	40°06'05.577"N	104°33'40.691"W	3.83	
974.00	15.770	47.640	964.63	-42.51	58.16	77.61	40°06'05.737"N	104°33'40.451"W	0.97	
1063.00	16.730	46.190	1050.07	-55.80	75.18	95.79	40°06'05.905"N	104°33'40.217"W	1.17	
1152.00	15.300	46.580	1135.61	-69.09	92.12	113.57	40°06'06.072"N	104°33'39.989"W	1.61	
1241.00	15.150	47.680	1221.49	-81.49	108.02	130.69	40°06'06.229"N	104°33'39.768"W	0.37	
1330.00	14.750	47.370	1307.48	-93.53	123.52	147.63	40°06'06.383"N	104°33'39.550"W	0.46	
1418.00	15.590	47.070	1392.41	-105.71	139.16	164.53	40°06'06.537"N	104°33'39.333"W	0.96	
1507.00	16.350	48.340	1477.97	-118.48	155.64	182.65	40°06'06.700"N	104°33'39.100"W	0.94	
1596.00	15.720	48.890	1563.51	-130.97	171.89	201.09	40°06'06.861"N	104°33'38.862"W	0.73	
1671.00	15.490	47.720	1635.75	-141.31	185.31	216.15	40°06'06.993"N	104°33'38.668"W	0.52	
1779.00	15.010	46.950	1739.94	-156.28	204.56	237.04	40°06'07.183"N	104°33'38.400"W	0.48	
1868.00	15.250	44.550	1825.86	-169.07	220.77	253.68	40°06'07.344"N	104°33'38.185"W	0.75	
1957.00	15.270	41.260	1911.72	-182.92	237.92	269.62	40°06'07.513"N	104°33'37.980"W	0.97	
2045.00	15.270	37.570	1996.62	-197.72	255.82	284.33	40°06'07.690"N	104°33'37.791"W	1.10	
2135.00	15.030	34.410	2083.49	-213.80	274.84	298.15	40°06'07.878"N	104°33'37.613"W	0.96	
2223.00	14.800	40.970	2168.53	-228.78	292.74	311.97	40°06'08.055"N	104°33'37.435"W	1.94	
2312.00	14.420	48.960	2254.66	-241.38	308.60	327.78	40°06'08.212"N	104°33'37.232"W	2.30	
2401.00	14.200	57.640	2340.91	-250.96	321.72	345.36	40°06'08.341"N	104°33'37.006"W	2.42	
2490.00	14.130	67.680	2427.22	-257.13	331.69	364.63	40°06'08.440"N	104°33'36.758"W	2.76	



Actual Wellpath Report

JACKSON 33-7H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH DATA (150 stations)											
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments	
2578.00	13.870	79.660	2512.62	-259.17	337.66	384.95	40°06'08.499"N	104°33'36.496"W	3.30		
2667.00	16.000	86.730	2598.62	-257.45	340.28	407.70	40°06'08.525"N	104°33'36.203"W	3.15		
2756.00	16.100	73.390	2684.18	-257.08	344.51	431.78	40°06'08.566"N	104°33'35.894"W	4.14		
2845.00	15.720	66.890	2769.78	-260.87	352.77	454.69	40°06'08.648"N	104°33'35.599"W	2.05		
2934.00	15.860	70.830	2855.42	-265.19	361.49	477.27	40°06'08.734"N	104°33'35.308"W	1.21		
3023.00	15.950	64.830	2941.02	-269.98	370.69	499.82	40°06'08.825"N	104°33'35.018"W	1.85		
3111.00	16.100	52.270	3025.63	-278.49	383.30	520.42	40°06'08.950"N	104°33'34.753"W	3.94		
3200.00	17.060	35.360	3110.97	-293.11	401.51	537.75	40°06'09.130"N	104°33'34.530"W	5.51		
3289.00	16.520	22.180	3196.21	-312.76	423.88	550.09	40°06'09.351"N	104°33'34.371"W	4.31		
3378.00	16.900	36.110	3281.49	-332.21	446.06	562.49	40°06'09.570"N	104°33'34.211"W	4.51		
3467.00	16.450	49.120	3366.77	-347.35	464.77	579.65	40°06'09.755"N	104°33'33.991"W	4.22		
3555.00	16.690	63.450	3451.16	-357.01	478.57	600.38	40°06'09.891"N	104°33'33.724"W	4.64		
3644.00	15.090	65.910	3536.75	-363.12	489.02	622.39	40°06'09.994"N	104°33'33.440"W	1.95		
3733.00	15.880	74.850	3622.53	-366.69	496.93	644.73	40°06'10.073"N	104°33'33.153"W	2.82		
3822.00	15.870	76.160	3708.14	-368.24	503.02	668.30	40°06'10.133"N	104°33'32.850"W	0.40		
3911.00	15.960	69.730	3793.74	-370.87	510.17	691.59	40°06'10.204"N	104°33'32.550"W	1.98		
4000.00	15.960	56.200	3879.33	-377.65	521.22	713.24	40°06'10.313"N	104°33'32.271"W	4.17		
4089.00	16.020	44.060	3964.92	-389.48	536.86	731.96	40°06'10.467"N	104°33'32.030"W	3.75		
4177.00	15.930	32.500	4049.54	-405.25	555.77	746.89	40°06'10.654"N	104°33'31.838"W	3.61		
4266.00	16.010	27.580	4135.11	-423.75	576.96	759.14	40°06'10.863"N	104°33'31.681"W	1.52		
4355.00	16.040	16.290	4220.67	-444.31	599.64	768.27	40°06'11.088"N	104°33'31.563"W	3.50		
4443.00	15.970	8.580	4305.27	-466.55	623.28	773.49	40°06'11.321"N	104°33'31.496"W	2.42		
4532.00	15.950	17.110	4390.85	-488.90	647.08	778.92	40°06'11.556"N	104°33'31.426"W	2.63		
4621.00	16.010	26.410	4476.43	-509.47	669.76	787.97	40°06'11.781"N	104°33'31.310"W	2.87		
4710.00	15.990	29.510	4561.98	-528.58	691.43	799.47	40°06'11.995"N	104°33'31.162"W	0.96		
4799.00	15.970	32.140	4647.54	-546.88	712.46	812.02	40°06'12.203"N	104°33'31.000"W	0.81		
4888.00	15.820	34.600	4733.14	-564.34	732.81	825.43	40°06'12.404"N	104°33'30.828"W	0.78		
4977.00	15.790	41.000	4818.78	-580.34	751.94	840.26	40°06'12.593"N	104°33'30.637"W	1.96		
5066.00	15.800	48.240	4904.43	-594.04	769.15	857.24	40°06'12.763"N	104°33'30.418"W	2.21		
5155.00	16.050	59.980	4990.04	-604.31	783.38	876.94	40°06'12.903"N	104°33'30.165"W	3.62		



Actual Wellpath Report

JACKSON 33-7H AWP



REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH DATA (150 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5244.00	15.990	62.870	5075.58	-611.79	795.12	898.50	40°06'13.019"N	104°33'29.887"W	0.90	
5333.00	15.880	62.260	5161.16	-618.76	806.38	920.19	40°06'13.131"N	104°33'29.608"W	0.23	
5421.00	16.030	53.670	5245.78	-627.49	819.19	940.64	40°06'13.257"N	104°33'29.345"W	2.69	
5510.00	14.110	27.190	5331.82	-641.33	836.14	955.51	40°06'13.425"N	104°33'29.153"W	7.95	
5599.00	10.800	18.270	5418.72	-657.17	853.71	963.09	40°06'13.598"N	104°33'29.056"W	4.29	
5731.00	10.140	44.380	5548.60	-674.61	873.77	975.10	40°06'13.797"N	104°33'28.901"W	3.60	
5820.00	8.090	65.620	5636.49	-680.54	881.96	986.28	40°06'13.877"N	104°33'28.757"W	4.39	
5909.00	5.990	65.680	5724.82	-683.09	886.46	996.22	40°06'13.922"N	104°33'28.629"W	2.36	
5997.00	4.340	3.780	5812.52	-687.39	891.67	1000.63	40°06'13.973"N	104°33'28.573"W	6.24	
6086.00	5.980	289.260	5901.24	-692.98	896.57	996.47	40°06'14.022"N	104°33'28.626"W	7.17	
6175.00	2.910	204.600	5990.03	-693.46	896.04	991.15	40°06'14.017"N	104°33'28.695"W	7.19	
6264.00	0.220	139.440	6078.99	-691.47	893.86	990.32	40°06'13.995"N	104°33'28.705"W	3.17	
6353.00	0.040	47.990	6167.99	-691.34	893.75	990.45	40°06'13.994"N	104°33'28.704"W	0.25	
6442.00	0.000	98.190	6256.99	-691.36	893.77	990.47	40°06'13.994"N	104°33'28.703"W	0.04	
6530.00	0.030	18.450	6344.99	-691.38	893.79	990.48	40°06'13.994"N	104°33'28.703"W	0.03	
6619.00	0.060	46.310	6433.99	-691.42	893.85	990.52	40°06'13.995"N	104°33'28.703"W	0.04	
6708.00	0.070	293.270	6522.99	-691.48	893.90	990.51	40°06'13.995"N	104°33'28.703"W	0.12	
6797.00	7.310	186.690	6611.75	-686.10	888.29	989.80	40°06'13.940"N	104°33'28.712"W	8.24	
6886.00	15.450	192.140	6698.93	-669.76	871.05	986.64	40°06'13.770"N	104°33'28.753"W	9.22	
6975.00	21.720	190.120	6783.25	-643.44	843.22	981.25	40°06'13.495"N	104°33'28.822"W	7.08	
7063.00	29.090	185.540	6862.69	-607.66	805.84	976.31	40°06'13.125"N	104°33'28.886"W	8.66	
7152.00	35.170	177.760	6938.06	-561.50	758.63	975.22	40°06'12.659"N	104°33'28.900"W	8.25	
7241.00	44.100	176.330	7006.53	-505.32	702.00	978.21	40°06'12.099"N	104°33'28.861"W	10.09	
7330.00	52.630	177.730	7065.61	-439.50	635.63	981.60	40°06'11.443"N	104°33'28.818"W	9.66	
7419.00	61.540	179.120	7113.92	-365.85	561.02	983.61	40°06'10.706"N	104°33'28.792"W	10.10	
7507.00	69.140	179.450	7150.61	-287.18	481.11	984.60	40°06'09.916"N	104°33'28.779"W	8.64	
7596.00	76.740	178.360	7176.70	-203.39	396.11	986.24	40°06'09.076"N	104°33'28.758"W	8.62	
7685.00	85.680	177.840	7190.29	-116.59	308.29	989.16	40°06'08.208"N	104°33'28.721"W	10.06	
7718.00†	87.450	178.073	7192.27	-84.04	275.37	990.33	40°06'07.883"N	104°33'28.706"W	5.41	Cross Section Line(0'FNL&2088'FWL,SEC.33)
7773.00	90.400	178.460	7193.30	-29.75	220.41	992.00	40°06'07.340"N	104°33'28.684"W	5.41	



Actual Wellpath Report

JACKSON 33-7H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH DATA (150 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7862.00	90.340	180.790	7192.72	57.76	131.42	992.58	40°06'06.461"N	104°33'28.677"W	2.62	
7951.00	90.340	181.990	7192.20	144.73	42.45	990.42	40°06'05.581"N	104°33'28.705"W	1.35	
8040.00	90.180	183.120	7191.79	231.31	-46.46	986.45	40°06'04.703"N	104°33'28.756"W	1.28	
8129.00	91.170	182.790	7190.74	317.73	-135.33	981.86	40°06'03.824"N	104°33'28.815"W	1.17	
8218.00	90.950	180.480	7189.10	404.60	-224.27	979.33	40°06'02.946"N	104°33'28.847"W	2.61	
8306.00	90.920	178.560	7187.66	491.15	-312.25	980.06	40°06'02.076"N	104°33'28.838"W	2.18	
8395.00	90.150	177.080	7186.83	579.13	-401.18	983.45	40°06'01.197"N	104°33'28.795"W	1.87	
8484.00	90.250	177.700	7186.52	667.21	-490.09	987.50	40°06'00.319"N	104°33'28.742"W	0.71	
8573.00	90.000	178.560	7186.32	755.11	-579.04	990.41	40°05'59.440"N	104°33'28.705"W	1.01	
8661.00	90.150	178.790	7186.21	841.90	-667.02	992.44	40°05'58.570"N	104°33'28.679"W	0.31	
8750.00	89.910	178.970	7186.16	929.62	-756.00	994.18	40°05'57.691"N	104°33'28.657"W	0.34	
8839.00	89.510	179.290	7186.61	1017.27	-844.99	995.53	40°05'56.812"N	104°33'28.639"W	0.58	
8928.00	87.940	179.760	7188.59	1104.79	-933.96	996.27	40°05'55.932"N	104°33'28.630"W	1.84	
9017.00	87.880	180.250	7191.84	1192.14	-1022.90	996.26	40°05'55.053"N	104°33'28.630"W	0.55	
9106.00	87.940	181.090	7195.09	1279.29	-1111.83	995.22	40°05'54.174"N	104°33'28.643"W	0.95	
9195.00	87.940	182.010	7198.28	1366.16	-1200.74	992.82	40°05'53.296"N	104°33'28.674"W	1.03	
9284.00	88.060	181.800	7201.39	1452.91	-1289.64	989.86	40°05'52.417"N	104°33'28.712"W	0.27	
9373.00	88.830	181.650	7203.81	1539.74	-1378.57	987.18	40°05'51.539"N	104°33'28.747"W	0.88	
9461.00	90.890	182.200	7204.02	1625.56	-1466.51	984.22	40°05'50.670"N	104°33'28.785"W	2.42	
9550.00	90.890	182.820	7202.64	1712.14	-1555.41	980.33	40°05'49.791"N	104°33'28.835"W	0.70	
9639.00	90.950	182.090	7201.21	1798.74	-1644.32	976.52	40°05'48.912"N	104°33'28.884"W	0.82	
9728.00	91.020	180.330	7199.68	1885.76	-1733.28	974.64	40°05'48.033"N	104°33'28.909"W	1.98	
9817.00	91.110	178.430	7198.02	1973.32	-1822.26	975.60	40°05'47.154"N	104°33'28.896"W	2.14	
9906.00	90.990	177.340	7196.39	2061.28	-1911.18	978.88	40°05'46.275"N	104°33'28.854"W	1.23	
9995.00	91.020	177.350	7194.83	2149.35	-2000.07	983.01	40°05'45.397"N	104°33'28.801"W	0.04	
10083.00	91.080	177.420	7193.22	2236.43	-2087.97	987.02	40°05'44.528"N	104°33'28.749"W	0.10	
10172.00	90.950	176.670	7191.64	2324.57	-2176.83	991.61	40°05'43.650"N	104°33'28.690"W	0.86	
10261.00	90.310	177.050	7190.67	2412.76	-2265.69	996.48	40°05'42.772"N	104°33'28.628"W	0.84	
10350.00	89.540	178.260	7190.78	2500.78	-2354.62	1000.12	40°05'41.893"N	104°33'28.581"W	1.61	
10439.00	88.800	178.140	7192.07	2588.66	-2443.56	1002.92	40°05'41.014"N	104°33'28.545"W	0.84	



Actual Wellpath Report

JACKSON 33-7H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH DATA (150 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10528.00	87.910	180.790	7194.63	2676.18	-2532.51	1003.75	40°05'40.135"N	104°33'28.534"W	3.14	
10617.00	87.720	184.430	7198.02	2762.66	-2621.34	999.70	40°05'39.257"N	104°33'28.587"W	4.09	
10706.00	89.230	183.110	7200.39	2848.74	-2710.11	993.85	40°05'38.380"N	104°33'28.662"W	2.25	
10795.00	89.820	182.140	7201.13	2935.29	-2799.01	989.78	40°05'37.502"N	104°33'28.714"W	1.28	
10883.00	89.660	181.030	7201.53	3021.22	-2886.98	987.34	40°05'36.632"N	104°33'28.746"W	1.27	
10972.00	89.260	180.840	7202.37	3108.34	-2975.96	985.89	40°05'35.753"N	104°33'28.764"W	0.50	
11061.00	89.450	181.290	7203.37	3195.42	-3064.94	984.24	40°05'34.874"N	104°33'28.786"W	0.55	
11150.00	89.380	181.980	7204.28	3282.31	-3153.90	981.70	40°05'33.994"N	104°33'28.818"W	0.78	
11239.00	89.420	182.410	7205.21	3369.01	-3242.83	978.29	40°05'33.116"N	104°33'28.862"W	0.49	
11328.00	89.350	182.820	7206.16	3455.56	-3331.73	974.23	40°05'32.237"N	104°33'28.915"W	0.47	
11417.00	89.380	182.760	7207.15	3542.04	-3420.62	969.90	40°05'31.359"N	104°33'28.970"W	0.08	
11506.00	89.450	183.080	7208.06	3628.48	-3509.50	965.36	40°05'30.480"N	104°33'29.029"W	0.37	
11595.00	89.350	184.510	7208.99	3714.58	-3598.30	959.47	40°05'29.603"N	104°33'29.105"W	1.61	
11683.00	90.280	184.760	7209.27	3799.38	-3686.01	952.36	40°05'28.736"N	104°33'29.196"W	1.09	
11772.00	90.150	182.600	7208.94	3885.53	-3774.82	946.65	40°05'27.858"N	104°33'29.270"W	2.43	
11861.00	90.250	180.600	7208.63	3972.43	-3863.78	944.16	40°05'26.979"N	104°33'29.302"W	2.25	
11950.00	90.280	178.800	7208.22	4059.93	-3952.77	944.63	40°05'26.100"N	104°33'29.296"W	2.02	
12039.00	90.280	176.810	7207.78	4147.91	-4041.70	948.04	40°05'25.221"N	104°33'29.252"W	2.24	
12128.00	90.150	177.380	7207.45	4236.05	-4130.59	952.55	40°05'24.343"N	104°33'29.194"W	0.66	
12216.00	90.150	179.470	7207.22	4322.90	-4218.55	954.97	40°05'23.473"N	104°33'29.163"W	2.37	
12305.00	89.510	179.920	7207.48	4410.39	-4307.55	955.44	40°05'22.594"N	104°33'29.157"W	0.88	
12394.00	89.020	184.290	7208.62	4497.10	-4396.46	952.17	40°05'21.715"N	104°33'29.199"W	4.94	
12483.00	89.050	182.920	7210.12	4583.27	-4485.27	946.58	40°05'20.838"N	104°33'29.271"W	1.54	
12572.00	89.080	180.460	7211.58	4670.13	-4574.21	943.95	40°05'19.959"N	104°33'29.305"W	2.76	
12660.00	88.890	178.030	7213.14	4756.74	-4662.18	945.11	40°05'19.089"N	104°33'29.290"W	2.77	
12749.00	89.910	176.940	7214.07	4844.80	-4751.09	949.02	40°05'18.211"N	104°33'29.240"W	1.68	
12837.00	90.090	176.320	7214.07	4932.05	-4838.94	954.19	40°05'17.343"N	104°33'29.173"W	0.73	
12926.00	90.060	175.610	7213.95	5020.42	-4927.71	960.45	40°05'16.465"N	104°33'29.093"W	0.80	
12986.00	89.970	175.660	7213.94	5080.03	-4987.54	965.02	40°05'15.874"N	104°33'29.034"W	0.17	Last BHI MWD Survey
13010.00	89.970	175.660	7213.95	5103.88	-5011.47	966.84	40°05'15.638"N	104°33'29.011"W	0.00	Projection to Bit(17'FSL&2103'FWL,SEC.33)

HOLE & CASING SECTIONS - Ref Wellbore: JACKSON 33-7H AWB      Ref Wellpath: JACKSON 33-7H AWP									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	1721.00	1705.00	16.00	1683.96	0.00	0.00	194.26	225.94
9.625in Casing	16.00	1721.00	1705.00	16.00	1683.96	0.00	0.00	194.26	225.94
8.5in Open Hole	1721.00	12986.00	11265.00	1683.96	7213.94	194.26	225.94	-4987.54	965.02
5.5in Casing Production	16.00	12986.00	12970.00	16.00	7213.94	0.00	0.00	-4987.54	965.02

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.33-T02N-R64W	0.00	0.04	-0.03	3262524.26	1281186.01	40°06'05.162"N	104°33'41.450"W	polygon
JACKSON 33-7H REV-2 WP2	7173.00	-1933.92	986.02	3263530.68	1279262.67	40°05'46.051"N	104°33'28.762"W	point
JACKSON 33-7H WP2	7180.00	-3035.96	979.77	3263536.10	1278160.67	40°05'35.160"N	104°33'28.843"W	point

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
JACKSON 33-7H BHL REV-1 (0'FSL & 2100'FWL SEC.33)	7181.00	-5027.91	963.62	3263541.03	1276168.74	40°05'15.475"N	104°33'29.052"W	point
JACKSON 33-7H BHL REV-2 (0'FSL & 2100'FWL SEC.33)	7181.00	-5027.93	963.62	3263541.03	1276168.72	40°05'15.475"N	104°33'29.052"W	point
JACKSON 33-7H WP 4	7183.00	-3972.14	971.23	3263537.47	1277224.49	40°05'25.909"N	104°33'28.954"W	point
JACKSON 33-7H WP 3	7185.00	-3156.45	977.14	3263534.74	1278040.17	40°05'33.969"N	104°33'28.877"W	point
JACKSON 33-7H WP 5	7188.00	-4206.65	969.53	3263538.25	1276989.99	40°05'23.591"N	104°33'28.976"W	point
JACKSON 33-7H LP REV-2 (0'FNL & 2100'FWL SEC.33)	7192.00	275.06	1002.03	3263523.31	1281471.60	40°06'07.880"N	104°33'28.555"W	point
JACKSON 33-7H REV-2 WP1	7192.00	-1415.96	989.78	3263528.96	1279780.62	40°05'51.169"N	104°33'28.714"W	point
JACKSON 33-7H LP REV-1 (0'FNL & 2100'FWL SEC.33)	7205.00	275.06	1002.03	3263523.32	1281471.61	40°06'07.880"N	104°33'28.555"W	point
JACKSON 33-7H WP1	7205.00	-2340.52	982.82	3263531.79	1278856.07	40°05'42.032"N	104°33'28.804"W	point

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.33-T02N-R64W SETBACKS	7205.00	0.04	-0.03	3262524.26	1281186.01	40°06'05.162"N	104°33'41.450"W	point

WELLPATH COMPOSITION - Ref Wellbore: JACKSON 33-7H AWB    Ref Wellpath: JACKSON 33-7H AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1671.00	BHI NaviTrak (Rotating+Axial Corr)	BHI/NaviTrak Surface MWD Surveys (Rotating+Axial Corr) <142'-1671'>	JACKSON 33-7H AWB
1671.00	12986.00	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)	BHI/ATC (Axial, Short) (Rockies) 8.5" Hole <1779'-12986'>	JACKSON 33-7H AWB
12986.00	13010.00	Blind Drilling (std)	Projection to bit	JACKSON 33-7H AWB



# Actual Wellpath Report

JACKSON 33-7H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#02 JACKSON 33-7H (290'FNL & 1100'FWL SEC.33)
Area	COLORADO	Well	JACKSON 33-7H
Field	WELD COUNTY (NAD83/TN)	Wellbore	JACKSON 33-7H AWB
Facility	SEC.33-T02N-R64W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
143.00	0.839	283.399	143.00	First MWD Surface Survey
7718.00	87.450	178.073	7192.27	Cross Section Line(0'FNL&2088'FWL,SEC.33)
12986.00	89.970	175.660	7213.94	Last BHI MWD Survey
13010.00	89.970	175.660	7213.95	Projection to Bit(17'FSL&2103'FWL,SEC.33)