

VERDAD OIL & GAS CORPORATION

Location: COLORADO Slot: SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Field: WELD COUNTY (NAD83/TN) Well: PASTELAK 02-64-35-05H
Facility: SEC.02-T01N-R64W Wellbore: PASTELAK 02-64-35-05H PWB

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.02-T01N-R64W			3273343.920	1276066.435	40°05'13.416"N	104°31'22.944"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)	0.00	13.90	3273357.909	1276066.589	40°05'13.416"N	104°31'22.764"W
Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Mud line (At Slot: SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2))						5028ft
Mean Sea Level to Mud line (At Slot: SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2))						0ft
Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Mean Sea Level						5028ft

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
19821.16	90.084	359.735	7138.00	12968.43	242.45	3273457.46	1289036.37	40°07'21.572"N	104°31'19.643"W

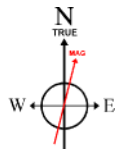
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	16.00	0.000	82.305	16.00	0.00	0.00	0.00	0.00
End of Tangent	400.00	0.000	82.305	400.00	0.00	0.00	0.00	0.00
End of Build	530.51	2.610	82.305	530.47	0.40	2.95	2.00	0.45
End of Tangent	6530.05	2.610	82.305	6523.78	36.99	273.72	0.00	42.10
End of 3D Arc (J)	7527.23	90.084	359.735	7156.00	674.65	299.39	9.00	680.13
End of Tangent (J)	19821.16	90.084	359.735	7138.00	12968.43	242.45	0.00	12970.70

Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
16.00	1700.00	BHI NavTrak	Custom BHI NavTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		PASTELAK 02-64-35-05H PWB
1700.00	19821.16	BHI AutoTrak Curve	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		PASTELAK 02-64-35-05H PWB

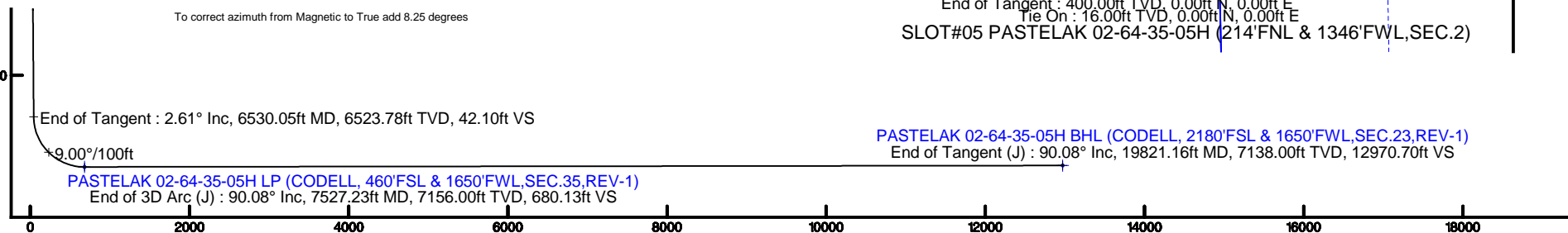
Plot reference wellpath is PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	North Reference: True north
Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Mean Sea Level: 5028 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdarn on 2017-03-06
	Database: WA_Denver



BGGM (1900.0 to 2018.0) Dip: 66.69° Field: 52297.1 nT
Magnetic North is 8.25 degrees East of True North (at 28-Feb-17)

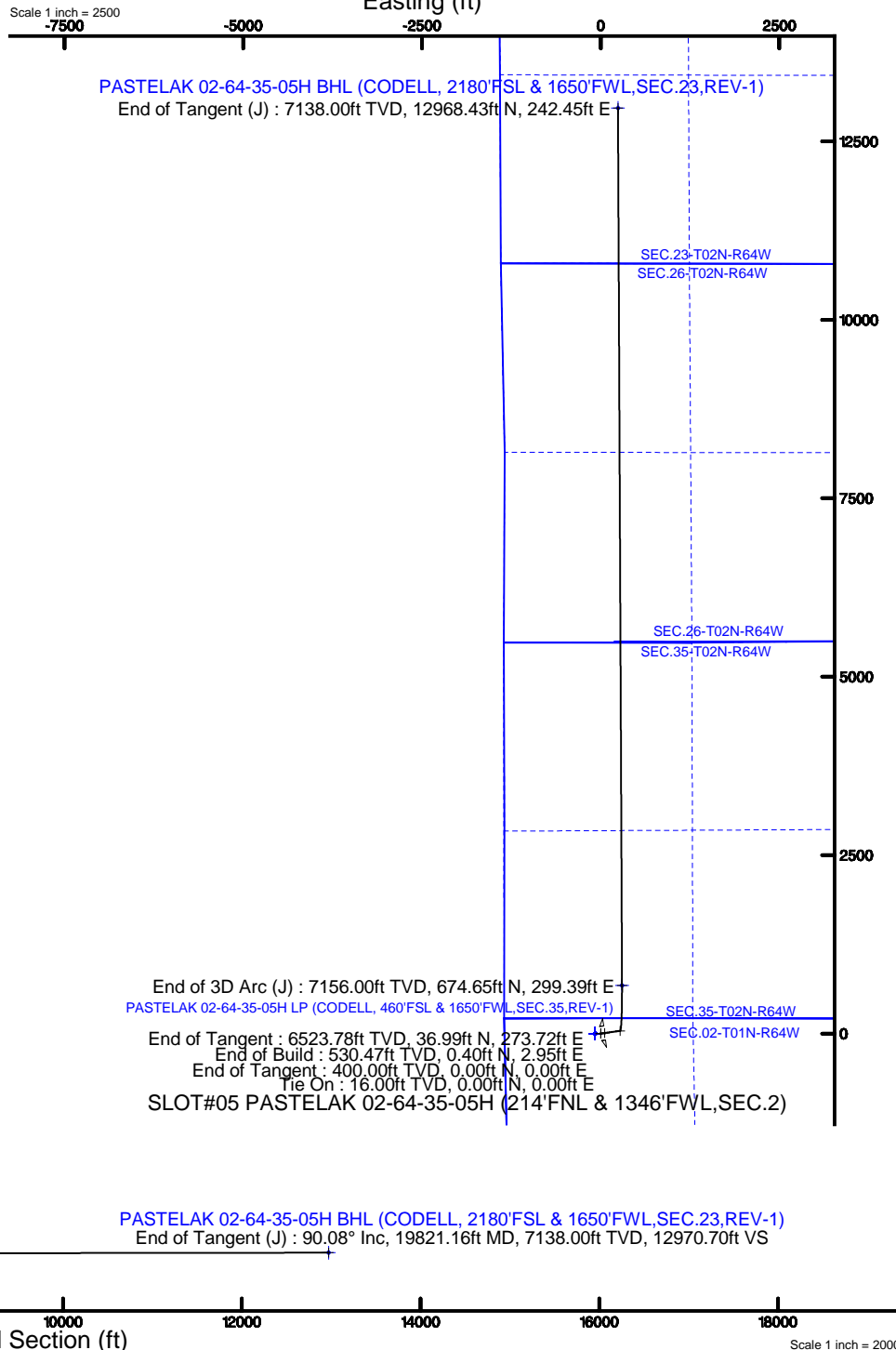
To correct azimuth from Magnetic to True add 8.25 degrees

True Vertical Depth (ft)
Scale 1 inch = 2000



Vertical Section (ft)
Azimuth 1.07° with reference 0.00 N, 0.00 E

Easting (ft)



Northing (ft)



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Cookdanm
Scale	0.999961	Report Generated	06-Mar-17 at 10:08:25 AM
Convergence at slot	0.64° East	Database/Source file	WA_Denver/PASTELAK_02-64-35-05H_CODELL_REV-A.0_PWP.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	13.99	3273357.91	1276066.59	40°05'13.416"N	104°31'22.764"W
Facility Reference Pt			3273343.92	1276066.44	40°05'13.416"N	104°31'22.944"W
Field Reference Pt			3242930.13	1254608.21	40°01'44.490"N	104°37'56.946"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Facility Vertical Datum	5028.00ft
Horizontal Reference Pt	Slot	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Mean Sea Level	5028.00ft
Vertical Reference Pt	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB) to Mud Line at Slot (SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2))	5028.00ft
MD Reference Pt	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	1.07°



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

WELLPATH DATA (205 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	82.305	0.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	
16.00	0.000	82.305	16.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	Tie On
116.00†	0.000	82.305	116.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	
216.00†	0.000	82.305	216.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	
316.00†	0.000	82.305	316.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	
400.00	0.000	82.305	400.00	0.00	0.00	0.00	40°05'13.416"N	104°31'22.764"W	0.00	End of Tangent
416.00†	0.320	82.305	416.00	0.01	0.01	0.04	40°05'13.416"N	104°31'22.763"W	2.00	
516.00†	2.320	82.305	515.97	0.36	0.31	2.33	40°05'13.419"N	104°31'22.734"W	2.00	
530.51	2.610	82.305	530.47	0.45	0.40	2.95	40°05'13.420"N	104°31'22.726"W	2.00	End of Build
616.00†	2.610	82.305	615.87	1.05	0.92	6.80	40°05'13.425"N	104°31'22.676"W	0.00	
716.00†	2.610	82.305	715.76	1.74	1.53	11.32	40°05'13.431"N	104°31'22.618"W	0.00	
816.00†	2.610	82.305	815.66	2.43	2.14	15.83	40°05'13.437"N	104°31'22.560"W	0.00	
916.00†	2.610	82.305	915.55	3.13	2.75	20.34	40°05'13.443"N	104°31'22.502"W	0.00	
1016.00†	2.610	82.305	1015.45	3.82	3.36	24.86	40°05'13.449"N	104°31'22.444"W	0.00	
1116.00†	2.610	82.305	1115.35	4.52	3.97	29.37	40°05'13.455"N	104°31'22.386"W	0.00	
1216.00†	2.610	82.305	1215.24	5.21	4.58	33.88	40°05'13.461"N	104°31'22.328"W	0.00	
1316.00†	2.610	82.305	1315.14	5.91	5.19	38.40	40°05'13.467"N	104°31'22.270"W	0.00	
1416.00†	2.610	82.305	1415.04	6.60	5.80	42.91	40°05'13.473"N	104°31'22.212"W	0.00	
1516.00†	2.610	82.305	1514.93	7.29	6.41	47.42	40°05'13.479"N	104°31'22.154"W	0.00	
1616.00†	2.610	82.305	1614.83	7.99	7.02	51.94	40°05'13.485"N	104°31'22.096"W	0.00	
1716.00†	2.610	82.305	1714.72	8.68	7.63	56.45	40°05'13.491"N	104°31'22.038"W	0.00	
1816.00†	2.610	82.305	1814.62	9.38	8.24	60.96	40°05'13.497"N	104°31'21.980"W	0.00	
1916.00†	2.610	82.305	1914.52	10.07	8.85	65.48	40°05'13.503"N	104°31'21.922"W	0.00	
2016.00†	2.610	82.305	2014.41	10.76	9.46	69.99	40°05'13.509"N	104°31'21.864"W	0.00	
2116.00†	2.610	82.305	2114.31	11.46	10.07	74.50	40°05'13.515"N	104°31'21.805"W	0.00	
2216.00†	2.610	82.305	2214.21	12.15	10.68	79.01	40°05'13.522"N	104°31'21.747"W	0.00	
2316.00†	2.610	82.305	2314.10	12.85	11.29	83.53	40°05'13.528"N	104°31'21.689"W	0.00	
2416.00†	2.610	82.305	2414.00	13.54	11.90	88.04	40°05'13.534"N	104°31'21.631"W	0.00	
2516.00†	2.610	82.305	2513.89	14.23	12.51	92.55	40°05'13.540"N	104°31'21.573"W	0.00	
2616.00†	2.610	82.305	2613.79	14.93	13.12	97.07	40°05'13.546"N	104°31'21.515"W	0.00	
2716.00†	2.610	82.305	2713.69	15.62	13.73	101.58	40°05'13.552"N	104°31'21.457"W	0.00	
2816.00†	2.610	82.305	2813.58	16.32	14.34	106.09	40°05'13.558"N	104°31'21.399"W	0.00	
2916.00†	2.610	82.305	2913.48	17.01	14.95	110.61	40°05'13.564"N	104°31'21.341"W	0.00	
3016.00†	2.610	82.305	3013.38	17.70	15.56	115.12	40°05'13.570"N	104°31'21.283"W	0.00	
3116.00†	2.610	82.305	3113.27	18.40	16.17	119.63	40°05'13.576"N	104°31'21.225"W	0.00	
3216.00†	2.610	82.305	3213.17	19.09	16.78	124.15	40°05'13.582"N	104°31'21.167"W	0.00	
3316.00†	2.610	82.305	3313.06	19.79	17.38	128.66	40°05'13.588"N	104°31'21.109"W	0.00	
3416.00†	2.610	82.305	3412.96	20.48	17.99	133.17	40°05'13.594"N	104°31'21.051"W	0.00	
3516.00†	2.610	82.305	3512.86	21.18	18.60	137.69	40°05'13.600"N	104°31'20.993"W	0.00	
3616.00†	2.610	82.305	3612.75	21.87	19.21	142.20	40°05'13.606"N	104°31'20.934"W	0.00	
3716.00†	2.610	82.305	3712.65	22.56	19.82	146.71	40°05'13.612"N	104°31'20.876"W	0.00	
3816.00†	2.610	82.305	3812.55	23.26	20.43	151.23	40°05'13.618"N	104°31'20.818"W	0.00	
3916.00†	2.610	82.305	3912.44	23.95	21.04	155.74	40°05'13.624"N	104°31'20.760"W	0.00	
4016.00†	2.610	82.305	4012.34	24.65	21.65	160.25	40°05'13.630"N	104°31'20.702"W	0.00	
4116.00†	2.610	82.305	4112.23	25.34	22.26	164.77	40°05'13.636"N	104°31'20.644"W	0.00	



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PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4216.00†	2.610	82.305	4212.13	26.03	22.87	169.28	40°05'13.642"N	104°31'20.586"W	0.00	
4316.00†	2.610	82.305	4312.03	26.73	23.48	173.79	40°05'13.648"N	104°31'20.528"W	0.00	
4416.00†	2.610	82.305	4411.92	27.42	24.09	178.31	40°05'13.654"N	104°31'20.470"W	0.00	
4516.00†	2.610	82.305	4511.82	28.12	24.70	182.82	40°05'13.660"N	104°31'20.412"W	0.00	
4616.00†	2.610	82.305	4611.72	28.81	25.31	187.33	40°05'13.666"N	104°31'20.354"W	0.00	
4716.00†	2.610	82.305	4711.61	29.50	25.92	191.84	40°05'13.672"N	104°31'20.296"W	0.00	
4816.00†	2.610	82.305	4811.51	30.20	26.53	196.36	40°05'13.678"N	104°31'20.238"W	0.00	
4916.00†	2.610	82.305	4911.40	30.89	27.14	200.87	40°05'13.684"N	104°31'20.180"W	0.00	
5016.00†	2.610	82.305	5011.30	31.59	27.75	205.38	40°05'13.690"N	104°31'20.122"W	0.00	
5116.00†	2.610	82.305	5111.20	32.28	28.36	209.90	40°05'13.696"N	104°31'20.063"W	0.00	
5216.00†	2.610	82.305	5211.09	32.97	28.97	214.41	40°05'13.702"N	104°31'20.005"W	0.00	
5316.00†	2.610	82.305	5310.99	33.67	29.58	218.92	40°05'13.708"N	104°31'19.947"W	0.00	
5416.00†	2.610	82.305	5410.89	34.36	30.19	223.44	40°05'13.714"N	104°31'19.889"W	0.00	
5516.00†	2.610	82.305	5510.78	35.06	30.80	227.95	40°05'13.720"N	104°31'19.831"W	0.00	
5616.00†	2.610	82.305	5610.68	35.75	31.41	232.46	40°05'13.726"N	104°31'19.773"W	0.00	
5716.00†	2.610	82.305	5710.57	36.45	32.02	236.98	40°05'13.732"N	104°31'19.715"W	0.00	
5816.00†	2.610	82.305	5810.47	37.14	32.63	241.49	40°05'13.738"N	104°31'19.657"W	0.00	
5916.00†	2.610	82.305	5910.37	37.83	33.24	246.00	40°05'13.744"N	104°31'19.599"W	0.00	
6016.00†	2.610	82.305	6010.26	38.53	33.85	250.52	40°05'13.751"N	104°31'19.541"W	0.00	
6116.00†	2.610	82.305	6110.16	39.22	34.46	255.03	40°05'13.757"N	104°31'19.483"W	0.00	
6216.00†	2.610	82.305	6210.06	39.92	35.07	259.54	40°05'13.763"N	104°31'19.425"W	0.00	
6316.00†	2.610	82.305	6309.95	40.61	35.68	264.06	40°05'13.769"N	104°31'19.367"W	0.00	
6416.00†	2.610	82.305	6409.85	41.30	36.29	268.57	40°05'13.775"N	104°31'19.309"W	0.00	
6516.00†	2.610	82.305	6509.74	42.00	36.90	273.08	40°05'13.781"N	104°31'19.251"W	0.00	
6530.05	2.610	82.305	6523.78	42.10	36.99	273.72	40°05'13.781"N	104°31'19.242"W	0.00	End of Tangent
6616.00†	8.475	17.399	6609.35	48.48	43.30	277.56	40°05'13.844"N	104°31'19.193"W	9.00	
6716.00†	17.263	8.103	6706.75	70.32	65.07	281.86	40°05'14.059"N	104°31'19.138"W	9.00	
6816.00†	26.193	5.011	6799.55	107.14	101.82	285.89	40°05'14.422"N	104°31'19.086"W	9.00	
6916.00†	35.156	3.419	6885.47	158.03	152.65	289.54	40°05'14.924"N	104°31'19.039"W	9.00	
7016.00†	44.134	2.409	6962.40	221.74	216.30	292.73	40°05'15.554"N	104°31'18.998"W	9.00	
7116.00†	53.117	1.682	7028.43	296.69	291.22	295.37	40°05'16.294"N	104°31'18.964"W	9.00	
7216.00†	62.104	1.110	7081.94	381.04	375.55	297.40	40°05'17.127"N	104°31'18.938"W	9.00	
7316.00†	71.093	0.626	7121.62	472.72	467.22	298.78	40°05'18.033"N	104°31'18.920"W	9.00	
7416.00†	80.084	0.191	7146.48	569.47	563.97	299.46	40°05'18.989"N	104°31'18.911"W	9.00	
7516.00†	89.074	359.780	7155.92	668.90	663.42	299.43	40°05'19.972"N	104°31'18.911"W	9.00	
7527.23	90.084	359.735	7156.00†	680.13	674.65	299.39	40°05'20.083"N	104°31'18.912"W	9.00	End of 3D Arc (J)
7616.00†	90.084	359.735	7155.87	768.88	763.42	298.97	40°05'20.960"N	104°31'18.917"W	0.00	
7716.00†	90.084	359.735	7155.72	868.85	863.42	298.51	40°05'21.948"N	104°31'18.923"W	0.00	
7816.00†	90.084	359.735	7155.58	968.82	963.42	298.05	40°05'22.937"N	104°31'18.929"W	0.00	
7916.00†	90.084	359.735	7155.43	1068.79	1063.42	297.59	40°05'23.925"N	104°31'18.935"W	0.00	
8016.00†	90.084	359.735	7155.28	1168.77	1163.42	297.12	40°05'24.913"N	104°31'18.941"W	0.00	
8116.00†	90.084	359.735	7155.14	1268.74	1263.41	296.66	40°05'25.901"N	104°31'18.947"W	0.00	
8216.00†	90.084	359.735	7154.99	1368.71	1363.41	296.20	40°05'26.889"N	104°31'18.953"W	0.00	
8316.00†	90.084	359.735	7154.85	1468.68	1463.41	295.73	40°05'27.878"N	104°31'18.959"W	0.00	
8416.00†	90.084	359.735	7154.70	1568.66	1563.41	295.27	40°05'28.866"N	104°31'18.965"W	0.00	



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8516.00†	90.084	359.735	7154.55	1668.63	1663.41	294.81	40°05'29.854"N	104°31'18.971"W	0.00	
8616.00†	90.084	359.735	7154.41	1768.60	1763.41	294.34	40°05'30.842"N	104°31'18.977"W	0.00	
8716.00†	90.084	359.735	7154.26	1868.58	1863.41	293.88	40°05'31.830"N	104°31'18.983"W	0.00	
8816.00†	90.084	359.735	7154.11	1968.55	1963.41	293.42	40°05'32.819"N	104°31'18.989"W	0.00	
8916.00†	90.084	359.735	7153.97	2068.52	2063.40	292.95	40°05'33.807"N	104°31'18.995"W	0.00	
9016.00†	90.084	359.735	7153.82	2168.49	2163.40	292.49	40°05'34.795"N	104°31'19.000"W	0.00	
9116.00†	90.084	359.735	7153.67	2268.47	2263.40	292.03	40°05'35.783"N	104°31'19.006"W	0.00	
9216.00†	90.084	359.735	7153.53	2368.44	2363.40	291.56	40°05'36.772"N	104°31'19.012"W	0.00	
9316.00†	90.084	359.735	7153.38	2468.41	2463.40	291.10	40°05'37.760"N	104°31'19.018"W	0.00	
9416.00†	90.084	359.735	7153.23	2568.38	2563.40	290.64	40°05'38.748"N	104°31'19.024"W	0.00	
9516.00†	90.084	359.735	7153.09	2668.36	2663.40	290.18	40°05'39.736"N	104°31'19.030"W	0.00	
9616.00†	90.084	359.735	7152.94	2768.33	2763.40	289.71	40°05'40.724"N	104°31'19.036"W	0.00	
9716.00†	90.084	359.735	7152.80	2868.30	2863.40	289.25	40°05'41.713"N	104°31'19.042"W	0.00	
9816.00†	90.084	359.735	7152.65	2968.27	2963.39	288.79	40°05'42.701"N	104°31'19.048"W	0.00	
9916.00†	90.084	359.735	7152.50	3068.25	3063.39	288.32	40°05'43.689"N	104°31'19.054"W	0.00	
10016.00†	90.084	359.735	7152.36	3168.22	3163.39	287.86	40°05'44.677"N	104°31'19.060"W	0.00	
10116.00†	90.084	359.735	7152.21	3268.19	3263.39	287.40	40°05'45.665"N	104°31'19.066"W	0.00	
10216.00†	90.084	359.735	7152.06	3368.17	3363.39	286.93	40°05'46.654"N	104°31'19.072"W	0.00	
10316.00†	90.084	359.735	7151.92	3468.14	3463.39	286.47	40°05'47.642"N	104°31'19.078"W	0.00	
10416.00†	90.084	359.735	7151.77	3568.11	3563.39	286.01	40°05'48.630"N	104°31'19.084"W	0.00	
10516.00†	90.084	359.735	7151.62	3668.08	3663.39	285.54	40°05'49.618"N	104°31'19.090"W	0.00	
10616.00†	90.084	359.735	7151.48	3768.06	3763.38	285.08	40°05'50.606"N	104°31'19.096"W	0.00	
10716.00†	90.084	359.735	7151.33	3868.03	3863.38	284.62	40°05'51.595"N	104°31'19.102"W	0.00	
10816.00†	90.084	359.735	7151.18	3968.00	3963.38	284.16	40°05'52.583"N	104°31'19.107"W	0.00	
10916.00†	90.084	359.735	7151.04	4067.97	4063.38	283.69	40°05'53.571"N	104°31'19.113"W	0.00	
11016.00†	90.084	359.735	7150.89	4167.95	4163.38	283.23	40°05'54.559"N	104°31'19.119"W	0.00	
11116.00†	90.084	359.735	7150.75	4267.92	4263.38	282.77	40°05'55.547"N	104°31'19.125"W	0.00	
11216.00†	90.084	359.735	7150.60	4367.89	4363.38	282.30	40°05'56.536"N	104°31'19.131"W	0.00	
11316.00†	90.084	359.735	7150.45	4467.87	4463.38	281.84	40°05'57.524"N	104°31'19.137"W	0.00	
11416.00†	90.084	359.735	7150.31	4567.84	4563.38	281.38	40°05'58.512"N	104°31'19.143"W	0.00	
11516.00†	90.084	359.735	7150.16	4667.81	4663.37	280.91	40°05'59.500"N	104°31'19.149"W	0.00	
11616.00†	90.084	359.735	7150.01	4767.78	4763.37	280.45	40°06'00.488"N	104°31'19.155"W	0.00	
11716.00†	90.084	359.735	7149.87	4867.76	4863.37	279.99	40°06'01.477"N	104°31'19.161"W	0.00	
11816.00†	90.084	359.735	7149.72	4967.73	4963.37	279.52	40°06'02.465"N	104°31'19.167"W	0.00	
11916.00†	90.084	359.735	7149.57	5067.70	5063.37	279.06	40°06'03.453"N	104°31'19.173"W	0.00	
12016.00†	90.084	359.735	7149.43	5167.67	5163.37	278.60	40°06'04.441"N	104°31'19.179"W	0.00	
12116.00†	90.084	359.735	7149.28	5267.65	5263.37	278.13	40°06'05.429"N	104°31'19.185"W	0.00	
12216.00†	90.084	359.735	7149.13	5367.62	5363.37	277.67	40°06'06.418"N	104°31'19.191"W	0.00	
12316.00†	90.084	359.735	7148.99	5467.59	5463.36	277.21	40°06'07.406"N	104°31'19.197"W	0.00	
12416.00†	90.084	359.735	7148.84	5567.56	5563.36	276.75	40°06'08.394"N	104°31'19.203"W	0.00	
12516.00†	90.084	359.735	7148.70	5667.54	5663.36	276.28	40°06'09.382"N	104°31'19.209"W	0.00	
12616.00†	90.084	359.735	7148.55	5767.51	5763.36	275.82	40°06'10.370"N	104°31'19.214"W	0.00	
12716.00†	90.084	359.735	7148.40	5867.48	5863.36	275.36	40°06'11.359"N	104°31'19.220"W	0.00	
12816.00†	90.084	359.735	7148.26	5967.46	5963.36	274.89	40°06'12.347"N	104°31'19.226"W	0.00	
12916.00†	90.084	359.735	7148.11	6067.43	6063.36	274.43	40°06'13.335"N	104°31'19.232"W	0.00	



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13016.00†	90.084	359.735	7147.96	6167.40	6163.36	273.97	40°06'14.323"N	104°31'19.238"W	0.00	
13116.00†	90.084	359.735	7147.82	6267.37	6263.36	273.50	40°06'15.311"N	104°31'19.244"W	0.00	
13216.00†	90.084	359.735	7147.67	6367.35	6363.35	273.04	40°06'16.300"N	104°31'19.250"W	0.00	
13316.00†	90.084	359.735	7147.52	6467.32	6463.35	272.58	40°06'17.288"N	104°31'19.256"W	0.00	
13416.00†	90.084	359.735	7147.38	6567.29	6563.35	272.11	40°06'18.276"N	104°31'19.262"W	0.00	
13516.00†	90.084	359.735	7147.23	6667.26	6663.35	271.65	40°06'19.264"N	104°31'19.268"W	0.00	
13616.00†	90.084	359.735	7147.09	6767.24	6763.35	271.19	40°06'20.252"N	104°31'19.274"W	0.00	
13716.00†	90.084	359.735	7146.94	6867.21	6863.35	270.72	40°06'21.241"N	104°31'19.280"W	0.00	
13816.00†	90.084	359.735	7146.79	6967.18	6963.35	270.26	40°06'22.229"N	104°31'19.286"W	0.00	
13916.00†	90.084	359.735	7146.65	7067.16	7063.35	269.80	40°06'23.217"N	104°31'19.292"W	0.00	
14016.00†	90.084	359.735	7146.50	7167.13	7163.34	269.34	40°06'24.205"N	104°31'19.298"W	0.00	
14116.00†	90.084	359.735	7146.35	7267.10	7263.34	268.87	40°06'25.194"N	104°31'19.304"W	0.00	
14216.00†	90.084	359.735	7146.21	7367.07	7363.34	268.41	40°06'26.182"N	104°31'19.310"W	0.00	
14316.00†	90.084	359.735	7146.06	7467.05	7463.34	267.95	40°06'27.170"N	104°31'19.316"W	0.00	
14416.00†	90.084	359.735	7145.91	7567.02	7563.34	267.48	40°06'28.158"N	104°31'19.322"W	0.00	
14516.00†	90.084	359.735	7145.77	7666.99	7663.34	267.02	40°06'29.146"N	104°31'19.327"W	0.00	
14616.00†	90.084	359.735	7145.62	7766.96	7763.34	266.56	40°06'30.135"N	104°31'19.333"W	0.00	
14716.00†	90.084	359.735	7145.47	7866.94	7863.34	266.09	40°06'31.123"N	104°31'19.339"W	0.00	
14816.00†	90.084	359.735	7145.33	7966.91	7963.34	265.63	40°06'32.111"N	104°31'19.345"W	0.00	
14916.00†	90.084	359.735	7145.18	8066.88	8063.33	265.17	40°06'33.099"N	104°31'19.351"W	0.00	
15016.00†	90.084	359.735	7145.04	8166.85	8163.33	264.70	40°06'34.087"N	104°31'19.357"W	0.00	
15116.00†	90.084	359.735	7144.89	8266.83	8263.33	264.24	40°06'35.076"N	104°31'19.363"W	0.00	
15216.00†	90.084	359.735	7144.74	8366.80	8363.33	263.78	40°06'36.064"N	104°31'19.369"W	0.00	
15316.00†	90.084	359.735	7144.60	8466.77	8463.33	263.31	40°06'37.052"N	104°31'19.375"W	0.00	
15416.00†	90.084	359.735	7144.45	8566.75	8563.33	262.85	40°06'38.040"N	104°31'19.381"W	0.00	
15516.00†	90.084	359.735	7144.30	8666.72	8663.33	262.39	40°06'39.028"N	104°31'19.387"W	0.00	
15616.00†	90.084	359.735	7144.16	8766.69	8763.33	261.93	40°06'40.017"N	104°31'19.393"W	0.00	
15716.00†	90.084	359.735	7144.01	8866.66	8863.32	261.46	40°06'41.005"N	104°31'19.399"W	0.00	
15816.00†	90.084	359.735	7143.86	8966.64	8963.32	261.00	40°06'41.993"N	104°31'19.405"W	0.00	
15916.00†	90.084	359.735	7143.72	9066.61	9063.32	260.54	40°06'42.981"N	104°31'19.411"W	0.00	
16016.00†	90.084	359.735	7143.57	9166.58	9163.32	260.07	40°06'43.969"N	104°31'19.417"W	0.00	
16116.00†	90.084	359.735	7143.42	9266.55	9263.32	259.61	40°06'44.958"N	104°31'19.423"W	0.00	
16216.00†	90.084	359.735	7143.28	9366.53	9363.32	259.15	40°06'45.946"N	104°31'19.429"W	0.00	
16316.00†	90.084	359.735	7143.13	9466.50	9463.32	258.68	40°06'46.934"N	104°31'19.435"W	0.00	
16416.00†	90.084	359.735	7142.99	9566.47	9563.32	258.22	40°06'47.922"N	104°31'19.440"W	0.00	
16516.00†	90.084	359.735	7142.84	9666.45	9663.32	257.76	40°06'48.910"N	104°31'19.446"W	0.00	
16616.00†	90.084	359.735	7142.69	9766.42	9763.31	257.29	40°06'49.899"N	104°31'19.452"W	0.00	
16716.00†	90.084	359.735	7142.55	9866.39	9863.31	256.83	40°06'50.887"N	104°31'19.458"W	0.00	
16816.00†	90.084	359.735	7142.40	9966.36	9963.31	256.37	40°06'51.875"N	104°31'19.464"W	0.00	
16916.00†	90.084	359.735	7142.25	10066.34	10063.31	255.90	40°06'52.863"N	104°31'19.470"W	0.00	
17016.00†	90.084	359.735	7142.11	10166.31	10163.31	255.44	40°06'53.851"N	104°31'19.476"W	0.00	
17116.00†	90.084	359.735	7141.96	10266.28	10263.31	254.98	40°06'54.840"N	104°31'19.482"W	0.00	
17216.00†	90.084	359.735	7141.81	10366.25	10363.31	254.52	40°06'55.828"N	104°31'19.488"W	0.00	
17316.00†	90.084	359.735	7141.67	10466.23	10463.31	254.05	40°06'56.816"N	104°31'19.494"W	0.00	
17416.00†	90.084	359.735	7141.52	10566.20	10563.30	253.59	40°06'57.804"N	104°31'19.500"W	0.00	



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17516.00†	90.084	359.735	7141.38	10666.17	10663.30	253.13	40°06'58.792"N	104°31'19.506"W	0.00	
17616.00†	90.084	359.735	7141.23	10766.14	10763.30	252.66	40°06'59.781"N	104°31'19.512"W	0.00	
17716.00†	90.084	359.735	7141.08	10866.12	10863.30	252.20	40°07'00.769"N	104°31'19.518"W	0.00	
17816.00†	90.084	359.735	7140.94	10966.09	10963.30	251.74	40°07'01.757"N	104°31'19.524"W	0.00	
17916.00†	90.084	359.735	7140.79	11066.06	11063.30	251.27	40°07'02.745"N	104°31'19.530"W	0.00	
18016.00†	90.084	359.735	7140.64	11166.04	11163.30	250.81	40°07'03.733"N	104°31'19.536"W	0.00	
18116.00†	90.084	359.735	7140.50	11266.01	11263.30	250.35	40°07'04.722"N	104°31'19.542"W	0.00	
18216.00†	90.084	359.735	7140.35	11365.98	11363.30	249.88	40°07'05.710"N	104°31'19.548"W	0.00	
18316.00†	90.084	359.735	7140.20	11465.95	11463.29	249.42	40°07'06.698"N	104°31'19.553"W	0.00	
18416.00†	90.084	359.735	7140.06	11565.93	11563.29	248.96	40°07'07.686"N	104°31'19.559"W	0.00	
18516.00†	90.084	359.735	7139.91	11665.90	11663.29	248.50	40°07'08.674"N	104°31'19.565"W	0.00	
18616.00†	90.084	359.735	7139.76	11765.87	11763.29	248.03	40°07'09.663"N	104°31'19.571"W	0.00	
18716.00†	90.084	359.735	7139.62	11865.84	11863.29	247.57	40°07'10.651"N	104°31'19.577"W	0.00	
18816.00†	90.084	359.735	7139.47	11965.82	11963.29	247.11	40°07'11.639"N	104°31'19.583"W	0.00	
18916.00†	90.084	359.735	7139.33	12065.79	12063.29	246.64	40°07'12.627"N	104°31'19.589"W	0.00	
19016.00†	90.084	359.735	7139.18	12165.76	12163.29	246.18	40°07'13.615"N	104°31'19.595"W	0.00	
19116.00†	90.084	359.735	7139.03	12265.74	12263.28	245.72	40°07'14.604"N	104°31'19.601"W	0.00	
19216.00†	90.084	359.735	7138.89	12365.71	12363.28	245.25	40°07'15.592"N	104°31'19.607"W	0.00	
19316.00†	90.084	359.735	7138.74	12465.68	12463.28	244.79	40°07'16.580"N	104°31'19.613"W	0.00	
19416.00†	90.084	359.735	7138.59	12565.65	12563.28	244.33	40°07'17.568"N	104°31'19.619"W	0.00	
19516.00†	90.084	359.735	7138.45	12665.63	12663.28	243.86	40°07'18.556"N	104°31'19.625"W	0.00	
19616.00†	90.084	359.735	7138.30	12765.60	12763.28	243.40	40°07'19.545"N	104°31'19.631"W	0.00	
19716.00†	90.084	359.735	7138.15	12865.57	12863.28	242.94	40°07'20.533"N	104°31'19.637"W	0.00	
19816.00†	90.084	359.735	7138.01	12965.54	12963.28	242.47	40°07'21.521"N	104°31'19.643"W	0.00	
19821.16	90.084	359.735	7138.00 ²	12970.70	12968.43	242.45	40°07'21.572"N	104°31'19.643"W	0.00	End of Tangent (J)

HOLE & CASING SECTIONS

- Ref Wellbore: PASTELAK 02-64-35-05H PWB Ref Wellpath: PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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	1700.00	1684.00	16.00	1698.74	0.00	0.00	7.53	55.73
9.625in Casing Surface	16.00	1700.00	1684.00	16.00	1698.74	0.00	0.00	7.53	55.73
8.5in Open Hole	1700.00	19821.16	18121.16	1698.74	7138.00	7.53	55.73	12968.43	242.45
5.5in Open Hole	16.00	19821.16	19805.16	16.00	7138.00	0.00	0.00	12968.43	242.45



Planned Wellpath Report

PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	VERDAD OIL & GAS CORPORATION	Slot	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)
Area	COLORADO	Well	PASTELAK 02-64-35-05H
Field	WELD COUNTY (NAD83/TN)	Wellbore	PASTELAK 02-64-35-05H PWB
Facility	SEC.02-T01N-R64W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.02-T01N-R64W		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.02-T01N-R64W (NORTH HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.02-T01N-R64W (WEST HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.23-T02N-R64W		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.23-T02N-R64W (NORTH HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.23-T02N-R64W (WEST HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.26-T02N-R64W		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.26-T02N-R64W (NORTH HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.26-T02N-R64W (WEST HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.35-T02N-R64W		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.35-T02N-R64W (NORTH HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
SEC.35-T02N-R64W (WEST HALF)		118.00	0.00	-75.55	3273282.37	1276065.76	40°05'13.416"N	104°31'23.736"W	polygon
2) PASTELAK 02-64-35-05H BHL (CODELL, 2180'FSL & 1650'FWL,SEC.23,REV-1)	19821.16	7138.00	12968.43	242.45	3273457.46	1289036.37	40°07'21.572"N	104°31'19.643"W	point
1) PASTELAK 02-64-35-05H LP (CODELL, 460'FSL & 1650'FWL,SEC.35,REV-1)	7527.23	7156.00	674.65	299.39	3273649.83	1276744.47	40°05'20.083"N	104°31'18.912"W	point
PASTELAK 02-64-35-05H LP (CODELL, 687'FSL & 1650'FWL,SEC.35,REV-2)		7156.00	901.65	299.39	3273647.33	1276971.45	40°05'22.326"N	104°31'18.912"W	point

SURVEY PROGRAM -

Ref Wellbore: PASTELAK 02-64-35-05H PWB Ref Wellpath: PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1700.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		PASTELAK 02-64-35-05H PWB
1700.00	19821.16	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		PASTELAK 02-64-35-05H PWB

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

WRAP. NO : ASCII DATA SECTION CONTAINS ONE ROW PER WELLPATH STATION

~WELL INFORMATION

#MNE	UNITS	DATA	DESCRIPTION
STRT	.ft	0.00	:START MD
STOP	.ft	19821.16	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	VERDAD OIL & GAS CORPORATION	:OPERATOR
WELL	.	PASTELAK 02-64-35-05H	:WELL
FLD	.	WELD COUNTY (NAD83/TN)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/28/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: wellArchitect(R) Version 5.0

#MNE	UNITS	DATA	DESCRIPTION
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.02-T01N-R64W	:FACILITY
SLOT	.	SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2)	:SLOT
WELLBORE	.	PASTELAK 02-64-35-05H PWB	:WELLBORE
WELLPATH	.	PASTELAK 02-64-35-05H (CODELL, REV-A.0) PWP:WELLPATH	
MDREFPT	.	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	:MD REFERENCE POINT
TVDREFPT	.	Rig on SLOT#05 PASTELAK 02-64-35-05H (214'FNL & 1346'FWL,SEC.2) (RKB)	:TVD REFERENCE POINT
LCLREFPT	.	Slot	:LOCAL COORDINATE REFERENCE PT
VSAZIMUTH	.deg	1.07	:VERTICAL SECTION AZIMUTH
VSORIGN	.ft	0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE	.ft	0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

#MNE	UNITS	DESCRIPTION
DEPT	.ft	:MEASURED DEPTH
INC	.deg	:INCLINATION
AZI	.deg	:AZIMUTH
TVD	.ft	:TRUE VERTICAL DEPTH
SECT	.ft	:CROSS SECTION (CURTAIN/VERTICAL)
LOCALN	.ft	:LOCAL NORTH

VERDAD_PASTELAK_02-64-35-05H__CODELL__REV-A.0__PWP_03-03-17.1as

LOCALE .ft :LOCAL EAST
LAT .deg :LATITUDE
LONG .deg :LONGITUDE
DLS .deg/100ft :DOGLEG SEVERITY

~ASCII DATA

0.00	0.00	82.31	0.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
16.00	0.00	82.31	16.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
116.00	0.00	82.31	116.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
216.00	0.00	82.31	216.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
316.00	0.00	82.31	316.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
400.00	0.00	82.31	400.00	0.00	0.00	0.00	40.0870600	-104.5229900	0.00
416.00	0.32	82.31	416.00	0.01	0.01	0.04	40.0870600	-104.5229898	2.00
516.00	2.32	82.31	515.97	0.36	0.31	2.33	40.0870609	-104.5229817	2.00
530.51	2.61	82.31	530.47	0.45	0.40	2.95	40.0870611	-104.5229795	2.00
616.00	2.61	82.31	615.87	1.05	0.92	6.80	40.0870625	-104.5229657	0.00
716.00	2.61	82.31	715.76	1.74	1.53	11.32	40.0870642	-104.5229496	0.00
816.00	2.61	82.31	815.66	2.43	2.14	15.83	40.0870659	-104.5229334	0.00
916.00	2.61	82.31	915.55	3.13	2.75	20.34	40.0870675	-104.5229173	0.00
1016.00	2.61	82.31	1015.45	3.82	3.36	24.86	40.0870692	-104.5229012	0.00
1116.00	2.61	82.31	1115.35	4.52	3.97	29.37	40.0870709	-104.5228850	0.00
1216.00	2.61	82.31	1215.24	5.21	4.58	33.88	40.0870726	-104.5228689	0.00
1316.00	2.61	82.31	1315.14	5.91	5.19	38.40	40.0870742	-104.5228528	0.00
1416.00	2.61	82.31	1415.04	6.60	5.80	42.91	40.0870759	-104.5228366	0.00
1516.00	2.61	82.31	1514.93	7.29	6.41	47.42	40.0870776	-104.5228205	0.00
1616.00	2.61	82.31	1614.83	7.99	7.02	51.94	40.0870793	-104.5228044	0.00
1716.00	2.61	82.31	1714.72	8.68	7.63	56.45	40.0870809	-104.5227883	0.00
1816.00	2.61	82.31	1814.62	9.38	8.24	60.96	40.0870826	-104.5227721	0.00
1916.00	2.61	82.31	1914.52	10.07	8.85	65.48	40.0870843	-104.5227560	0.00
2016.00	2.61	82.31	2014.41	10.76	9.46	69.99	40.0870860	-104.5227399	0.00
2116.00	2.61	82.31	2114.31	11.46	10.07	74.50	40.0870876	-104.5227237	0.00
2216.00	2.61	82.31	2214.21	12.15	10.68	79.01	40.0870893	-104.5227076	0.00
2316.00	2.61	82.31	2314.10	12.85	11.29	83.53	40.0870910	-104.5226915	0.00
2416.00	2.61	82.31	2414.00	13.54	11.90	88.04	40.0870927	-104.5226754	0.00
2516.00	2.61	82.31	2513.89	14.23	12.51	92.55	40.0870943	-104.5226592	0.00
2616.00	2.61	82.31	2613.79	14.93	13.12	97.07	40.0870960	-104.5226431	0.00
2716.00	2.61	82.31	2713.69	15.62	13.73	101.58	40.0870977	-104.5226270	0.00
2816.00	2.61	82.31	2813.58	16.32	14.34	106.09	40.0870994	-104.5226108	0.00
2916.00	2.61	82.31	2913.48	17.01	14.95	110.61	40.0871010	-104.5225947	0.00
3016.00	2.61	82.31	3013.38	17.70	15.56	115.12	40.0871027	-104.5225786	0.00
3116.00	2.61	82.31	3113.27	18.40	16.17	119.63	40.0871044	-104.5225624	0.00
3216.00	2.61	82.31	3213.17	19.09	16.78	124.15	40.0871060	-104.5225463	0.00
3316.00	2.61	82.31	3313.06	19.79	17.38	128.66	40.0871077	-104.5225302	0.00
3416.00	2.61	82.31	3412.96	20.48	17.99	133.17	40.0871094	-104.5225141	0.00
3516.00	2.61	82.31	3512.86	21.18	18.60	137.69	40.0871111	-104.5224979	0.00
3616.00	2.61	82.31	3612.75	21.87	19.21	142.20	40.0871127	-104.5224818	0.00
3716.00	2.61	82.31	3712.65	22.56	19.82	146.71	40.0871144	-104.5224657	0.00
3816.00	2.61	82.31	3812.55	23.26	20.43	151.23	40.0871161	-104.5224495	0.00

VERDAD_PASTELAK_02-64-35-05H_CODELL_REV-A.0_PWP_03-03-17.1as

3916.00	2.61	82.31	3912.44	23.95	21.04	155.74	40.0871178	-104.5224334	0.00
4016.00	2.61	82.31	4012.34	24.65	21.65	160.25	40.0871194	-104.5224173	0.00
4116.00	2.61	82.31	4112.23	25.34	22.26	164.77	40.0871211	-104.5224011	0.00
4216.00	2.61	82.31	4212.13	26.03	22.87	169.28	40.0871228	-104.5223850	0.00
4316.00	2.61	82.31	4312.03	26.73	23.48	173.79	40.0871245	-104.5223689	0.00
4416.00	2.61	82.31	4411.92	27.42	24.09	178.31	40.0871261	-104.5223528	0.00
4516.00	2.61	82.31	4511.82	28.12	24.70	182.82	40.0871278	-104.5223366	0.00
4616.00	2.61	82.31	4611.72	28.81	25.31	187.33	40.0871295	-104.5223205	0.00
4716.00	2.61	82.31	4711.61	29.50	25.92	191.84	40.0871312	-104.5223044	0.00
4816.00	2.61	82.31	4811.51	30.20	26.53	196.36	40.0871328	-104.5222882	0.00
4916.00	2.61	82.31	4911.40	30.89	27.14	200.87	40.0871345	-104.5222721	0.00
5016.00	2.61	82.31	5011.30	31.59	27.75	205.38	40.0871362	-104.5222560	0.00
5116.00	2.61	82.31	5111.20	32.28	28.36	209.90	40.0871379	-104.5222398	0.00
5216.00	2.61	82.31	5211.09	32.97	28.97	214.41	40.0871395	-104.5222237	0.00
5316.00	2.61	82.31	5310.99	33.67	29.58	218.92	40.0871412	-104.5222076	0.00
5416.00	2.61	82.31	5410.89	34.36	30.19	223.44	40.0871429	-104.5221915	0.00
5516.00	2.61	82.31	5510.78	35.06	30.80	227.95	40.0871445	-104.5221753	0.00
5616.00	2.61	82.31	5610.68	35.75	31.41	232.46	40.0871462	-104.5221592	0.00
5716.00	2.61	82.31	5710.57	36.45	32.02	236.98	40.0871479	-104.5221431	0.00
5816.00	2.61	82.31	5810.47	37.14	32.63	241.49	40.0871496	-104.5221269	0.00
5916.00	2.61	82.31	5910.37	37.83	33.24	246.00	40.0871512	-104.5221108	0.00
6016.00	2.61	82.31	6010.26	38.53	33.85	250.52	40.0871529	-104.5220947	0.00
6116.00	2.61	82.31	6110.16	39.22	34.46	255.03	40.0871546	-104.5220786	0.00
6216.00	2.61	82.31	6210.06	39.92	35.07	259.54	40.0871563	-104.5220624	0.00
6316.00	2.61	82.31	6309.95	40.61	35.68	264.06	40.0871579	-104.5220463	0.00
6416.00	2.61	82.31	6409.85	41.30	36.29	268.57	40.0871596	-104.5220302	0.00
6516.00	2.61	82.31	6509.74	42.00	36.90	273.08	40.0871613	-104.5220140	0.00
6530.05	2.61	82.31	6523.78	42.10	36.99	273.72	40.0871615	-104.5220118	0.00
6616.00	8.48	17.40	6609.35	48.48	43.30	277.56	40.0871789	-104.5219980	9.00
6716.00	17.26	8.10	6706.75	70.32	65.07	281.86	40.0872386	-104.5219827	9.00
6816.00	26.19	5.01	6799.55	107.14	101.82	285.89	40.0873395	-104.5219683	9.00
6916.00	35.16	3.42	6885.47	158.03	152.65	289.54	40.0874790	-104.5219552	9.00
7016.00	44.13	2.41	6962.40	221.74	216.30	292.73	40.0876538	-104.5219438	9.00
7116.00	53.12	1.68	7028.43	296.69	291.22	295.37	40.0878594	-104.5219344	9.00
7216.00	62.10	1.11	7081.94	381.04	375.55	297.40	40.0880909	-104.5219271	9.00
7316.00	71.09	0.63	7121.62	472.72	467.22	298.78	40.0883425	-104.5219222	9.00
7416.00	80.08	0.19	7146.48	569.47	563.97	299.46	40.0886081	-104.5219197	9.00
7516.00	89.07	359.78	7155.92	668.90	663.42	299.43	40.0888811	-104.5219198	9.00
7527.23	90.08	359.74	7156.00	680.13	674.65	299.39	40.0889119	-104.5219200	9.00
7616.00	90.08	359.74	7155.87	768.88	763.42	298.97	40.0891556	-104.5219215	0.00
7716.00	90.08	359.74	7155.72	868.85	863.42	298.51	40.0894301	-104.5219231	0.00
7816.00	90.08	359.74	7155.58	968.82	963.42	298.05	40.0897046	-104.5219248	0.00
7916.00	90.08	359.74	7155.43	1068.79	1063.42	297.59	40.0899791	-104.5219264	0.00
8016.00	90.08	359.74	7155.28	1168.77	1163.42	297.12	40.0902536	-104.5219281	0.00
8116.00	90.08	359.74	7155.14	1268.74	1263.41	296.66	40.0905281	-104.5219297	0.00
8216.00	90.08	359.74	7154.99	1368.71	1363.41	296.20	40.0908026	-104.5219314	0.00
8316.00	90.08	359.74	7154.85	1468.68	1463.41	295.73	40.0910771	-104.5219330	0.00
8416.00	90.08	359.74	7154.70	1568.66	1563.41	295.27	40.0913516	-104.5219347	0.00

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8516.00	90.08	359.74	7154.55	1668.63	1663.41	294.81	40.0916261	-104.5219363	0.00
8616.00	90.08	359.74	7154.41	1768.60	1763.41	294.34	40.0919006	-104.5219380	0.00
8716.00	90.08	359.74	7154.26	1868.58	1863.41	293.88	40.0921751	-104.5219396	0.00
8816.00	90.08	359.74	7154.11	1968.55	1963.41	293.42	40.0924496	-104.5219413	0.00
8916.00	90.08	359.74	7153.97	2068.52	2063.40	292.95	40.0927241	-104.5219429	0.00
9016.00	90.08	359.74	7153.82	2168.49	2163.40	292.49	40.0929986	-104.5219446	0.00
9116.00	90.08	359.74	7153.67	2268.47	2263.40	292.03	40.0932731	-104.5219462	0.00
9216.00	90.08	359.74	7153.53	2368.44	2363.40	291.56	40.0935476	-104.5219479	0.00
9316.00	90.08	359.74	7153.38	2468.41	2463.40	291.10	40.0938221	-104.5219495	0.00
9416.00	90.08	359.74	7153.23	2568.38	2563.40	290.64	40.0940966	-104.5219512	0.00
9516.00	90.08	359.74	7153.09	2668.36	2663.40	290.18	40.0943711	-104.5219528	0.00
9616.00	90.08	359.74	7152.94	2768.33	2763.40	289.71	40.0946456	-104.5219545	0.00
9716.00	90.08	359.74	7152.80	2868.30	2863.40	289.25	40.0949201	-104.5219561	0.00
9816.00	90.08	359.74	7152.65	2968.27	2963.39	288.79	40.0951947	-104.5219578	0.00
9916.00	90.08	359.74	7152.50	3068.25	3063.39	288.32	40.0954692	-104.5219594	0.00
10016.00	90.08	359.74	7152.36	3168.22	3163.39	287.86	40.0957437	-104.5219611	0.00
10116.00	90.08	359.74	7152.21	3268.19	3263.39	287.40	40.0960182	-104.5219627	0.00
10216.00	90.08	359.74	7152.06	3368.17	3363.39	286.93	40.0962927	-104.5219644	0.00
10316.00	90.08	359.74	7151.92	3468.14	3463.39	286.47	40.0965672	-104.5219660	0.00
10416.00	90.08	359.74	7151.77	3568.11	3563.39	286.01	40.0968417	-104.5219677	0.00
10516.00	90.08	359.74	7151.62	3668.08	3663.39	285.54	40.0971162	-104.5219693	0.00
10616.00	90.08	359.74	7151.48	3768.06	3763.38	285.08	40.0973907	-104.5219710	0.00
10716.00	90.08	359.74	7151.33	3868.03	3863.38	284.62	40.0976652	-104.5219726	0.00
10816.00	90.08	359.74	7151.18	3968.00	3963.38	284.16	40.0979397	-104.5219743	0.00
10916.00	90.08	359.74	7151.04	4067.97	4063.38	283.69	40.0982142	-104.5219760	0.00
11016.00	90.08	359.74	7150.89	4167.95	4163.38	283.23	40.0984887	-104.5219776	0.00
11116.00	90.08	359.74	7150.75	4267.92	4263.38	282.77	40.0987632	-104.5219793	0.00
11216.00	90.08	359.74	7150.60	4367.89	4363.38	282.30	40.0990377	-104.5219809	0.00
11316.00	90.08	359.74	7150.45	4467.87	4463.38	281.84	40.0993122	-104.5219826	0.00
11416.00	90.08	359.74	7150.31	4567.84	4563.38	281.38	40.0995867	-104.5219842	0.00
11516.00	90.08	359.74	7150.16	4667.81	4663.37	280.91	40.0998612	-104.5219859	0.00
11616.00	90.08	359.74	7150.01	4767.78	4763.37	280.45	40.1001357	-104.5219875	0.00
11716.00	90.08	359.74	7149.87	4867.76	4863.37	279.99	40.1004102	-104.5219892	0.00
11816.00	90.08	359.74	7149.72	4967.73	4963.37	279.52	40.1006847	-104.5219908	0.00
11916.00	90.08	359.74	7149.57	5067.70	5063.37	279.06	40.1009592	-104.5219925	0.00
12016.00	90.08	359.74	7149.43	5167.67	5163.37	278.60	40.1012337	-104.5219941	0.00
12116.00	90.08	359.74	7149.28	5267.65	5263.37	278.13	40.1015082	-104.5219958	0.00
12216.00	90.08	359.74	7149.13	5367.62	5363.37	277.67	40.1017827	-104.5219974	0.00
12316.00	90.08	359.74	7148.99	5467.59	5463.36	277.21	40.1020572	-104.5219991	0.00
12416.00	90.08	359.74	7148.84	5567.56	5563.36	276.75	40.1023317	-104.5220007	0.00
12516.00	90.08	359.74	7148.70	5667.54	5663.36	276.28	40.1026062	-104.5220024	0.00
12616.00	90.08	359.74	7148.55	5767.51	5763.36	275.82	40.1028807	-104.5220040	0.00
12716.00	90.08	359.74	7148.40	5867.48	5863.36	275.36	40.1031552	-104.5220057	0.00
12816.00	90.08	359.74	7148.26	5967.46	5963.36	274.89	40.1034297	-104.5220073	0.00
12916.00	90.08	359.74	7148.11	6067.43	6063.36	274.43	40.1037042	-104.5220090	0.00
13016.00	90.08	359.74	7147.96	6167.40	6163.36	273.97	40.1039787	-104.5220106	0.00
13116.00	90.08	359.74	7147.82	6267.37	6263.36	273.50	40.1042532	-104.5220123	0.00
13216.00	90.08	359.74	7147.67	6367.35	6363.35	273.04	40.1045277	-104.5220139	0.00

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13316.00	90.08	359.74	7147.52	6467.32	6463.35	272.58	40.1048022	-104.5220156	0.00
13416.00	90.08	359.74	7147.38	6567.29	6563.35	272.11	40.1050767	-104.5220172	0.00
13516.00	90.08	359.74	7147.23	6667.26	6663.35	271.65	40.1053512	-104.5220189	0.00
13616.00	90.08	359.74	7147.09	6767.24	6763.35	271.19	40.1056257	-104.5220205	0.00
13716.00	90.08	359.74	7146.94	6867.21	6863.35	270.72	40.1059002	-104.5220222	0.00
13816.00	90.08	359.74	7146.79	6967.18	6963.35	270.26	40.1061747	-104.5220238	0.00
13916.00	90.08	359.74	7146.65	7067.16	7063.35	269.80	40.1064492	-104.5220255	0.00
14016.00	90.08	359.74	7146.50	7167.13	7163.34	269.34	40.1067237	-104.5220271	0.00
14116.00	90.08	359.74	7146.35	7267.10	7263.34	268.87	40.1069982	-104.5220288	0.00
14216.00	90.08	359.74	7146.21	7367.07	7363.34	268.41	40.1072727	-104.5220305	0.00
14316.00	90.08	359.74	7146.06	7467.05	7463.34	267.95	40.1075472	-104.5220321	0.00
14416.00	90.08	359.74	7145.91	7567.02	7563.34	267.48	40.1078217	-104.5220338	0.00
14516.00	90.08	359.74	7145.77	7666.99	7663.34	267.02	40.1080962	-104.5220354	0.00
14616.00	90.08	359.74	7145.62	7766.96	7763.34	266.56	40.1083707	-104.5220371	0.00
14716.00	90.08	359.74	7145.47	7866.94	7863.34	266.09	40.1086452	-104.5220387	0.00
14816.00	90.08	359.74	7145.33	7966.91	7963.34	265.63	40.1089197	-104.5220404	0.00
14916.00	90.08	359.74	7145.18	8066.88	8063.33	265.17	40.1091942	-104.5220420	0.00
15016.00	90.08	359.74	7145.04	8166.85	8163.33	264.70	40.1094687	-104.5220437	0.00
15116.00	90.08	359.74	7144.89	8266.83	8263.33	264.24	40.1097432	-104.5220453	0.00
15216.00	90.08	359.74	7144.74	8366.80	8363.33	263.78	40.1100177	-104.5220470	0.00
15316.00	90.08	359.74	7144.60	8466.77	8463.33	263.31	40.1102922	-104.5220486	0.00
15416.00	90.08	359.74	7144.45	8566.75	8563.33	262.85	40.1105667	-104.5220503	0.00
15516.00	90.08	359.74	7144.30	8666.72	8663.33	262.39	40.1108412	-104.5220519	0.00
15616.00	90.08	359.74	7144.16	8766.69	8763.33	261.93	40.1111157	-104.5220536	0.00
15716.00	90.08	359.74	7144.01	8866.66	8863.32	261.46	40.1113902	-104.5220552	0.00
15816.00	90.08	359.74	7143.86	8966.64	8963.32	261.00	40.1116647	-104.5220569	0.00
15916.00	90.08	359.74	7143.72	9066.61	9063.32	260.54	40.1119392	-104.5220585	0.00
16016.00	90.08	359.74	7143.57	9166.58	9163.32	260.07	40.1122137	-104.5220602	0.00
16116.00	90.08	359.74	7143.42	9266.55	9263.32	259.61	40.1124882	-104.5220618	0.00
16216.00	90.08	359.74	7143.28	9366.53	9363.32	259.15	40.1127627	-104.5220635	0.00
16316.00	90.08	359.74	7143.13	9466.50	9463.32	258.68	40.1130372	-104.5220651	0.00
16416.00	90.08	359.74	7142.99	9566.47	9563.32	258.22	40.1133117	-104.5220668	0.00
16516.00	90.08	359.74	7142.84	9666.45	9663.32	257.76	40.1135862	-104.5220684	0.00
16616.00	90.08	359.74	7142.69	9766.42	9763.31	257.29	40.1138607	-104.5220701	0.00
16716.00	90.08	359.74	7142.55	9866.39	9863.31	256.83	40.1141352	-104.5220717	0.00
16816.00	90.08	359.74	7142.40	9966.36	9963.31	256.37	40.1144097	-104.5220734	0.00
16916.00	90.08	359.74	7142.25	10066.34	10063.31	255.90	40.1146842	-104.5220751	0.00
17016.00	90.08	359.74	7142.11	10166.31	10163.31	255.44	40.1149587	-104.5220767	0.00
17116.00	90.08	359.74	7141.96	10266.28	10263.31	254.98	40.1152332	-104.5220784	0.00
17216.00	90.08	359.74	7141.81	10366.25	10363.31	254.52	40.1155077	-104.5220800	0.00
17316.00	90.08	359.74	7141.67	10466.23	10463.31	254.05	40.1157822	-104.5220817	0.00
17416.00	90.08	359.74	7141.52	10566.20	10563.30	253.59	40.1160567	-104.5220833	0.00
17516.00	90.08	359.74	7141.38	10666.17	10663.30	253.13	40.1163312	-104.5220850	0.00
17616.00	90.08	359.74	7141.23	10766.14	10763.30	252.66	40.1166057	-104.5220866	0.00
17716.00	90.08	359.74	7141.08	10866.12	10863.30	252.20	40.1168802	-104.5220883	0.00
17816.00	90.08	359.74	7140.94	10966.09	10963.30	251.74	40.1171547	-104.5220899	0.00
17916.00	90.08	359.74	7140.79	11066.06	11063.30	251.27	40.1174292	-104.5220916	0.00
18016.00	90.08	359.74	7140.64	11166.04	11163.30	250.81	40.1177037	-104.5220932	0.00

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18116.00	90.08	359.74	7140.50	11266.01	11263.30	250.35	40.1179782	-104.5220949	0.00
18216.00	90.08	359.74	7140.35	11365.98	11363.30	249.88	40.1182527	-104.5220965	0.00
18316.00	90.08	359.74	7140.20	11465.95	11463.29	249.42	40.1185272	-104.5220982	0.00
18416.00	90.08	359.74	7140.06	11565.93	11563.29	248.96	40.1188017	-104.5220998	0.00
18516.00	90.08	359.74	7139.91	11665.90	11663.29	248.50	40.1190762	-104.5221015	0.00
18616.00	90.08	359.74	7139.76	11765.87	11763.29	248.03	40.1193507	-104.5221031	0.00
18716.00	90.08	359.74	7139.62	11865.84	11863.29	247.57	40.1196252	-104.5221048	0.00
18816.00	90.08	359.74	7139.47	11965.82	11963.29	247.11	40.1198997	-104.5221064	0.00
18916.00	90.08	359.74	7139.33	12065.79	12063.29	246.64	40.1201742	-104.5221081	0.00
19016.00	90.08	359.74	7139.18	12165.76	12163.29	246.18	40.1204487	-104.5221098	0.00
19116.00	90.08	359.74	7139.03	12265.74	12263.28	245.72	40.1207232	-104.5221114	0.00
19216.00	90.08	359.74	7138.89	12365.71	12363.28	245.25	40.1209977	-104.5221131	0.00
19316.00	90.08	359.74	7138.74	12465.68	12463.28	244.79	40.1212722	-104.5221147	0.00
19416.00	90.08	359.74	7138.59	12565.65	12563.28	244.33	40.1215467	-104.5221164	0.00
19516.00	90.08	359.74	7138.45	12665.63	12663.28	243.86	40.1218212	-104.5221180	0.00
19616.00	90.08	359.74	7138.30	12765.60	12763.28	243.40	40.1220957	-104.5221197	0.00
19716.00	90.08	359.74	7138.15	12865.57	12863.28	242.94	40.1223702	-104.5221213	0.00
19816.00	90.08	359.74	7138.01	12965.54	12963.28	242.47	40.1226447	-104.5221230	0.00
19821.16	90.08	359.74	7138.00	12970.70	12968.43	242.45	40.1226589	-104.5221231	0.00