

HOBBS OCD

AUG 05 2011

Results of Directional Survey

RECEIVED

API number:	30-005-29172		
OGRID:		Operator:	YATES PETROLEUM CORPORATION
		Property:	SCOOTER BPS FEDERAL # 1H

surface	ULSTR:	A	28	T	15S	R	31E
				770	FNL	200	FEL

BH Loc	ULSTR:	D	28	T	15S	R	31E
13330	MD	8744.3	TVD	398	FNL	4928	FEL
						362	FWL

Top Perf/OH	ULSTR:	A	28	T	15S	R	31E
9500	MD	8826.4	TVD	694	FNL	1111	FEL

Bot Perf/OH	ULSTR:	D	28	T	15S	R	31E
13246	MD	8745.7	TVD	401	FNL	4844	FEL
						436	FWL

	MD	N/S	E/W	VD
	9477	74.80	-887.83	8826.2
TOP PERFS/OH	9500	76.48	-910.77	8826.40
	9509	77.14	-919.74	8826.48
	13195	365.13	-4593.11	8747.98
BOT PERFS/OH	13246	369.35	-4643.89	8745.72
	13259	370.43	-4656.83	8745.14

NEXT TO LAST	13259	370.43	-4656.83	8745.14
LAST READING	13330	371.82	-4727.51	8744.34
TD	13330	371.82	-4727.51	8744.34

Surface Location	770	FN	200	FE
Projected BHL	398	FN	4928	FE
Location of				
Top Perfs/OH	694	FN	1111	FE
Bottom Perfs/OH	401	FN	4844	FE

SUMMARY of Subsurface Locations

Surface Location	A-28-15S-31E	770	FN	200	FE	Vert. Depth
Top Perfs/OH	A-28-15S-31E	694	FN	1111	FE	8826.40
Bottom Perfs/OH	D-28-15S-31E	401	FN	4844	FE	8745.72
Projected TD	D-28-15S-31E	398	FN	4928	FE	8744.34

AUG 08 2011

OPERATOR
WELL/LEASE
COUNTY

Yates Petroleum Corporation
Scooter BPS FED # 1 H
Chaves

HOBBS OCD

JUL 18

STATE OF NEW MEXICO
DEVIATION REPORT

RECEIVED

249	0.25
564	0.44
854	0.25
1,330	0.62
1,806	0.62
2,284	1.00
2,537	0.89
3,015	0.23
3,491	0.26
4,027	0.39
4,253	0.25
4,729	0.47
5,207	0.76
5,685	0.62
6,162	0.83
6,638	0.93
7,115	0.68
7,624	1.17
8,102	1.05
8,578	2.32
8,705	1.91
8,958	0.32
9,373	0.92
9,849	0.17

HOBBS OCD

JUL 18 2011

RECEIVED

SUR @ A-28-15s-31e, 770/N & 200/E
BHL @ D-28-15s-31e, 398/N & 4928/E
API # 30-005-29172

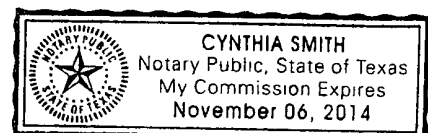
STATE OF TEXAS

COUNTY OF MIDLAND

BY. Steve Moore

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTL Drilling Company LLC.

Cynthia Smith
Notary Public for Midland County, Texas
My Commission Expires.



AUG 08 2011



Yates Petroleum Corporation

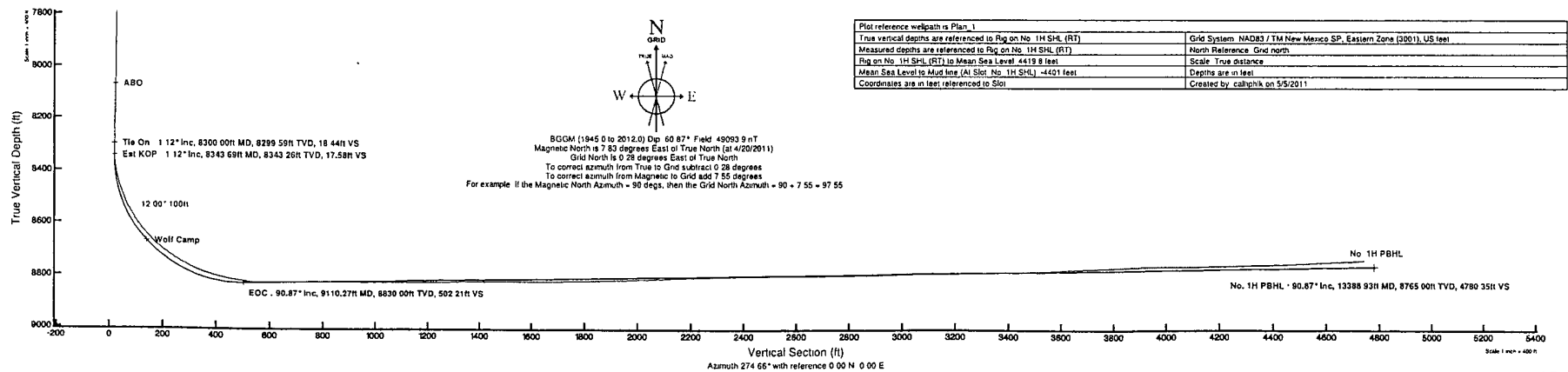
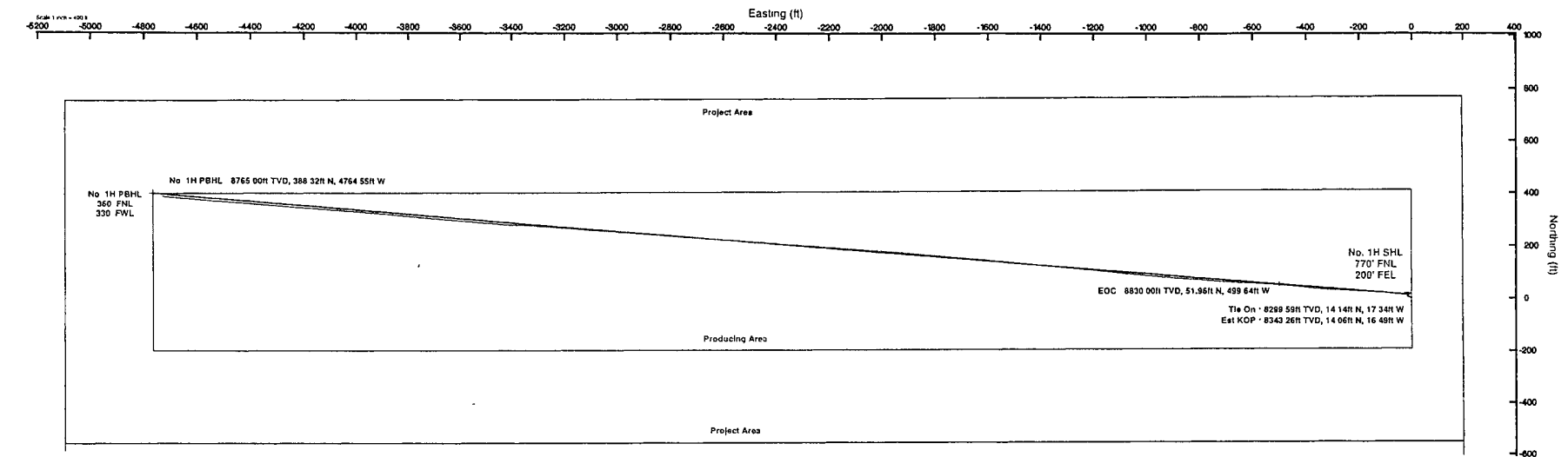
Location: Chaves County, NM
Field: (Scooter) Sec 28, T15S, R31E
Facility: Scooter BPS Fed No 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	8300.00	1.120	95.690	8299.59	14.14	-17.34	0.00	18.44
Est KOP	8343.69	1.120	95.690	8343.26	14.06	-16.49	0.00	17.58
EOC	9110.27	90.870	274.509	8830.00	51.96	-499.64	12.00	502.21
No. 1H PBHL	13388.93	90.870	274.509	8765.00	388.32	-4764.55	0.00	4780.35



SUR @ A-28-15s-31e, 770/N & 200/E
BHL @ D-28-15s-31e, 398/N & 4928/E
API # 30-005-29172



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWB
Facility	Scooter BPS Fed No 1H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Calhphik
Scale	0.999938	Report Generated	5/9/2011 at 8:58:21 AM
Convergence at slot	0.28° East	Database/Source file	WA Midland/No. 1H_AWB.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	699087.51	725006.42	32°59'31.149"N	103°49'07.785"W
Facility Reference Pt			699087.51	725006.42	32°59'31.149"N	103°49'07.785"W
Field Reference Pt			699087.51	725006.42	32°59'31.149"N	103°49'07.785"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to GL	18.80ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (RT) to Mean Sea Level	4419.80ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Rig on No. 1H SHL (RT) to Mud Line at Slot (No. 1H SHL)	18.80ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	274.66°



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWP
Facility	Scooter BPS Fed No 1H		

WELLPATH DATA (183 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.00	15.000	0.00	0.00	0.00	0.00	699087.51	725006.42	32°59'31.149"N	103°49'07.785"W	0.00	
18.80	0.000	15.000	18.80	0.00	0.00	0.00	699087.51	725006.42	32°59'31.149"N	103°49'07.785"W	0.00	
100.00	0.300	15.000	100.00	-0.04	0.21	0.06	699087.57	725006.63	32°59'31.151"N	103°49'07.785"W	0.37	
200.00	0.100	143.910	200.00	-0.14	0.39	0.17	699087.68	725006.81	32°59'31.153"N	103°49'07.783"W	0.37	
300.00	0.260	258.150	300.00	0.02	0.27	0.00	699087.51	725006.69	32°59'31.152"N	103°49'07.785"W	0.31	
400.00	0.280	255.570	400.00	0.47	0.16	-0.46	699087.05	725006.58	32°59'31.151"N	103°49'07.791"W	0.02	
500.00	0.170	262.710	500.00	0.84	0.08	-0.84	699086.67	725006.50	32°59'31.150"N	103°49'07.795"W	0.11	
600.00	0.300	307.240	600.00	1.21	0.22	-1.19	699086.32	725006.64	32°59'31.152"N	103°49'07.799"W	0.21	
700.00	0.580	288.380	699.99	1.92	0.54	-1.88	699085.63	725006.96	32°59'31.155"N	103°49'07.807"W	0.31	
800.00	0.720	281.010	799.99	3.04	0.82	-2.98	699084.53	725007.24	32°59'31.158"N	103°49'07.820"W	0.16	
900.00	0.670	276.510	899.98	4.25	1.01	-4.18	699083.33	725007.43	32°59'31.159"N	103°49'07.834"W	0.07	
1000.00	0.750	283.090	999.97	5.48	1.22	-5.40	699082.11	725007.64	32°59'31.162"N	103°49'07.849"W	0.11	
1100.00	0.870	283.730	1099.96	6.87	1.55	-6.77	699080.74	725007.97	32°59'31.165"N	103°49'07.865"W	0.12	
1200.00	0.950	284.950	1199.95	8.44	1.94	-8.31	699079.20	725008.36	32°59'31.169"N	103°49'07.883"W	0.08	
1300.00	0.870	285.310	1299.94	10.00	2.36	-9.84	699077.67	725008.78	32°59'31.173"N	103°49'07.901"W	0.08	
1400.00	0.940	319.000	1399.92	11.33	3.18	-11.11	699076.40	725009.60	32°59'31.181"N	103°49'07.916"W	0.53	
1500.00	1.020	329.520	1499.91	12.43	4.56	-12.10	699075.41	725010.98	32°59'31.195"N	103°49'07.927"W	0.20	
1600.00	0.940	338.300	1599.90	13.31	6.09	-12.86	699074.65	725012.51	32°59'31.210"N	103°49'07.936"W	0.17	
1700.00	0.860	342.270	1699.88	13.96	7.57	-13.39	699074.12	725013.99	32°59'31.225"N	103°49'07.942"W	0.10	
1800.00	0.720	352.580	1799.87	14.38	8.91	-13.70	699073.81	725015.33	32°59'31.238"N	103°49'07.946"W	0.20	
1900.00	0.720	6.720	1899.87	14.49	10.15	-13.71	699073.80	725016.57	32°59'31.250"N	103°49'07.946"W	0.18	
2000.00	0.660	19.430	1999.86	14.32	11.32	-13.44	699074.07	725017.74	32°59'31.262"N	103°49'07.943"W	0.16	
2100.00	0.690	36.020	2099.85	13.86	12.35	-12.90	699074.61	725018.77	32°59'31.272"N	103°49'07.936"W	0.20	
2200.00	0.940	52.320	2199.84	12.94	13.34	-11.89	699075.62	725019.76	32°59'31.282"N	103°49'07.924"W	0.34	
2300.00	0.930	56.270	2299.83	11.69	14.29	-10.57	699076.94	725020.71	32°59'31.291"N	103°49'07.909"W	0.07	
2400.00	0.980	62.750	2399.81	10.33	15.13	-9.13	699078.38	725021.55	32°59'31.300"N	103°49'07.892"W	0.12	
2500.00	0.730	72.690	2499.80	9.02	15.72	-7.77	699079.75	725022.13	32°59'31.305"N	103°49'07.876"W	0.29	
2600.00	0.580	81.910	2599.80	7.93	15.98	-6.66	699080.85	725022.40	32°59'31.308"N	103°49'07.863"W	0.18	
2700.00	0.490	81.310	2699.79	7.02	16.11	-5.73	699081.78	725022.53	32°59'31.309"N	103°49'07.852"W	0.09	
2800.00	0.380	75.510	2799.79	6.29	16.26	-4.99	699082.52	725022.68	32°59'31.310"N	103°49'07.843"W	0.12	
2900.00	0.220	76.190	2899.79	5.80	16.39	-4.48	699083.03	725022.81	32°59'31.312"N	103°49'07.837"W	0.16	
3000.00	0.280	61.520	2999.79	5.41	16.55	-4.08	699083.43	725022.97	32°59'31.313"N	103°49'07.832"W	0.09	
3100.00	0.260	69.530	3099.79	5.00	16.75	-3.65	699083.86	725023.17	32°59'31.315"N	103°49'07.827"W	0.04	
3200.00	0.240	63.840	3199.79	4.62	16.92	-3.25	699084.26	725023.34	32°59'31.317"N	103°49'07.823"W	0.03	
3300.00	0.150	133.240	3299.78	4.33	16.92	-2.97	699084.54	725023.34	32°59'31.317"N	103°49'07.819"W	0.23	
3400.00	0.150	127.910	3399.78	4.12	16.75	-2.77	699084.74	725023.17	32°59'31.315"N	103°49'07.817"W	0.01	
3500.00	0.140	161.250	3499.78	3.96	16.56	-2.63	699084.88	725022.97	32°59'31.313"N	103°49'07.815"W	0.08	
3600.00	0.270	137.000	3599.78	3.74	16.27	-2.43	699085.08	725022.69	32°59'31.310"N	103°49'07.813"W	0.15	
3700.00	0.280	108.990	3699.78	3.33	16.02	-2.04	699085.47	725022.43	32°59'31.308"N	103°49'07.808"W	0.13	
3800.00	0.230	152.930	3799.78	2.99	15.76	-1.71	699085.80	725022.18	32°59'31.305"N	103°49'07.805"W	0.20	
3900.00	0.240	213.380	3899.78	2.98	15.40	-1.74	699085.77	725021.82	32°59'31.302"N	103°49'07.805"W	0.24	
4000.00	0.340	275.190	3999.78	3.38	15.26	-2.15	699085.36	725021.67	32°59'31.300"N	103°49'07.810"W	0.31	
4100.00	0.330	275.680	4099.78	3.96	15.31	-2.73	699084.78	725021.73	32°59'31.301"N	103°49'07.817"W	0.01	
4200.00	0.420	289.950	4199.78	4.61	15.46	-3.36	699084.15	725021.88	32°59'31.302"N	103°49'07.824"W	0.13	
4300.00	0.420	281.770	4299.77	5.32	15.66	-4.06	699083.45	725022.08	32°59'31.305"N	103°49'07.832"W	0.06	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWP
Facility	Scooter BPS Fed No 1H		

WELLPATH DATA (183 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4400.00	0.290	294.240	4399.77	5.93	15.84	-4.65	699082.86	725022.26	32°59'31.306"N	103°49'07.839"W	0.15	
4500.00	0.220	296.940	4499.77	6.34	16.03	-5.06	699082.45	725022.45	32°59'31.308"N	103°49'07.844"W	0.07	
4600.00	0.280	39.900	4599.77	6.38	16.31	-5.07	699082.44	725022.73	32°59'31.311"N	103°49'07.844"W	0.39	
4700.00	0.220	307.660	4699.77	6.40	16.61	-5.07	699082.45	725023.03	32°59'31.314"N	103°49'07.844"W	0.36	
4800.00	0.130	335.280	4799.77	6.61	16.83	-5.26	699082.25	725023.25	32°59'31.316"N	103°49'07.846"W	0.12	
4900.00	0.110	277.520	4899.77	6.77	16.95	-5.41	699082.10	725023.37	32°59'31.317"N	103°49'07.848"W	0.12	
5000.00	0.200	295.290	4999.77	7.03	17.04	-5.66	699081.85	725023.45	32°59'31.318"N	103°49'07.851"W	0.10	
5100.00	0.390	295.880	5099.77	7.51	17.26	-6.12	699081.39	725023.68	32°59'31.320"N	103°49'07.856"W	0.19	
5200.00	0.400	310.180	5199.76	8.11	17.63	-6.70	699080.81	725024.05	32°59'31.324"N	103°49'07.863"W	0.10	
5300.00	0.460	307.040	5299.76	8.73	18.10	-7.28	699080.23	725024.52	32°59'31.329"N	103°49'07.870"W	0.06	
5400.00	0.430	308.230	5399.76	9.38	18.57	-7.90	699079.61	725024.99	32°59'31.333"N	103°49'07.877"W	0.03	
5500.00	0.360	279.760	5499.76	10.01	18.86	-8.50	699079.01	725025.28	32°59'31.336"N	103°49'07.884"W	0.21	
5600.00	0.380	262.030	5599.75	10.64	18.87	-9.14	699078.37	725025.29	32°59'31.336"N	103°49'07.892"W	0.12	
5700.00	0.440	263.520	5699.75	11.34	18.78	-9.85	699077.66	725025.20	32°59'31.336"N	103°49'07.900"W	0.06	
5800.00	0.440	269.520	5799.75	12.10	18.73	-10.62	699076.89	725025.15	32°59'31.335"N	103°49'07.909"W	0.05	
5900.00	0.450	272.790	5899.75	12.88	18.75	-11.39	699076.12	725025.17	32°59'31.335"N	103°49'07.918"W	0.03	
6000.00	0.550	275.920	5999.74	13.75	18.82	-12.26	699075.25	725025.23	32°59'31.336"N	103°49'07.928"W	0.10	
6100.00	0.650	284.040	6099.74	14.79	19.00	-13.29	699074.22	725025.42	32°59'31.338"N	103°49'07.940"W	0.13	
6200.00	0.660	286.340	6199.73	15.91	19.30	-14.39	699073.12	725025.72	32°59'31.341"N	103°49'07.953"W	0.03	
6300.00	0.640	282.330	6299.72	17.03	19.58	-15.49	699072.02	725026.00	32°59'31.344"N	103°49'07.966"W	0.05	
6400.00	0.570	282.660	6399.72	18.08	19.81	-16.52	699070.99	725026.23	32°59'31.346"N	103°49'07.978"W	0.07	
6500.00	0.680	275.190	6499.71	19.16	19.97	-17.60	699069.91	725026.39	32°59'31.348"N	103°49'07.991"W	0.13	
6600.00	0.590	259.780	6599.71	20.26	19.93	-18.70	699068.81	725026.35	32°59'31.347"N	103°49'08.004"W	0.19	
6700.00	0.760	262.410	6699.70	21.40	19.75	-19.86	699067.65	725026.17	32°59'31.346"N	103°49'08.017"W	0.17	
6800.00	0.650	251.050	6799.69	22.57	19.48	-21.06	699066.46	725025.90	32°59'31.343"N	103°49'08.031"W	0.13	
6900.00	0.680	253.560	6899.68	23.64	19.13	-22.16	699065.35	725025.55	32°59'31.340"N	103°49'08.044"W	0.04	
7000.00	0.630	243.600	6999.68	24.67	18.72	-23.22	699064.29	725025.14	32°59'31.336"N	103°49'08.057"W	0.12	
7100.00	0.620	249.540	7099.67	25.63	18.28	-24.22	699063.29	725024.70	32°59'31.331"N	103°49'08.069"W	0.07	
7200.00	0.530	240.240	7199.67	26.50	17.86	-25.13	699062.38	725024.28	32°59'31.327"N	103°49'08.079"W	0.13	
7300.00	0.570	252.440	7299.66	27.34	17.48	-26.01	699061.51	725023.90	32°59'31.324"N	103°49'08.090"W	0.12	
7400.00	0.470	242.800	7399.66	28.15	17.15	-26.85	699060.67	725023.57	32°59'31.320"N	103°49'08.100"W	0.13	
7500.00	0.160	180.730	7499.66	28.49	16.82	-27.21	699060.30	725023.24	32°59'31.317"N	103°49'08.104"W	0.42	
7600.00	0.480	112.220	7599.66	28.08	16.52	-26.83	699060.69	725022.94	32°59'31.314"N	103°49'08.099"W	0.45	
7700.00	0.730	100.580	7699.65	27.05	16.25	-25.81	699061.70	725022.67	32°59'31.311"N	103°49'08.087"W	0.28	
7800.00	0.800	106.560	7799.64	25.73	15.93	-24.52	699062.99	725022.35	32°59'31.308"N	103°49'08.072"W	0.31	
7900.00	0.780	99.290	7899.63	24.37	15.62	-23.18	699064.34	725022.04	32°59'31.305"N	103°49'08.057"W	0.10	
8000.00	0.800	108.590	7999.62	23.01	15.29	-21.84	699065.67	725021.71	32°59'31.302"N	103°49'08.041"W	0.13	
8100.00	0.730	103.270	8099.61	21.70	14.92	-20.56	699066.95	725021.34	32°59'31.298"N	103°49'08.026"W	0.10	
8200.00	0.980	108.280	8199.60	20.24	14.51	-19.13	699068.38	725020.92	32°59'31.294"N	103°49'08.009"W	0.26	
8300.00	1.120	95.690	8299.59	18.44	14.12	-17.34	699070.17	725020.56	32°59'31.290"N	103°49'07.988"W	0.27	
8311.00	0.400	114.400	8310.58	18.29	14.11	-17.20	699070.31	725020.53	32°59'31.290"N	103°49'07.987"W	6.84	
8342.00	1.800	266.300	8341.58	18.67	14.04	-17.59	699069.92	725020.46	32°59'31.289"N	103°49'07.991"W	6.97	
8374.00	5.900	272.300	8373.50	20.81	14.07	-19.74	699067.78	725020.49	32°59'31.290"N	103°49'08.016"W	12.86	
8406.00	10.300	270.100	8405.17	25.31	14.14	-24.24	699063.27	725020.56	32°59'31.290"N	103°49'08.069"W	13.78	
8438.00	14.600	269.400	8436.41	32.18	14.11	-31.14	699056.37	725020.52	32°59'31.290"N	103°49'08.150"W	13.45	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWP
Facility	Scooter BPS Fed No 1H		

WELLPATH DATA (183 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8470.00	18.600	271.700	8467.07	41.30	14.21	-40.28	699047.24	725020.63	32°59'31.292"N	103°49'08.257"W	12.67	
8502.00	21.200	274.600	8497.16	52.18	14.83	-51.15	699036.37	725021.25	32°59'31.299"N	103°49'08.385"W	8.69	
8533.00	23.900	277.200	8525.79	64.06	16.07	-62.97	699024.55	725022.49	32°59'31.311"N	103°49'08.524"W	9.28	
8565.00	28.200	277.300	8554.53	78.10	17.84	-76.90	699010.61	725024.26	32°59'31.330"N	103°49'08.687"W	13.44	
8597.00	32.100	275.000	8582.20	94.16	19.54	-92.88	698994.64	725025.96	32°59'31.347"N	103°49'08.875"W	12.91	
8629.00	35.400	273.900	8608.80	111.94	20.92	-110.60	698976.91	725027.33	32°59'31.362"N	103°49'09.083"W	10.49	
8661.00	38.500	273.500	8634.37	131.17	22.15	-129.80	698957.72	725028.57	32°59'31.375"N	103°49'09.308"W	9.72	
8693.00	42.600	272.700	8658.68	151.96	23.27	-150.56	698936.95	725029.69	32°59'31.387"N	103°49'09.552"W	12.91	
8724.00	47.200	272.800	8680.63	173.82	24.32	-172.42	698915.11	725030.74	32°59'31.398"N	103°49'09.808"W	14.84	
8756.00	51.600	273.600	8701.45	198.10	25.68	-196.67	698890.85	725032.10	32°59'31.413"N	103°49'10.093"W	13.88	
8788.00	54.800	272.800	8720.62	223.72	27.11	-222.25	698865.28	725033.53	32°59'31.428"N	103°49'10.393"W	10.20	
8820.00	57.400	272.700	8738.47	250.26	28.38	-248.78	698838.75	725034.80	32°59'31.442"N	103°49'10.704"W	8.13	
8851.00	60.100	272.900	8754.55	276.74	29.68	-275.24	698812.28	725036.10	32°59'31.456"N	103°49'11.015"W	8.73	
8883.00	64.900	273.100	8769.32	305.11	31.17	-303.58	698783.95	725037.58	32°59'31.472"N	103°49'11.348"W	15.01	
8915.00	69.200	274.200	8781.79	334.56	33.05	-332.98	698754.55	725039.46	32°59'31.492"N	103°49'11.693"W	13.81	
8947.00	72.400	274.100	8792.32	364.78	35.23	-363.12	698724.42	725041.65	32°59'31.515"N	103°49'12.046"W	10.00	
8969.00	73.600	276.100	8798.75	385.82	37.10	-384.07	698703.46	725043.52	32°59'31.535"N	103°49'12.292"W	10.26	
9001.00	76.600	276.800	8806.98	416.72	40.58	-414.80	698672.74	725047.00	32°59'31.571"N	103°49'12.653"W	9.61	
9033.00	78.800	275.800	8813.79	447.97	44.01	-445.87	698641.67	725050.43	32°59'31.606"N	103°49'13.017"W	7.52	
9064.00	81.500	274.900	8819.10	478.51	46.85	-476.28	698611.26	725053.27	32°59'31.636"N	103°49'13.374"W	19.17	
9096.00	83.500	274.100	8823.27	510.23	49.34	-507.90	698579.64	725055.76	32°59'31.662"N	103°49'13.745"W	6.72	
9128.00	86.200	273.400	8826.15	542.10	51.43	-539.70	698547.84	725057.84	32°59'31.684"N	103°49'14.119"W	8.71	
9160.00	89.400	273.500	8827.37	574.06	53.35	-571.62	698515.93	725059.77	32°59'31.705"N	103°49'14.493"W	10.00	
9191.00	91.300	273.000	8827.18	605.05	55.11	-602.56	698484.98	725061.52	32°59'31.724"N	103°49'14.856"W	6.34	
9223.00	91.400	272.800	8826.43	637.03	56.73	-634.51	698453.04	725063.14	32°59'31.741"N	103°49'15.232"W	0.70	
9255.00	91.600	273.300	8825.59	669.00	58.43	-666.46	698421.09	725064.85	32°59'31.760"N	103°49'15.606"W	1.68	
9287.00	90.500	273.800	8825.01	700.99	60.41	-698.39	698389.16	725066.83	32°59'31.781"N	103°49'15.981"W	3.78	
9318.00	90.500	274.500	8824.74	731.99	62.65	-729.31	698358.25	725069.07	32°59'31.804"N	103°49'16.344"W	2.26	
9382.00	89.400	274.500	8824.79	795.99	67.67	-793.11	698294.45	725074.09	32°59'31.857"N	103°49'17.093"W	1.72	
9414.00	88.900	274.300	8825.27	827.98	70.13	-825.01	698262.55	725076.54	32°59'31.883"N	103°49'17.467"W	1.68	
9477.00	89.400	274.200	8826.20	890.97	74.80	-887.83	698199.74	725081.21	32°59'31.932"N	103°49'18.204"W	0.81	
9509.00	89.600	274.200	8826.48	922.97	77.14	-919.74	698167.82	725083.56	32°59'31.957"N	103°49'18.579"W	0.62	
9573.00	89.700	275.200	8826.87	986.97	82.39	-983.53	698104.05	725088.80	32°59'32.012"N	103°49'19.328"W	1.57	
9636.00	89.800	275.200	8827.15	1049.97	88.09	-1046.27	698041.31	725094.51	32°59'32.071"N	103°49'20.064"W	0.16	
9700.00	90.000	275.600	8827.26	1113.96	94.12	-1109.98	697977.60	725100.53	32°59'32.134"N	103°49'20.812"W	0.70	
9764.00	90.600	275.600	8826.92	1177.95	100.36	-1173.68	697913.91	725106.78	32°59'32.199"N	103°49'21.559"W	0.94	
9827.00	90.900	275.600	8826.10	1240.94	106.51	-1236.37	697851.22	725112.92	32°59'32.263"N	103°49'22.295"W	0.48	
9891.00	91.100	275.500	8824.98	1304.92	112.70	-1300.06	697787.53	725119.11	32°59'32.327"N	103°49'23.042"W	0.35	
9954.00	90.600	275.500	8824.05	1367.91	118.74	-1362.76	697724.83	725125.15	32°59'32.390"N	103°49'23.778"W	0.79	
10018.00	90.700	275.800	8823.32	1431.89	125.04	-1426.45	697661.15	725131.45	32°59'32.455"N	103°49'24.525"W	0.49	
10081.00	90.700	275.300	8822.55	1494.88	131.13	-1489.15	697598.46	725137.54	32°59'32.518"N	103°49'25.261"W	0.79	
10145.00	90.000	275.300	8822.16	1558.87	137.04	-1552.87	697534.74	725143.45	32°59'32.580"N	103°49'26.009"W	1.09	
10208.00	89.900	275.100	8822.21	1621.87	142.75	-1615.61	697472.00	725149.16	32°59'32.639"N	103°49'26.745"W	0.35	
10272.00	90.900	274.800	8821.77	1685.87	148.27	-1679.37	697408.25	725154.68	32°59'32.697"N	103°49'27.493"W	1.63	
10335.00	90.900	274.900	8820.78	1748.86	153.60	-1742.14	697345.48	725160.01	32°59'32.753"N	103°49'28.230"W	0.16	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWP
Facility	Scooter BPS Fed No 1H		

WELLPATH DATA (183 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10399.00	91.200	274.900	8819.61	1812.85	159.06	-1805.89	697281.73	725165.47	32°59'32.810"N	103°49'28.978"W	0.47	
10463.00	91.600	275.200	8818.04	1876.83	164.70	-1869.63	697218.00	725171.11	32°59'32.869"N	103°49'29.726"W	0.78	
10526.00	91.300	274.700	8816.45	1939.81	170.13	-1932.37	697155.26	725176.54	32°59'32.925"N	103°49'30.462"W	0.93	
10590.00	91.100	273.900	8815.11	2003.79	174.93	-1996.18	697091.46	725181.34	32°59'32.976"N	103°49'31.211"W	1.29	
10653.00	91.900	274.100	8813.46	2066.76	179.32	-2059.00	697028.64	725185.73	32°59'33.022"N	103°49'31.948"W	1.31	
10717.00	92.000	274.100	8811.28	2130.72	183.89	-2122.80	696964.85	725190.30	32°59'33.071"N	103°49'32.697"W	0.16	
10780.00	92.000	274.000	8809.08	2193.68	188.34	-2185.61	696902.05	725194.75	32°59'33.118"N	103°49'33.434"W	0.16	
10843.00	92.200	274.100	8806.77	2256.64	192.79	-2248.41	696839.25	725199.20	32°59'33.165"N	103°49'34.171"W	0.35	
10907.00	91.100	274.000	8804.93	2320.60	197.31	-2312.22	696775.44	725203.71	32°59'33.212"N	103°49'34.920"W	1.73	
10970.00	90.900	274.000	8803.83	2383.59	201.70	-2375.06	696712.61	725208.11	32°59'33.259"N	103°49'35.658"W	0.32	
11034.00	91.000	274.200	8802.77	2447.58	206.28	-2438.88	696648.78	725212.68	32°59'33.307"N	103°49'36.407"W	0.35	
11097.00	90.800	274.000	8801.78	2510.57	210.78	-2501.71	696585.96	725217.19	32°59'33.355"N	103°49'37.144"W	0.45	
11161.00	90.500	273.700	8801.05	2574.56	215.08	-2565.56	696522.11	725221.48	32°59'33.400"N	103°49'37.894"W	0.66	
11225.00	90.300	274.000	8800.61	2638.55	219.37	-2629.42	696458.26	725225.78	32°59'33.446"N	103°49'38.643"W	0.56	
11288.00	90.800	274.100	8800.00	2701.54	223.82	-2692.26	696395.43	725230.23	32°59'33.493"N	103°49'39.381"W	0.81	
11352.00	91.100	274.500	8798.94	2765.53	228.62	-2756.07	696331.62	725235.03	32°59'33.543"N	103°49'40.130"W	0.78	
11416.00	91.100	274.300	8797.71	2829.52	233.53	-2819.87	696267.82	725239.93	32°59'33.595"N	103°49'40.878"W	0.31	
11479.00	91.200	274.300	8796.45	2892.51	238.25	-2882.68	696205.02	725244.66	32°59'33.645"N	103°49'41.615"W	0.16	
11543.00	91.100	274.300	8795.16	2956.49	243.05	-2946.49	696141.21	725249.45	32°59'33.695"N	103°49'42.364"W	0.16	
11606.00	91.200	274.400	8793.90	3019.48	247.83	-3009.29	696078.41	725254.23	32°59'33.745"N	103°49'43.101"W	0.22	
11670.00	91.300	273.800	8792.50	3083.46	252.40	-3073.11	696014.60	725258.81	32°59'33.794"N	103°49'43.850"W	0.95	
11733.00	90.700	273.900	8791.40	3146.44	256.63	-3135.96	695951.75	725263.04	32°59'33.839"N	103°49'44.588"W	0.97	
11797.00	90.600	274.500	8790.68	3210.44	261.32	-3199.78	695887.93	725267.72	32°59'33.888"N	103°49'45.337"W	0.95	
11861.00	91.700	273.600	8789.39	3274.42	265.84	-3263.61	695824.11	725272.24	32°59'33.936"N	103°49'46.086"W	2.22	
11924.00	92.100	273.200	8787.30	3337.37	269.57	-3326.46	695761.26	725275.97	32°59'33.976"N	103°49'46.824"W	0.90	
11988.00	91.000	272.500	8785.57	3401.31	272.75	-3390.36	695697.37	725279.16	32°59'34.010"N	103°49'47.574"W	2.04	
12052.00	91.800	274.600	8784.01	3465.28	276.71	-3454.21	695633.52	725283.12	32°59'34.052"N	103°49'48.323"W	3.51	
12115.00	92.500	274.100	8781.65	3528.23	281.49	-3516.99	695570.75	725287.89	32°59'34.103"N	103°49'49.060"W	1.37	
12179.00	92.700	274.400	8778.74	3592.16	286.23	-3580.75	695506.99	725292.63	32°59'34.152"N	103°49'49.808"W	0.56	
12242.00	92.500	274.500	8775.89	3655.10	291.11	-3643.49	695444.25	725297.51	32°59'34.204"N	103°49'50.545"W	0.35	
12306.00	92.700	274.400	8772.98	3719.03	296.07	-3707.23	695380.52	725302.47	32°59'34.256"N	103°49'51.293"W	0.35	
12370.00	92.000	275.100	8770.36	3782.98	301.37	-3770.96	695316.79	725307.77	32°59'34.311"N	103°49'52.041"W	1.55	
12434.00	91.900	275.000	8768.18	3846.94	307.00	-3834.67	695253.08	725313.40	32°59'34.370"N	103°49'52.788"W	0.22	
12497.00	92.200	274.600	8765.93	3909.90	312.26	-3897.41	695190.35	725318.66	32°59'34.425"N	103°49'53.525"W	0.79	
12561.00	90.400	274.300	8764.47	3973.88	317.23	-3961.20	695126.57	725323.63	32°59'34.477"N	103°49'54.273"W	2.85	
12624.00	90.200	274.200	8764.14	4036.88	321.90	-4024.03	695063.74	725328.30	32°59'34.526"N	103°49'55.011"W	0.35	
12688.00	91.000	273.900	8763.47	4100.87	326.42	-4087.86	694999.91	725332.82	32°59'34.574"N	103°49'55.760"W	1.33	
12751.00	90.900	274.200	8762.43	4163.86	330.87	-4150.70	694937.08	725337.27	32°59'34.621"N	103°49'56.497"W	0.50	
12814.00	91.100	274.000	8761.33	4226.84	335.37	-4213.52	694874.26	725341.77	32°59'34.669"N	103°49'57.235"W	0.45	
12878.00	91.700	274.700	8759.77	4290.82	340.22	-4277.32	694810.46	725346.62	32°59'34.720"N	103°49'57.983"W	1.44	
12942.00	91.800	274.900	8757.81	4354.79	345.58	-4341.07	694746.72	725351.97	32°59'34.776"N	103°49'58.732"W	0.35	
13005.00	91.700	274.200	8755.89	4417.76	350.57	-4403.84	694683.96	725356.97	32°59'34.828"N	103°49'59.468"W	1.12	
13068.00	92.400	274.100	8753.63	4480.72	355.13	-4466.63	694621.17	725361.52	32°59'34.876"N	103°50'00.205"W	1.12	
13132.00	92.700	274.600	8750.79	4544.65	359.98	-4530.38	694557.42	725366.37	32°59'34.927"N	103°50'00.953"W	0.91	
13195.00	92.400	274.800	8747.98	4607.59	365.13	-4593.11	694494.70	725371.53	32°59'34.981"N	103°50'01.690"W	0.57	



Actual Wellpath Report

No. 1H AWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	Yates Petroleum Corporation	Slot	No. 1H SHL
Area	Chaves County, NM	Well	No. 1H
Field	(Scooter) Sec 28, T15S, R31E	Wellbore	No. 1H AWB
Facility	Scooter BPS Fed No 1H		

WELLPATH DATA (183 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13259.00	92.700	274.700	8745.14	4671.53	370.43	-4656.83	694430.98	725376.82	32°59'35.036"N	103°50'02.437"W	0.49	
13276.00	92.700	274.700	8744.34	4688.51	371.82	-4673.75	694414.06	725378.22	32°59'35.051"N	103°50'02.636"W	0.00	
13330.00	92.700	274.700	8741.79	4742.45	376.24	-4727.51	694360.30	725382.64	32°59'35.097"N	103°50'03.267"W	0.00	Project to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 1H PBHL		8765.00	388.32	-4764.55	694323.26	725394.71	32°59'35.218"N	103°50'03.701"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 1H AWB - Ref Wellpath: No. 1H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.80	8300.00	Generic gyro - northseeking (Standard)	Gyro	No. 1H AWB
8300.00	13330.00	NaviTrak (Standard)	MWD	No. 1H AWB