

Results of Directional Survey

API number:	30-025-41183		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	GAUCHO UNIT # 10H

surface	ULSTR:	O	17	T 22S	R 34E
				200 FSL	1780 FEL

BH Loc	ULSTR:	O	20	T 22S	R 34E
16126	MD	11358.9	TVD	332 FSL	1762 FEL
				4948 FNL	

Top Perf/OH	ULSTR:	O	17	T 22S	R 34E
11515	MD	11300.0	TVD	342 FNL	1880 FEL

Bot Perf/OH	ULSTR:	O	20	T 22S	R 34E
15992	MD	11356.9	TVD	466 FSL	1765 FEL
				4814 FNL	

	MD	N/S	E/W	VD
	11497	-524.58	-100.55	11294.9
TOP PERFS/OH	11515	-541.83	-100.16	11300.01
	11529	-555.25	-99.86	11303.98
	15931	-4952.94	13.60	11356.02
BOT PERFS/OH	15992	-5013.93	14.61	11356.87
	16025	-5046.92	15.16	11357.33

NEXT TO LAST	16075	-5096.90	16.51	11358.07
LAST READING	16126	-5147.87	18.11	11358.87
TD	16126	-5147.87	18.11	11358.87

Surface Location	200	FS	1780	FE
Projected BHL	4948	FN	1762	FE
Location of				
Top Perfs/OH	342	FN	1880	FE
Bottom Perfs/OH	4814	FN	1765	FE

SUMMARY of Subsurface Locations

Surface Location	O-17-22S-34E	200	FS	1780	FE	Vert. Depth
Top Perfs/OH	O-17-22S-34E	342	FN	1880	FE	11300.01
Bottom Perfs/OH	O-20-22S-34E	4814	FN	1765	FE	11356.87
Projected TD	O-20-22S-34E	4948	FN	1762	FE	11358.87

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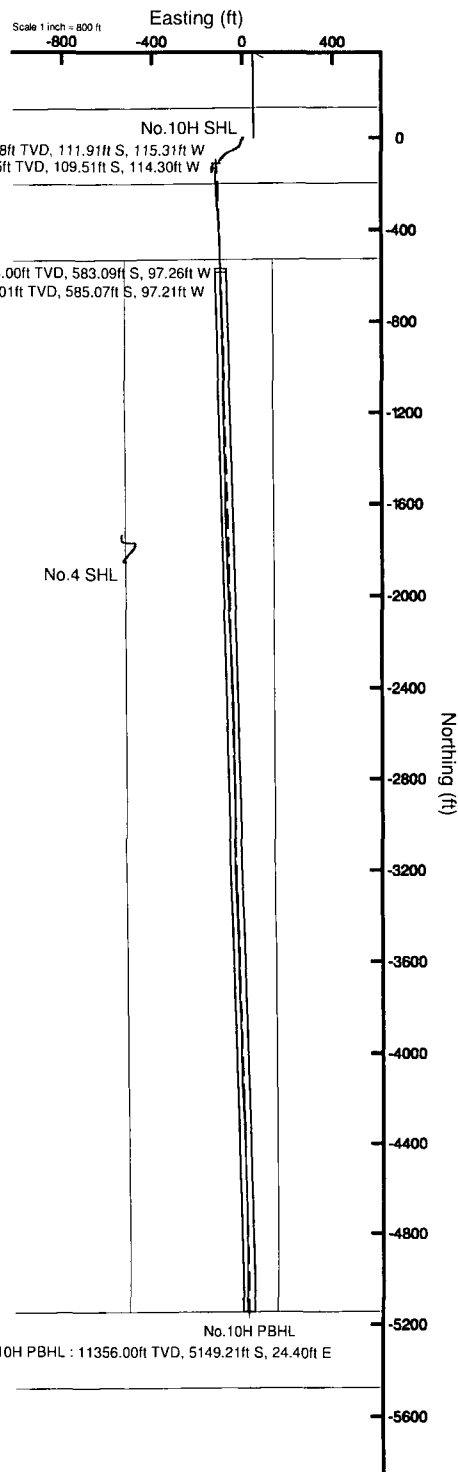
FEB 20 2014



Devon Energy

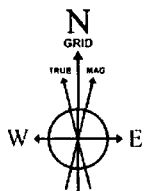
Location: Lea County, NM
Field: (Gaucho) Sec 17, T22S, R34E
Facility: Gaucho Unit No. 10H & No. 11H

Slot: No. 10H SHL
Well: No. 10H
Wellbore: No. 10H PWB

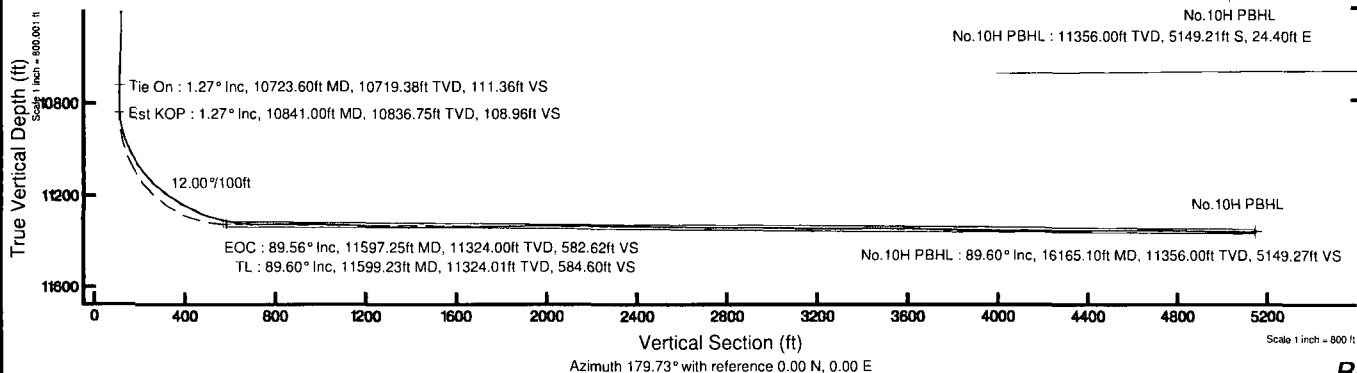


Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	10723.60	1.270	22.830	10719.38	-111.91	-115.31	0.00	111.36
Est KOP	10841.00	1.270	22.830	10836.75	-109.51	-114.30	0.00	108.96
EOC	11597.25	89.559	178.474	11324.00	-583.09	-97.26	12.00	582.62
TL	11599.23	89.599	178.474	11324.01	-585.07	-97.21	2.00	584.60
No. 10H PWBH	16165.10	89.599	178.474	11356.00	-5149.21	24.40	0.00	5149.27

Plot reference wellpath is Rev-D.0	
True vertical depths are referenced to Rig on No. 10H SHL (KB)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 10H SHL (KB)	North Reference: Grid north
Rig on No. 10H SHL (KB) to Mean Sea Level: 3492.6 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No. 10H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 08/22/2013



BGGM (1945.0 to 2015.0) Dip: 60.29° Field: 48508.8 nT
Magnetic North is 7.41 degrees East of True North (at 07/08/2013)
Grid North is 0.45 degrees East of True North
To correct azimuth from True to Grid subtract 0.45 degrees
To correct azimuth from Magnetic to Grid add 6.96 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 6.96 = 96.96





Actual Wellpath Report

No.10H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.10H SHL
Area	Lea County, NM	Well	No.10H
Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucho Unit No.10H & No.11H		

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	Gentbry
Scale	0.999987	Report Generated	09/03/2013 at 8:37:06 AM
Convergence at slot	0.45° East	Database/Source file	WA Midland/No.10H_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	801880.14	504820.70	32°23'05.983"N	103°29'21.509"W
Facility Reference Pt			801880.14	504820.70	32°23'05.983"N	103°29'21.509"W
Field Reference Pt			800357.93	506259.73	32°23'20.341"N	103°29'39.128"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.10H SHL (KB) to Facility Vertical Datum	3492.60ft
Horizontal Reference Pt	Slot	Rig on No.10H SHL (KB) to Mean Sea Level	3492.60ft
Vertical Reference Pt	Rig on No.10H SHL (KB)	Rig on No.10H SHL (KB) to Mud Line at Slot (No.10H SHL)	3492.60ft
MD Reference Pt	Rig on No.10H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.73°



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Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucho Unit No.10H & No.11H		

WELLPATH DATA (194 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
0.00	0.000	73.420	0.00	0.00	0.00	0.00	801880.14	504820.70	32°23'05.983"N	103°29'21.509"W	0.00	
100.00	0.450	73.420	100.00	-0.11	0.11	0.38	801880.52	504820.81	32°23'05.984"N	103°29'21.505"W	0.45	
200.00	0.580	80.710	199.99	-0.30	0.31	1.25	801881.39	504821.01	32°23'05.986"N	103°29'21.495"W	0.15	
300.00	0.540	85.370	299.99	-0.42	0.43	2.22	801882.36	504821.13	32°23'05.987"N	103°29'21.483"W	0.06	
400.00	0.570	90.950	399.99	-0.44	0.46	3.19	801883.33	504821.16	32°23'05.988"N	103°29'21.472"W	0.06	
500.00	0.510	91.810	499.98	-0.41	0.43	4.13	801884.27	504821.13	32°23'05.987"N	103°29'21.461"W	0.06	
600.00	0.200	129.490	599.98	-0.29	0.31	4.71	801884.85	504821.01	32°23'05.986"N	103°29'21.454"W	0.37	
700.00	0.340	173.550	699.98	0.12	-0.10	4.88	801885.02	504820.60	32°23'05.982"N	103°29'21.452"W	0.24	
771.90	0.580	192.040	771.88	0.69	-0.67	4.83	801884.97	504820.03	32°23'05.976"N	103°29'21.453"W	0.39	
866.30	0.680	198.910	866.27	1.68	-1.66	4.55	801884.68	504819.04	32°23'05.966"N	103°29'21.456"W	0.13	
960.80	0.720	207.900	960.76	2.74	-2.72	4.09	801884.23	504817.98	32°23'05.956"N	103°29'21.462"W	0.12	
1055.20	0.750	208.930	1055.16	3.80	-3.78	3.51	801883.65	504816.92	32°23'05.946"N	103°29'21.469"W	0.03	
1149.70	0.890	209.700	1149.65	4.98	-4.96	2.85	801882.99	504815.74	32°23'05.934"N	103°29'21.476"W	0.15	
1244.30	0.900	206.650	1244.23	6.27	-6.26	2.15	801882.29	504814.44	32°23'05.921"N	103°29'21.485"W	0.05	
1338.70	0.960	211.010	1338.62	7.61	-7.60	1.41	801881.55	504813.10	32°23'05.908"N	103°29'21.493"W	0.10	
1433.30	0.970	233.200	1433.21	8.76	-8.76	0.36	801880.50	504811.94	32°23'05.897"N	103°29'21.506"W	0.39	
1527.80	0.880	235.730	1527.70	9.65	-9.65	-0.88	801879.26	504811.05	32°23'05.888"N	103°29'21.520"W	0.10	
1622.30	0.840	237.270	1622.19	10.42	-10.43	-2.06	801878.08	504810.27	32°23'05.880"N	103°29'21.534"W	0.05	
1716.70	0.640	240.540	1716.58	11.05	-11.07	-3.10	801877.04	504809.63	32°23'05.874"N	103°29'21.546"W	0.22	
1811.40	0.870	210.530	1811.27	11.93	-11.95	-3.93	801876.21	504808.75	32°23'05.865"N	103°29'21.556"W	0.47	
1905.90	1.740	188.320	1905.74	13.96	-13.98	-4.50	801875.64	504806.72	32°23'05.845"N	103°29'21.563"W	1.05	
2000.30	2.160	189.060	2000.09	17.14	-17.16	-4.99	801875.15	504803.54	32°23'05.814"N	103°29'21.569"W	0.45	
2094.70	2.240	197.420	2094.42	20.65	-20.68	-5.82	801874.32	504800.02	32°23'05.779"N	103°29'21.579"W	0.35	
2189.00	2.050	200.950	2188.65	23.98	-24.01	-6.98	801873.16	504796.69	32°23'05.746"N	103°29'21.593"W	0.25	
2283.50	1.670	203.370	2283.10	26.81	-26.85	-8.13	801872.01	504793.85	32°23'05.718"N	103°29'21.606"W	0.41	
2378.20	1.420	201.730	2377.77	29.17	-29.21	-9.11	801871.03	504791.49	32°23'05.695"N	103°29'21.618"W	0.27	
2472.90	0.960	202.230	2472.45	30.99	-31.03	-9.84	801870.30	504789.67	32°23'05.677"N	103°29'21.627"W	0.49	
2567.90	0.910	202.650	2567.44	32.42	-32.47	-10.44	801869.70	504788.23	32°23'05.663"N	103°29'21.634"W	0.05	
2662.40	1.040	211.390	2661.92	33.84	-33.89	-11.17	801868.97	504786.81	32°23'05.649"N	103°29'21.643"W	0.21	
2756.80	1.190	220.080	2756.31	35.31	-35.37	-12.25	801867.89	504785.33	32°23'05.634"N	103°29'21.655"W	0.24	
2851.50	1.170	218.470	2850.99	36.82	-36.88	-13.48	801866.66	504783.82	32°23'05.619"N	103°29'21.670"W	0.04	
2946.00	0.580	207.330	2945.47	37.99	-38.06	-14.30	801865.84	504782.64	32°23'05.608"N	103°29'21.679"W	0.65	
3040.50	0.240	151.420	3039.97	38.59	-38.66	-14.43	801865.71	504782.04	32°23'05.602"N	103°29'21.681"W	0.52	
3134.90	0.360	92.780	3134.37	38.78	-38.85	-14.04	801866.10	504781.85	32°23'05.600"N	103°29'21.676"W	0.33	
3229.40	0.260	70.080	3228.87	38.73	-38.79	-13.54	801866.60	504781.91	32°23'05.601"N	103°29'21.671"W	0.17	
3323.90	0.280	217.860	3323.37	38.84	-38.90	-13.48	801866.66	504781.80	32°23'05.599"N	103°29'21.670"W	0.55	
3418.40	0.720	228.780	3417.86	39.41	-39.47	-14.07	801866.07	504781.23	32°23'05.594"N	103°29'21.677"W	0.47	
3512.70	1.020	228.660	3512.15	40.35	-40.42	-15.14	801865.00	504780.28	32°23'05.585"N	103°29'21.689"W	0.32	
3607.20	0.970	232.790	3606.64	41.38	-41.46	-16.41	801863.73	504779.24	32°23'05.574"N	103°29'21.704"W	0.09	
3701.70	0.640	246.580	3701.13	42.07	-42.15	-17.53	801862.61	504778.55	32°23'05.568"N	103°29'21.717"W	0.40	
3796.20	0.660	241.260	3795.62	42.53	-42.62	-18.49	801861.65	504778.08	32°23'05.563"N	103°29'21.729"W	0.07	
3890.80	1.240	236.170	3890.21	43.36	-43.45	-19.82	801860.32	504777.25	32°23'05.555"N	103°29'21.744"W	0.62	
3985.10	2.080	237.420	3984.47	44.84	-44.94	-22.11	801858.03	504775.76	32°23'05.540"N	103°29'21.771"W	0.89	
4079.50	2.500	239.790	4078.79	46.78	-46.90	-25.33	801854.81	504773.80	32°23'05.521"N	103°29'21.809"W	0.46	
4173.80	2.430	243.640	4173.01	48.69	-48.82	-28.90	801851.24	504771.88	32°23'05.502"N	103°29'21.851"W	0.19	



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Area	Lea County, NM	Well	No.10H
Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucho Unit No.10H & No.11H		

WELLPATH DATA (194 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
4268.20	2.360	244.100	4267.33	50.41	-50.56	-32.44	801847.70	504770.14	32°23'05.486"N	103°29'21.892"W	0.08	
4362.60	2.390	241.460	4361.64	52.18	-52.35	-35.92	801844.22	504768.35	32°23'05.468"N	103°29'21.933"W	0.12	
4457.20	2.430	244.970	4456.16	53.95	-54.14	-39.47	801840.67	504766.56	32°23'05.451"N	103°29'21.974"W	0.16	
4551.70	2.500	246.110	4550.57	55.62	-55.82	-43.17	801836.97	504764.88	32°23'05.434"N	103°29'22.018"W	0.09	
4646.10	2.290	246.060	4644.89	57.20	-57.42	-46.78	801833.36	504763.28	32°23'05.419"N	103°29'22.060"W	0.22	
4740.60	2.560	243.860	4739.31	58.88	-59.12	-50.40	801829.74	504761.58	32°23'05.402"N	103°29'22.102"W	0.30	
4834.80	2.730	242.530	4833.41	60.82	-61.08	-54.28	801825.86	504759.62	32°23'05.383"N	103°29'22.148"W	0.19	
4929.30	2.620	246.310	4927.80	62.71	-62.99	-58.25	801821.89	504757.71	32°23'05.365"N	103°29'22.194"W	0.22	
5023.70	2.470	243.950	5022.11	64.45	-64.75	-62.06	801818.09	504755.95	32°23'05.347"N	103°29'22.239"W	0.19	
5118.20	1.640	237.990	5116.55	66.05	-66.36	-65.03	801815.11	504754.34	32°23'05.332"N	103°29'22.274"W	0.91	
5212.70	1.690	234.480	5211.01	67.57	-67.88	-67.31	801812.83	504752.82	32°23'05.317"N	103°29'22.300"W	0.12	
5307.30	1.840	232.880	5305.56	69.28	-69.61	-69.66	801810.48	504751.09	32°23'05.300"N	103°29'22.328"W	0.17	
5401.70	1.900	227.450	5399.91	71.24	-71.58	-72.02	801808.12	504749.12	32°23'05.281"N	103°29'22.356"W	0.20	
5496.20	1.860	224.490	5494.36	73.39	-73.74	-74.25	801805.89	504746.96	32°23'05.259"N	103°29'22.382"W	0.11	
5590.70	1.990	224.290	5588.81	75.64	-76.01	-76.47	801803.67	504744.69	32°23'05.237"N	103°29'22.408"W	0.14	
5685.10	1.950	224.660	5683.15	77.95	-78.32	-78.74	801801.40	504742.38	32°23'05.214"N	103°29'22.435"W	0.04	
5779.50	2.050	227.400	5777.50	80.22	-80.61	-81.11	801799.03	504740.09	32°23'05.192"N	103°29'22.462"W	0.15	
5874.10	2.060	224.890	5872.03	82.56	-82.96	-83.56	801796.58	504737.74	32°23'05.169"N	103°29'22.491"W	0.10	
5968.60	2.020	224.440	5966.47	84.94	-85.35	-85.92	801794.22	504735.35	32°23'05.145"N	103°29'22.519"W	0.05	
6063.20	1.950	222.120	6061.02	87.32	-87.73	-88.17	801791.97	504732.97	32°23'05.122"N	103°29'22.545"W	0.11	
6157.50	1.990	220.160	6155.26	89.75	-90.18	-90.30	801789.84	504730.53	32°23'05.098"N	103°29'22.570"W	0.08	
6251.90	2.020	218.890	6249.60	92.28	-92.72	-92.40	801787.74	504727.98	32°23'05.073"N	103°29'22.595"W	0.06	
6345.90	1.980	218.240	6343.55	94.84	-95.29	-94.45	801785.69	504725.41	32°23'05.048"N	103°29'22.619"W	0.05	
6440.30	1.980	219.610	6437.89	97.37	-97.83	-96.50	801783.64	504722.88	32°23'05.023"N	103°29'22.643"W	0.05	
6534.80	2.050	219.750	6532.33	99.91	-100.38	-98.62	801781.52	504720.32	32°23'04.998"N	103°29'22.668"W	0.07	
6629.40	2.070	219.570	6626.87	102.52	-103.00	-100.79	801779.35	504717.70	32°23'04.972"N	103°29'22.694"W	0.02	
6723.70	2.090	218.710	6721.11	105.17	-105.65	-102.95	801777.19	504715.05	32°23'04.946"N	103°29'22.719"W	0.04	
6818.20	2.110	219.050	6815.55	107.85	-108.35	-105.13	801775.02	504712.35	32°23'04.919"N	103°29'22.745"W	0.02	
6912.60	2.070	220.200	6909.88	110.49	-111.00	-107.32	801772.82	504709.70	32°23'04.893"N	103°29'22.771"W	0.06	
7006.90	2.010	222.080	7004.12	113.01	-113.53	-109.53	801770.61	504707.17	32°23'04.868"N	103°29'22.797"W	0.10	
7101.40	1.940	224.030	7098.57	115.38	-115.91	-111.75	801768.39	504704.79	32°23'04.845"N	103°29'22.823"W	0.10	
7196.00	1.790	222.680	7193.12	117.61	-118.15	-113.86	801766.28	504702.55	32°23'04.823"N	103°29'22.848"W	0.17	
7290.50	1.850	222.740	7287.57	119.80	-120.35	-115.90	801764.24	504700.35	32°23'04.801"N	103°29'22.872"W	0.06	
7384.90	1.910	223.620	7381.92	122.05	-122.61	-118.02	801762.12	504698.09	32°23'04.779"N	103°29'22.897"W	0.07	
7479.30	1.880	224.210	7476.27	124.29	-124.86	-120.18	801759.96	504695.84	32°23'04.757"N	103°29'22.922"W	0.04	
7573.80	1.810	220.760	7570.72	126.52	-127.10	-122.24	801757.90	504693.60	32°23'04.735"N	103°29'22.946"W	0.14	
7668.60	1.820	218.080	7665.47	128.83	-129.42	-124.15	801756.00	504691.28	32°23'04.712"N	103°29'22.969"W	0.09	
7763.00	1.950	211.650	7759.82	131.37	-131.97	-125.91	801754.23	504688.73	32°23'04.687"N	103°29'22.990"W	0.26	
7857.60	1.890	210.580	7854.37	134.07	-134.68	-127.55	801752.59	504686.02	32°23'04.661"N	103°29'23.009"W	0.07	
7952.10	2.000	207.940	7948.81	136.87	-137.48	-129.12	801751.02	504683.22	32°23'04.633"N	103°29'23.027"W	0.15	
8046.60	2.040	206.600	8043.25	139.82	-140.44	-130.64	801749.50	504680.26	32°23'04.604"N	103°29'23.045"W	0.07	
8141.10	1.820	203.720	8137.70	142.69	-143.32	-132.00	801748.14	504677.38	32°23'04.576"N	103°29'23.062"W	0.25	
8235.30	1.700	200.730	8231.85	145.36	-145.99	-133.10	801747.05	504674.71	32°23'04.549"N	103°29'23.075"W	0.16	
8329.70	1.390	199.040	8326.22	147.75	-148.39	-133.97	801746.18	504672.32	32°23'04.526"N	103°29'23.085"W	0.33	
8424.00	1.070	197.690	8420.50	149.67	-150.31	-134.61	801745.54	504670.40	32°23'04.507"N	103°29'23.093"W	0.34	



Actual Wellpath Report

No.10H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.10H SHL
Area	Lea County, NM	Well	No.10H
Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucho Unit No.10H & No.11H		

WELLPATH DATA (194 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
8518.20	0.530	227.900	8514.69	150.79	-151.44	-135.20	801744.95	504669.27	32°23'04.495"N	103°29'23.100"W	0.71	
8612.40	0.420	325.830	8608.89	150.80	-151.44	-135.71	801744.43	504669.26	32°23'04.495"N	103°29'23.106"W	0.76	
8706.80	0.970	352.030	8703.28	149.72	-150.36	-136.02	801744.12	504670.34	32°23'04.506"N	103°29'23.109"W	0.66	
8801.10	1.460	354.690	8797.56	147.73	-148.38	-136.24	801743.90	504672.32	32°23'04.526"N	103°29'23.111"W	0.52	
8895.40	1.610	8.760	8891.83	145.23	-145.87	-136.15	801743.99	504674.83	32°23'04.551"N	103°29'23.110"W	0.43	
8990.00	1.760	4.080	8986.38	142.46	-143.11	-135.84	801744.30	504677.59	32°23'04.578"N	103°29'23.106"W	0.22	
9084.60	1.830	356.710	9080.94	139.51	-140.15	-135.83	801744.31	504680.55	32°23'04.607"N	103°29'23.106"W	0.25	
9179.20	1.690	3.290	9175.49	136.61	-137.25	-135.83	801744.31	504683.45	32°23'04.636"N	103°29'23.106"W	0.26	
9273.70	1.510	12.720	9269.96	134.00	-134.65	-135.48	801744.66	504686.06	32°23'04.662"N	103°29'23.101"W	0.34	
9368.40	1.230	23.610	9364.63	131.86	-132.50	-134.80	801745.34	504688.20	32°23'04.683"N	103°29'23.093"W	0.40	
9462.90	1.380	35.050	9459.11	130.00	-130.64	-133.74	801746.40	504690.06	32°23'04.701"N	103°29'23.081"W	0.32	
9557.20	1.520	33.220	9553.38	128.03	-128.66	-132.40	801747.74	504692.04	32°23'04.721"N	103°29'23.065"W	0.16	
9651.50	1.090	36.070	9647.65	126.27	-126.89	-131.19	801748.95	504693.81	32°23'04.738"N	103°29'23.051"W	0.46	
9746.00	1.040	38.370	9742.13	124.87	-125.49	-130.13	801750.02	504695.21	32°23'04.752"N	103°29'23.038"W	0.07	
9840.60	0.880	37.880	9836.72	123.63	-124.24	-129.15	801750.99	504696.46	32°23'04.764"N	103°29'23.027"W	0.17	
9934.80	1.090	42.880	9930.91	122.41	-123.02	-128.09	801752.05	504697.68	32°23'04.776"N	103°29'23.014"W	0.24	
10029.10	1.210	31.900	10025.19	120.91	-121.51	-126.96	801753.19	504699.19	32°23'04.791"N	103°29'23.001"W	0.27	
10123.60	0.910	29.460	10119.67	119.42	-120.01	-126.06	801754.08	504700.69	32°23'04.806"N	103°29'22.990"W	0.32	
10218.10	0.880	80.840	10214.16	118.65	-119.25	-124.98	801755.17	504701.46	32°23'04.813"N	103°29'22.977"W	0.82	
10312.50	2.130	100.060	10308.53	118.85	-119.44	-122.53	801757.61	504701.27	32°23'04.811"N	103°29'22.949"W	1.41	
10407.00	2.100	105.960	10402.96	119.65	-120.22	-119.14	801761.00	504700.48	32°23'04.803"N	103°29'22.909"W	0.23	
10501.30	1.850	37.220	10497.22	118.93	-119.48	-116.56	801763.59	504701.22	32°23'04.810"N	103°29'22.879"W	2.37	
10595.60	2.620	6.200	10591.45	115.58	-116.13	-115.40	801764.74	504704.57	32°23'04.843"N	103°29'22.866"W	1.49	
10690.20	1.570	350.700	10685.99	112.15	-112.70	-115.38	801764.76	504708.00	32°23'04.877"N	103°29'22.865"W	1.25	
10723.60	1.270	22.830	10719.38	111.36	-111.91	-115.31	801764.83	504708.80	32°23'04.885"N	103°29'22.864"W	2.51	
10805.00	0.200	250.400	10800.77	110.58	-111.12	-115.09	801765.05	504709.58	32°23'04.893"N	103°29'22.861"W	1.74	
10837.00	2.700	186.900	10832.76	111.34	-111.89	-115.24	801764.91	504708.81	32°23'04.885"N	103°29'22.863"W	8.18	
10868.00	6.500	182.700	10863.65	113.82	-114.37	-115.41	801764.74	504706.33	32°23'04.861"N	103°29'22.865"W	12.30	
10900.00	11.600	182.800	10895.24	118.84	-119.39	-115.65	801764.49	504701.31	32°23'04.811"N	103°29'22.869"W	15.94	
10931.00	16.300	182.900	10925.32	126.30	-126.86	-116.02	801764.12	504693.85	32°23'04.737"N	103°29'22.874"W	15.16	
10963.00	20.200	182.900	10955.71	136.31	-136.86	-116.53	801763.61	504683.84	32°23'04.638"N	103°29'22.881"W	12.19	
10994.00	24.000	182.100	10984.42	147.96	-148.51	-117.03	801763.11	504672.19	32°23'04.523"N	103°29'22.887"W	12.30	
11025.00	27.900	180.500	11012.29	161.51	-162.07	-117.32	801762.82	504658.63	32°23'04.389"N	103°29'22.892"W	12.78	
11057.00	31.400	179.200	11040.10	177.34	-177.90	-117.27	801762.87	504642.81	32°23'04.232"N	103°29'22.893"W	11.12	
11089.00	34.600	178.000	11066.93	194.76	-195.32	-116.84	801763.30	504625.39	32°23'04.060"N	103°29'22.890"W	10.21	
11120.00	38.100	177.200	11091.90	213.12	-213.67	-116.07	801764.08	504607.03	32°23'03.878"N	103°29'22.882"W	11.39	
11151.00	41.900	176.800	11115.64	233.02	-233.57	-115.02	801765.12	504587.14	32°23'03.681"N	103°29'22.872"W	12.29	
11183.00	45.200	176.700	11138.83	255.03	-255.58	-113.77	801766.37	504565.13	32°23'03.463"N	103°29'22.859"W	10.31	
11214.00	49.000	176.600	11159.93	277.71	-278.24	-112.44	801767.70	504542.46	32°23'03.239"N	103°29'22.846"W	12.26	
11246.00	52.400	176.400	11180.19	302.43	-302.95	-110.93	801769.21	504517.75	32°23'02.994"N	103°29'22.831"W	10.64	
11277.00	55.100	176.100	11198.52	327.38	-327.90	-109.29	801770.85	504492.81	32°23'02.747"N	103°29'22.814"W	8.74	
11309.00	58.100	176.400	11216.14	354.04	-354.55	-107.55	801772.59	504466.15	32°23'02.484"N	103°29'22.796"W	9.41	
11340.00	60.600	176.600	11231.94	380.66	-381.17	-105.92	801774.22	504439.53	32°23'02.220"N	103°29'22.779"W	8.08	
11372.00	62.700	176.900	11247.13	408.79	-409.29	-104.32	801775.82	504411.42	32°23'01.942"N	103°29'22.763"W	6.61	
11403.00	65.300	177.800	11260.72	436.62	-437.12	-103.04	801777.10	504383.59	32°23'01.666"N	103°29'22.751"W	8.78	



Actual Wellpath Report

No.10H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.10H SHL
Area	Lea County, NM	Well	No.10H
Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucho Unit No.10H & No.11H		

WELLPATH DATA (194 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
11434.00	67.200	178.400	11273.21	464.98	-465.47	-102.10	801778.04	504355.23	32°23'01.386"N	103°29'22.743"W	6.38	
11466.00	69.900	178.400	11284.91	494.76	-495.24	-101.27	801778.87	504325.46	32°23'01.091"N	103°29'22.736"W	8.44	
11497.00	72.500	178.800	11294.90	524.10	-524.58	-100.55	801779.59	504296.13	32°23'00.801"N	103°29'22.730"W	8.48	
11529.00	74.500	178.600	11303.98	554.77	-555.25	-99.86	801780.29	504265.46	32°23'00.497"N	103°29'22.725"W	6.28	
11560.00	77.800	178.400	11311.40	584.86	-585.33	-99.07	801781.07	504235.37	32°23'00.199"N	103°29'22.718"W	10.66	
11590.00	81.500	178.800	11316.79	614.36	-614.83	-98.35	801781.79	504205.88	32°22'59.907"N	103°29'22.712"W	12.40	
11615.00	83.500	178.800	11320.06	639.14	-639.61	-97.83	801782.31	504181.10	32°22'59.662"N	103°29'22.709"W	8.00	
11647.00	85.400	178.700	11323.15	670.99	-671.45	-97.13	801783.01	504149.26	32°22'59.347"N	103°29'22.704"W	5.95	
11678.00	88.000	178.600	11324.93	701.93	-702.39	-96.40	801783.74	504118.32	32°22'59.041"N	103°29'22.698"W	8.39	
11710.00	90.000	178.200	11325.49	733.91	-734.37	-95.51	801784.63	504086.34	32°22'58.724"N	103°29'22.690"W	6.37	
11741.00	90.200	178.200	11325.44	764.90	-765.36	-94.54	801785.60	504055.36	32°22'58.418"N	103°29'22.682"W	0.65	
11804.00	90.400	178.600	11325.11	827.88	-828.33	-92.78	801787.36	503992.38	32°22'57.795"N	103°29'22.667"W	0.71	
11867.00	90.500	178.700	11324.61	890.87	-891.31	-91.29	801788.85	503929.40	32°22'57.171"N	103°29'22.656"W	0.22	
11961.00	88.900	178.400	11325.11	984.84	-985.28	-88.92	801791.23	503835.44	32°22'56.241"N	103°29'22.637"W	1.73	
12056.00	88.500	178.700	11327.26	1079.80	-1080.22	-86.51	801793.63	503740.49	32°22'55.302"N	103°29'22.617"W	0.53	
12150.00	87.600	178.900	11330.46	1173.73	-1174.15	-84.54	801795.60	503646.57	32°22'54.372"N	103°29'22.603"W	0.98	
12245.00	87.200	178.900	11334.77	1268.62	-1269.03	-82.72	801797.42	503551.69	32°22'53.433"N	103°29'22.590"W	0.42	
12339.00	87.800	178.900	11338.87	1362.52	-1362.92	-80.92	801799.22	503457.80	32°22'52.504"N	103°29'22.578"W	0.64	
12434.00	90.300	179.200	11340.44	1457.50	-1457.89	-79.34	801800.80	503362.83	32°22'51.564"N	103°29'22.568"W	2.65	
12529.00	91.200	179.000	11339.20	1552.48	-1552.87	-77.85	801802.29	503267.86	32°22'50.624"N	103°29'22.560"W	0.97	
12623.00	90.800	179.200	11337.56	1646.46	-1646.84	-76.38	801803.76	503173.88	32°22'49.694"N	103°29'22.551"W	0.48	
12718.00	91.100	177.800	11335.99	1741.42	-1741.79	-73.89	801806.25	503078.93	32°22'48.755"N	103°29'22.531"W	1.51	
12812.00	91.200	177.900	11334.10	1835.35	-1835.71	-70.36	801809.78	502985.02	32°22'47.825"N	103°29'22.498"W	0.15	
12907.00	90.900	178.000	11332.36	1930.29	-1930.63	-66.97	801813.17	502890.10	32°22'46.886"N	103°29'22.468"W	0.33	
13001.00	90.000	177.700	11331.62	2024.24	-2024.56	-63.44	801816.70	502796.17	32°22'45.956"N	103°29'22.435"W	1.01	
13096.00	89.700	177.100	11331.87	2119.16	-2119.46	-59.13	801821.01	502701.27	32°22'45.017"N	103°29'22.394"W	0.71	
13190.00	89.000	176.800	11332.93	2213.04	-2213.32	-54.13	801826.01	502607.41	32°22'44.088"N	103°29'22.344"W	0.81	
13284.00	89.200	178.000	11334.41	2306.95	-2307.21	-49.87	801830.27	502513.52	32°22'43.158"N	103°29'22.303"W	1.29	
13379.00	89.100	178.200	11335.82	2401.90	-2402.15	-46.72	801833.42	502418.59	32°22'42.219"N	103°29'22.275"W	0.24	
13473.00	89.300	178.200	11337.13	2495.86	-2496.09	-43.76	801836.38	502324.64	32°22'41.289"N	103°29'22.249"W	0.21	
13568.00	88.700	177.900	11338.79	2590.80	-2591.02	-40.53	801839.61	502229.71	32°22'40.349"N	103°29'22.220"W	0.71	
13662.00	89.200	178.600	11340.51	2684.76	-2684.96	-37.66	801842.48	502135.78	32°22'39.420"N	103°29'22.195"W	0.92	
13757.00	89.510	179.020	11341.58	2779.74	-2779.94	-35.69	801844.45	502040.80	32°22'38.480"N	103°29'22.181"W	0.55	
13851.00	90.300	179.500	11341.74	2873.73	-2873.93	-34.48	801845.66	501946.82	32°22'37.550"N	103°29'22.175"W	0.98	
13946.00	90.300	180.000	11341.24	2968.73	-2968.93	-34.06	801846.08	501851.82	32°22'36.610"N	103°29'22.179"W	0.53	
14041.00	88.300	179.900	11342.40	3063.72	-3063.91	-33.98	801846.16	501756.83	32°22'35.670"N	103°29'22.187"W	2.11	
14135.00	88.700	178.400	11344.86	3157.68	-3157.87	-32.58	801847.56	501662.88	32°22'34.740"N	103°29'22.180"W	1.65	
14230.00	90.400	177.600	11345.61	3252.63	-3252.80	-29.27	801850.87	501567.95	32°22'33.800"N	103°29'22.150"W	1.98	
14324.00	91.200	178.300	11344.30	3346.57	-3346.73	-25.91	801854.23	501474.02	32°22'32.871"N	103°29'22.119"W	1.13	
14419.00	90.200	178.200	11343.14	3441.53	-3441.68	-23.01	801857.13	501379.07	32°22'31.931"N	103°29'22.094"W	1.06	
14513.00	90.600	179.200	11342.48	3535.51	-3535.65	-20.87	801859.27	501285.10	32°22'31.001"N	103°29'22.078"W	1.15	
14608.00	88.300	178.600	11343.39	3630.49	-3630.62	-19.05	801861.09	501190.13	32°22'30.061"N	103°29'22.065"W	2.50	
14703.00	88.100	178.900	11346.38	3725.43	-3725.55	-16.98	801863.16	501095.20	32°22'29.122"N	103°29'22.050"W	0.38	
14797.00	89.100	177.900	11348.67	3819.38	-3819.49	-14.35	801865.79	501001.27	32°22'28.192"N	103°29'22.028"W	1.50	
14891.00	89.200	178.800	11350.07	3913.34	-3913.44	-11.65	801868.49	500907.32	32°22'27.262"N	103°29'22.005"W	0.96	



Actual Wellpath Report

No.10H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.10H SHL
Area	Lea County, NM	Well	No.10H
Field	(Gaucha) Sec 17, T22S, R34E	Wellbore	No.10H AWB
Facility	Gaucha Unit No.10H & No.11H		

WELLPATH DATA (194 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
14986.00	89.900	179.500	11350.81	4008.33	-4008.42	-10.24	801869.90	500812.34	32°22'26.322"N	103°29'21.997"W	1.04	
15080.00	89.100	178.500	11351.63	4102.32	-4102.40	-8.60	801871.54	500718.36	32°22'25.392"N	103°29'21.987"W	1.36	
15175.00	89.700	177.100	11352.63	4197.25	-4197.32	-4.95	801875.19	500623.44	32°22'24.453"N	103°29'21.953"W	1.60	
15270.00	90.300	177.400	11352.63	4292.16	-4292.21	-0.39	801879.75	500528.55	32°22'23.514"N	103°29'21.909"W	0.71	
15364.00	90.400	177.700	11352.05	4386.09	-4386.13	3.62	801883.76	500434.64	32°22'22.584"N	103°29'21.870"W	0.34	
15459.00	89.900	178.300	11351.81	4481.05	-4481.07	6.94	801887.08	500339.70	32°22'21.644"N	103°29'21.840"W	0.82	
15553.00	90.200	178.700	11351.72	4575.03	-4575.03	9.40	801889.54	500245.73	32°22'20.714"N	103°29'21.820"W	0.53	
15647.00	90.600	179.000	11351.07	4669.01	-4669.01	11.29	801891.43	500151.76	32°22'19.784"N	103°29'21.807"W	0.53	
15742.00	88.400	179.300	11351.90	4764.00	-4763.99	12.70	801892.84	500056.78	32°22'18.844"N	103°29'21.799"W	2.34	
15836.00	88.700	180.100	11354.27	4857.97	-4857.96	13.19	801893.33	499962.81	32°22'17.915"N	103°29'21.802"W	0.91	
15931.00	89.200	179.400	11356.02	4952.95	-4952.94	13.60	801893.74	499867.83	32°22'16.975"N	103°29'21.806"W	0.91	
16025.00	89.200	178.700	11357.33	5046.94	-5046.92	15.16	801895.30	499773.86	32°22'16.045"N	103°29'21.797"W	0.74	
16075.00	89.100	178.200	11358.07	5096.92	-5096.90	16.51	801896.65	499723.88	32°22'15.550"N	103°29'21.785"W	1.02	
16126.00	89.100	178.200	11358.87	5147.89	-5147.87	18.11	801898.25	499672.91	32°22'15.046"N	103°29'21.771"W	0.00	Proj. to Bit

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No.10H PBHL		11356.00	-5149.21	24.40	801904.54	499671.57	32°22'15.032"N	103°29'21.698"W	rectangle

WELLPATH COMPOSITION - Ref Wellbore: No.10H AWB Ref Wellpath: No.10H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	10723.60	Generic gyro - northseeking (Standard)	GyroData Gyro <100-10723.6>	No.10H AWB
10723.60	16075.00	NaviTrak (Standard)	BHI MWD NaviTrak <10805-XXXX>	No.10H AWB
16075.00	16126.00	Blind Drilling (std)	Projection to bit	No.10H AWB

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect®3.0.0

REFERENCE WELLPATH IDENTIFICATION

Operator Devon Energy
Area Lea County, NM
Field (Gaucho) Sec 17, T22S, R34E
Facility Gaucho Unit No.10H & No.11H
Slot No.10H SHL
Well No.10H
Wellbore No.10H AWB
Wellpath No.10H AWP
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
North Refe Grid
Scale 0.999987
Convergen 0.45° East
Software S WellArchitect®
User Gentbry
Report Ger 09/03/2013 at 8:37:07 AM
DataBase/ WA Midland/ev188189.xml

WELLPATH Local North	Local East	Grid East	Grid North	Latitude	Longitude
[ft]	[ft]	[ft]	[ft]		
Slot Locatic	0	0	801880.1	504820.7	32°23'05.9" 103°29'21.509"W
Facility Ref			801880.1	504820.7	32°23'05.9" 103°29'21.509"W
Field Refer			800357.9	506259.7	32°23'20.3" 103°29'39.128"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Rig on No.10H SHL (KB)
MD Refere Rig on No.10H SHL (KB)
Field Vertic Mean Sea Level
Rig on No.13492.60ft
Rig on No.13492.60ft
Rig on No.13492.60ft
Section Ori 0.00ft
Section Ori 0.00ft
Section Azi 179.73°

WELLPATH DATA Wellbore: No.10H AWB Wellpath: No.10H AWP † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]
0	0	73.42	0	0	0	0	801880.1	504820.7	32°23'05.9" 103°29'21.5		0
100	0.45	73.42	100	-0.11	0.11	0.38	801880.5	504820.8	32°23'05.9" 103°29'21.5		0.45
200	0.58	80.71	199.99	-0.3	0.31	1.25	801881.4	504821	32°23'05.9" 103°29'21.5		0.15
300	0.54	85.37	299.99	-0.42	0.43	2.22	801882.4	504821.1	32°23'05.9" 103°29'21.5		0.06
400	0.57	90.95	399.99	-0.44	0.46	3.19	801883.3	504821.2	32°23'05.9" 103°29'21.5		0.06
500	0.51	91.81	499.98	-0.41	0.43	4.13	801884.3	504821.1	32°23'05.9" 103°29'21.5		0.06
600	0.2	129.49	599.98	-0.29	0.31	4.71	801884.9	504821	32°23'05.9" 103°29'21.5		0.37
700	0.34	173.55	699.98	0.12	-0.1	4.88	801885	504820.6	32°23'05.9" 103°29'21.5		0.24
771.9	0.58	192.04	771.88	0.69	-0.67	4.83	801885	504820	32°23'05.9" 103°29'21.5		0.39
866.3	0.68	198.91	866.27	1.68	-1.66	4.55	801884.7	504819	32°23'05.9" 103°29'21.5		0.13
960.8	0.72	207.9	960.76	2.74	-2.72	4.09	801884.2	504818	32°23'05.9" 103°29'21.5		0.12
1055.2	0.75	208.93	1055.16	3.8	-3.78	3.51	801883.7	504816.9	32°23'05.9" 103°29'21.5		0.03
1149.7	0.89	209.7	1149.65	4.98	-4.96	2.85	801883	504815.7	32°23'05.9" 103°29'21.5		0.15

1244.3	0.9	206.65	1244.23	6.27	-6.26	2.15	801882.3	504814.4	32°23'05.9"	103°29'21.4"	0.05
1338.7	0.96	211.01	1338.62	7.61	-7.6	1.41	801881.6	504813.1	32°23'05.9"	103°29'21.4"	0.1
1433.3	0.97	233.2	1433.21	8.76	-8.76	0.36	801880.5	504811.9	32°23'05.8"	103°29'21.1"	0.39
1527.8	0.88	235.73	1527.7	9.65	-9.65	-0.88	801879.3	504811.1	32°23'05.8"	103°29'21.1"	0.1
1622.3	0.84	237.27	1622.19	10.42	-10.43	-2.06	801878.1	504810.3	32°23'05.8"	103°29'21.1"	0.05
1716.7	0.64	240.54	1716.58	11.05	-11.07	-3.1	801877	504809.6	32°23'05.8"	103°29'21.1"	0.22
1811.4	0.87	210.53	1811.27	11.93	-11.95	-3.93	801876.2	504808.8	32°23'05.8"	103°29'21.1"	0.47
1905.9	1.74	188.32	1905.74	13.96	-13.98	-4.5	801875.6	504806.7	32°23'05.8"	103°29'21.1"	1.05
2000.3	2.16	189.06	2000.09	17.14	-17.16	-4.99	801875.2	504803.5	32°23'05.8"	103°29'21.1"	0.45
2094.7	2.24	197.42	2094.42	20.65	-20.68	-5.82	801874.3	504800	32°23'05.7"	103°29'21.1"	0.35
2189	2.05	200.95	2188.65	23.98	-24.01	-6.98	801873.2	504796.7	32°23'05.7"	103°29'21.1"	0.25
2283.5	1.67	203.37	2283.1	26.81	-26.85	-8.13	801872	504793.9	32°23'05.7"	103°29'21.1"	0.41
2378.2	1.42	201.73	2377.77	29.17	-29.21	-9.11	801871	504791.5	32°23'05.6"	103°29'21.1"	0.27
2472.9	0.96	202.23	2472.45	30.99	-31.03	-9.84	801870.3	504789.7	32°23'05.6"	103°29'21.1"	0.49
2567.9	0.91	202.65	2567.44	32.42	-32.47	-10.44	801869.7	504788.2	32°23'05.6"	103°29'21.1"	0.05
2662.4	1.04	211.39	2661.92	33.84	-33.89	-11.17	801869	504786.8	32°23'05.6"	103°29'21.1"	0.21
2756.8	1.19	220.08	2756.31	35.31	-35.37	-12.25	801867.9	504785.3	32°23'05.6"	103°29'21.1"	0.24
2851.5	1.17	218.47	2850.99	36.82	-36.88	-13.48	801866.7	504783.8	32°23'05.6"	103°29'21.1"	0.04
2946	0.58	207.33	2945.47	37.99	-38.06	-14.3	801865.8	504782.6	32°23'05.6"	103°29'21.1"	0.65
3040.5	0.24	151.42	3039.97	38.59	-38.66	-14.43	801865.7	504782	32°23'05.6"	103°29'21.1"	0.52
3134.9	0.36	92.78	3134.37	38.78	-38.85	-14.04	801866.1	504781.9	32°23'05.6"	103°29'21.1"	0.33
3229.4	0.26	70.08	3228.87	38.73	-38.79	-13.54	801866.6	504781.9	32°23'05.6"	103°29'21.1"	0.17
3323.9	0.28	217.86	3323.37	38.84	-38.9	-13.48	801866.7	504781.8	32°23'05.5"	103°29'21.1"	0.55
3418.4	0.72	228.78	3417.86	39.41	-39.47	-14.07	801866.1	504781.2	32°23'05.5"	103°29'21.1"	0.47
3512.7	1.02	228.66	3512.15	40.35	-40.42	-15.14	801865	504780.3	32°23'05.5"	103°29'21.1"	0.32
3607.2	0.97	232.79	3606.64	41.38	-41.46	-16.41	801863.7	504779.2	32°23'05.5"	103°29'21.1"	0.09
3701.7	0.64	246.58	3701.13	42.07	-42.15	-17.53	801862.6	504778.6	32°23'05.5"	103°29'21.1"	0.4
3796.2	0.66	241.26	3795.62	42.53	-42.62	-18.49	801861.7	504778.1	32°23'05.5"	103°29'21.1"	0.07
3890.8	1.24	236.17	3890.21	43.36	-43.45	-19.82	801860.3	504777.3	32°23'05.5"	103°29'21.1"	0.62
3985.1	2.08	237.42	3984.47	44.84	-44.94	-22.11	801858	504775.8	32°23'05.5"	103°29'21.1"	0.89
4079.5	2.5	239.79	4078.79	46.78	-46.9	-25.33	801854.8	504773.8	32°23'05.5"	103°29'21.1"	0.46
4173.8	2.43	243.64	4173.01	48.69	-48.82	-28.9	801851.2	504771.9	32°23'05.5"	103°29'21.1"	0.19
4268.2	2.36	244.1	4267.33	50.41	-50.56	-32.44	801847.7	504770.1	32°23'05.4"	103°29'21.1"	0.08
4362.6	2.39	241.46	4361.64	52.18	-52.35	-35.92	801844.2	504768.4	32°23'05.4"	103°29'21.1"	0.12
4457.2	2.43	244.97	4456.16	53.95	-54.14	-39.47	801840.7	504766.6	32°23'05.4"	103°29'21.1"	0.16
4551.7	2.5	246.11	4550.57	55.62	-55.82	-43.17	801837	504764.9	32°23'05.4"	103°29'22.0"	0.09
4646.1	2.29	246.06	4644.89	57.2	-57.42	-46.78	801833.4	504763.3	32°23'05.4"	103°29'22.0"	0.22
4740.6	2.56	243.86	4739.31	58.88	-59.12	-50.4	801829.7	504761.6	32°23'05.4"	103°29'22.0"	0.3
4834.8	2.73	242.53	4833.41	60.82	-61.08	-54.28	801825.9	504759.6	32°23'05.3"	103°29'22.0"	0.19
4929.3	2.62	246.31	4927.8	62.71	-62.99	-58.25	801821.9	504757.7	32°23'05.3"	103°29'22.0"	0.22
5023.7	2.47	243.95	5022.11	64.45	-64.75	-62.06	801818.1	504756	32°23'05.3"	103°29'22.0"	0.19
5118.2	1.64	237.99	5116.55	66.05	-66.36	-65.03	801815.1	504754.3	32°23'05.3"	103°29'22.0"	0.91
5212.7	1.69	234.48	5211.01	67.57	-67.88	-67.31	801812.8	504752.8	32°23'05.3"	103°29'22.0"	0.12
5307.3	1.84	232.88	5305.56	69.28	-69.61	-69.66	801810.5	504751.1	32°23'05.3"	103°29'22.0"	0.17
5401.7	1.9	227.45	5399.91	71.24	-71.58	-72.02	801808.1	504749.1	32°23'05.2"	103°29'22.0"	0.2
5496.2	1.86	224.49	5494.36	73.39	-73.74	-74.25	801805.9	504747	32°23'05.2"	103°29'22.0"	0.11
5590.7	1.99	224.29	5588.81	75.64	-76.01	-76.47	801803.7	504744.7	32°23'05.2"	103°29'22.0"	0.14
5685.1	1.95	224.66	5683.15	77.95	-78.32	-78.74	801801.4	504742.4	32°23'05.2"	103°29'22.0"	0.04
5779.5	2.05	227.4	5777.5	80.22	-80.61	-81.11	801799	504740.1	32°23'05.1"	103°29'22.0"	0.15
5874.1	2.06	224.89	5872.03	82.56	-82.96	-83.56	801796.6	504737.7	32°23'05.1"	103°29'22.0"	0.1
5968.6	2.02	224.44	5966.47	84.94	-85.35	-85.92	801794.2	504735.4	32°23'05.1"	103°29'22.0"	0.05
6063.2	1.95	222.12	6061.02	87.32	-87.73	-88.17	801792	504733	32°23'05.1"	103°29'22.0"	0.11
6157.5	1.99	220.16	6155.26	89.75	-90.18	-90.3	801789.8	504730.5	32°23'05.0"	103°29'22.0"	0.08
6251.9	2.02	218.89	6249.6	92.28	-92.72	-92.4	801787.7	504728	32°23'05.0"	103°29'22.0"	0.06
6345.9	1.98	218.24	6343.55	94.84	-95.29	-94.45	801785.7	504725.4	32°23'05.0"	103°29'22.0"	0.05
6440.3	1.98	219.61	6437.89	97.37	-97.83	-96.5	801783.6	504722.9	32°23'05.0"	103°29'22.0"	0.05
6534.8	2.05	219.75	6532.33	99.91	-100.38	-98.62	801781.5	504720.3	32°23'04.9"	103°29'22.0"	0.07
6629.4	2.07	219.57	6626.87	102.52	-103	-100.79	801779.4	504717.7	32°23'04.9"	103°29'22.0"	0.02
6723.7	2.09	218.71	6721.11	105.17	-105.65	-102.95	801777.2	504715.1	32°23'04.9"	103°29'22.0"	0.04
6818.2	2.11	219.05	6815.55	107.85	-108.35	-105.13	801775	504712.4	32°23'04.9"	103°29'22.0"	0.02
6912.6	2.07	220.2	6909.88	110.49	-111	-107.32	801772.8	504709.7	32°23'04.8"	103°29'22.0"	0.06

7006.9	2.01	222.08	7004.12	113.01	-113.53	-109.53	801770.6	504707.2	32°23'04.8"	103°29'22.7"	0.1
7101.4	1.94	224.03	7098.57	115.38	-115.91	-111.75	801768.4	504704.8	32°23'04.8"	103°29'22.8"	0.1
7196	1.79	222.68	7193.12	117.61	-118.15	-113.86	801766.3	504702.6	32°23'04.8"	103°29'22.8"	0.17
7290.5	1.85	222.74	7287.57	119.8	-120.35	-115.9	801764.2	504700.4	32°23'04.8"	103°29'22.8"	0.06
7384.9	1.91	223.62	7381.92	122.05	-122.61	-118.02	801762.1	504698.1	32°23'04.7"	103°29'22.8"	0.07
7479.3	1.88	224.21	7476.27	124.29	-124.86	-120.18	801760	504695.8	32°23'04.7"	103°29'22.8"	0.04
7573.8	1.81	220.76	7570.72	126.52	-127.1	-122.24	801757.9	504693.6	32°23'04.7"	103°29'22.8"	0.14
7668.6	1.82	218.08	7665.47	128.83	-129.42	-124.15	801756	504691.3	32°23'04.7"	103°29'22.8"	0.09
7763	1.95	211.65	7759.82	131.37	-131.97	-125.91	801754.2	504688.7	32°23'04.6"	103°29'22.8"	0.26
7857.6	1.89	210.58	7854.37	134.07	-134.68	-127.55	801752.6	504686	32°23'04.6"	103°29'22.8"	0.07
7952.1	2	207.94	7948.81	136.87	-137.48	-129.12	801751	504683.2	32°23'04.6"	103°29'22.8"	0.15
8046.6	2.04	206.6	8043.25	139.82	-140.44	-130.64	801749.5	504680.3	32°23'04.6"	103°29'22.8"	0.07
8141.1	1.82	203.72	8137.7	142.69	-143.32	-132	801748.1	504677.4	32°23'04.5"	103°29'22.8"	0.25
8235.3	1.7	200.73	8231.85	145.36	-145.99	-133.1	801747.1	504674.7	32°23'04.5"	103°29'22.8"	0.16
8329.7	1.39	199.04	8326.22	147.75	-148.39	-133.97	801746.2	504672.3	32°23'04.5"	103°29'22.8"	0.33
8424	1.07	197.69	8420.5	149.67	-150.31	-134.61	801745.5	504670.4	32°23'04.5"	103°29'22.8"	0.34
8518.2	0.53	227.9	8514.69	150.79	-151.44	-135.2	801745	504669.3	32°23'04.4"	103°29'22.8"	0.71
8612.4	0.42	325.83	8608.89	150.8	-151.44	-135.71	801744.4	504669.3	32°23'04.4"	103°29'22.8"	0.76
8706.8	0.97	352.03	8703.28	149.72	-150.36	-136.02	801744.1	504670.3	32°23'04.5"	103°29'22.8"	0.66
8801.1	1.46	354.69	8797.56	147.73	-148.38	-136.24	801743.9	504672.3	32°23'04.5"	103°29'22.8"	0.52
8895.4	1.61	8.76	8891.83	145.23	-145.87	-136.15	801744	504674.8	32°23'04.5"	103°29'22.8"	0.43
8990	1.76	4.08	8986.38	142.46	-143.11	-135.84	801744.3	504677.6	32°23'04.5"	103°29'22.8"	0.22
9084.6	1.83	356.71	9080.94	139.51	-140.15	-135.83	801744.3	504680.6	32°23'04.6"	103°29'22.8"	0.25
9179.2	1.69	3.29	9175.49	136.61	-137.25	-135.83	801744.3	504683.5	32°23'04.6"	103°29'22.8"	0.26
9273.7	1.51	12.72	9269.96	134	-134.65	-135.48	801744.7	504686.1	32°23'04.6"	103°29'22.8"	0.34
9368.4	1.23	23.61	9364.63	131.86	-132.5	-134.8	801745.3	504688.2	32°23'04.6"	103°29'22.8"	0.4
9462.9	1.38	35.05	9459.11	130	-130.64	-133.74	801746.4	504690.1	32°23'04.7"	103°29'22.8"	0.32
9557.2	1.52	33.22	9553.38	128.03	-128.66	-132.4	801747.7	504692	32°23'04.7"	103°29'22.8"	0.16
9651.5	1.09	36.07	9647.65	126.27	-126.89	-131.19	801749	504693.8	32°23'04.7"	103°29'22.8"	0.46
9746	1.04	38.37	9742.13	124.87	-125.49	-130.13	801750	504695.2	32°23'04.7"	103°29'22.8"	0.07
9840.6	0.88	37.88	9836.72	123.63	-124.24	-129.15	801751	504696.5	32°23'04.7"	103°29'22.8"	0.17
9934.8	1.09	42.88	9930.91	122.41	-123.02	-128.09	801752.1	504697.7	32°23'04.7"	103°29'22.8"	0.24
10029.1	1.21	31.9	10025.19	120.91	-121.51	-126.96	801753.2	504699.2	32°23'04.7"	103°29'22.8"	0.27
10123.6	0.91	29.46	10119.67	119.42	-120.01	-126.06	801754.1	504700.7	32°23'04.8"	103°29'22.8"	0.32
10218.1	0.88	80.84	10214.16	118.65	-119.25	-124.98	801755.2	504701.5	32°23'04.8"	103°29'22.8"	0.82
10312.5	2.13	100.06	10308.53	118.85	-119.44	-122.53	801757.6	504701.3	32°23'04.8"	103°29'22.8"	1.41
10407	2.1	105.96	10402.96	119.65	-120.22	-119.14	801761	504700.5	32°23'04.8"	103°29'22.8"	0.23
10501.3	1.85	37.22	10497.22	118.93	-119.48	-116.56	801763.6	504701.2	32°23'04.8"	103°29'22.8"	2.37
10595.6	2.62	6.2	10591.45	115.58	-116.13	-115.4	801764.7	504704.6	32°23'04.8"	103°29'22.8"	1.49
10690.2	1.57	350.7	10685.99	112.15	-112.7	-115.38	801764.8	504708	32°23'04.8"	103°29'22.8"	1.25
10723.6	1.27	22.83	10719.38	111.36	-111.91	-115.31	801764.8	504708.8	32°23'04.8"	103°29'22.8"	2.51
10805	0.2	250.4	10800.77	110.58	-111.12	-115.09	801765.1	504709.6	32°23'04.8"	103°29'22.8"	1.74
10837	2.7	186.9	10832.76	111.34	-111.89	-115.24	801764.9	504708.8	32°23'04.8"	103°29'22.8"	8.18
10868	6.5	182.7	10863.65	113.82	-114.37	-115.41	801764.7	504706.3	32°23'04.8"	103°29'22.8"	12.3
10900	11.6	182.8	10895.24	118.84	-119.39	-115.65	801764.5	504701.3	32°23'04.8"	103°29'22.8"	15.94
10931	16.3	182.9	10925.32	126.3	-126.86	-116.02	801764.1	504693.9	32°23'04.7"	103°29'22.8"	15.16
10963	20.2	182.9	10955.71	136.31	-136.86	-116.53	801763.6	504683.8	32°23'04.6"	103°29'22.8"	12.19
10994	24	182.1	10984.42	147.96	-148.51	-117.03	801763.1	504672.2	32°23'04.5"	103°29'22.8"	12.3
11025	27.9	180.5	11012.29	161.51	-162.07	-117.32	801762.8	504658.6	32°23'04.3"	103°29'22.8"	12.78
11057	31.4	179.2	11040.1	177.34	-177.9	-117.27	801762.9	504642.8	32°23'04.2"	103°29'22.8"	11.12
11089	34.6	178	11066.93	194.76	-195.32	-116.84	801763.3	504625.4	32°23'04.0"	103°29'22.8"	10.21
11120	38.1	177.2	11091.9	213.12	-213.67	-116.07	801764.1	504607	32°23'03.8"	103°29'22.8"	11.39
11151	41.9	176.8	11115.64	233.02	-233.57	-115.02	801765.1	504587.1	32°23'03.6"	103°29'22.8"	12.29
11183	45.2	176.7	11138.83	255.03	-255.58	-113.77	801766.4	504565.1	32°23'03.4"	103°29'22.8"	10.31
11214	49	176.6	11159.93	277.71	-278.24	-112.44	801767.7	504542.5	32°23'03.2"	103°29'22.8"	12.26
11246	52.4	176.4	11180.19	302.43	-302.95	-110.93	801769.2	504517.8	32°23'02.9"	103°29'22.8"	10.64
11277	55.1	176.1	11198.52	327.38	-327.9	-109.29	801770.9	504492.8	32°23'02.7"	103°29'22.8"	8.74
11309	58.1	176.4	11216.14	354.04	-354.55	-107.55	801772.6	504466.2	32°23'02.4"	103°29'22.8"	9.41
11340	60.6	176.6	11231.94	380.66	-381.17	-105.92	801774.2	504439.5	32°23'02.2"	103°29'22.8"	8.08
11372	62.7	176.9	11247.13	408.79	-409.29	-104.32	801775.8	504411.4	32°23'01.9"	103°29'22.8"	6.61
11403	65.3	177.8	11260.72	436.62	-437.12	-103.04	801777.1	504383.6	32°23'01.6"	103°29'22.8"	8.78

11434	67.2	178.4	11273.21	464.98	-465.47	-102.1	801778	504355.2	32°23'01.3"	103°29'22.0"	6.38
11466	69.9	178.4	11284.91	494.76	-495.24	-101.27	801778.9	504325.5	32°23'01.0"	103°29'22.0"	8.44
11497	72.5	178.8	11294.9	524.1	-524.58	-100.55	801779.6	504296.1	32°23'00.8"	103°29'22.0"	8.48
11529	74.5	178.6	11303.98	554.77	-555.25	-99.86	801780.3	504265.5	32°23'00.4"	103°29'22.0"	6.28
11560	77.8	178.4	11311.4	584.86	-585.33	-99.07	801781.1	504235.4	32°23'00.1"	103°29'22.0"	10.66
11590	81.5	178.8	11316.79	614.36	-614.83	-98.35	801781.8	504205.9	32°22'59.9"	103°29'22.0"	12.4
11615	83.5	178.8	11320.06	639.14	-639.61	-97.83	801782.3	504181.1	32°22'59.6"	103°29'22.0"	8
11647	85.4	178.7	11323.15	670.99	-671.45	-97.13	801783	504149.3	32°22'59.3"	103°29'22.0"	5.95
11678	88	178.6	11324.93	701.93	-702.39	-96.4	801783.7	504118.3	32°22'59.0"	103°29'22.0"	8.39
11710	90	178.2	11325.49	733.91	-734.37	-95.51	801784.6	504086.3	32°22'58.7"	103°29'22.0"	6.37
11741	90.2	178.2	11325.44	764.9	-765.36	-94.54	801785.6	504055.4	32°22'58.4"	103°29'22.0"	0.65
11804	90.4	178.6	11325.11	827.88	-828.33	-92.78	801787.4	503992.4	32°22'57.7"	103°29'22.0"	0.71
11867	90.5	178.7	11324.61	890.87	-891.31	-91.29	801788.9	503929.4	32°22'57.1"	103°29'22.0"	0.22
11961	88.9	178.4	11325.11	984.84	-985.28	-88.92	801791.2	503835.4	32°22'56.2"	103°29'22.0"	1.73
12056	88.5	178.7	11327.26	1079.8	-1080.22	-86.51	801793.6	503740.5	32°22'55.3"	103°29'22.0"	0.53
12150	87.6	178.9	11330.46	1173.73	-1174.15	-84.54	801795.6	503646.6	32°22'54.3"	103°29'22.0"	0.98
12245	87.2	178.9	11334.77	1268.62	-1269.03	-82.72	801797.4	503551.7	32°22'53.4"	103°29'22.0"	0.42
12339	87.8	178.9	11338.87	1362.52	-1362.92	-80.92	801799.2	503457.8	32°22'52.5"	103°29'22.0"	0.64
12434	90.3	179.2	11340.44	1457.5	-1457.89	-79.34	801800.8	503362.8	32°22'51.5"	103°29'22.0"	2.65
12529	91.2	179	11339.2	1552.48	-1552.87	-77.85	801802.3	503267.9	32°22'50.6"	103°29'22.0"	0.97
12623	90.8	179.2	11337.56	1646.46	-1646.84	-76.38	801803.8	503173.9	32°22'49.6"	103°29'22.0"	0.48
12718	91.1	177.8	11335.99	1741.42	-1741.79	-73.89	801806.3	503078.9	32°22'48.7"	103°29'22.0"	1.51
12812	91.2	177.9	11334.1	1835.35	-1835.71	-70.36	801809.8	502985	32°22'47.8"	103°29'22.0"	0.15
12907	90.9	178	11332.36	1930.29	-1930.63	-66.97	801813.2	502890.1	32°22'46.8"	103°29'22.0"	0.33
13001	90	177.7	11331.62	2024.24	-2024.56	-63.44	801816.7	502796.2	32°22'45.9"	103°29'22.0"	1.01
13096	89.7	177.1	11331.87	2119.16	-2119.46	-59.13	801821	502701.3	32°22'45.0"	103°29'22.0"	0.71
13190	89	176.8	11332.93	2213.04	-2213.32	-54.13	801826	502607.4	32°22'44.0"	103°29'22.0"	0.81
13284	89.2	178	11334.41	2306.95	-2307.21	-49.87	801830.3	502513.5	32°22'43.1"	103°29'22.0"	1.29
13379	89.1	178.2	11335.82	2401.9	-2402.15	-46.72	801833.4	502418.6	32°22'42.2"	103°29'22.0"	0.24
13473	89.3	178.2	11337.13	2495.86	-2496.09	-43.76	801836.4	502324.6	32°22'41.2"	103°29'22.0"	0.21
13568	88.7	177.9	11338.79	2590.8	-2591.02	-40.53	801839.6	502229.7	32°22'40.3"	103°29'22.0"	0.71
13662	89.2	178.6	11340.51	2684.76	-2684.96	-37.66	801842.5	502135.8	32°22'39.4"	103°29'22.0"	0.92
13757	89.51	179.02	11341.58	2779.74	-2779.94	-35.69	801844.5	502040.8	32°22'38.4"	103°29'22.0"	0.55
13851	90.3	179.5	11341.74	2873.73	-2873.93	-34.48	801845.7	501946.8	32°22'37.5"	103°29'22.0"	0.98
13946	90.3	180	11341.24	2968.73	-2968.93	-34.06	801846.1	501851.8	32°22'36.6"	103°29'22.0"	0.53
14041	88.3	179.9	11342.4	3063.72	-3063.91	-33.98	801846.2	501756.8	32°22'35.6"	103°29'22.0"	2.11
14135	88.7	178.4	11344.86	3157.68	-3157.87	-32.58	801847.6	501662.9	32°22'34.7"	103°29'22.0"	1.65
14230	90.4	177.6	11345.61	3252.63	-3252.8	-29.27	801850.9	501568	32°22'33.8"	103°29'22.0"	1.98
14324	91.2	178.3	11344.3	3346.57	-3346.73	-25.91	801854.2	501474	32°22'32.8"	103°29'22.0"	1.13
14419	90.2	178.2	11343.14	3441.53	-3441.68	-23.01	801857.1	501379.1	32°22'31.9"	103°29'22.0"	1.06
14513	90.6	179.2	11342.48	3535.51	-3535.65	-20.87	801859.3	501285.1	32°22'31.0"	103°29'22.0"	1.15
14608	88.3	178.6	11343.39	3630.49	-3630.62	-19.05	801861.1	501190.1	32°22'30.0"	103°29'22.0"	2.5
14703	88.1	178.9	11346.38	3725.43	-3725.55	-16.98	801863.2	501095.2	32°22'29.1"	103°29'22.0"	0.38
14797	89.1	177.9	11348.67	3819.38	-3819.49	-14.35	801865.8	501001.3	32°22'28.1"	103°29'22.0"	1.5
14891	89.2	178.8	11350.07	3913.34	-3913.44	-11.65	801868.5	500907.3	32°22'27.2"	103°29'22.0"	0.96
14986	89.9	179.5	11350.81	4008.33	-4008.42	-10.24	801869.9	500812.3	32°22'26.3"	103°29'21.0"	1.04
15080	89.1	178.5	11351.63	4102.32	-4102.4	-8.6	801871.5	500718.4	32°22'25.3"	103°29'21.0"	1.36
15175	89.7	177.1	11352.63	4197.25	-4197.32	-4.95	801875.2	500623.4	32°22'24.4"	103°29'21.0"	1.6
15270	90.3	177.4	11352.63	4292.16	-4292.21	-0.39	801879.8	500528.6	32°22'23.5"	103°29'21.0"	0.71
15364	90.4	177.7	11352.05	4386.09	-4386.13	3.62	801883.8	500434.6	32°22'22.5"	103°29'21.0"	0.34
15459	89.9	178.3	11351.81	4481.05	-4481.07	6.94	801887.1	500339.7	32°22'21.6"	103°29'21.0"	0.82
15553	90.2	178.7	11351.72	4575.03	-4575.03	9.4	801889.5	500245.7	32°22'20.7"	103°29'21.0"	0.53
15647	90.6	179	11351.07	4669.01	-4669.01	11.29	801891.4	500151.8	32°22'19.7"	103°29'21.0"	0.53
15742	88.4	179.3	11351.9	4764	-4763.99	12.7	801892.8	500056.8	32°22'18.8"	103°29'21.0"	2.34
15836	88.7	180.1	11354.27	4857.97	-4857.96	13.19	801893.3	499962.8	32°22'17.9"	103°29'21.0"	0.91
15931	89.2	179.4	11356.02	4952.95	-4952.94	13.6	801893.7	499867.8	32°22'16.9"	103°29'21.0"	0.91
16025	89.2	178.7	11357.33	5046.94	-5046.92	15.16	801895.3	499773.9	32°22'16.0"	103°29'21.0"	0.74
16075	89.1	178.2	11358.07	5096.92	-5096.9	16.51	801896.7	499723.9	32°22'15.5"	103°29'21.0"	1.02
16126	89.1	178.2	11358.87	5147.89	-5147.87	18.11	801898.3	499672.9	32°22'15.0"	103°29'21.0"	0

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]				
No.10H PBHL		11356	-5149.21	24.4	801904.5	499671.6	32°22'15.0"	103°29'21.1"	rectangle	

WELLPATH COMPOSITION Ref Wellbore: No.10H AWB Ref Wellpath: No.10H AWP

Log Name/	Start MD	End MD	Pos Unc	Model
	[ft]	[ft]		

GyroData C	0	10723.6		Generic gyro - northseeking (Standard)
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BHI MWD I	10723.6	16075		NaviTrak (Standard)
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Projection	16075	16126		Blind Drilling (std)
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Stimulations Summary

District PERMIAN BASIN	County LEA	Field Name OJO CHISO	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC17 T2S R34E	API/UWI 3002541183	Latitude (") 32° 23' 5.983" N	Longitude (") 103° 29' 21.509" W	Ground Elev... 3,467.60
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,492.60
				Tubing Head Elevation (ft)
HYBRID SW PAD - XLG , 11/4/2013 12:36 , BONE SPRING 3RD, OH , 15,674.0 ftKB - 15,992.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6270.36	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,927.0	Avg Treat Pressur... 8,069.0
				Q Treat Avg (bbl/... 62
				P Max (psi) 8,639.0
				Q Treat Max (bbl/... 78
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/5/2013 07:56 , BONE SPRING 3RD, OH , 15,258.0 ftKB - 15,576.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6240.98	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 4,974.0	Avg Treat Pressur... 7,805.0
				Q Treat Avg (bbl/... 68
				P Max (psi) 8,417.0
				Q Treat Max (bbl/... 78
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/5/2013 14:05 , BONE SPRING 3RD, OH , 14,842.0 ftKB - 15,160.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6200.52	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,175.0	Avg Treat Pressur... 7,969.0
				Q Treat Avg (bbl/... 65
				P Max (psi) 8,402.0
				Q Treat Max (bbl/... 75
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/6/2013 06:34 , BONE SPRING 3RD, OH , 14,426.0 ftKB - 14,744.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6416.55	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,836.0	Avg Treat Pressur... 8,156.0
				Q Treat Avg (bbl/... 60
				P Max (psi) 8,775.0
				Q Treat Max (bbl/... 97
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/6/2013 11:43 , BONE SPRING 3RD, OH , 14,010.0 ftKB - 14,328.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6134.21	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,386.0	Avg Treat Pressur... 8,007.0
				Q Treat Avg (bbl/... 65
				P Max (psi) 8,632.0
				Q Treat Max (bbl/... 73
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/6/2013 19:01 , BONE SPRING 3RD, OH , 13,595.0 ftKB - 13,912.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6207.12	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,555.0	Avg Treat Pressur... 8,163.0
				Q Treat Avg (bbl/... 77
				P Max (psi) 8,937.0
				Q Treat Max (bbl/... 80
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/7/2013 08:55 , BONE SPRING 3RD, OH , 13,179.0 ftKB - 13,497.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6173.95	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,256.0	Avg Treat Pressur... 8,065.0
				Q Treat Avg (bbl/... 67
				P Max (psi) 8,858.0
				Q Treat Max (bbl/... 78
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/7/2013 17:42 , BONE SPRING 3RD, OH , 12,763.0 ftKB - 13,081.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6124.62	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,333.0	Avg Treat Pressur... 7,969.0
				Q Treat Avg (bbl/... 72
				P Max (psi) 8,741.0
				Q Treat Max (bbl/... 80
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/8/2013 08:00 , BONE SPRING 3RD, OH , 12,347.0 ftKB - 12,665.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6069.33	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,316.0	Avg Treat Pressur... 7,946.0
				Q Treat Avg (bbl/... 72
				P Max (psi) 8,419.0
				Q Treat Max (bbl/... 80
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/8/2013 13:04 , BONE SPRING 3RD, OH , 11,931.0 ftKB - 12,249.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6156.45	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,235.0	Avg Treat Pressur... 7,947.0
				Q Treat Avg (bbl/... 66
				P Max (psi) 8,566.0
				Q Treat Max (bbl/... 76
				Conc Max... 4.00
HYBRID SW PAD - XLG , 11/8/2013 18:35 , BONE SPRING 3RD, OH , 11,515.0 ftKB - 11,831.0 ftKB, HALLIBURTON , CRC Resin Coated Sand (Santr				
Proppant De... 355,000.0	Total Clean Volu... 6248.69	Pre Trt S/I Prs (psi) Pst Trt S/I Prs (psi)	P Break (psi) ISIP (psi) 5,182.0	Avg Treat Pressur... 7,652.0
				Q Treat Avg (bbl/... 73
				P Max (psi) 8,171.0
				Q Treat Max (bbl/... 76
				Conc Max... 4.00