

Results of Directional Survey

API number:	30-025-41184		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	GAUCHO UNIT # 11H

surface	ULSTR:	O	17	T	22S	R	34E
				200	FSL	1730	FEL

BH Loc	ULSTR:	B	17	T	22S	R	34E
16010	MD	11301.1	TVD	329	FNL	1754	FEL
				4951	FSL		

Top Perf/OH	ULSTR:	O	17	T	22S	R	34E
11401	MD	11280.0	TVD	365	FSL	1912	FEL

Bot Perf/OH	ULSTR:	B	17	T	22S	R	34E
15882	MD	11301.4	TVD	369	FNL	1764	FEL
				4911	FSL		

	MD	N/S	E/W	VD
	11369	139.92	-166.73	11268.28
TOP PERFS/OH	11401	165.31	-182.26	11280.00
	11401	165.31	-182.26	11280.00
	15812	4883.90	-39.45	11300.80
BOT PERFS/OH	15882	4710.54	-34.09	11301.42
	15907	4648.62	-32.18	11301.64

NEXT TO LAST	15959	4700.46	-28.12	11301.43
LAST READING	16010	4751.31	-24.21	11301.08
TD	16010	4751.31	-24.21	11301.08

Surface Location	200	FS	1730	FE
Projected BHL	4951	FS	1754	FE
Location of				
Top Perfs/OH	365	FS	1912	FE
Bottom Perfs/OH	4911	FS	1764	FE

SUMMARY of Subsurface Locations

Surface Location	O-17-22S-34E	200	FS	1730	FE	Vert. Depth
Top Perfs/OH	O-17-22S-34E	365	FS	1912	FE	11280.00
Bottom Perfs/OH	B-17-22S-34E	4911	FS	1764	FE	11301.42
Projected TD	B-17-22S-34E	4951	FS	1754	FE	11301.08

FEB 20 2014



Company: Devon Energy
Lease/Well: Gaucho Unit/No 011H
Location: 19 miles SW of Monument, NM
Rig Name: H&P 394
State/County: New Mexico/Lea
Latitude: 32.38, Longitude: -103.49
GRID North is 0.45 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 25 ft

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ms gyro survey.ut
Minimum Curvature Method
Report Date/Time: 9/27/2013 / 12:52

Vaughn Energy Services
Midland, TX
432-563-5444

Surveyor: Jeremy Rounsavall
Gaucho Unit No 011H / API 30-025-41184

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
118.66	0.12	171.16	118.66	-0.12	0.02	-0.12	0.12	171.16	0.10
213.07	0.64	175.10	213.07	-0.74	0.08	-0.74	0.74	173.96	0.56
307.48	0.19	171.83	307.47	-1.42	0.15	-1.42	1.43	174.14	0.47
401.89	0.72	181.73	401.88	-2.17	0.15	-2.17	2.18	176.03	0.56
496.30	0.78	180.11	496.28	-3.41	0.13	-3.41	3.41	177.79	0.07
590.71	0.40	186.92	590.69	-4.38	0.09	-4.38	4.38	178.81	0.42
685.12	0.82	179.65	685.09	-5.38	0.06	-5.38	5.38	179.41	0.45
779.53	0.86	173.06	779.49	-6.75	0.15	-6.75	6.75	178.77	0.11
873.94	0.78	183.51	873.89	-8.10	0.19	-8.10	8.10	178.65	0.18
968.35	0.38	227.84	968.30	-8.95	-0.08	-8.95	8.95	180.53	0.61
1062.76	0.40	236.41	1062.71	-9.35	-0.59	-9.35	9.37	183.64	0.07
1157.17	0.60	188.89	1157.11	-10.03	-0.95	-10.03	10.07	185.40	0.47
1251.58	0.60	185.88	1251.52	-11.01	-1.08	-11.01	11.06	185.58	0.03
1345.99	0.39	233.07	1345.92	-11.70	-1.39	-11.70	11.78	186.75	0.47
1440.40	0.56	232.16	1440.33	-12.18	-2.01	-12.18	12.34	189.36	0.17
1534.81	0.57	195.97	1534.74	-12.91	-2.50	-12.91	13.15	190.95	0.37
1629.22	0.48	192.58	1629.14	-13.76	-2.72	-13.76	14.02	191.17	0.10
1723.63	0.27	243.03	1723.55	-14.25	-3.00	-14.25	14.56	191.91	0.40

Depth FT	Angle Deg	Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
1818.04	0.35	268.58	1817.96	-14.36	-3.50	-14.36	14.78	193.69	0.17
1912.45	0.32	284.04	1912.37	-14.30	-4.04	-14.30	14.86	195.79	0.10
2006.86	0.38	197.77	2006.78	-14.53	-4.39	-14.53	15.18	196.82	0.51
2101.27	0.40	193.56	2101.18	-15.15	-4.57	-15.15	15.82	196.77	0.04
2195.68	0.30	156.02	2195.59	-15.70	-4.54	-15.70	16.34	196.13	0.26
2290.09	0.26	143.87	2290.00	-16.10	-4.31	-16.10	16.67	194.99	0.08
2384.50	0.30	114.16	2384.41	-16.38	-3.96	-16.38	16.85	193.59	0.16
2478.91	0.33	119.21	2478.82	-16.61	-3.50	-16.61	16.97	191.90	0.04
2573.32	0.41	112.94	2573.23	-16.87	-2.95	-16.87	17.13	189.93	0.10
2667.73	0.42	79.25	2667.63	-16.94	-2.31	-16.94	17.10	187.75	0.25
2762.14	0.97	36.61	2762.04	-16.23	-1.49	-16.23	16.30	185.25	0.77
2856.55	1.27	32.06	2856.43	-14.70	-0.46	-14.70	14.71	181.78	0.33
2950.96	1.17	60.79	2950.82	-13.34	0.94	-13.34	13.37	175.96	0.65
3045.37	1.30	87.05	3045.21	-12.81	2.85	-12.81	13.13	167.46	0.61
3139.78	1.46	50.74	3139.59	-11.99	4.85	-11.99	12.94	157.98	0.93
3234.19	1.55	29.04	3233.97	-10.12	6.40	-10.12	11.97	147.67	0.61
3328.60	1.59	51.41	3328.35	-8.19	8.04	-8.19	11.48	135.51	0.64
3423.01	1.25	70.90	3422.73	-7.04	10.04	-7.04	12.26	125.03	0.62
3517.42	1.44	46.73	3517.11	-5.89	11.87	-5.89	13.25	116.37	0.63
3611.83	1.34	40.77	3611.49	-4.23	13.46	-4.23	14.11	107.46	0.18
3706.24	0.81	41.63	3705.89	-2.90	14.62	-2.90	14.91	101.22	0.57
3800.65	0.65	89.80	3800.29	-2.40	15.60	-2.40	15.78	98.76	0.65
3895.06	0.61	78.87	3894.70	-2.30	16.62	-2.30	16.78	97.89	0.13
3989.47	0.59	133.33	3989.10	-2.54	17.46	-2.54	17.65	98.27	0.58
4083.88	0.77	122.16	4083.50	-3.20	18.35	-3.20	18.63	99.91	0.24
4178.29	0.80	81.23	4177.91	-3.44	19.53	-3.44	19.83	99.99	0.58
4272.70	0.74	55.65	4272.31	-3.00	20.68	-3.00	20.90	98.25	0.36
4367.11	0.60	45.94	4366.71	-2.31	21.54	-2.31	21.67	96.12	0.19
4461.52	0.45	29.78	4461.12	-1.64	22.08	-1.64	22.14	94.25	0.23
4555.93	0.43	11.43	4555.52	-0.98	22.34	-0.98	22.36	92.50	0.15
4650.34	0.38	4.46	4649.93	-0.32	22.43	-0.32	22.43	90.81	0.07
4744.75	0.40	8.31	4744.34	0.32	22.50	0.32	22.51	89.18	0.03
4839.16	0.36	13.52	4838.75	0.94	22.62	0.94	22.64	87.62	0.06
4933.57	0.01	160.36	4933.16	1.22	22.69	1.22	22.73	86.92	0.39
5027.98	0.26	180.13	5027.57	1.00	22.70	1.00	22.72	87.48	0.26
5122.39	0.11	198.56	5121.98	0.70	22.67	0.70	22.68	88.23	0.17
5216.80	0.27	99.38	5216.39	0.58	22.85	0.58	22.86	88.54	0.32
5311.21	0.34	326.11	5310.80	0.78	22.91	0.78	22.93	88.06	0.59
5405.62	0.24	57.33	5405.20	1.12	22.93	1.12	22.95	87.21	0.45

Depth FT	Angle Deg	Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
5500.03	0.23	87.82	5499.61	1.23	23.29	1.23	23.32	86.97	0.13
5594.44	0.49	170.79	5594.02	0.84	23.54	0.84	23.56	87.95	0.55
5688.85	0.37	111.73	5688.43	0.33	23.90	0.33	23.90	89.22	0.46
5783.26	0.16	164.42	5782.84	0.09	24.22	0.09	24.22	89.80	0.32
5877.67	0.15	155.86	5877.25	-0.16	24.31	-0.16	24.31	90.37	0.03
5972.08	0.71	204.74	5971.66	-0.80	24.11	-0.80	24.13	91.90	0.65
6066.49	0.73	214.68	6066.06	-1.83	23.53	-1.83	23.60	94.44	0.13
6160.90	0.86	238.37	6160.46	-2.69	22.58	-2.69	22.74	96.80	0.37
6255.31	0.62	167.68	6254.86	-3.56	22.09	-3.56	22.37	99.16	0.93
6349.72	0.61	79.53	6349.27	-3.97	22.69	-3.97	23.04	99.92	0.91
6444.13	0.59	71.80	6443.67	-3.72	23.65	-3.72	23.94	98.95	0.09
6538.54	0.95	137.69	6538.08	-4.15	24.63	-4.15	24.98	99.56	0.94
6632.95	1.05	143.25	6632.47	-5.42	25.68	-5.42	26.24	101.92	0.15
6727.36	0.93	143.14	6726.87	-6.73	26.66	-6.73	27.49	104.17	0.12
6821.77	1.03	144.19	6821.27	-8.03	27.62	-8.03	28.76	106.22	0.11
6916.18	0.91	159.08	6915.66	-9.43	28.38	-9.43	29.91	108.37	0.29
7010.59	0.75	145.79	7010.06	-10.64	29.00	-10.64	30.89	110.15	0.27
7105.00	1.21	169.72	7104.46	-12.13	29.52	-12.13	31.92	112.34	0.65
7199.41	0.84	196.99	7198.85	-13.78	29.50	-13.78	32.55	115.04	0.64
7293.82	0.72	209.30	7293.25	-14.96	29.00	-14.96	32.63	117.29	0.22
7388.23	0.67	218.78	7387.66	-15.91	28.36	-15.91	32.52	119.30	0.13
7482.64	0.46	227.76	7482.06	-16.60	27.73	-16.60	32.32	120.90	0.24
7577.05	0.41	226.93	7576.47	-17.09	27.20	-17.09	32.13	122.13	0.05
7671.46	0.93	203.21	7670.87	-18.02	26.65	-18.02	32.18	124.07	0.61
7765.87	0.63	229.40	7765.28	-19.07	25.96	-19.07	32.21	126.30	0.49
7860.28	0.67	197.45	7859.68	-19.93	25.40	-19.93	32.28	128.12	0.38
7954.69	0.76	217.86	7954.08	-20.95	24.85	-20.95	32.50	130.14	0.28
8049.10	1.19	214.69	8048.48	-22.26	23.90	-22.26	32.66	132.96	0.46
8143.51	1.03	218.37	8142.87	-23.73	22.82	-23.73	32.92	136.12	0.19
8237.92	0.89	187.58	8237.27	-25.11	22.20	-25.11	33.52	138.53	0.56
8332.33	0.55	177.08	8331.67	-26.29	22.12	-26.29	34.36	139.92	0.38
8426.74	0.48	198.30	8426.08	-27.12	22.02	-27.12	34.94	140.92	0.21
8521.15	0.24	167.29	8520.48	-27.69	21.94	-27.69	35.33	141.61	0.32
8615.56	0.95	165.05	8614.89	-28.65	22.19	-28.65	36.24	142.24	0.75
8709.97	0.87	191.95	8709.29	-30.11	22.24	-30.11	37.43	143.54	0.46
8804.38	0.92	213.89	8803.69	-31.44	21.67	-31.44	38.19	145.42	0.36
8898.79	0.96	219.96	8898.08	-32.67	20.74	-32.67	38.70	147.59	0.12
8993.20	0.82	245.89	8992.48	-33.56	19.62	-33.56	38.87	149.69	0.45
9087.61	0.56	270.29	9086.89	-33.83	18.54	-33.83	38.58	151.27	0.41

Depth FT	Angle Deg	Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Section FT	Distance FT	Direction Deg	Logleg Severity Deg/100
9182.02	0.50	299.91	9181.29	-33.62	17.73	-33.62	38.01	152.20	0.29
9276.43	0.67	323.24	9275.70	-32.97	17.04	-32.97	37.11	152.67	0.31
9370.84	0.86	330.48	9370.10	-31.91	16.36	-31.91	35.86	152.86	0.22
9465.25	1.12	343.43	9464.49	-30.41	15.75	-30.41	34.25	152.63	0.36
9559.66	1.10	349.16	9558.89	-28.64	15.31	-28.64	32.48	151.87	0.12
9654.07	0.82	354.19	9653.28	-27.08	15.08	-27.08	30.99	150.89	0.30
9748.48	0.61	324.30	9747.69	-26.00	14.71	-26.00	29.87	150.49	0.45
9842.89	1.10	275.55	9842.09	-25.50	13.51	-25.50	28.86	152.08	0.89
9937.30	1.87	113.24	9936.48	-26.02	14.02	-26.02	29.56	151.68	3.11
10031.71	1.63	111.54	10030.85	-27.12	16.69	-27.12	31.84	148.39	0.25
10126.12	1.33	133.61	10125.23	-28.37	18.73	-28.37	33.99	146.56	0.68
10220.53	1.72	173.18	10219.61	-30.53	19.69	-30.53	36.33	147.18	1.16
10314.94	2.31	176.25	10313.96	-33.83	19.98	-33.83	39.29	149.43	0.64
10409.35	1.26	208.65	10408.32	-36.64	19.61	-36.64	41.56	151.85	1.50
10503.76	1.45	275.47	10502.71	-37.44	17.92	-37.44	41.51	154.42	1.59
10598.17	1.94	271.07	10597.08	-37.30	15.14	-37.30	40.26	157.90	0.54
10738.35	2.69	251.67	10737.15	-38.29	9.65	-38.29	39.49	165.85	0.77



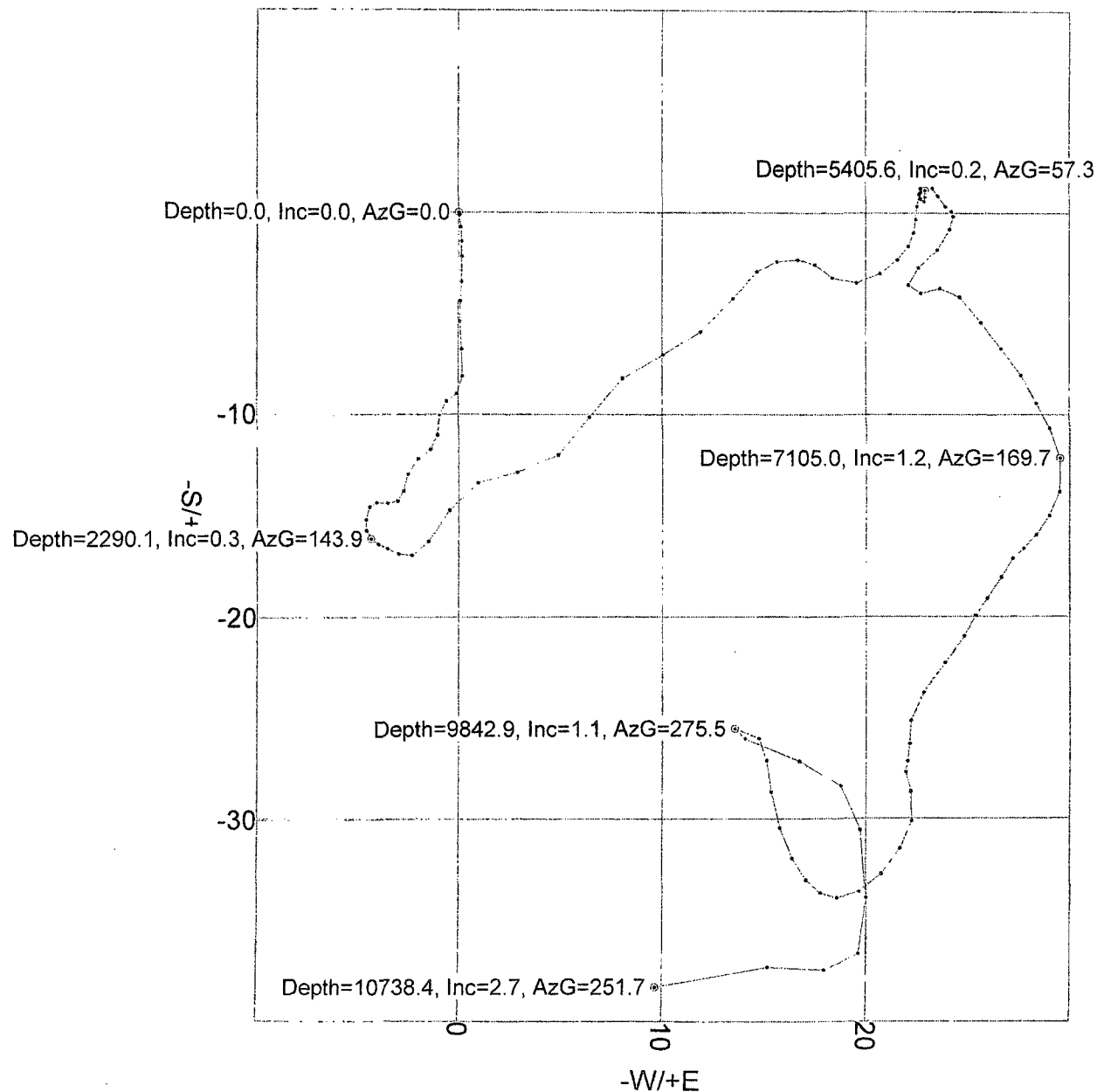
Vaughn Energy Services
Midland, TX
432-563-5444
Surveyor: Jeremy Rounsavall
Gaucho Unit No 011H / API 30-025-41184



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VES Survey Date: 09/22/2013

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Devon Energy

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

Slot: No.11H SHL
Well: No.11H
Wellbore: No.11H PWB

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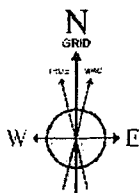
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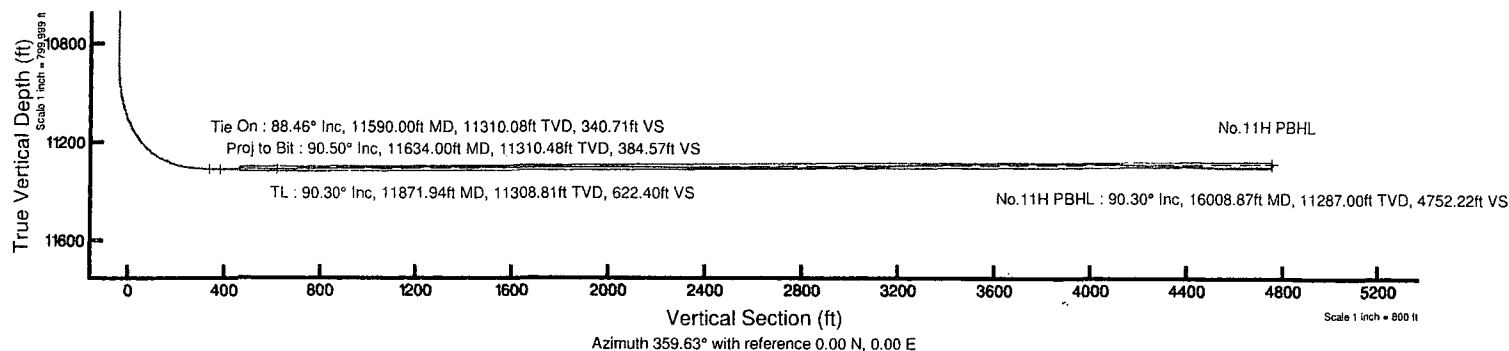
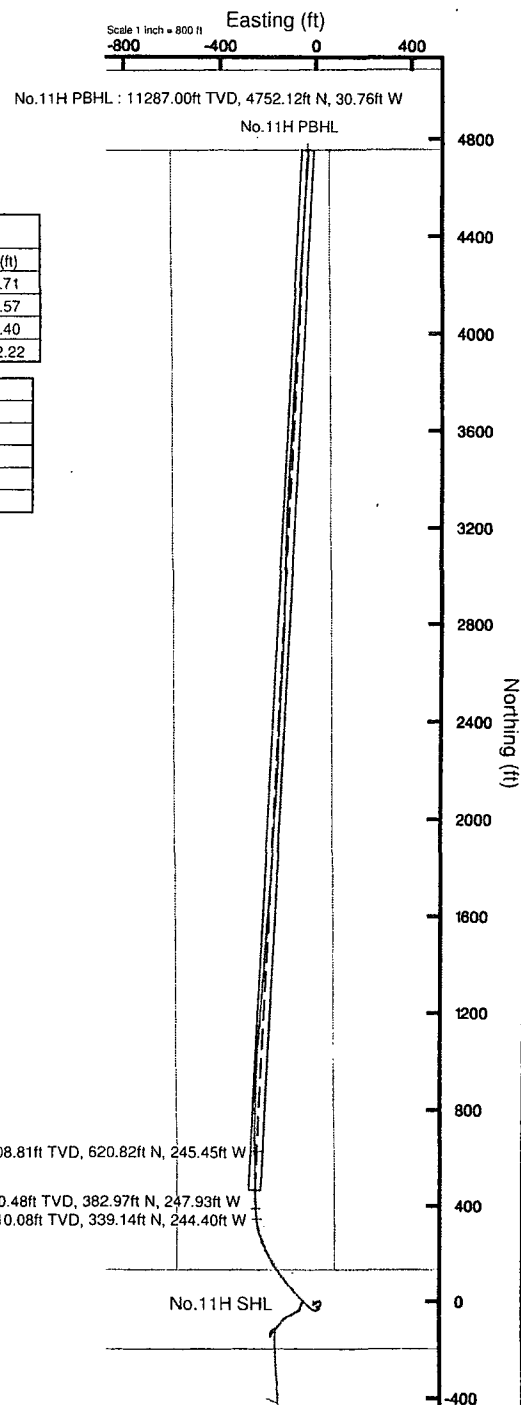
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Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	11590.00	88.460	352.570	11310.08	339.14	-244.40	0.00	340.71
Proj to Bit	11634.00	90.500	358.220	11310.48	382.97	-247.93	13.65	384.57
TL	11871.94	90.302	2.975	11308.81	620.82	-245.45	2.00	622.40
No.11H PBHL	16008.87	90.302	2.975	11287.00	4752.12	-30.76	0.00	4752.22

Plot reference wellpath is Rev-D.0	
True vertical depths are referenced to Rig on No.11H SHL (KB)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.11H SHL (KB)	North Reference: Grid north
Rig on No.11H SHL (KB) to Mean Sea Level: 3492.9 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.11H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 27/Sep/2013



BGGM (1945.0 to 2015.0) Dip: 60.29° Field: 48508.9 nT
Magnetic North is 7.41 degrees East of True North (at 08/Jul/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



Rev-D.0



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JAN 07 2014

Actual Wellpath Report

No. 11 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.11H SHL
Area	Lea County, NM	Well	No.11H
Field	(Gaucho) Sec 17, T22S, R34E	Wellbore	No. 11 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® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999987	Report Generated	10/7/2013 at 1:45:43 PM
Convergence at slot	0.45° East	Database/Source file	MidlandDB/No. 11_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.40	49.99	801930.13	504821.10	32°23'05.983"N	103°29'20.926"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.11H SHL (KB) to Facility Vertical Datum	3492.90ft
Horizontal Reference Pt	Slot	Rig on No.11H SHL (KB) to Mean Sea Level	3492.90ft
Vertical Reference Pt	Rig on No.11H SHL (KB)	Rig on No.11H SHL (KB) to Mud Line at Slot (No.11H SHL)	3492.90ft
MD Reference Pt	Rig on No.11H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.63°



devon

Actual Wellpath Report

No. 11 AWP

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (189 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	171.160	0.00	0.00	0.00	0.00	801930.13	504821.10	32°23'05.983"N	103°29'20.926"W	0.00	
118.66	0.120	171.160	118.66	-0.12	-0.12	0.02	801930.15	504820.98	32°23'05.982"N	103°29'20.926"W	0.10	
213.07	0.640	175.100	213.07	-0.75	-0.75	0.08	801930.21	504820.35	32°23'05.976"N	103°29'20.925"W	0.55	
307.48	0.190	171.830	307.47	-1.43	-1.43	0.15	801930.28	504819.67	32°23'05.969"N	103°29'20.925"W	0.48	
401.89	0.720	181.730	401.88	-2.17	-2.17	0.15	801930.28	504818.93	32°23'05.962"N	103°29'20.925"W	0.57	
496.30	0.780	180.110	496.28	-3.41	-3.41	0.13	801930.26	504817.69	32°23'05.950"N	103°29'20.925"W	0.07	
590.71	0.400	186.920	590.69	-4.38	-4.38	0.09	801930.22	504816.72	32°23'05.940"N	103°29'20.926"W	0.41	
685.12	0.820	179.650	685.09	-5.38	-5.38	0.06	801930.19	504815.72	32°23'05.930"N	103°29'20.926"W	0.45	
779.53	0.860	173.060	779.49	-6.76	-6.76	0.15	801930.28	504814.34	32°23'05.916"N	103°29'20.925"W	0.11	
873.94	0.780	183.510	873.89	-8.11	-8.11	0.19	801930.32	504812.99	32°23'05.903"N	103°29'20.925"W	0.18	
968.35	0.380	227.840	968.30	-8.96	-8.96	-0.08	801930.05	504812.14	32°23'05.895"N	103°29'20.928"W	0.61	
1062.76	0.400	236.410	1062.71	-9.35	-9.35	-0.59	801929.54	504811.75	32°23'05.891"N	103°29'20.934"W	0.07	
1157.17	0.600	188.890	1157.11	-10.01	-10.02	-0.94	801929.19	504811.08	32°23'05.884"N	103°29'20.938"W	0.47	
1251.58	0.600	185.880	1251.52	-10.99	-11.00	-1.06	801929.07	504810.10	32°23'05.875"N	103°29'20.940"W	0.03	
1345.99	0.390	233.070	1345.92	-11.68	-11.69	1.37	801928.76	504809.42	32°23'05.868"N	103°29'20.943"W	0.47	
1440.40	0.560	232.160	1440.33	-12.15	-12.16	-1.99	801928.14	504808.94	32°23'05.863"N	103°29'20.951"W	0.18	
1534.81	0.570	195.970	1534.74	-12.88	-12.90	-2.49	801927.64	504808.20	32°23'05.856"N	103°29'20.956"W	0.37	
1629.22	0.480	192.580	1629.14	-13.72	-13.73	-2.70	801927.43	504807.37	32°23'05.848"N	103°29'20.959"W	0.10	
1723.63	0.270	243.030	1723.55	-14.20	-14.22	-2.99	801927.14	504806.88	32°23'05.843"N	103°29'20.962"W	0.39	
1818.04	0.350	268.580	1817.96	-14.31	-14.33	-3.47	801926.66	504806.77	32°23'05.842"N	103°29'20.968"W	0.17	
1912.45	0.320	284.040	1912.37	-14.24	-14.27	-4.02	801926.11	504806.83	32°23'05.842"N	103°29'20.974"W	0.10	
2006.86	0.380	197.770	2006.78	-14.48	-14.51	-4.37	801925.76	504806.59	32°23'05.840"N	103°29'20.978"W	0.51	
2101.27	0.400	193.560	2101.18	-15.09	-15.12	-4.54	801925.59	504805.98	32°23'05.834"N	103°29'20.981"W	0.04	
2195.68	0.300	156.020	2195.59	-15.64	-15.67	-4.52	801925.61	504805.43	32°23'05.829"N	103°29'20.980"W	0.26	
2290.09	0.260	143.870	2290.00	-16.04	-16.07	-4.29	801925.84	504805.03	32°23'05.825"N	103°29'20.978"W	0.08	
2384.50	0.300	114.160	2384.41	-16.32	-16.34	-3.94	801926.19	504804.76	32°23'05.822"N	103°29'20.974"W	0.16	
2478.91	0.330	119.210	2478.82	-16.55	-16.58	-3.48	801926.65	504804.52	32°23'05.820"N	103°29'20.968"W	0.04	
2573.32	0.410	112.940	2573.23	-16.82	-16.84	-2.93	801927.20	504804.26	32°23'05.817"N	103°29'20.962"W	0.09	
2667.73	0.420	79.250	2667.64	-16.89	-16.91	-2.28	801927.85	504804.19	32°23'05.816"N	103°29'20.954"W	0.25	
2762.14	0.970	36.610	2762.04	-16.19	-16.20	-1.46	801928.67	504804.90	32°23'05.823"N	103°29'20.945"W	0.76	
2856.55	1.270	32.060	2856.43	-14.67	-14.67	-0.43	801929.70	504806.43	32°23'05.838"N	103°29'20.933"W	0.33	
2950.96	1.170	60.790	2950.82	-13.32	-13.32	0.97	801931.10	504807.78	32°23'05.851"N	103°29'20.916"W	0.65	
3045.37	1.300	87.050	3045.21	-12.81	-12.79	2.88	801933.01	504808.31	32°23'05.857"N	103°29'20.894"W	0.61	
3139.78	1.460	50.740	3139.59	-12.01	-11.98	4.88	801935.01	504809.12	32°23'05.864"N	103°29'20.870"W	0.92	
3234.19	1.550	29.040	3233.97	-10.14	-10.10	6.43	801936.56	504811.00	32°23'05.883"N	103°29'20.852"W	0.61	
3328.60	1.590	51.410	3328.35	-8.22	-8.16	8.07	801938.20	504812.94	32°23'05.902"N	103°29'20.833"W	0.65	
3423.01	1.250	70.900	3422.73	-7.08	-7.01	10.07	801940.20	504814.09	32°23'05.913"N	103°29'20.809"W	0.62	
3517.42	1.440	46.730	3517.11	-5.94	-5.86	11.91	801942.04	504815.24	32°23'05.924"N	103°29'20.788"W	0.63	
3611.83	1.340	40.770	3611.49	-4.30	-4.21	13.49	801943.62	504816.89	32°23'05.941"N	103°29'20.769"W	0.19	
3706.24	0.810	41.630	3705.89	-2.97	-2.88	14.66	801944.79	504818.22	32°23'05.954"N	103°29'20.756"W	0.56	
3800.65	0.650	89.800	3800.29	-2.48	-2.38	15.64	801945.77	504818.72	32°23'05.959"N	103°29'20.744"W	0.65	
3895.06	0.610	78.870	3894.70	-2.38	-2.28	16.66	801946.79	504818.82	32°23'05.959"N	103°29'20.732"W	0.13	
3989.47	0.590	133.330	3989.10	-2.63	-2.51	17.51	801947.64	504818.59	32°23'05.957"N	103°29'20.722"W	0.58	
4083.88	0.770	122.160	4083.50	-3.30	-3.18	18.40	801948.53	504817.92	32°23'05.950"N	103°29'20.712"W	0.24	
4178.29	0.800	81.230	4177.91	-3.55	-3.42	19.59	801949.72	504817.68	32°23'05.948"N	103°29'20.698"W	0.58	



devon

Actual Wellpath Report

No. 11 AWP

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (189 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
4272.70	0.740	55.650	4272.31	-3.11	-2.98	20.74	801950.87	504818.12	32°23'05.952"N	103°29'20.685"W	0.37	
4367.11	0.600	45.940	4366.71	-2.43	-2.29	21.60	801951.73	504818.81	32°23'05.959"N	103°29'20.674"W	0.19	
4461.52	0.450	29.780	4461.12	-1.77	-1.62	22.14	801952.27	504819.48	32°23'05.966"N	103°29'20.668"W	0.22	
4555.93	0.430	11.430	4555.52	-1.10	-0.96	22.40	801952.53	504820.14	32°23'05.972"N	103°29'20.665"W	0.15	
4650.34	-0.380	4.460	4649.93	-0.44	-0.30	22.49	801952.62	504820.80	32°23'05.979"N	103°29'20.664"W	0.07	
4744.75	0.400	8.310	4744.34	0.20	0.34	22.56	801952.69	504821.44	32°23'05.985"N	103°29'20.663"W	0.03	
4839.16	0.360	13.520	4838.75	0.81	0.96	22.68	801952.81	504822.06	32°23'05.991"N	103°29'20.662"W	0.06	
4933.57	0.010	160.360	4933.16	1.09	1.24	22.75	801952.88	504822.34	32°23'05.994"N	103°29'20.661"W	0.39	
5027.98	0.260	180.130	5027.57	0.87	1.02	22.75	801952.88	504822.12	32°23'05.992"N	103°29'20.661"W	0.27	
5122.39	0.110	198.560	5121.98	-0.57	-0.72	22.73	801952.86	504821.82	32°23'05.989"N	103°29'20.661"W	0.17	
5216.80	0.270	99.380	5216.39	0.44	0.59	22.92	801953.05	504821.69	32°23'05.987"N	103°29'20.659"W	0.33	
5311.21	0.340	326.110	5310.80	0.64	0.79	22.98	801953.11	504821.89	32°23'05.989"N	103°29'20.658"W	0.59	
5405.62	0.240	57.330	5405.20	0.98	1.13	22.99	801953.12	504822.23	32°23'05.993"N	103°29'20.658"W	0.45	
5500.03	0.230	87.820	5499.61	1.09	1.24	23.35	801953.48	504822.34	32°23'05.994"N	103°29'20.654"W	0.13	
5594.44	-0.490	170.790	5594.02	-0.70	-0.85	23.60	801953.73	504821.95	32°23'05.990"N	103°29'20.651"W	0.55	
5688.85	0.370	111.730	5688.43	0.19	0.34	23.95	801954.08	504821.44	32°23'05.985"N	103°29'20.647"W	0.46	
5783.26	0.160	164.420	5782.84	-0.06	0.10	24.27	801954.40	504821.20	32°23'05.982"N	103°29'20.643"W	0.32	
5877.67	0.150	155.860	5877.25	-0.30	-0.14	24.35	801954.48	504820.96	32°23'05.980"N	103°29'20.642"W	0.03	
5972.08	0.710	204.740	5971.66	-0.94	-0.78	24.16	801954.29	504820.32	32°23'05.974"N	103°29'20.645"W	0.66	
6066.49	0.730	214.680	6066.06	-1.96	-1.81	23.57	801953.70	504819.29	32°23'05.964"N	103°29'20.651"W	0.13	
6160.90	0.860	238.370	6160.46	-2.82	-2.68	22.63	801952.75	504818.42	32°23'05.955"N	103°29'20.663"W	0.37	
6255.31	0.620	167.680	6254.86	-3.69	-3.55	22.13	801952.26	504817.55	32°23'05.947"N	103°29'20.668"W	0.93	
6349.72	0.610	79.530	6349.27	-4.10	-3.95	22.73	801952.86	504817.15	32°23'05.942"N	103°29'20.661"W	0.91	
6444.13	0.590	71.800	6443.67	-3.86	-3.71	23.69	801953.82	504817.39	32°23'05.945"N	103°29'20.650"W	0.09	
6538.54	0.950	137.690	6538.08	-4.30	-4.14	24.68	801954.81	504816.96	32°23'05.940"N	103°29'20.639"W	0.94	
6632.95	1.050	143.250	6632.47	-5.58	-5.41	25.72	801955.85	504815.69	32°23'05.928"N	103°29'20.627"W	0.15	
6727.36	0.930	143.140	6726.87	-6.89	-6.72	26.70	801956.83	504814.38	32°23'05.915"N	103°29'20.615"W	0.13	
6821.77	1.030	144.190	6821.27	-8.20	-8.02	27.66	801957.79	504813.08	32°23'05.902"N	103°29'20.604"W	0.11	
6916.18	0.910	159.080	6915.66	-9.59	-9.41	28.42	801958.55	504811.69	32°23'05.888"N	103°29'20.596"W	0.29	
7010.59	0.750	145.790	7010.06	-10.80	-10.62	29.04	801959.16	504810.48	32°23'05.876"N	103°29'20.589"W	0.26	
7105.00	1.210	169.720	7104.46	-12.30	-12.11	29.56	801959.69	504808.99	32°23'05.861"N	103°29'20.583"W	0.64	
7199.41	0.840	196.990	7198.85	-13.94	-13.75	29.54	801959.67	504807.35	32°23'05.845"N	103°29'20.583"W	0.64	
7293.82	0.720	209.300	7293.26	-15.12	-14.93	29.04	801959.17	504806.17	32°23'05.833"N	103°29'20.589"W	0.22	
7388.23	0.670	218.780	7387.66	-16.06	-15.88	28.41	801958.54	504805.22	32°23'05.824"N	103°29'20.596"W	0.13	
7482.64	0.460	227.760	7482.06	-16.74	-16.56	27.78	801957.91	504804.54	32°23'05.817"N	103°29'20.604"W	0.24	
7577.05	0.410	226.930	7576.47	-17.22	-17.05	27.25	801957.38	504804.05	32°23'05.813"N	103°29'20.610"W	0.05	
7671.46	0.930	203.210	7670.87	-18.16	-17.98	26.71	801956.84	504803.12	32°23'05.803"N	103°29'20.616"W	0.61	
7765.87	0.630	229.400	7765.28	-19.19	-19.03	26.01	801956.14	504802.08	32°23'05.793"N	103°29'20.625"W	0.49	
7860.28	0.670	197.450	7859.68	-20.05	-19.89	25.45	801955.58	504801.21	32°23'05.785"N	103°29'20.631"W	0.38	
7954.69	0.760	217.860	7954.08	-21.07	-20.91	24.90	801955.03	504800.19	32°23'05.774"N	103°29'20.638"W	0.28	
8049.10	1.190	214.690	8048.48	-22.37	-22.21	23.96	801954.09	504798.89	32°23'05.762"N	103°29'20.649"W	0.46	
8143.51	1.030	218.370	8142.87	-23.83	-23.68	22.87	801953.00	504797.42	32°23'05.747"N	103°29'20.662"W	0.19	
8237.92	0.890	187.580	8237.27	-25.22	-25.07	22.25	801952.38	504796.03	32°23'05.733"N	103°29'20.669"W	0.56	
8332.33	0.550	177.080	8331.67	-26.40	-26.25	22.18	801952.31	504794.85	32°23'05.722"N	103°29'20.670"W	0.38	
8426.74	0.480	198.300	8426.08	-27.22	-27.08	22.07	801952.20	504794.02	32°23'05.714"N	103°29'20.671"W	0.21	



Actual Wellpath Report

No. 11 AWP

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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (189 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
8521.15	0.240	167.290	8520.49	-27.79	-27.65	21.99	801952.12	504793.45	32°23'05.708"N	103°29'20.672"W	0.32	
8615.56	0.950	165.050	8614.89	-28.74	-28.60	22.24	801952.37	504792.50	32°23'05.699"N	103°29'20.669"W	0.75	
8709.97	0.870	191.950	8709.29	-30.20	-30.06	22.29	801952.42	504791.04	32°23'05.684"N	103°29'20.669"W	0.46	
8804.38	0.920	213.890	8803.69	-31.53	-31.39	21.72	801951.85	504789.71	32°23'05.671"N	103°29'20.676"W	0.36	
8898.79	0.960	219.960	8898.08	-32.76	-32.62	20.79	801950.92	504788.48	32°23'05.659"N	103°29'20.687"W	0.11	
8993.20	0.820	245.890	8992.48	-33.63	-33.50	19.67	801949.80	504787.60	32°23'05.650"N	103°29'20.700"W	0.45	
9087.61	0.560	270.290	9086.89	-33.90	-33.78	18.59	801948.72	504787.32	32°23'05.648"N	103°29'20.713"W	0.41	
9182.02	0.500	299.910	9181.29	-33.68	-33.57	17.77	801947.90	504787.53	32°23'05.650"N	103°29'20.722"W	0.29	
9276.43	0.670	323.240	9275.70	-33.03	-32.92	17.08	801947.21	504788.18	32°23'05.656"N	103°29'20.730"W	0.31	
9370.84	0.860	330.480	9370.10	-31.97	-31.86	16.40	801946.53	504789.24	32°23'05.667"N	103°29'20.738"W	0.23	
9465.25	1.120	343.430	9464.50	-30.46	-30.36	15.79	801945.92	504790.74	32°23'05.682"N	103°29'20.745"W	0.36	
9559.66	1.100	349.160	9558.89	-28.69	-28.59	15.36	801945.49	504792.51	32°23'05.699"N	103°29'20.750"W	0.12	
9654.07	0.820	354.190	9653.28	-27.12	-27.03	15.12	801945.25	504794.07	32°23'05.715"N	103°29'20.752"W	0.31	
9748.48	0.610	324.300	9747.69	-26.04	-25.95	14.76	801944.89	504795.15	32°23'05.725"N	103°29'20.756"W	0.45	
9842.89	1.100	275.550	9842.09	-25.54	-25.45	13.56	801943.69	504795.65	32°23'05.730"N	103°29'20.770"W	0.88	
9937.30	1.870	113.240	9936.48	-26.06	-25.97	14.08	801944.21	504795.13	32°23'05.725"N	103°29'20.764"W	3.11	
10031.71	1.630	111.540	10030.85	-27.18	-27.07	16.74	801946.87	504794.03	32°23'05.714"N	103°29'20.733"W	0.26	
10126.12	1.330	133.610	10125.23	-28.44	-28.32	18.78	801948.91	504792.78	32°23'05.702"N	103°29'20.710"W	0.68	
10220.53	1.720	173.180	10219.61	-30.61	-30.48	19.74	801949.87	504790.62	32°23'05.680"N	103°29'20.699"W	1.16	
10314.94	2.310	176.250	10313.96	-33.92	-33.79	20.04	801950.17	504787.31	32°23'05.647"N	103°29'20.696"W	0.64	
10409.35	1.260	208.650	10408.32	-36.72	-36.60	19.66	801949.79	504784.50	32°23'05.620"N	103°29'20.700"W	1.50	
10503.76	1.450	275.470	10502.71	-37.51	-37.40	17.98	801948.11	504783.71	32°23'05.612"N	103°29'20.720"W	1.59	
10598.17	1.940	271.070	10597.08	-37.35	-37.25	15.19	801945.32	504783.85	32°23'05.614"N	103°29'20.752"W	0.54	
10738.35	2.690	251.670	10737.15	-38.30	-38.24	9.69	801939.82	504782.86	32°23'05.604"N	103°29'20.817"W	0.77	
10802.00	2.780	243.380	10800.73	-39.45	-39.40	6.90	801937.03	504781.70	32°23'05.593"N	103°29'20.849"W	0.64	
10834.00	3.210	247.270	10832.68	-40.13	-40.10	5.38	801935.51	504781.00	32°23'05.586"N	103°29'20.867"W	1.49	
10866.00	3.360	289.710	10864.63	-40.15	-40.13	3.67	801933.80	504780.97	32°23'05.586"N	103°29'20.887"W	7.44	
10896.00	4.900	288.910	10894.56	-39.42	-39.41	1.63	801931.76	504781.69	32°23'05.593"N	103°29'20.911"W	5.14	
10929.00	7.910	296.960	10927.35	-37.92	-37.93	-1.73	801928.40	504783.17	32°23'05.608"N	103°29'20.950"W	9.50	
10960.00	10.130	300.520	10957.96	-35.54	-35.58	-5.98	801924.15	504785.52	32°23'05.632"N	103°29'20.999"W	7.38	
10991.00	13.090	305.860	10988.32	-32.06	-32.13	-11.18	801918.95	504788.97	32°23'05.666"N	103°29'21.059"W	10.15	
11023.00	17.440	308.280	11019.19	-26.92	-27.04	-17.88	801912.25	504794.06	32°23'05.717"N	103°29'21.137"W	13.74	
11054.00	21.970	309.750	11048.37	-20.28	-20.45	-25.99	801904.14	504800.65	32°23'05.783"N	103°29'21.231"W	14.70	
11085.00	26.000	312.550	11076.68	-11.91	-12.14	-35.46	801894.67	504808.96	32°23'05.866"N	103°29'21.341"W	13.51	
11117.00	30.520	314.140	11104.86	-11.43	-11.74	-46.46	801883.67	504819.36	32°23'05.970"N	103°29'21.468"W	14.32	
11149.00	35.410	315.150	11131.70	10.88	10.50	-58.84	801871.29	504831.60	32°23'06.092"N	103°29'21.611"W	15.38	
11180.00	39.640	315.790	11156.28	24.43	23.96	-72.07	801858.06	504845.06	32°23'06.226"N	103°29'21.764"W	13.70	
11212.00	43.580	317.280	11180.21	39.95	39.39	-86.68	801843.45	504860.49	32°23'06.380"N	103°29'21.933"W	12.69	
11243.00	48.130	318.770	11201.79	56.59	55.93	-101.54	801828.59	504877.03	32°23'06.545"N	103°29'22.105"W	15.08	
11275.00	53.700	319.970	11221.96	75.54	74.78	-117.70	801812.43	504895.88	32°23'06.732"N	103°29'22.292"W	17.65	
11306.00	58.510	321.400	11239.24	95.55	94.69	-134.00	801796.14	504915.79	32°23'06.931"N	103°29'22.480"W	15.98	
11338.00	62.670	323.980	11254.95	117.83	116.86	-150.88	801779.26	504937.96	32°23'07.151"N	103°29'22.675"W	14.77	
11369.00	66.430	326.960	11268.28	140.99	139.92	-166.73	801763.40	504961.02	32°23'07.381"N	103°29'22.857"W	14.91	
11401.00	70.570	330.090	11280.00	166.48	165.31	-182.26	801747.88	504986.41	32°23'07.633"N	103°29'23.036"W	15.82	
11432.00	74.940	332.830	11289.19	192.58	191.31	-196.39	801733.74	505012.41	32°23'07.892"N	103°29'23.199"W	16.43	



Actual Wellpath Report

No. 11 AWP

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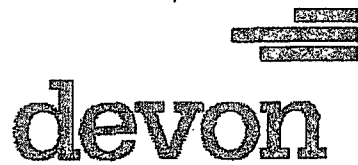


REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (189 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
11464.00	78.940	335.340	11296.42	220.70	219.34	-210.00	801720.13	505040.44	32°23'08.170"N	103°29'23.355"W	14.65	
11495.00	82.020	339.300	11301.55	248.98	247.54	-221.78	801708.35	505068.64	32°23'08.450"N	103°29'23.490"W	16.04	
11527.00	83.540	343.780	11305.58	279.14	277.65	-231.83	801698.30	505098.75	32°23'08.749"N	103°29'23.604"W	14.68	
11558.00	85.770	348.640	11308.47	309.16	307.61	-239.18	801690.95	505128.71	32°23'09.046"N	103°29'23.687"W	17.19	
11590.00	88.460	352.570	11310.08	340.71	339.14	-244.40	801685.74	505160.23	32°23'09.358"N	103°29'23.745"W	14.87	
11645.00	89.750	358.320	11310.94	395.53	393.93	-248.76	801681.37	505215.03	32°23'09.901"N	103°29'23.791"W	10.71	
11677.00	89.810	358.540	11311.06	427.53	425.92	-249.64	801680.49	505247.01	32°23'10.217"N	103°29'23.798"W	0.71	
11771.00	90.250	359.590	11311.01	521.52	519.91	-251.17	801678.96	505341.00	32°23'11.147"N	103°29'23.807"W	1.21	
11866.00	90.250	359.740	11310.60	616.52	614.90	-251.73	801678.40	505435.99	32°23'12.087"N	103°29'23.805"W	0.16	
11961.00	90.950	360.490	11309.60	711.51	709.90	-251.54	801678.59	505530.99	32°23'13.027"N	103°29'23.794"W	1.08	
12055.00	91.600	1.700	11307.51	805.45	803.85	-249.74	801680.39	505624.94	32°23'13.957"N	103°29'23.764"W	1.46	
12150.00	91.350	2.360	11305.06	900.34	898.76	-246.38	801683.75	505719.85	32°23'14.895"N	103°29'23.717"W	0.74	
12244.00	91.290	2.910	11302.90	994.18	992.64	-242.06	801688.07	505813.72	32°23'15.824"N	103°29'23.658"W	0.59	
12339.00	89.940	4.250	11301.88	1088.95	1087.44	-236.13	801694.01	505908.53	32°23'16.762"N	103°29'23.580"W	2.00	
12434.00	90.310	4.550	11301.67	1183.62	1182.16	-228.84	801701.29	506003.24	32°23'17.698"N	103°29'23.486"W	0.50	
12528.00	90.620	4.120	11300.91	1277.30	1275.89	-221.73	801708.40	506096.97	32°23'18.625"N	103°29'23.394"W	0.56	
12623.00	89.510	4.010	11300.80	1372.01	1370.65	-215.00	801715.13	506191.73	32°23'19.562"N	103°29'23.307"W	1.17	
12717.00	89.510	4.130	11301.60	1465.73	1464.41	-208.33	801721.80	506285.49	32°23'20.489"N	103°29'23.221"W	0.13	
12812.00	90.150	4.320	11301.89	1560.42	1559.15	-201.33	801728.80	506380.23	32°23'21.426"N	103°29'23.130"W	0.70	
12907.00	90.090	4.620	11301.69	1655.08	1653.86	-193.93	801736.21	506474.93	32°23'22.363"N	103°29'23.035"W	0.32	
13001.00	90.250	5.150	11301.41	1748.68	1747.52	-185.92	801744.21	506568.59	32°23'23.289"N	103°29'22.933"W	0.59	
13096.00	90.090	3.550	11301.13	1843.36	1842.24	-178.72	801751.42	506663.31	32°23'24.225"N	103°29'22.841"W	1.69	
13190.00	90.490	3.840	11300.65	1937.12	1936.04	-172.66	801757.47	506757.11	32°23'25.153"N	103°29'22.761"W	0.53	
13285.00	89.910	3.810	11300.32	2031.86	2030.83	-166.32	801763.81	506851.90	32°23'26.091"N	103°29'22.679"W	0.61	
13379.00	89.750	3.520	11300.60	2125.63	2124.64	-160.31	801769.82	506945.71	32°23'27.018"N	103°29'22.600"W	0.35	
13474.00	88.920	2.680	11301.70	2220.45	2219.49	-155.17	801774.96	507040.56	32°23'27.956"N	103°29'22.531"W	1.24	
13568.00	89.570	2.450	11302.94	2314.32	2313.39	-150.97	801779.16	507134.45	32°23'28.885"N	103°29'22.474"W	0.73	
13663.00	89.660	2.450	11303.58	2409.20	2408.30	-146.91	801783.22	507229.36	32°23'29.824"N	103°29'22.418"W	0.09	
13757.00	90.180	2.880	11303.71	2503.07	2502.20	-142.54	801787.60	507323.26	32°23'30.753"N	103°29'22.358"W	0.72	
13852.00	90.180	3.230	11303.41	2597.90	2597.06	-137.47	801792.66	507418.12	32°23'31.691"N	103°29'22.290"W	0.37	
13946.00	89.200	3.310	11303.92	2691.70	2690.91	-132.11	801798.02	507511.96	32°23'32.619"N	103°29'22.219"W	1.05	
14018.00	89.880	2.360	11304.50	2763.59	2762.81	-128.55	801801.58	507583.87	32°23'33.330"N	103°29'22.171"W	1.62	
14112.00	90.370	1.070	11304.29	2857.52	2856.77	-125.74	801804.39	507677.83	32°23'34.260"N	103°29'22.130"W	1.47	
14206.00	90.710	1.060	11303.41	2951.49	2950.75	-123.99	801806.14	507771.80	32°23'35.189"N	103°29'22.101"W	0.36	
14301.00	91.630	1.580	11301.47	3046.43	3045.70	-121.80	801808.33	507866.76	32°23'36.129"N	103°29'22.066"W	1.11	
14395.00	91.970	1.500	11298.51	3140.33	3139.62	-119.28	801810.85	507960.67	32°23'37.058"N	103°29'22.028"W	0.37	
14489.00	92.060	1.990	11295.21	3234.21	3233.52	-116.42	801813.71	508054.57	32°23'37.987"N	103°29'21.986"W	0.53	
14584.00	91.540	2.790	11292.22	3329.05	3328.39	-112.46	801817.67	508149.44	32°23'38.925"N	103°29'21.931"W	1.00	
14678.00	90.490	3.220	11290.56	3422.87	3422.24	-107.53	801822.60	508243.29	32°23'39.853"N	103°29'21.865"W	1.21	
14773.00	90.890	3.330	11289.42	3517.67	3517.08	-102.10	801828.03	508338.13	32°23'40.791"N	103°29'21.793"W	0.44	
14868.00	91.050	3.300	11287.81	3612.46	3611.91	-96.61	801833.52	508432.95	32°23'41.729"N	103°29'21.720"W	0.17	
14962.00	90.990	3.370	11286.13	3706.25	3705.73	-91.14	801838.99	508526.78	32°23'42.657"N	103°29'21.648"W	0.10	
15057.00	89.750	3.290	11285.52	3801.05	3800.57	-85.63	801844.51	508621.61	32°23'43.595"N	103°29'21.575"W	1.31	
15151.00	90.150	3.480	11285.60	3894.84	3894.41	-80.08	801850.06	508715.45	32°23'44.523"N	103°29'21.502"W	0.47	
15246.00	90.460	3.380	11285.10	3989.63	3989.23	-74.39	801855.74	508810.27	32°23'45.461"N	103°29'21.427"W	0.34	



Actual Wellpath Report

No. 11 AWP

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

WELLPATH DATA (189 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
15340.00	87.570	3.460	11286.71	4083.40	4083.04	-68.79	801861.35	508904.08	32°23'46.389"N	103°29'21.352"W	3.08	
15435.00	87.870	3.270	11290.49	4178.13	4177.80	-63.21	801866.92	508998.84	32°23'47.326"N	103°29'21.279"W	0.37	
15529.00	88.550	3.310	11293.43	4271.89	4271.60	-57.82	801872.31	509092.64	32°23'48.254"N	103°29'21.207"W	0.72	
15623.00	88.180	3.490	11296.11	4365.65	4365.40	-52.25	801877.88	509186.43	32°23'49.181"N	103°29'21.134"W	0.44	
15718.00	88.610	3.910	11298.77	4460.37	4460.16	-46.12	801884.01	509281.20	32°23'50.118"N	103°29'21.053"W	0.63	
15812.00	88.920	4.230	11300.80	4554.06	4553.90	-39.45	801890.68	509374.94	32°23'51.045"N	103°29'20.967"W	0.47	
15907.00	90.060	4.550	11301.64	4648.73	4648.62	-32.18	801897.95	509469.65	32°23'51.982"N	103°29'20.874"W	1.25	
15959.00	90.400	4.400	11301.43	4700.55	4700.46	-28.12	801902.01	509521.49	32°23'52.495"N	103°29'20.821"W	0.71	
16010.00	90.400	4.400	11301.08	4751.37	4751.31	-24.21	801905.92	509572.34	32°23'52.997"N	103°29'20.771"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.11H PBHL		11287.00	4752.12	-30.76	801899.37	509573.15	32°23'53.006"N	103°29'20.847"W	rectangle	

WELLPATH COMPOSITION - Ref Wellbore: No. 11 AWB					Ref Wellpath: No. 11 AWP		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model			Log Name/Comment		Wellbore
0.00	10738.35	Generic gyro - northseeking (Standard)			VES Gyro <118.66-10738.35>		No. 11 AWB
10738.35	15959.00	NaviTrak (Standard)			BHI MWD NaviTrak <10802-XXXX>		No. 11 AWB
15959.00	16010.00	Blind Drilling (std)			Projection to bit		No. 11 AWB

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 4.0.1

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.11H SHL
 Well No.11H
 Wellbore No. 11 AWB
 Wellpath No. 11 AWP
 Sidetrack (none)

HOBBS OCD

JAN 07 2014

RECEIVED

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® 4.0.1
 User Gentbry
 Report Ger 10/7/2013 at 1:45:43 PM
 DataBase/ MidlandDB/ev12.xml

WELLPATH Local North	Local East	Easting	Northing	Latitude	Longitude
[ft]	[ft]	[US ft]	[US ft]		
Slot Locatic	0.4	49.99	801930.1	504821.1	32°23'05.9" 103°29'20.926"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 Ref Rig on No.11H SHL (KB)
 MD Refere Rig on No.11H SHL (KB)
 Field Vertic Mean Sea Level
 Rig on No.13492.90ft
 Rig on No.13492.90ft
 Rig on No.13492.90ft
 Section Ori N 0.00, E 0.00 ft
 Section Azi 359.63°

WELLPATH DATA † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			["/100ft]	
0	0	171.16	0	0	0	0	801930.1	504821.1	32°23'05.9" 103°29'20.9		0	
118.66	0.12	171.16	118.66	-0.12	-0.12	0.02	801930.2	504821	32°23'05.9" 103°29'20.9		0.1	
213.07	0.64	175.1	213.07	-0.75	-0.75	0.08	801930.2	504820.4	32°23'05.9" 103°29'20.9		0.55	
307.48	0.19	171.83	307.47	-1.43	-1.43	0.15	801930.3	504819.7	32°23'05.9" 103°29'20.9		0.48	
401.89	0.72	181.73	401.88	-2.17	-2.17	0.15	801930.3	504818.9	32°23'05.9" 103°29'20.9		0.57	
496.3	0.78	180.11	496.28	-3.41	-3.41	0.13	801930.3	504817.7	32°23'05.9" 103°29'20.9		0.07	
590.71	0.4	186.92	590.69	-4.38	-4.38	0.09	801930.2	504816.7	32°23'05.9" 103°29'20.9		0.41	
685.12	0.82	179.65	685.09	-5.38	-5.38	0.06	801930.2	504815.7	32°23'05.9" 103°29'20.9		0.45	
779.53	0.86	173.06	779.49	-6.76	-6.76	0.15	801930.3	504814.3	32°23'05.9" 103°29'20.9		0.11	
873.94	0.78	183.51	873.89	-8.11	-8.11	0.19	801930.3	504813	32°23'05.9" 103°29'20.9		0.18	
968.35	0.38	227.84	968.3	-8.96	-8.96	-0.08	801930.1	504812.1	32°23'05.8" 103°29'20.9		0.61	
1062.76	0.4	236.41	1062.71	-9.35	-9.35	-0.59	801929.5	504811.8	32°23'05.8" 103°29'20.9		0.07	
1157.17	0.6	188.89	1157.11	-10.01	-10.02	-0.94	801929.2	504811.1	32°23'05.8" 103°29'20.9		0.47	
1251.58	0.6	185.88	1251.52	-10.99	-11	-1.06	801929.1	504810.1	32°23'05.8" 103°29'20.9		0.03	
1345.99	0.39	233.07	1345.92	-11.68	-11.69	-1.37	801928.8	504809.4	32°23'05.8" 103°29'20.9		0.47	
1440.4	0.56	232.16	1440.33	-12.15	-12.16	-1.99	801928.1	504808.9	32°23'05.8" 103°29'20.9		0.18	
1534.81	0.57	195.97	1534.74	-12.88	-12.9	-2.49	801927.6	504808.2	32°23'05.8" 103°29'20.9		0.37	
1629.22	0.48	192.58	1629.14	-13.72	-13.73	-2.7	801927.4	504807.4	32°23'05.8" 103°29'20.9		0.1	
1723.63	0.27	243.03	1723.55	-14.2	-14.22	-2.99	801927.1	504806.9	32°23'05.8" 103°29'20.9		0.39	

1818.04	0.35	268.58	1817.96	-14.31	-14.33	-3.47	801926.7	504806.8 32°23'05.8" 103°29'20.1"	0.17
1912.45	0.32	284.04	1912.37	-14.24	-14.27	-4.02	801926.1	504806.8 32°23'05.8" 103°29'20.1"	0.1
2006.86	0.38	197.77	2006.78	-14.48	-14.51	-4.37	801925.8	504806.6 32°23'05.8" 103°29'20.1"	0.51
2101.27	0.4	193.56	2101.18	-15.09	-15.12	-4.54	801925.6	504806.3 32°23'05.8" 103°29'20.1"	0.04
2195.68	0.3	156.02	2195.59	-15.64	-15.67	-4.52	801925.6	504805.4 32°23'05.8" 103°29'20.1"	0.26
2290.09	0.26	143.87	2290	-16.04	-16.07	-4.29	801925.8	504805 32°23'05.8" 103°29'20.1"	0.08
2384.5	0.3	114.16	2384.41	-16.32	-16.34	-3.94	801926.2	504804.8 32°23'05.8" 103°29'20.1"	0.16
2478.91	0.33	119.21	2478.82	-16.55	-16.58	-3.48	801926.7	504804.5 32°23'05.8" 103°29'20.1"	0.04
2573.32	0.41	112.94	2573.23	-16.82	-16.84	-2.93	801927.2	504804.3 32°23'05.8" 103°29'20.1"	0.09
2667.73	0.42	79.25	2667.64	-16.89	-16.91	-2.28	801927.9	504804.2 32°23'05.8" 103°29'20.1"	0.25
2762.14	0.97	36.61	2762.04	-16.19	-16.2	-1.46	801928.7	504804.9 32°23'05.8" 103°29'20.1"	0.76
2856.55	1.27	32.06	2856.43	-14.67	-14.67	-0.43	801929.7	504806.4 32°23'05.8" 103°29'20.1"	0.33
2950.96	1.17	60.79	2950.82	-13.32	-13.32	0.97	801931.1	504807.8 32°23'05.8" 103°29'20.1"	0.65
3045.37	1.3	87.05	3045.21	-12.81	-12.79	2.88	801933	504808.3 32°23'05.8" 103°29'20.1"	0.61
3139.78	1.46	50.74	3139.59	-12.01	-11.98	4.88	801935	504809.1 32°23'05.8" 103°29'20.1"	0.92
3234.19	1.55	29.04	3233.97	-10.14	-10.1	6.43	801936.6	504811 32°23'05.8" 103°29'20.1"	0.61
3328.6	1.59	51.41	3328.35	-8.22	-8.16	8.07	801938.2	504812.9 32°23'05.9" 103°29'20.1"	0.65
3423.01	1.25	70.9	3422.73	-7.08	-7.01	10.07	801940.2	504814.1 32°23'05.9" 103°29'20.1"	0.62
3517.42	1.44	46.73	3517.11	-5.94	-5.86	11.91	801942	504815.2 32°23'05.9" 103°29'20.1"	0.63
3611.83	1.34	40.77	3611.49	-4.3	-4.21	13.49	801943.6	504816.9 32°23'05.9" 103°29'20.1"	0.19
3706.24	0.81	41.63	3705.89	-2.97	-2.88	14.66	801944.8	504818.2 32°23'05.9" 103°29'20.1"	0.56
3800.65	0.65	89.8	3800.29	-2.48	-2.38	15.64	801945.8	504818.7 32°23'05.9" 103°29'20.1"	0.65
3895.06	0.61	78.87	3894.7	-2.38	-2.28	16.66	801946.8	504818.8 32°23'05.9" 103°29'20.1"	0.13
3989.47	0.59	133.33	3989.1	-2.63	-2.51	17.51	801947.6	504818.6 32°23'05.9" 103°29'20.1"	0.58
4083.88	0.77	122.16	4083.5	-3.3	-3.18	18.4	801948.5	504817.9 32°23'05.9" 103°29'20.1"	0.24
4178.29	0.8	81.23	4177.91	-3.55	-3.42	19.59	801949.7	504817.7 32°23'05.9" 103°29'20.1"	0.58
4272.7	0.74	55.65	4272.31	-3.11	-2.98	20.74	801950.9	504818.1 32°23'05.9" 103°29'20.1"	0.37
4367.11	0.6	45.94	4366.71	-2.43	-2.29	21.6	801951.7	504818.8 32°23'05.9" 103°29'20.1"	0.19
4461.52	0.45	29.78	4461.12	-1.77	-1.62	22.14	801952.3	504819.5 32°23'05.9" 103°29'20.1"	0.22
4555.93	0.43	11.43	4555.52	-1.1	-0.96	22.4	801952.5	504820.1 32°23'05.9" 103°29'20.1"	0.15
4650.34	0.38	4.46	4649.93	-0.44	-0.3	22.49	801952.6	504820.8 32°23'05.9" 103°29'20.1"	0.07
4744.75	0.4	8.31	4744.34	0.2	0.34	22.56	801952.7	504821.4 32°23'05.9" 103°29'20.1"	0.03
4839.16	0.36	13.52	4838.75	0.81	0.96	22.68	801952.8	504822.1 32°23'05.9" 103°29'20.1"	0.06
4933.57	0.01	160.36	4933.16	1.09	1.24	22.75	801952.9	504822.3 32°23'05.9" 103°29'20.1"	0.39
5027.98	0.26	180.13	5027.57	0.87	1.02	22.75	801952.9	504822.1 32°23'05.9" 103°29'20.1"	0.27
5122.39	0.11	198.56	5121.98	0.57	0.72	22.73	801952.9	504821.8 32°23'05.9" 103°29'20.1"	0.17
5216.8	0.27	99.38	5216.39	0.44	0.59	22.92	801953.1	504821.7 32°23'05.9" 103°29'20.1"	0.33
5311.21	0.34	326.11	5310.8	0.64	0.79	22.98	801953.1	504821.9 32°23'05.9" 103°29'20.1"	0.59
5405.62	0.24	57.33	5405.2	0.98	1.13	22.99	801953.1	504822.2 32°23'05.9" 103°29'20.1"	0.45
5500.03	0.23	87.82	5499.61	1.09	1.24	23.35	801953.5	504822.3 32°23'05.9" 103°29'20.1"	0.13
5594.44	0.49	170.79	5594.02	0.7	0.85	23.6	801953.7	504822 32°23'05.9" 103°29'20.1"	0.55
5688.85	0.37	111.73	5688.43	0.19	0.34	23.95	801954.1	504821.4 32°23'05.9" 103°29'20.1"	0.46
5783.26	0.16	164.42	5782.84	-0.06	0.1	24.27	801954.4	504821.2 32°23'05.9" 103°29'20.1"	0.32
5877.67	0.15	155.86	5877.25	-0.3	-0.14	24.35	801954.5	504821 32°23'05.9" 103°29'20.1"	0.03
5972.08	0.71	204.74	5971.66	-0.94	-0.78	24.16	801954.3	504820.3 32°23'05.9" 103°29'20.1"	0.66
6066.49	0.73	214.68	6066.06	-1.96	-1.81	23.57	801953.7	504819.3 32°23'05.9" 103°29'20.1"	0.13
6160.9	0.86	238.37	6160.46	-2.82	-2.68	22.63	801952.8	504818.4 32°23'05.9" 103°29'20.1"	0.37
6255.31	0.62	167.68	6254.86	-3.69	-3.55	22.13	801952.3	504817.6 32°23'05.9" 103°29'20.1"	0.93
6349.72	0.61	79.53	6349.27	-4.1	-3.95	22.73	801952.9	504817.2 32°23'05.9" 103°29'20.1"	0.91
6444.13	0.59	71.8	6443.67	-3.86	-3.71	23.69	801953.8	504817.4 32°23'05.9" 103°29'20.1"	0.09
6538.54	0.95	137.69	6538.08	-4.3	-4.14	24.68	801954.8	504817 32°23'05.9" 103°29'20.1"	0.94
6632.95	1.05	143.25	6632.47	-5.58	-5.41	25.72	801955.9	504815.7 32°23'05.9" 103°29'20.1"	0.15
6727.36	0.93	143.14	6726.87	-6.89	-6.72	26.7	801956.8	504814.4 32°23'05.9" 103°29'20.1"	0.13
6821.77	1.03	144.19	6821.27	-8.2	-8.02	27.66	801957.8	504813.1 32°23'05.9" 103°29'20.1"	0.11
6916.18	0.91	159.08	6915.66	-9.59	-9.41	28.42	801958.6	504811.7 32°23'05.8" 103°29'20.1"	0.29
7010.59	0.75	145.79	7010.06	-10.8	-10.62	29.04	801959.2	504810.5 32°23'05.8" 103°29'20.1"	0.26
7105	1.21	169.72	7104.46	-12.3	-12.11	29.56	801959.7	504809 32°23'05.8" 103°29'20.1"	0.64
7199.41	0.84	196.99	7198.85	-13.94	-13.75	29.54	801959.7	504807.4 32°23'05.8" 103°29'20.1"	0.64
7293.82	0.72	209.3	7293.26	-15.12	-14.93	29.04	801959.2	504806.2 32°23'05.8" 103°29'20.1"	0.22
7388.23	0.67	218.78	7387.66	-16.06	-15.88	28.41	801958.5	504805.2 32°23'05.8" 103°29'20.1"	0.13
7482.64	0.46	227.76	7482.06	-16.74	-16.56	27.78	801957.9	504804.5 32°23'05.8" 103°29'20.1"	0.24
7577.05	0.41	226.93	7576.47	-17.22	-17.05	27.25	801957.4	504804.1 32°23'05.8" 103°29'20.1"	0.05
7671.46	0.93	203.21	7670.87	-18.16	-17.98	26.71	801956.8	504803.1 32°23'05.8" 103°29'20.1"	0.61
7765.87	0.63	229.4	7765.28	-19.19	-19.03	26.01	801956.1	504802.1 32°23'05.7" 103°29'20.1"	0.49
7860.28	0.67	197.45	7859.68	-20.05	-19.89	25.45	801955.6	504801.2 32°23'05.7" 103°29'20.1"	0.38
7954.69	0.76	217.86	7954.08	-21.07	-20.91	24.9	801955	504800.2 32°23'05.7" 103°29'20.1"	0.28

8049.1	1.19	214.69	8048.48	-22.37	-22.21	23.96	801954.1	504798.9	32°23'05.7" 103°29'20.0"	0.46
8143.51	1.03	218.37	8142.87	-23.83	-23.68	22.87	801953	504797.4	32°23'05.7" 103°29'20.0"	0.19
8237.92	0.89	187.58	8237.27	-25.22	-25.07	22.25	801952.4	504796	32°23'05.7" 103°29'20.0"	0.56
8332.33	0.55	177.08	8331.67	-26.4	-26.25	22.18	801952.3	504794.9	32°23'05.7" 103°29'20.0"	0.38
8426.74	0.48	198.3	8426.08	-27.22	-27.08	22.07	801952.2	504794	32°23'05.7" 103°29'20.0"	0.21
8521.15	0.24	167.29	8520.49	-27.79	-27.65	21.99	801952.1	504793.5	32°23'05.7" 103°29'20.0"	0.32
8615.56	0.95	165.05	8614.89	-28.74	-28.6	22.24	801952.4	504792.5	32°23'05.6" 103°29'20.0"	0.75
8709.97	0.87	191.95	8709.29	-30.2	-30.06	22.29	801952.4	504791	32°23'05.6" 103°29'20.0"	0.46
8804.38	0.92	213.89	8803.69	-31.53	-31.39	21.72	801951.9	504789.7	32°23'05.6" 103°29'20.0"	0.36
8898.79	0.96	219.96	8898.08	-32.76	-32.62	20.79	801950.9	504788.5	32°23'05.6" 103°29'20.0"	0.11
8993.2	0.82	245.89	8992.48	-33.63	-33.5	19.67	801949.8	504787.6	32°23'05.6" 103°29'20.0"	0.45
9087.61	0.56	270.29	9086.89	-33.9	-33.78	18.59	801948.7	504787.3	32°23'05.6" 103°29'20.0"	0.41
9182.02	0.5	299.91	9181.29	-33.68	-33.57	17.77	801947.9	504787.5	32°23'05.6" 103°29'20.0"	0.29
9276.43	0.67	323.24	9275.7	-33.03	-32.92	17.08	801947.2	504788.2	32°23'05.6" 103°29'20.0"	0.31
9370.84	0.86	330.48	9370.1	-31.97	-31.86	16.4	801946.5	504789.2	32°23'05.6" 103°29'20.0"	0.23
9465.25	1.12	343.43	9464.5	-30.46	-30.36	15.79	801945.9	504790.7	32°23'05.6" 103°29'20.0"	0.36
9559.66	1.1	349.16	9558.89	-28.69	-28.59	15.36	801945.5	504792.5	32°23'05.6" 103°29'20.0"	0.12
9654.07	0.82	354.19	9653.28	-27.12	-27.03	15.12	801945.3	504794.1	32°23'05.7" 103°29'20.0"	0.31
9748.48	0.61	324.3	9747.69	-26.04	-25.95	14.76	801944.9	504795.2	32°23'05.7" 103°29'20.0"	0.45
9842.89	1.1	275.55	9842.09	-25.54	-25.45	13.56	801943.7	504795.7	32°23'05.7" 103°29'20.0"	0.88
9937.3	1.87	113.24	9936.48	-26.06	-25.97	14.08	801944.2	504795.1	32°23'05.7" 103°29'20.0"	3.11
10031.71	1.63	111.54	10030.85	-27.18	-27.07	16.74	801946.9	504794	32°23'05.7" 103°29'20.0"	0.26
10126.12	1.33	133.61	10125.23	-28.44	-28.32	18.78	801948.9	504792.8	32°23'05.7" 103°29'20.0"	0.68
10220.53	1.72	173.18	10219.61	-30.61	-30.48	19.74	801949.9	504790.6	32°23'05.6" 103°29'20.0"	1.16
10314.94	2.31	176.25	10313.96	-33.92	-33.79	20.04	801950.2	504787.3	32°23'05.6" 103°29'20.0"	0.64
10409.35	1.26	208.65	10408.32	-36.72	-36.6	19.66	801949.8	504784.5	32°23'05.6" 103°29'20.0"	1.5
10503.76	1.45	275.47	10502.71	-37.51	-37.4	17.98	801948.1	504783.7	32°23'05.6" 103°29'20.0"	1.59
10598.17	1.94	271.07	10597.08	-37.35	-37.25	15.19	801945.3	504783.9	32°23'05.6" 103°29'20.0"	0.54
10738.35	2.69	251.67	10737.15	-38.3	-38.24	9.69	801939.8	504782.9	32°23'05.6" 103°29'20.0"	0.77
10802	2.78	243.38	10800.73	-39.45	-39.4	6.9	801937	504781.7	32°23'05.5" 103°29'20.0"	0.64
10834	3.21	247.27	10832.68	-40.13	-40.1	5.38	801935.5	504781	32°23'05.5" 103°29'20.0"	1.49
10866	3.36	289.71	10864.63	-40.15	-40.13	3.67	801933.8	504781	32°23'05.5" 103°29'20.0"	7.44
10896	4.9	288.91	10894.56	-39.42	-39.41	1.63	801931.8	504781.7	32°23'05.5" 103°29'20.0"	5.14
10929	7.91	296.96	10927.35	-37.92	-37.93	-1.73	801928.4	504783.2	32°23'05.6" 103°29'20.0"	9.5
10960	10.13	300.52	10957.96	-35.54	-35.58	-5.98	801924.2	504785.5	32°23'05.6" 103°29'20.0"	7.38
10991	13.09	305.86	10988.32	-32.06	-32.13	-11.18	801919	504789	32°23'05.6" 103°29'21.0"	10.15
11023	17.44	308.28	11019.19	-26.92	-27.04	-17.88	801912.3	504794.1	32°23'05.7" 103°29'21.0"	13.74
11054	21.97	309.75	11048.37	-20.28	-20.45	-25.99	801904.1	504800.7	32°23'05.7" 103°29'21.0"	14.7
11085	26	312.55	11076.68	-11.91	-12.14	-35.46	801894.7	504809	32°23'05.8" 103°29'21.0"	13.51
11117	30.52	314.14	11104.86	-1.43	-1.74	-46.46	801883.7	504819.4	32°23'05.9" 103°29'21.0"	14.32
11149	35.41	315.15	11131.7	10.88	10.5	-58.84	801871.3	504831.6	32°23'06.0" 103°29'21.0"	15.38
11180	39.64	315.79	11156.28	24.43	23.96	-72.07	801858.1	504845.1	32°23'06.2" 103°29'21.0"	13.7
11212	43.58	317.28	11180.21	39.95	39.39	-86.68	801843.5	504860.5	32°23'06.3" 103°29'21.0"	12.69
11243	48.13	318.77	11201.79	56.59	55.93	-101.54	801828.6	504877	32°23'06.5" 103°29'22.0"	15.08
11275	53.7	319.97	11221.96	75.54	74.78	-117.7	801812.4	504895.9	32°23'06.7" 103°29'22.0"	17.65
11306	58.51	321.4	11239.24	95.55	94.69	-134	801796.1	504915.8	32°23'06.9" 103°29'22.0"	15.98
11338	62.67	323.98	11254.95	117.83	116.86	-150.88	801779.3	504938	32°23'07.1" 103°29'22.0"	14.77
11369	66.43	326.96	11268.28	140.99	139.92	-166.73	801763.4	504961	32°23'07.3" 103°29'22.0"	14.91
11401	70.57	330.09	11280	166.48	165.31	-182.26	801747.9	504986.4	32°23'07.6" 103°29'23.0"	15.82
11432	74.94	332.83	11289.19	192.58	191.31	-196.39	801733.7	505012.4	32°23'07.8" 103°29'23.0"	16.43
11464	78.94	335.34	11296.42	220.7	219.34	-210	801720.1	505040.4	32°23'08.1" 103°29'23.0"	14.65
11495	82.02	339.3	11301.55	248.98	247.54	-221.78	801708.4	505068.6	32°23'08.4" 103°29'23.0"	16.04
11527	83.54	343.78	11305.58	279.14	277.65	-231.83	801698.3	505098.8	32°23'08.7" 103°29'23.0"	14.68
11558	85.77	348.64	11308.47	309.16	307.61	-239.18	801691	505128.7	32°23'09.0" 103°29'23.0"	17.19
11590	88.46	352.57	11310.08	340.71	339.14	-244.4	801685.7	505160.2	32°23'09.3" 103°29'23.0"	14.87
11645	89.75	358.32	11310.94	395.53	393.93	-248.76	801681.4	505215	32°23'09.9" 103°29'23.0"	10.71
11677	89.81	358.54	11311.06	427.53	425.92	-249.64	801680.5	505247	32°23'10.2" 103°29'23.0"	0.71
11771	90.25	359.59	11311.01	521.52	519.91	-251.17	801679	505341	32°23'11.1" 103°29'23.0"	1.21
11866	90.25	359.74	11310.6	616.52	614.9	-251.73	801678.4	505436	32°23'12.0" 103°29'23.0"	0.16
11961	90.95	0.49	11309.6	711.51	709.9	-251.54	801678.6	505531	32°23'13.0" 103°29'23.0"	1.08
12055	91.6	1.7	11307.51	805.45	803.85	-249.74	801680.4	505624.9	32°23'13.9" 103°29'23.0"	1.46
12150	91.35	2.36	11305.06	900.34	898.76	-246.38	801683.8	505719.9	32°23'14.8" 103°29'23.0"	0.74
12244	91.29	2.91	11302.9	994.18	992.64	-242.06	801688.1	505813.7	32°23'15.8" 103°29'23.0"	0.59
12339	89.94	4.25	11301.88	1088.95	1087.44	-236.13	801694	505908.5	32°23'16.7" 103°29'23.0"	2
12434	90.31	4.55	11301.67	1183.62	1182.16	-228.84	801701.3	506003.2	32°23'17.6" 103°29'23.0"	0.5
12528	90.62	4.12	11300.91	1277.3	1275.89	-221.73	801708.4	506097	32°23'18.6" 103°29'23.0"	0.56

12623	89.51	4.01	11300.8	1372.01	1370.65	-215	801715.1	506191.7	32°23'19.5"103°29'23.1	1.17
12717	89.51	4.13	11301.6	1465.73	1464.41	-208.33	801721.8	506285.5	32°23'20.4"103°29'23.1	0.13
12812	90.15	4.32	11301.89	1560.42	1559.15	-201.33	801728.8	506380.2	32°23'21.4"103°29'23.1	0.7
12907	90.09	4.62	11301.69	1655.08	1653.86	-193.93	801736.2	506474.9	32°23'22.3"103°29'23.1	0.32
13001	90.25	5.15	11301.41	1748.68	1747.52	-185.92	801744.2	506568.6	32°23'23.2"103°29'22.1	0.59
13096	90.09	3.55	11301.13	1843.36	1842.24	-178.72	801751.4	506663.3	32°23'24.2"103°29'22.1	1.69
13190	90.49	3.84	11300.65	1937.12	1936.04	-172.66	801757.5	506757.1	32°23'25.1"103°29'22.1	0.53
13285	89.91	3.81	11300.32	2031.86	2030.83	-166.32	801763.8	506851.9	32°23'26.0"103°29'22.1	0.61
13379	89.75	3.52	11300.6	2125.63	2124.64	-160.31	801769.8	506945.7	32°23'27.0"103°29'22.1	0.35
13474	88.92	2.68	11301.7	2220.45	2219.49	-155.17	801775	507040.6	32°23'27.9"103°29'22.1	1.24
13568	89.57	2.45	11302.94	2314.32	2313.39	-150.97	801779.2	507134.5	32°23'28.8"103°29'22.1	0.73
13663	89.66	2.45	11303.58	2409.2	2408.3	-146.91	801783.2	507229.4	32°23'29.8"103°29'22.1	0.09
13757	90.18	2.88	11303.71	2503.07	2502.2	-142.54	801787.6	507323.3	32°23'30.7"103°29'22.1	0.72
13852	90.18	3.23	11303.41	2597.9	2597.06	-137.47	801792.7	507418.1	32°23'31.6"103°29'22.1	0.37
13946	89.2	3.31	11303.92	2691.7	2690.91	-132.11	801798	507512	32°23'32.6"103°29'22.1	1.05
14018	89.88	2.36	11304.5	2763.59	2762.81	-128.55	801801.6	507583.9	32°23'33.3"103°29'22.1	1.62
14112	90.37	1.07	11304.29	2857.52	2856.77	-125.74	801804.4	507677.8	32°23'34.2"103°29'22.1	1.47
14206	90.71	1.06	11303.41	2951.49	2950.75	-123.99	801806.1	507771.8	32°23'35.1"103°29'22.1	0.36
14301	91.63	1.58	11301.47	3046.43	3045.7	-121.8	801808.3	507866.8	32°23'36.1"103°29'22.1	1.11
14395	91.97	1.5	11298.51	3140.33	3139.62	-119.28	801810.9	507960.7	32°23'37.0"103°29'22.1	0.37
14489	92.06	1.99	11295.21	3234.21	3233.52	-116.42	801813.7	508054.6	32°23'37.9"103°29'21.1	0.53
14584	91.54	2.79	11292.22	3329.05	3328.39	-112.46	801817.7	508149.4	32°23'38.9"103°29'21.1	1
14678	90.49	3.22	11290.56	3422.87	3422.24	-107.53	801822.6	508243.3	32°23'39.8"103°29'21.1	1.21
14773	90.89	3.33	11289.42	3517.67	3517.08	-102.1	801828	508338.1	32°23'40.7"103°29'21.1	0.44
14868	91.05	3.3	11287.81	3612.46	3611.91	-96.61	801833.5	508433	32°23'41.7"103°29'21.1	0.17
14962	90.99	3.37	11286.13	3706.25	3705.73	-91.14	801839	508526.8	32°23'42.6"103°29'21.1	0.1
15057	89.75	3.29	11285.52	3801.05	3800.57	-85.63	801844.5	508621.6	32°23'43.5"103°29'21.1	1.31
15151	90.15	3.48	11285.6	3894.84	3894.41	-80.08	801850.1	508715.5	32°23'44.5"103°29'21.1	0.47
15246	90.46	3.38	11285.1	3989.63	3989.23	-74.39	801855.7	508810.3	32°23'45.4"103°29'21.1	0.34
15340	87.57	3.46	11286.71	4083.4	4083.04	-68.79	801861.4	508904.1	32°23'46.3"103°29'21.1	3.08
15435	87.87	3.27	11290.49	4178.13	4177.8	-63.21	801866.9	508998.8	32°23'47.3"103°29'21.1	0.37
15529	88.55	3.31	11293.43	4271.89	4271.6	-57.82	801872.3	509092.6	32°23'48.2"103°29'21.1	0.72
15623	88.18	3.49	11296.11	4365.65	4365.4	-52.25	801877.9	509186.4	32°23'49.1"103°29'21.1	0.44
15718	88.61	3.91	11298.77	4460.37	4460.16	-46.12	801884	509281.2	32°23'50.1"103°29'21.1	0.63
15812	88.92	4.23	11300.8	4554.06	4553.9	-39.45	801890.7	509374.9	32°23'51.0"103°29'20.1	0.47
15907	90.06	4.55	11301.64	4648.73	4648.62	-32.18	801898	509469.7	32°23'51.9"103°29'20.1	1.25
15959	90.4	4.4	11301.43	4700.55	4700.46	-28.12	801902	509521.5	32°23'52.4"103°29'20.1	0.71
16010	90.4	4.4	11301.08	4751.37	4751.31	-24.21	801905.9	509572.3	32°23'52.9"103°29'20.1	0 Proj to Bit

TARGETS

Name	MD	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]				
No.11H PBHL		11287	4752.12	-30.76	801899.4	509573.2	32°23'53.0"103°29'20.1		rectangle	

WELLPATH COMPOSITION Ref Wellbore: No. 11 AWB Ref Wellpath: No. 11 AWP

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

VES Gyro < 0 10738.35 Generic gyro - northseeking (Standard)

BHI MWD 10738.35 15959 NaviTrak (Standard)

Projection 15959 16010 Blind Drilling (std)