

Results of Directional Survey

API number:	30-025-41024		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	BELL LAKE 19 STATE # 1H

surface	ULSTR:	M	19	T 24S	R 33E
				200 FSL	700 FWL

BH Loc	ULSTR:	D	19	T 24S	R 33E
15719	MD	11053.7	TVD	292 FNL	624 FWL
				4988 FSL	

Top Perf/OH	ULSTR:	M	19	T 24S	R 33E
11230	MD	11033.7	TVD	507 FSL	596 FWL

Bot Perf/OH	ULSTR:	D	19	T 24S	R 33E
15560	MD	11054.8	TVD	451 FNL	626 FWL
				4829 FSL	

	MD	N/S	E/W	VD
	11225	302.14	-103.69	11032.1
TOP PERFS/OH	11230	306.88	-103.68	11033.70
	11256	331.50	-103.63	11042.05
	15535	4604.38	-74.21	11054.92
BOT PERFS/OH	15560	4629.38	-74.36	11054.78
	15630	4699.38	-74.78	11054.40

NEXT TO LAST	15644	4724.38	-75.01	11054.20
LAST READING	15719	4788.37	-75.63	11053.65
TD	15719	4788.37	-75.63	11053.65

Surface Location	200	FS	700	FW
Projected BHL	4988	FS	624	FW
Location of				
Top Perfs/OH	507	FS	596	FW
Bottom Perfs/OH	4829	FS	626	FW

SUMMARY of Subsurface Locations

Surface Location	M-19-24S-33E	200	FS	700	FW	Vert. Depth
Top Perfs/OH	M-19-24S-33E	507	FS	596	FW	11033.70
Bottom Perfs/OH	D-19-24S-33E	4829	FS	626	FW	11054.78
Projected TD	D-19-24S-33E	4988	FS	624	FW	11053.65

OCT 22 2013



A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

June 3, 2013

HOBBS OCD

SEP 06 2013

RECEIVED

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers

Re: **BELL LAKE 19 STATE NO. 001H**

Please find enclosed a copy of the survey from 0.00' to 11050.00' ran on the above referenced well.

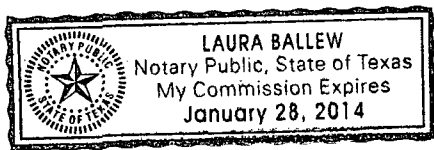
If I can be of any further service please do not hesitate to call me at 800-606-4976.

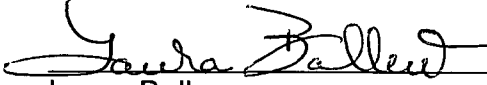
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 3rd day of June, A.D., 2013, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas

Company: DEVON ENERGY PRODUCTION COMPANY

Well: BELL LAKE 19 STATE NO. 001H



Rig Name: H&P 416

State/County: NEW MEXICO/LEA

Latitude: 32.196, Longitude: -103.618

GRID North is 0.380 Degrees East of True North

VS-Azi: 0.000 Degrees



Depth Reference : RKB = 25 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/3/2013 / 09:49

VAUGHN ENERGY SERVICES

HENDERSON, COLORADO

866-835-8333

SURVEY ENGINEER: NICK KULA

BELL LAKE 19 STATE NO. 001H / API 30-025-41024

RECEIVED
SEP 06 2013
HOBBS OGD

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
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	****
116.000	0.566	333.241	115.998	0.511	-0.258	0.511	0.573	333.241	0.488
210.000	0.285	284.935	209.996	0.986	-0.693	0.986	1.205	324.911	0.460
304.000	0.126	217.597	303.995	0.964	-0.982	0.964	1.376	314.473	0.280
398.000	0.308	207.110	397.994	0.657	-1.160	0.657	1.333	299.524	0.197
492.000	0.387	183.771	491.993	0.115	-1.296	0.115	1.301	275.080	0.171
586.000	0.545	191.512	585.990	-0.640	-1.406	-0.640	1.545	245.539	0.180
680.000	0.775	189.081	679.983	-1.705	-1.596	-1.705	2.335	223.093	0.247
774.000	0.459	184.019	773.978	-2.709	-1.722	-2.709	3.210	212.445	0.341
868.000	0.330	225.755	867.976	-3.274	-1.943	-3.274	3.807	210.684	0.325
962.000	0.413	232.178	961.974	-3.670	-2.404	-3.670	4.388	213.226	0.099
1056.000	0.404	227.081	1055.971	-4.104	-2.915	-4.104	5.034	215.384	0.040
1150.000	0.364	242.487	1149.969	-4.467	-3.422	-4.467	5.627	217.452	0.117
1244.000	0.448	244.110	1243.967	-4.765	-4.017	-4.765	6.232	220.127	0.090
1338.000	0.742	235.107	1337.962	-5.274	-4.846	-5.274	7.163	222.581	0.328
1432.000	0.867	229.032	1431.952	-6.089	-5.883	-6.089	8.467	224.015	0.161
1526.000	0.837	230.222	1525.942	-6.994	-6.948	-6.994	9.858	224.808	0.038
1620.000	0.851	225.630	1619.932	-7.922	-7.974	-7.922	11.240	225.189	0.074
1714.000	1.092	228.547	1713.918	-9.003	-9.145	-9.003	12.833	225.447	0.261

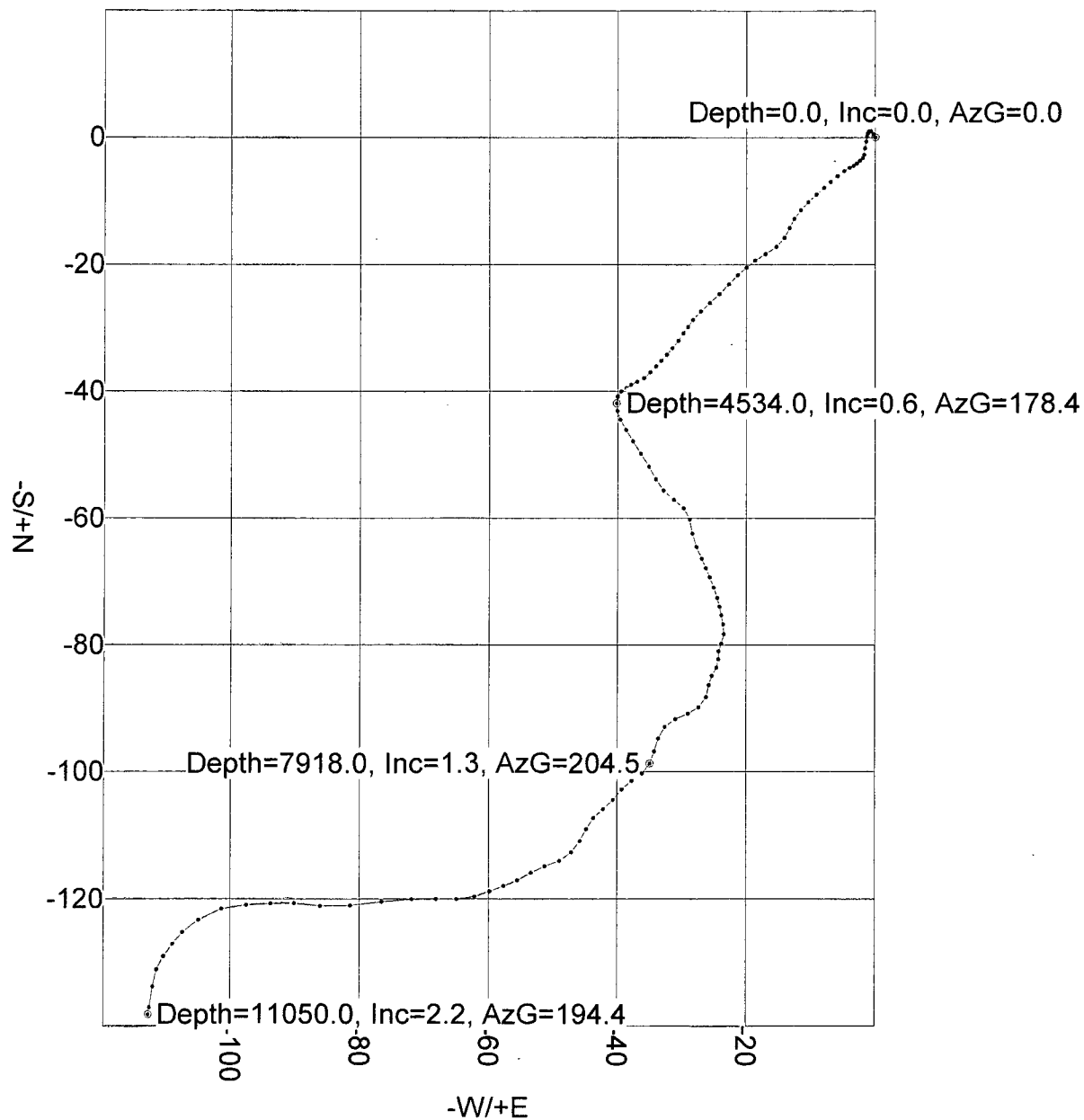
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1808.000	1.037	225.116	1807.902	-10.196	-10.419	-10.196	14.578	225.618	0.090
1902.000	1.081	221.160	1901.886	-11.464	-11.605	-11.464	16.312	225.350	0.091
1996.000	0.968	211.150	1995.871	-12.811	-12.599	-12.811	17.968	224.522	0.225
2090.000	1.004	203.810	2089.857	-14.244	-13.342	-14.244	19.517	223.128	0.140
2184.000	1.086	209.490	2183.842	-15.773	-14.114	-15.773	21.166	221.821	0.140
2278.000	1.264	230.069	2277.822	-17.215	-15.348	-17.215	23.063	221.718	0.484
2372.000	1.241	243.709	2371.800	-18.331	-17.055	-18.331	25.038	222.935	0.317
2466.000	1.090	231.144	2465.781	-19.343	-18.664	-19.343	26.879	223.976	0.315
2560.000	1.042	230.429	2559.764	-20.448	-20.018	-20.448	28.615	224.392	0.053
2654.000	1.161	226.165	2653.747	-21.651	-21.364	-21.651	30.417	224.617	0.154
2748.000	1.268	221.120	2747.726	-23.095	-22.735	-23.095	32.407	224.550	0.161
2842.000	1.288	226.612	2841.703	-24.604	-24.187	-24.604	34.502	224.510	0.132
2936.000	1.209	226.175	2935.680	-26.016	-25.670	-26.016	36.548	224.616	0.085
3030.000	1.222	226.098	3029.659	-27.398	-27.107	-27.398	38.541	224.694	0.015
3124.000	0.927	217.975	3123.642	-28.693	-28.297	-28.693	40.299	224.603	0.353
3218.000	0.783	215.138	3217.632	-29.817	-29.135	-29.817	41.688	224.337	0.159
3312.000	0.719	212.969	3311.624	-30.838	-29.826	-30.838	42.901	224.045	0.075
3406.000	0.987	216.826	3405.613	-31.981	-30.632	-31.981	44.284	223.766	0.292
3500.000	0.816	216.167	3499.602	-33.169	-31.513	-33.169	45.752	223.533	0.182
3594.000	0.847	224.073	3593.592	-34.209	-32.391	-34.209	47.111	223.436	0.126
3688.000	0.725	220.443	3687.583	-35.161	-33.260	-35.161	48.400	223.409	0.140
3782.000	0.720	222.963	3781.576	-36.046	-34.049	-36.046	49.585	223.368	0.034
3876.000	0.842	225.049	3875.567	-36.966	-34.940	-36.966	50.866	223.386	0.134
3970.000	0.795	229.194	3969.557	-37.880	-35.923	-37.880	52.205	223.480	0.081
4064.000	0.770	251.861	4063.549	-38.503	-37.016	-38.503	53.410	223.872	0.328
4158.000	0.463	230.667	4157.543	-38.941	-37.910	-38.941	54.346	224.232	0.401
4252.000	0.627	237.616	4251.539	-39.457	-38.638	-39.457	55.225	224.400	0.187
4346.000	0.580	235.776	4345.534	-40.000	-39.466	-40.000	56.192	224.615	0.054
4440.000	0.697	196.430	4439.528	-40.816	-40.022	-40.816	57.164	224.437	0.472
4534.000	0.625	178.373	4533.522	-41.877	-40.169	-41.877	58.028	223.807	0.233
4628.000	0.874	173.401	4627.514	-43.102	-40.072	-43.102	58.852	222.914	0.274
4722.000	0.938	149.710	4721.503	-44.478	-39.601	-44.478	59.553	221.680	0.401
4816.000	1.277	151.614	4815.485	-46.064	-38.715	-46.064	60.173	220.046	0.363
4910.000	1.312	147.487	4909.461	-47.894	-37.639	-47.894	60.914	218.163	0.106
5004.000	1.474	148.844	5003.433	-49.836	-36.435	-49.836	61.734	216.170	0.176
5098.000	1.433	147.207	5097.403	-51.859	-35.172	-51.859	62.661	214.147	0.062
5192.000	1.352	156.048	5191.375	-53.860	-34.086	-53.860	63.740	212.328	0.244
5286.000	1.318	137.654	5285.350	-55.673	-32.907	-55.673	64.671	210.586	0.455
5380.000	1.301	127.087	5379.326	-57.116	-31.327	-57.116	65.143	208.744	0.257

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
5474.000	1.206	135.837	5473.303	-58.469	-29.787	-58.469	65.619	206.996	0.227
5568.000	1.348	165.519	5567.281	-60.249	-28.821	-60.249	66.788	205.565	0.711
5662.000	1.375	172.420	5661.254	-62.438	-28.396	-62.438	68.591	204.455	0.177
5756.000	1.374	154.099	5755.228	-64.569	-27.755	-64.569	70.281	203.260	0.465
5850.000	1.062	158.149	5849.207	-66.391	-26.938	-66.391	71.648	202.085	0.344
5944.000	0.918	156.018	5943.192	-67.888	-26.308	-67.888	72.807	201.183	0.158
6038.000	0.979	157.359	6037.180	-69.317	-25.693	-69.317	73.926	200.337	0.069
6132.000	1.140	161.247	6131.164	-70.944	-25.083	-70.944	75.248	199.471	0.187
6226.000	0.948	161.147	6225.148	-72.565	-24.531	-72.565	76.599	198.678	0.204
6320.000	0.816	168.345	6319.137	-73.956	-24.145	-73.956	77.798	198.081	0.183
6414.000	0.874	169.105	6413.127	-75.316	-23.874	-75.316	79.009	197.588	0.063
6508.000	0.879	169.649	6507.116	-76.729	-23.609	-76.729	80.279	197.103	0.010
6602.000	1.062	180.658	6601.102	-78.310	-23.489	-78.310	81.757	196.697	0.277
6696.000	0.873	210.384	6695.089	-79.799	-23.861	-79.799	83.290	196.648	0.563
6790.000	0.715	186.180	6789.080	-81.000	-24.287	-81.000	84.563	196.691	0.390
6884.000	0.795	180.075	6883.072	-82.235	-24.351	-82.235	85.765	196.495	0.121
6978.000	0.893	201.215	6977.062	-83.571	-24.617	-83.571	87.121	196.413	0.345
7072.000	0.925	216.683	7071.051	-84.862	-25.335	-84.862	88.563	196.623	0.263
7166.000	1.044	180.458	7165.038	-86.327	-25.796	-86.327	90.099	196.637	0.662
7260.000	1.363	202.089	7259.017	-88.220	-26.223	-88.220	92.035	196.554	0.585
7354.000	1.126	231.510	7352.996	-89.830	-27.366	-89.830	93.906	196.943	0.715
7448.000	1.305	245.741	7446.975	-90.845	-29.065	-90.845	95.381	197.742	0.372
7542.000	1.289	245.715	7540.951	-91.720	-31.005	-91.720	96.818	198.677	0.018
7636.000	1.255	221.341	7634.928	-92.927	-32.648	-92.927	98.495	199.358	0.572
7730.000	1.345	196.659	7728.905	-94.757	-33.644	-94.757	100.553	199.548	0.599
7824.000	1.215	196.001	7822.881	-96.772	-34.235	-96.772	102.649	199.482	0.140
7918.000	1.270	204.514	7916.859	-98.678	-34.942	-98.678	104.682	199.499	0.205
8012.000	1.195	230.804	8010.838	-100.245	-36.134	-100.245	106.559	199.822	0.601
8106.000	1.227	236.281	8104.817	-101.423	-37.731	-101.423	108.214	200.406	0.128
8200.000	1.289	221.090	8198.795	-102.779	-39.263	-102.779	110.023	200.907	0.360
8294.000	1.286	219.387	8292.771	-104.391	-40.627	-104.391	112.018	201.265	0.041
8388.000	1.303	232.531	8386.748	-105.856	-42.144	-105.856	113.937	201.709	0.316
8482.000	1.269	221.079	8480.724	-107.291	-43.677	-107.291	115.841	202.151	0.275
8576.000	1.259	203.157	8574.701	-109.025	-44.767	-109.025	117.858	202.324	0.419
8670.000	1.325	213.055	8668.678	-110.886	-45.766	-110.886	119.959	202.427	0.247
8764.000	1.402	221.518	8762.651	-112.658	-47.121	-112.658	122.116	202.698	0.229
8858.000	1.458	245.639	8856.623	-114.013	-48.973	-114.013	124.086	203.246	0.638
8952.000	1.508	253.362	8950.591	-114.860	-51.248	-114.860	125.774	204.045	0.219
9046.000	1.450	235.389	9044.561	-115.890	-53.412	-115.890	127.606	204.744	0.495

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
9140.000	1.475	244.701	9138.530	-117.082	-55.485	-117.082	129.564	205.356	0.254
9234.000	1.406	251.168	9232.500	-117.972	-57.670	-117.972	131.313	206.052	0.188
9328.000	1.439	245.889	9326.471	-118.826	-59.839	-118.826	133.043	206.729	0.144
9422.000	1.640	256.589	9420.438	-119.620	-62.225	-119.620	134.837	207.483	0.372
9516.000	1.805	266.943	9514.395	-120.011	-65.012	-120.011	136.489	208.445	0.374
9610.000	2.076	271.997	9608.341	-120.031	-68.191	-120.031	138.049	209.601	0.341
9704.000	2.515	267.828	9702.266	-120.050	-71.954	-120.050	139.962	210.937	0.500
9798.000	3.155	263.018	9796.150	-120.442	-76.583	-120.442	142.728	212.450	0.725
9892.000	2.810	263.462	9890.023	-121.019	-81.439	-121.019	145.870	213.938	0.368
9986.000	2.834	275.363	9983.910	-121.064	-86.042	-121.064	148.525	215.402	0.623
10080.00	2.135	276.573	10077.82	-120.647	-90.095	-120.647	150.575	216.751	0.746
10174.00	2.346	261.337	10171.75	-120.736	-93.737	-120.736	152.852	217.825	0.670
10268.00	2.288	272.328	10265.67	-120.950	-97.513	-120.950	155.363	218.877	0.476
10362.00	2.576	251.630	10359.59	-121.539	-101.393	-121.539	158.279	219.836	0.977
10456.00	2.350	235.823	10453.50	-123.287	-104.992	-123.287	161.935	220.418	0.759
10550.00	1.511	225.802	10547.45	-125.234	-107.475	-125.234	165.029	220.636	0.959
10644.00	1.456	214.405	10641.42	-127.083	-109.038	-127.083	167.450	220.630	0.319
10738.00	1.426	215.714	10735.39	-129.018	-110.396	-129.018	169.803	220.552	0.047
10832.00	1.446	197.288	10829.36	-131.100	-111.431	-131.100	172.058	220.363	0.490
10926.00	1.907	190.854	10923.32	-133.769	-112.078	-133.769	174.515	219.958	0.529
11020.00	2.154	188.507	11017.26	-137.052	-112.634	-137.052	177.396	219.415	0.277
11050.00	2.199	194.391	11047.24	-138.167	-112.860	-138.167	178.402	219.243	0.760



VAUGHN ENERGY SERVICES
HENDERSON, COLORADO
866-835-8333
SURVEY ENGINEER: NICK KULA
BELL LAKE 19 STATE NO. 001H / API 30-025-41024



VES SURVEY DATE: 05/25/2013



Weatherford®

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

HOBBS OGD

SEP 06 2013

RECEIVED

Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK 73102

Date: June 10, 2013

Attention: Kurtis Schmitz

Re: Devon Energy
Well: Bell Lake 19 State 1H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Justin Nguyen	1H	10594 MD	5/26/2013	Measurement
MWD Supervisor		15655 MD	6/9/2013	While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 13th day of June, 2013, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Bell Lake 19 State #1H
Well: Bell Lake 19 State #1H
Wellpath: Lateral

Date: 6/10/2013 Time: 07:20:44 Page: 1
Co-ordinate(NE) Reference: Well: Bell Lake 19 State #1H, Grid North
Vertical (TVD) Reference: SITE 3564.4
Section (VS) Reference: Well (0.00N,0.00E,359.16Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy

Start Date: 5/30/2013

Company: Weatherford
Tool: MWD;MWD - Standard

Engineer: Russell W. Joyner
Tied-to: User Defined

Site: Bell Lake 19 State #1H

Site Position: Northing: 435944.33 ft Latitude: 32 11 47.256 N
From: Map Easting: 762745.54 ft Longitude: 103 37 3.248 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3539.40 ft Grid Convergence: 0.38 deg

Well: Bell Lake 19 State #1H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 435944.33 ft Latitude: 32 11 47.256 N
+E/-W 0.00 ft Easting: 762745.54 ft Longitude: 103 37 3.248 W
Position Uncertainty: 0.00 ft

Wellpath: Lateral

Drilled From: Pilot
Tie-on Depth: 10456.00 ft
Above System Datum: Mean Sea Level
Declination: 7.37 deg
Mag Dip Angle: 60.11 deg
+E/-W Direction
deg

Current Datum: SITE Height 3564.40 ft
Magnetic Data: 5/26/2013
Field Strength: 48425 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 359.16

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
10456.00	2.35	235.82	10453.50	-123.28	-104.99	0.00	-121.73	435821.05	762640.55	Tie On VES First Wft Svy
10594.00	11.16	3.64	10590.70	-111.49	-106.49	9.23	-109.92	435832.84	762639.05	
10626.00	15.33	1.56	10621.84	-104.17	-106.18	13.11	-102.60	435840.16	762639.36	
10657.00	19.43	359.15	10651.42	-94.91	-106.14	13.43	-93.35	435849.42	762639.40	
10689.00	22.63	357.49	10681.29	-83.44	-106.49	10.17	-81.87	435860.89	762639.05	
10720.00	25.56	357.34	10709.58	-70.80	-107.06	9.45	-69.22	435873.53	762638.48	
10752.00	28.07	357.73	10738.14	-56.38	-107.68	7.86	-54.79	435887.95	762637.86	
10784.00	31.99	359.38	10765.84	-40.37	-108.07	12.52	-38.78	435903.96	762637.47	
10815.00	35.40	0.98	10791.63	-23.18	-108.01	11.37	-21.59	435921.15	762637.53	
10847.00	38.90	0.42	10817.13	-3.86	-107.77	10.99	-2.28	435940.47	762637.77	
10878.00	41.79	0.38	10840.76	16.21	-107.63	9.32	17.79	435960.54	762637.91	
10909.00	45.20	0.28	10863.24	37.54	-107.51	11.00	39.12	435981.87	762638.03	
10941.00	48.16	359.79	10885.19	60.82	-107.50	9.32	62.39	436005.15	762638.04	
10972.00	50.89	359.96	10905.31	84.40	-107.55	8.82	85.97	436028.73	762637.99	
11004.00	53.26	0.54	10924.98	109.64	-107.44	7.54	111.20	436053.97	762638.10	
11035.00	55.68	0.99	10942.99	134.86	-107.10	7.90	136.42	436079.19	762638.44	
11067.00	57.93	1.02	10960.51	161.64	-106.63	7.03	163.18	436105.97	762638.91	
11099.00	59.56	2.53	10977.12	188.98	-105.78	6.50	190.51	436133.31	762639.76	
11130.00	61.36	1.77	10992.40	215.93	-104.77	6.19	217.44	436160.26	762640.77	
11162.00	64.02	0.61	11007.08	244.35	-104.18	8.91	245.85	436188.68	762641.36	
11193.00	66.47	0.49	11020.06	272.50	-103.91	7.91	273.99	436216.83	762641.63	
11225.00	69.34	0.37	11032.10	302.14	-103.69	8.98	303.63	436246.47	762641.85	
11256.00	73.20	359.87	11042.05	331.50	-103.63	12.54	332.98	436275.83	762641.91	
11288.00	76.24	0.03	11050.48	362.36	-103.66	9.51	363.84	436306.69	762641.88	
11319.00	80.15	0.45	11056.82	392.70	-103.53	12.68	394.18	436337.03	762642.01	
11351.00	83.77	0.97	11061.30	424.38	-103.14	11.43	425.84	436368.71	762642.40	
11383.00	87.20	1.53	11063.81	456.27	-102.44	10.86	457.72	436400.60	762643.10	
11415.00	88.88	1.67	11064.91	488.23	-101.55	5.27	489.67	436432.56	762643.99	
11446.00	90.70	1.15	11065.02	519.22	-100.78	6.11	520.64	436463.55	762644.76	
11541.00	92.45	0.16	11062.41	614.18	-99.70	2.12	615.57	436558.51	762645.84	



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Bell Lake 19 State #1H
Well: Bell Lake 19 State #1H
Wellpath: Lateral

Date: 6/10/2013 Time: 07:20:44 Page: 2
Co-ordinate(NE) Reference: Well: Bell Lake 19 State #1H, Grid North
Vertical (TVD) Reference: SITE 3564.4
Section (VS) Reference: Well (0.00N,0.00E,359.16Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11635.00	91.19	359.96	11059.43	708.13	-99.60	1.36	709.51	436652.46	762645.94	
11730.00	90.56	0.19	11057.98	803.11	-99.48	0.71	804.49	436747.44	762646.06	
11825.00	90.00	0.02	11057.51	898.11	-99.30	0.62	899.47	436842.44	762646.24	
11949.00	89.30	359.93	11058.09	992.11	-99.34	0.75	993.46	436936.44	762646.20	
12014.00	88.39	359.98	11060.00	1087.09	-99.42	0.96	1088.43	437031.42	762646.12	
12108.00	88.88	0.04	11062.24	1181.06	-99.40	0.53	1182.39	437125.39	762646.14	
12203.00	91.05	359.71	11062.30	1276.06	-99.61	2.31	1277.38	437220.39	762645.93	
12298.00	90.84	359.87	11060.73	1371.04	-99.96	0.28	1372.36	437315.37	762645.58	
12392.00	89.93	359.52	11060.10	1465.04	-100.46	1.04	1466.35	437409.37	762645.08	
12486.00	89.37	359.44	11060.67	1559.03	-101.31	0.60	1560.35	437503.36	762644.23	
12581.00	89.93	359.50	11061.25	1654.03	-102.19	0.59	1655.35	437598.36	762643.35	
12676.00	91.40	359.54	11060.15	1749.01	-102.98	1.55	1750.34	437693.34	762642.56	
12770.00	92.10	0.64	11057.28	1842.97	-102.84	1.39	1844.28	437787.30	762642.70	
12864.00	93.71	1.37	11052.52	1936.83	-101.19	1.88	1938.10	437881.16	762644.35	
12959.00	94.55	3.63	11045.67	2031.49	-97.06	2.53	2032.69	437975.82	762648.48	
13053.00	93.36	5.61	11039.19	2124.95	-89.51	2.45	2126.03	438069.28	762656.03	
13147.00	90.91	6.25	11035.69	2218.38	-79.80	2.69	2219.31	438162.71	762665.74	
13265.00	91.05	2.92	11033.67	2335.96	-70.37	2.82	2336.74	438280.29	762675.17	
13359.00	90.28	3.09	11032.58	2429.83	-65.44	0.84	2430.53	438374.16	762680.10	
13453.00	89.86	2.11	11032.46	2523.73	-61.18	1.13	2524.35	438468.06	762684.36	
13548.00	88.04	359.48	11034.20	2618.69	-59.86	3.37	2619.29	438563.02	762685.68	
13642.00	86.71	358.02	11038.51	2712.57	-61.91	2.10	2713.18	438656.90	762683.63	
13736.00	86.22	357.76	11044.31	2806.32	-65.36	0.59	2806.98	438750.65	762680.18	
13831.00	85.66	358.19	11051.03	2901.03	-68.71	0.74	2901.72	438845.36	762676.83	
13926.00	86.36	358.10	11057.64	2995.74	-71.78	0.74	2996.47	438940.07	762673.76	
14021.00	88.95	358.88	11061.53	3090.62	-74.28	2.85	3091.38	439034.95	762671.26	
14115.00	88.46	359.66	11063.65	3184.59	-75.48	0.98	3185.35	439128.92	762670.06	
14210.00	90.63	0.37	11064.41	3279.58	-75.45	2.40	3280.33	439223.91	762670.09	
14304.00	89.58	0.11	11064.24	3373.58	-75.06	1.15	3374.32	439317.91	762670.48	
14399.00	91.75	359.82	11063.13	3468.57	-75.12	2.30	3469.30	439412.90	762670.42	
14494.00	91.33	359.14	11060.58	3563.53	-75.98	0.84	3564.26	439507.86	762669.56	
14588.00	90.84	359.28	11058.80	3657.50	-77.27	0.54	3658.24	439601.83	762668.27	
14683.00	90.70	359.49	11057.52	3752.49	-78.29	0.27	3753.23	439696.82	762667.25	
14778.00	90.35	359.75	11056.65	3847.48	-78.92	0.46	3848.22	439791.81	762666.62	
14872.00	89.58	359.97	11056.71	3941.48	-79.15	0.85	3942.22	439885.81	762666.39	
14967.00	89.16	0.31	11057.75	4036.47	-78.92	0.57	4037.20	439980.80	762666.62	
15062.00	88.60	0.03	11059.61	4131.45	-78.64	0.66	4132.16	440075.78	762666.90	
15156.00	90.70	0.64	11060.19	4225.45	-78.09	2.33	4226.14	440169.78	762667.45	
15251.00	90.77	0.45	11058.97	4320.43	-77.19	0.21	4321.10	440264.76	762668.35	
15345.00	91.05	1.15	11057.47	4414.41	-75.87	0.80	4415.05	440358.74	762669.67	
15440.00	90.91	0.52	11055.85	4509.39	-74.49	0.68	4509.99	440453.72	762671.05	
15535.00	90.21	359.82	11054.92	4604.38	-74.21	1.04	4604.97	440548.71	762671.33	
15630.00	90.42	359.49	11054.40	4699.38	-74.78	0.41	4699.97	440643.71	762670.76	
15655.00	90.49	359.45	11054.20	4724.38	-75.01	0.32	4724.97	440668.71	762670.53	Last Wft Svy
15719.00	90.49	359.45	11053.65	4788.37	-75.63	0.00	4788.96	440732.70	762669.91	Proj. To Bit

Annotation

MD ft	TVD ft	
10456.00	10453.50	Tie On VES
10594.00	10590.70	First Wft Svy
15655.00	11054.20	Last Wft Svy
15719.00	11053.65	Proj. To Bit



Bell Lake 19 Fed 1H
Lea County, New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10456.00	2.35	235.82	10453.50	-123.29	-104.99	0.00	0.00	-121.66	
2	10475.24	2.17	234.40	10472.72	-123.72	-110.61	0.96	196.93	-122.09	
3	10490.24	1.13	300.34	10487.72	-123.81	-110.97	13.33	149.00	-122.17	
4	10495.24	1.13	300.34	10487.72	-123.76	-111.06	0.00	0.00	-122.12	
5	11389.64	90.00	0.59	11060.00	449.24	-114.90	10.00	60.25	450.87	
6	15729.26	90.00	0.59	11060.00	4788.63	-70.57	0.00	0.00	4789.15	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Bell Lake 19 State #1H	0.00	0.00	435944.33	762745.54	32°11'47.256N	103°37'03.248W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11060.00	4788.63	-70.57	440732.96	762674.97	Rectangle (4340x50)

SITE DETAILS

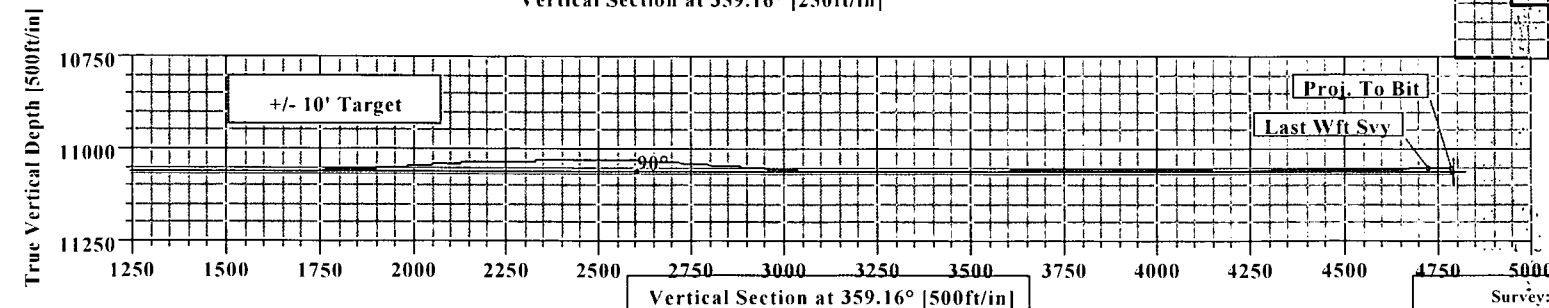
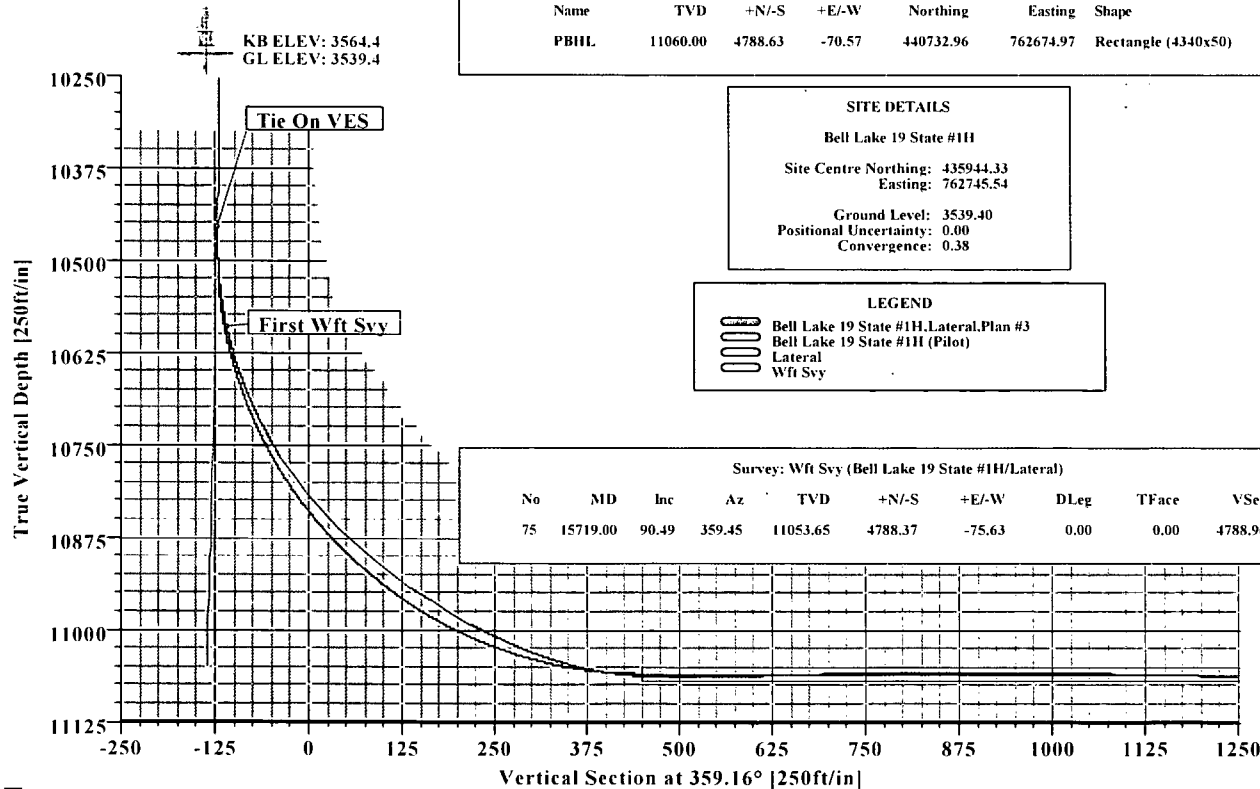
Bell Lake 19 State #1H
Site Centre Northing: 435944.33
Easting: 762745.54
Ground Level: 3539.40
Positional Uncertainty: 0.00
Convergence: 0.38

LEGEND

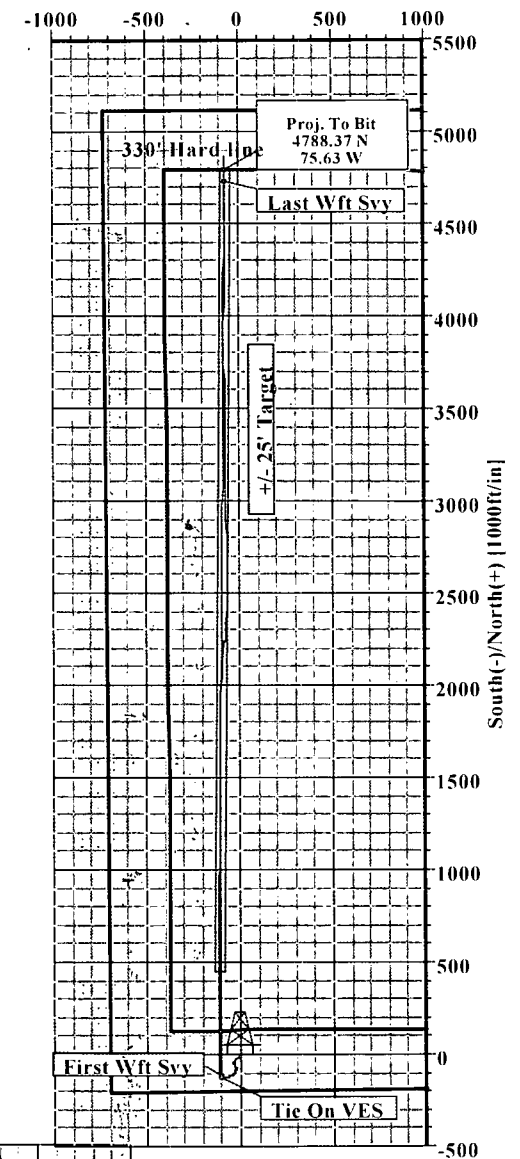
- Bell Lake 19 State #1H, Lateral, Plan #3
- Bell Lake 19 State #1H (Pilot)
- Lateral
- Wft Svy

Survey: Wft Svy (Bell Lake 19 State #1H/Lateral)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
75	15719.00	90.49	359.45	11053.65	4788.37	-75.63	0.00	0.00	4788.96



West(-)/East(+) [1000ft/in]



Weatherford

Survey: Wft Svy (Bell Lake 19 State #1H/Lateral)

Created By: Russell W. Jovner

Date: 6/10/2013