

Results of Directional Survey

API number:	30-025-40405		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	PLAYA 2 STATE # 1H

surface	ULSTR:	N	02	T 19S	R 34E
				330 FSL	2190 FWL

BH Loc	ULSTR:	C	02	T 19S	R 34E
15235 MD	MD	10637.2	TVD	242 FNL	2152 FWL
				5038 FSL	

Top Perf/OH	ULSTR:	N	02	T 19S	R 34E
10750 MD	MD	10642.8	TVD	573 FSL	2188 FWL

Bot Perf/OH	ULSTR:	C	02	T 19S	R 34E
15214 MD	MD	10637.2	TVD	263 FNL	2152 FWL
				5017 FSL	

	MD	N/S	E/W	VD
	10740	234.67	-2.57	10637.94
TOP PERFS/OH	10750	243.40	-2.28	10642.80
	10771	261.73	-1.68	10653.02
	15214	4687.21	-37.95	10637.22
BOT PERFS/OH	15214	4687.21	-37.95	10637.22
	15277	4750.21	-38.40	10637.15

NEXT TO LAST	15214	4687.21	-37.95	10637.22
LAST READING	15277	4750.21	-38.40	10637.15
TD	15235	4708.21	-38.10	10637.20

Surface Location	330	FS	2190	FW
Projected BHL	5038	FS	2152	FW
Location of				
Top Perfs/OH	573	FS	2188	FW
Bottom Perfs/OH	5017	FS	2152	FW

SUMMARY of Subsurface Locations

Surface Location	N-02-19S-34E	330	FS	2190	FW	Vert. Depth
Top Perfs/OH	N-02-19S-34E	573	FS	2188	FW	10642.80
Bottom Perfs/OH	C-02-19S-34E	5017	FS	2152	FW	10637.22
Projected TD	C-02-19S-34E	5038	FS	2152	FW	10637.20

HALLIBURTON

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State of New Mexico, Lea County

SUR: N-02-19s-34e, 330/S & 2190/W
BHL: C-02-19s-34e, 5038/S & 2152/W
API # 30-025-40405

I, Richard Ago, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of 16 March 2012 through 06 April 2012, I did conduct or supervise the taking of a DGWD Directional Survey for the Playa 2 State 1H well from a depth of 10235' MD to a depth of 15214' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling). I am authorized and qualified to make this report and this survey was conducted at the request of Devon Energy Inc. for the Playa 2 State 1H well API No. 30-025-40405-0000 well in Lea County, NM. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling).



Richard Ago
Field Engineer

Devon Energy Inc.
Playa 2 State 1H
Lea County, New Mexico
H&P 223
API# 30-025-40405-0000

March 16, 2012 – April 06, 2012
HD-XX-0009287184

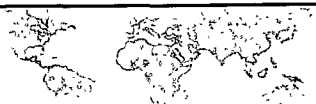
Sperry Drilling
MWD Survey Report

SUR: N-02-19s-34e, 330/S & 2190/W
BHL: C-02-19s-34e, 5038/S & 2152/W
API # 30-025-40405

Submitted by Richard Ago
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HALLIBURTON

Drilling and Formation
Evaluation



End of Well Report for DEVON ENERGY

Rig:	H&P 223
Well Name:	PLAYA 2 STATE 1H
Field Name:	SCHARB BONE SPRINGS
Country:	U.S.A.
Job Number:	HD-XX-0009287184
Job Start Date:	16-Mar-12
API Number:	30-025-40405



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General Information

Company: DEVON ENERGY
Rig: H&P 223
Well: PLAYA 2 STATE 1H
Field: SCHARB BONE SPRINGS
State: NEW MEXICO
County: LEA COUNTY,
Country: U.S.A.
API Number: 30-025-40405
Sperry Job Number: HD-XX-0009287184
Job Start Date: 16-Mar-12
Job End Date: 06-Apr-12
North Reference: Grid
Total Correction (deg) : 7.160
Dip Angle (deg) : 60.570
Total Magnetic Field (nT) : 48857
Date of Magnetic Data: 17 March, 2012
Well Head coordinates N: 32 deg. 40 min 58.78 sec North
Well Head coordinates E: 103 deg. 31 min 56.87 sec West
Vertical section direction (deg): 359.70
Unit Number: 11498524
MWD Engineers: Andy Naquin, Richard Ago, LaKendrick Smith

Company Representatives: Ronny Barrett
Company Geologist: Zach Poland,



Directional Survey Data

Tie-in

0.00

0.00

0.00

0.00

0.00 N

0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100')
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
200.00	0.08	279.92	200.00	0.02 N	0.14 W	0.02	0.04
400.00	0.20	208.94	400.00	0.26 S	0.44 W	-0.26	0.09
600.00	0.26	293.12	600.00	0.38 S	1.03 W	-0.38	0.16
800.00	0.21	200.27	800.00	0.55 S	1.57 W	-0.54	0.17
1000.00	0.31	195.57	1,000.00	1.42 S	1.85 W	-1.41	0.05
1200.00	0.38	214.11	1,199.99	2.49 S	2.36 W	-2.47	0.07
1400.00	0.50	232.80	1,399.99	3.56 S	3.43 W	-3.54	0.09
1600.00	0.80	205.55	1,599.97	5.35 S	4.73 W	-5.32	0.21
1800.00	1.10	196.76	1,799.95	8.45 S	5.88 W	-8.42	0.17
2000.00	0.92	169.43	1,999.92	11.86 S	6.14 W	-11.83	0.25
2200.00	1.24	168.47	2,199.88	15.56 S	5.42 W	-15.53	0.16
2400.00	1.56	160.16	2,399.82	20.24 S	4.06 W	-20.22	0.19
2600.00	2.02	161.47	2,599.72	26.15 S	2.02 W	-26.14	0.23
2800.00	2.43	162.12	2,799.57	33.52 S	0.41 E	-33.53	0.21
3000.00	2.93	156.77	2,999.35	42.26 S	3.72 E	-42.28	0.28
3200.00	3.64	158.30	3,199.02	52.85 S	8.09 E	-52.89	0.36
3400.00	3.92	147.14	3,398.59	64.49 S	14.15 E	-64.57	0.39
3600.00	1.98	169.69	3,598.32	73.64 S	18.47 E	-73.73	1.11
3800.00	1.18	153.26	3,798.24	78.88 S	20.02 E	-78.98	0.46
4000.00	0.80	195.30	3,998.22	82.06 S	20.58 E	-82.17	0.40
4200.00	0.15	130.34	4,198.21	83.58 S	20.41 E	-83.68	0.37
4400.00	0.53	112.81	4,398.21	84.11 S	21.46 E	-84.22	0.19
4600.00	0.30	126.42	4,598.20	84.78 S	22.73 E	-84.89	0.12
4800.00	0.21	159.89	4,798.20	85.43 S	23.28 E	-85.55	0.09
5000.00	0.44	155.00	4,998.19	86.47 S	23.73 E	-86.59	0.12
5200.00	0.32	144.18	5,198.19	87.62 S	24.38 E	-87.75	0.07
5400.00	0.44	178.75	5,398.19	88.84 S	24.73 E	-88.97	0.13
5600.00	0.22	109.09	5,598.18	89.73 S	25.11 E	-89.86	0.21
5800.00	0.22	230.52	5,798.18	90.10 S	25.17 E	-90.23	0.19
6000.00	0.15	20.02	5,998.18	90.10 S	24.97 E	-90.23	0.18
6200.00	0.20	40.87	6,198.18	89.59 S	25.28 E	-89.72	0.04
6400.00	0.12	64.61	6,398.18	89.24 S	25.70 E	-89.37	0.05
6600.00	0.24	17.99	6,598.18	88.75 S	26.02 E	-88.88	0.09
6800.00	0.45	331.96	6,798.18	87.66 S	25.78 E	-87.79	0.17
7000.00	0.41	272.51	6,998.17	86.93 S	24.70 E	-87.06	0.21
7200.00	0.98	288.27	7,198.16	86.37 S	22.36 E	-86.48	0.30
7400.00	0.78	303.75	7,398.13	85.07 S	19.60 E	-85.17	0.15
7600.00	1.38	317.57	7,598.10	82.54 S	16.84 E	-82.63	0.32
7800.00	1.31	321.88	7,798.04	78.96 S	13.81 E	-79.03	0.06
8000.00	1.43	331.92	7,997.98	74.96 S	11.22 E	-75.02	0.13
8200.00	1.53	355.43	8,197.92	70.10 S	9.83 E	-70.15	0.31



Directional Survey Data

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
8400.00	1.44	346.47	8,397.85	64.99 S	9.03 E	-65.04	0.12
8600.00	1.75	329.44	8,597.78	59.92 S	6.89 E	-59.96	0.28
8800.00	1.46	291.32	8,797.70	56.37 S	2.97 E	-56.38	0.54
9000.00	1.21	308.85	8,997.65	54.11 S	1.05 W	-54.11	0.24
9200.00	1.40	306.23	9,197.60	51.35 S	4.67 W	-51.32	0.10
9400.00	0.96	284.99	9,397.56	49.47 S	8.26 W	-49.42	0.31
9600.00	0.68	267.59	9,597.53	49.08 S	11.06 W	-49.03	0.19
9800.00	0.73	290.03	9,797.52	48.70 S	13.44 W	-48.63	0.14
10000.00	0.69	291.61	9,997.51	47.82 S	15.76 W	-47.74	0.02
10150.00	0.89	269.66	10,147.49	47.49 S	17.76 W	-47.40	0.24
10235.00	11.98	1.70	10,231.87	38.65 S	18.16 W	-38.55	14.17
10266.00	14.02	359.78	10,262.08	31.67 S	18.08 W	-31.58	6.71
10298.00	16.62	359.55	10,292.94	23.22 S	18.13 W	-23.13	8.14
10330.00	18.69	359.09	10,323.43	13.52 S	18.25 W	-13.42	6.50
10362.00	21.29	0.75	10,353.50	2.58 S	18.26 W	-2.48	8.30
10393.00	23.50	3.28	10,382.16	9.22 N	17.83 W	9.32	7.79
10425.00	26.29	5.22	10,411.18	22.65 N	16.82 W	22.74	9.08
10456.00	29.58	5.78	10,438.56	37.11 N	15.42 W	37.19	10.64
10488.00	33.12	5.99	10,465.89	53.66 N	13.71 W	53.74	11.08
10519.00	37.12	5.62	10,491.24	71.40 N	11.91 W	71.47	12.93
10551.00	40.56	4.57	10,516.16	91.39 N	10.14 W	91.44	10.93
10583.00	43.86	4.30	10,539.86	112.82 N	8.48 W	112.87	10.33
10614.00	46.96	4.89	10,561.62	134.82 N	6.70 W	134.86	10.11
10646.00	49.51	3.08	10,582.93	158.63 N	5.05 W	158.66	9.02
10677.00	52.24	1.89	10,602.49	182.66 N	4.01 W	182.68	9.28
10709.00	55.75	1.42	10,621.30	208.53 N	3.27 W	208.54	11.04
10740.00	59.28	1.64	10,637.94	234.67 N	2.57 W	234.68	11.39
10771.00	62.50	2.13	10,653.02	261.73 N	1.68 W	261.74	10.49
10803.00	65.39	2.21	10,667.08	290.46 N	0.59 W	290.46	9.02
10832.00	68.10	2.46	10,678.53	317.08 N	0.50 E	317.07	9.38
10864.00	70.32	2.24	10,689.88	346.96 N	1.72 E	346.95	6.96
10895.00	72.56	2.18	10,699.75	376.33 N	2.85 E	376.31	7.23
10926.00	74.64	1.69	10,708.51	406.05 N	3.86 E	406.02	6.90
10958.00	76.53	1.53	10,716.47	437.03 N	4.73 E	437.00	5.90
10989.00	78.68	1.36	10,723.13	467.29 N	5.49 E	467.26	6.98
11021.00	81.11	1.32	10,728.74	498.79 N	6.22 E	498.75	7.59
11052.00	83.36	1.54	10,732.93	529.49 N	6.99 E	529.45	7.31
11147.00	89.38	358.52	10,738.94	624.25 N	7.04 E	624.20	7.08
11241.00	90.70	358.90	10,738.87	718.22 N	4.92 E	718.18	1.46
11336.00	91.08	0.24	10,737.39	813.20 N	4.21 E	813.17	1.47
11430.00	92.50	360.00	10,734.45	907.15 N	4.40 E	907.12	1.53
11525.00	92.76	359.67	10,730.09	1,002.05 N	4.13 E	1002.02	0.44
11619.00	92.71	0.85	10,725.60	1,095.94 N	4.55 E	1095.91	1.25
11714.00	92.99	0.08	10,720.87	1,190.82 N	5.32 E	1190.78	0.86
11809.00	91.57	357.73	10,717.09	1,285.72 N	3.50 E	1285.68	2.89



Directional Survey Data

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
11903.00	90.22	355.81	10,715.63	1,379.55 N	1.80 W	1379.54	2.50
11998.00	90.09	355.37	10,715.37	1,474.27 N	9.11 W	1474.30	0.48
12093.00	90.86	355.31	10,714.58	1,568.95 N	16.83 W	1569.02	0.81
12187.00	91.66	356.73	10,712.51	1,662.70 N	23.35 W	1662.80	1.73
12282.00	92.59	358.69	10,708.98	1,757.55 N	27.14 W	1757.67	2.28
12377.00	93.39	359.42	10,704.02	1,852.41 N	28.70 W	1852.53	1.14
12471.00	92.25	359.57	10,699.39	1,946.29 N	29.53 W	1946.42	1.23
12566.00	92.59	0.01	10,695.38	2,041.20 N	29.88 W	2041.33	0.59
12660.00	93.05	0.38	10,690.75	2,135.09 N	29.56 W	2135.21	0.62
12755.00	90.80	0.36	10,687.55	2,230.03 N	28.95 W	2230.15	2.37
12850.00	90.46	1.13	10,686.51	2,325.01 N	27.71 W	2325.13	0.89
12944.00	89.97	1.41	10,686.15	2,418.99 N	25.62 W	2419.09	0.60
13039.00	91.29	2.21	10,685.11	2,513.93 N	22.62 W	2514.02	1.63
13133.00	90.74	0.41	10,683.44	2,607.89 N	20.47 W	2607.96	2.00
13228.00	91.05	0.55	10,681.96	2,702.87 N	19.67 W	2702.94	0.36
13323.00	90.61	0.52	10,680.58	2,797.86 N	18.79 W	2797.92	0.45
13417.00	90.88	1.18	10,679.36	2,891.84 N	17.39 W	2891.89	0.76
13512.00	90.80	1.51	10,677.97	2,986.80 N	15.15 W	2986.84	0.36
13606.00	91.11	0.08	10,676.40	3,080.78 N	13.85 W	3080.81	1.56
13701.00	90.89	359.64	10,674.74	3,175.76 N	14.07 W	3175.79	0.51
13795.00	91.67	0.24	10,672.64	3,269.74 N	14.17 W	3269.77	1.04
13890.00	91.88	0.03	10,669.70	3,364.69 N	13.95 W	3364.72	0.32
13985.00	91.39	0.73	10,666.99	3,459.65 N	13.32 W	3459.67	0.91
14079.00	90.80	1.47	10,665.20	3,553.62 N	11.52 W	3553.63	1.00
14174.00	90.53	2.24	10,664.10	3,648.56 N	8.45 W	3648.55	0.86
14268.00	89.63	0.90	10,663.97	3,742.52 N	5.88 W	3742.50	1.71
14363.00	90.59	359.33	10,663.79	3,837.52 N	5.69 W	3837.49	1.93
14457.00	91.70	358.18	10,661.92	3,931.47 N	7.73 W	3931.46	1.70
14552.00	92.33	357.81	10,658.58	4,026.35 N	11.06 W	4026.36	0.78
14646.00	93.08	356.79	10,654.14	4,120.14 N	15.48 W	4120.17	1.35
14741.00	93.88	356.52	10,648.37	4,214.81 N	21.02 W	4214.86	0.89
14836.00	91.85	356.87	10,643.62	4,309.52 N	26.49 W	4309.60	2.17
14930.00	91.14	357.13	10,641.16	4,403.36 N	31.41 W	4403.47	0.81
15025.00	90.65	357.79	10,639.68	4,498.26 N	35.62 W	4498.38	0.87
15119.00	91.14	359.88	10,638.22	4,592.22 N	37.52 W	4592.35	2.29
15214.00	90.06	359.60	10,637.22	4,687.21 N	37.95 W	4687.35	1.17
15277.00	90.06	359.60	10,637.15	4,750.21 N	38.40 W	4750.35	0.01

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 359.70 degrees (Grid)
- A total correction of 7.16 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 15,277.00 feet is 4,750.37 feet along 359.54 degrees (Grid)

SURVEYS CALCULATED USING SHORT COLLAR METHOD.

WELL ASSUMED VERTICAL AT WELLHEAD.

SURVEYS FROM 200' MD TO 10150' MD PROVIDED BY VAUGHN ENERGY SERVICES.

SURVEYS FROM 10235' MD TO 15214' MD PROVIDED BY SPERRY DRILLING.

SURVEY AT 15214' MD IS PROJECTED TO TD AT 15277' MD.

SPERRY DRILLING ENGINEERS: RICHARD AGO, ANDY NAQUIN, LAKENDRICK SMITH

WARRANTY

HALLIBURTON ENERGY SERVICES, INC. WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HALLIBURTON ENERGY SERVICES, INC. CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, AND PRODUCTION OPERATION. HALLIBURTON ENERGY SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HALLIBURTON ENERGY SERVICES, INC. SERVICES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HALLIBURTON ENERGY SERVICES, INC.

HALLIBURTON

Sperry Drilling

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