#### McVAY DRILLING COMPANY

P.O. Box 2450 Hobbs, New Mexico 88241

(575) 397-3311 FAX: 39-DRILL

Well Name and Num: Regulus 26 Fed Com 4H Sec. 26, T19S, R31E

Location: Operator:

Devon

**Drilling Contractor:** 

McVay Drilling Company

15-40041

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @	<u>Depth</u>						
0.25	250	0.20	7725	50.98	9150	87.31	13205
0.25	600	1.20	8210	55.86	9121	84.84	13490
1.12	1354	0.30	9259	58.94	9253		
0.39	1888	2.20	9583	57.44	9285		
1.10	2388	1.84	4923	70.00	9412		
1.40	2580	1.02	5332	80.40	9603		
0.32	2860	8.62	8809	85.03	9666		
0.59	3172	13.43	8873	93.90	9984		
0.39	3682	15.81	8905	88.94	10365		
1.00	3980	24.40	9032	89.91	10683		
1.00	4520	42.10	9128	91.39	11094		
1.00	5353	38.40	9191	93.09	11222		
0.80	5827	1.70	9222	89.60	11719		
0.40	6304	46.60	9254	88.80	11984		
0.50	6685	13.14	8776	89.94	12149		
0.50	7165	29.15	8935	93.70	12523		
0.60	7225	40.39	9062	92.32	12740		

Subscribed and sworn to before me this 19th day of June

Notary Public, Lea County, New Mexico

OFFICIAL SEAL **TINA FLEMENS** Notary Public State of New Mexico My Comm. Expires Dell

## HALLIBURTON

3950 Interwood S. Pkwy • Houston, TX 77032 PHONE 281.986.4400 • FAX 281.986.4499

RECEIVED |

JAN 2 3 2013

NMOCD ARTESIA

State of New Mexico, Eddy County

I, Daniel Obi, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of May 05, 2012 through May 30, 2012, I did conduct or supervise the taking of a DGWD Directional Survey for Regulus 26 Federal 4H ST01 from a depth of 8745' MD to a depth of 13490' 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 for the Regulus 26 Federal 4H ST01 API No. 30-154-0041-0100 well in Eddy, New Mexico. 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).

Field Engineer

# **Devon Energy Corporation**

Regulus 26 Federal 4H-ST01 Eddy County, New Mexico McVay 10 API# 30-154-0041-0100

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JAN 2 3 2013

NMOCD ARTESIA

May 05, 2012 – May 30, 2012 HD-MJ-0009406473

Sperry Drilling Services MWD Survey Report

Submitted by Daniel Obi

3950 Interwood South Parkway Houston, TX 77032

Ph: 281.986.4400

HALLIBURTON

Drilling and Formation Evaluation



# Survey Report for

## Devon Energy Production Company,

Rig:

McVay 10

Well Name:

Regulus 26 federal 4H

Field Name:

Hackberry (Bone Spring Sand)

Country:

U.S.A.

Job Number:

HD-XX-0009406473

Job Start Date:

18-May-12

API Number:

30-154-0041-0100

Job No: HD-XX-0009406473 Well Name: Regulus 26 Federal 4H Survey Report Page 1



Sperry Orlling



General Information

Company:

**Devon Energy Production Company** 

Rig:

McVay 10

Well:

Regulus 26 Federal 4H - ST01

Field:

Hackberry (Bone Spring Sand)

Lease Name:

Regulus 26 Federal 4H

State:

Texas

County:

Eddy County

Country:

U.S.A.

API Number:

30-154-0041-0100

Sperry Job Number:

HD-XX-0009406473

Job Start Date:

18-May-12

Job End Date:

30-May-12

North Reference:

Ğrid

Total Correction (deg) :

7.441

Dip Angle (deg) :

60.453

Total Magnetic Field

00.400

48762

21 May, 2012

(nT) :

Date of Magnetic Data:

32 deg. 37 min 31.12 sec North

Well Head coordinates N: Well Head coordinates E:

103 deg. 49 min 56.73 sec West

Vertical section direction

(deg): 269.64

Unit Number:

11674752

MWD Engineers:

Alex Stanwood, Daniel Obi

Company Representatives:

Wayne Duncan

Company Geologist:

Job No: HD-XX-0009406473 Well Name: Regulus 26 Federal 4H Survey Report Page 3

### HALLIBURTON Sperry Orllling



## Directional Survey Data

Tie-in

0.00	0.00	0.00	0.00	0.00 N	0.00 E

Messifed Dupin (ii)	dicellication (Class)	Direction (dec)	. Veritei Depti (0)	Leitide (0)	Departie (ii)	Verifical Section (0)	(P/100))
100.00	0.43	35.08	100.00	0.31 N	0.22 E	-0.22	0.43
200.00	. 0.30	92.80	200.00	0.60 N	0.69 E	-0.70	0.37
300.00	0.31	96.22	300.00	0.56 N	1.22 E	-1.23	0.02
400.00	0.18.	129.75	400.00	0.43 N	1.6.1 E	-1.62	0.19
500.00	0.26	343.15	499.99	0.55 N	1.67 E	-1.67	0.42
600.00	0:51	322.70	599.99	1.12 N	.1.33 E	-1.34	0.28
700.00	0.71	290.16	699.99	1.68 N	0.48 E	-0.49	0.39
800.00	1.16	283.62	799.97	2.14 N	1.08 W	1.07	0.46
900.00	1.41	278.89	899.95	2.57 N	3.28 W	3.27	0.27
1000.00	1.94	273.92	999.91	2.87 N	-6.19.W	6.17,	0.55
1100.00	1.97	277.93	1,099.85	3.22 N	9.58 W	9.56	0.14
1200.00	1.95	273.13	1,199.79	3.55 N	. 12.98 W	12.96	0.17
1300.00	1.34	281.45	1,299.75	3.88 N	15.82 W	15.80	0.65
1400.00	0.92	301.21	1,399.73	4.53 N	17.66 W	17.63	0.57
1500.00	0.83	351.17	1,499.72	5.66 N	18.46 W	18.42	0.74
1600.00	0.76	347.29	1,599:71	7.02 N	18.71 W	18.67	0.09
1700.00	0.50	8.93	1,699.70	8.10 N	18.79 W	18.74	0.35
1800.00	0:69	16.30	1,799.70	9.11 N	18.55 W	18.50	0.20
1900.00	1.18	62.32	1,899.68	10.16 N	17.47 W	17.41	0.86
2000.00	1.50	61.85	1,999.66	11.26 N	15.41 W	15.34	0.32
2100.00	1.49	69.13	2,099.62	12.34 N	13.04 W	12.96	0.19
	1.77	75.53	2,199.58	13.19 N	10.33 W	10.25	0.33
2300.00	1.38	80.82	2,299.54	13.77 N	7.64 W	7.56	0.42
2400.00	1.02	90.16	2,399.52	13.96 N	5.57 W	5.48	0.41
2500.00	0.78	87.50	2,499.51	13.99 N	4.00 W	3.91	0.24
2600.00	0.60	109.65	2,599.50	13.84 N	2.82 W	. 2.74	0:32
2700.00	0.45	123.81	2,699.50	13.44 N	2.00 W	1.92	0.20
2800.00	0:50.	181.74	2,799.50	. 12.79 N	1.69.W	1.61	0.46
2900.00	0.51	178.60	2,899.49	11.91 N	1.69 W	1.62	0.03
3000.00	0.59	186.90	2,999.49	10.95 N	1.74 W	1.67	0.11
3100.00	0.55	206.77	3,099.48	10.01 N	2.02 W	1.96	0.20
3200.00	0.73	202 49	3,199.48	9.00 N	2:48 W	2.42	0.19
33,00.00	0.74	220.14	3,299.47	7.91 N	3.14 W	3.09	0.23
3400.00	0.65	201.88	3,399.46	6.89 N	3.77 W	3.73	0.24
3500.00	0.39	256.19	3,499.46	6.29 N	4.31 W	4.27	0.53
3600,00	1.35	328.27	3,599.45	7.21 N	5.26 W	5.22	1.28
3700.00	1.56	344.67	3,699.41	9.52 N	6.24 W	6.18	0.46
3800.00	1.46	353 10	3,799.38	12 10 N	6.75 W	6.68	0.24
3900.00	1.09	352.13	3,899.36	14.31 N	7.04 W	6.95	0.37
4000.00	0.92	13.69	3,999,34	16.03 N	6.98 W	6.88	0.41
4100.00	0.78	30.78	4,099.33	17.39 N	6.44 W	6.33	0.29
4200.00	0.97	26.77	4,199.32	18.73 Ñ	,5.71 W	5.59	0.20

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Job No:	HD-XX-0009406473	Well Name:	Regulus 26 Federal 4H		Survey	Report	1. 10**	1 × 10	Page 4
1000	110 700 0000 100 170	indii indiid.	Trogango Es Todoro, Tr	-	, our vey	inoport,	* ***		1,7977

HALLIBURTON   Sp	perry Drilling
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Directional :	Survey Data						
Measured Depth (ii)	linellinellon (dea)	Direction (deg)	Vanteeli Depth (ii)	(00)	Depariure.	Verifical Section (fi)	Dogler) ( <i>91</i> /1001)
4300.00	0.88	7.19	4,299.30	20.25 N	5.23 W	5.10	0.33
4400:00	, , 1.03	7.74	4,399.29	21,90.N	5.01 W	4.88	0.15
4500.00	1.20	1.74	4,499.27	23.84 N	4.86 W	4.71	0.21
4600.00	1,06.	354 99	4:599:25	25.81.N	'4 91 W	4.75~	0.19
4700.00	0.93	3.07	4,699.24	27.54 N	4.95 W	4.77	0.19
4800:00	0.97	352.35	4,799.22	-29.19 N	5.02 W	4.83	0.18
4900.00	1.12	358.55	4,899.21	31.01 N	5.15 W	4.96	0.19
5000.00	1 23	354.28	4,999.19	33.05 N	5.29 W	5.08	0.14
5100.00	1.08	354.14	5,099.17	35.06 N	5.49 W	5.27	0.15
5200.00	1.08	358.23	5,199.15	36.94 N	5.61 W	. 5.38	0,08
5300.00	0.98	4.82	5,299.13	38.73 N	5.57 W	5.33	0.15
5400.00	0.90	9 29 1	5,399:12	40.36 N.	5.37 W	5:12	0.11
5500.00	1.04	356.45	5,499.10	42.04 N	5.30 W	5.04	0.26
5600.00	0.85	357.90	5,599,09	43.68 N.,	5,39 W	\$ 15.1 <sub>6</sub>	0.19
5700.00	0.85	6.88	5,699.08	45.16 N	5.32 W	5.04	0.13
. 5800.00	0.98	2 94	5,799.07	46:75 N	5.19 W	4.90	0.14
5900.00	0.73	355.52	5,899.06	48.24 N	5.20 W	. 4.89	0.27
6000.00	0.58	22:92	5,999.05	49:34 N	₹. 5.05 W. • .:	4.74	0.34
6100.00	0.56	14.02	6,099.04	50.28 N	4.73 W	4.42	0.09
6200,00	0.64	6.92	6,199.04	- 51.31 N	4.55,W	4.23	0.11
6300.00	0.53	349.40	6,299.03	52.32 N	4.57 W	4.24	0.21
6400.00	0.43	16.86	* . 6,399.03	53.13 Ñ	4-54-W	4.21.	0.25
6500.00	0.62	10.58	, 6,499.03	54.03 N	4.33 W	3.99	0.20
6600.00	0.58	353.01	6,599.02	55.06 N	4.30 W	3.95.	0.19
6700.00	0.45	319.32	6,699.02	55.86 N	4.61 W	4.26	0.32
6800.00	0.51	11.85	6,799.01	*56.59 N	4.78 W	4.42	0.43
6900.00	0.61	355.11	6,899.01	57.56 N	4.73 W	4.37	0.19
7000.00	0.71	347.58	6,999.00	58.69 N	4.91 W	4.54	0.13
7100.00	0.75	345.51	7,098.99	59.93 N	5.21 W	4.83	0.05
7200.00	0.59	351-13	7,198.99	61.08 N	5.45 W	5.07	0,17
7300.00	0.48	321.65	7,298.98	61.91 N	5.79 W	5.40	0.29
7400.00	0.23	296:32	7,398.98	. 62.33 N	6.23 W	5.84	0.29
7500.00	0.12	264.02	7,498.98	62.41 N	6.51 W	6.12	0.14
7600.00	0.13	192 85	7,598,98	62.29 N	6 64 W	₹\\ 6.25±	0:15
7700.00	0.28	190.39	7,698.98	61.94 N	6.71 W	6.32	0.15
7800.00	0.38	203:16	7,798.98	61 39 N	6.89 W	6.50	0:12
7900.00	0.48	238.61	7,898.98	60.87 N	7.38 W	6.99	0.28
8000.00	0.71	220.83	7,998.97	60 18 Nr - 1	8.14 <sub>1</sub> W	7.76	0.29
8100.00	0.94	216.68	8,098.96	59.05 N	9.03 W	8.66	0.24
8200:00	108	211, 15	8,198.94	57.59 N	10.01 W	9.65	0.17
8300.00	1.20	214.36	8,298.92	55.92 N	11.09 W	10.74	0.14
8400.00	1.33	215.17	8 398 90	54 11 N	12.35 W	12.01	0.13
8500.00	1.34	218.20	8,498.87	52.24 N	13.74 W	13.41	0.07
8600.00	118	214.29	8,598.85	50.47 N	4. * 15.04 W	14.73	0.18
8745.00	9.44	255.25	8,743.12	46.20 N	27.40 W	27.11	5.92

Job No: HD-XX-0009406473 Well Name: Regulus 26 Federal 4H. Survey Report Page 5

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HALLIBURTON	Sperry Drilling	a Balan
ectional Survey Da	a	

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Directional	Survey Data						
Measured Depth (ii)	indination (dea)	Diretton (deg)	Verileal Depthi (ii)	Lainide (0)	Departure (fi)	Marieal Section (ii)	Dogleg (?//00)
<u>8776.00</u> ;	13.14	254.36	8,773.52	44.60 N	33:26 W	. 32.98	11.97
8808.00	16:71	252 98	8,804.43	42.27 N	41.16 W	40.90	11.20
8840.00	20.10	254.69	8,834.79	39.47 N	50.87 W	50.62	10.74
8872.00	24.57	, 260:88	8,864.39	36.97 N		62.52	15.76
8904.00	26.71	265.52	8,893.24	35.35 N	76.49 W	76.27	9.16
8935.00	29.15	267.39	8,920.63	34.46 N	90.98 W	90.76	8.39
8967.00	31.61	270.17	8,948.23	34.13 N	107.16 W	106.94	8.84
8999:00	34.05	270.77	8,975,12	34.28,N	124.50 W	124.28	7:69
9031.00	36.89	269.61	9,001.18	34.33 N	143.07 W	142.85	9.11
9062:00	40.39	269.37	9:025.39	34.16 N	162.42 W	162.20	11,30
9094.00	43.92	269.25	9,049.11	33.90 N	183.89 W	183.67	11.04
9126.00	47.71	269.16	9,071,41;	33 58 N	206.83 W	206 6.1	11.85
9158.00	50.98	269.68	9,092.25	33.34 N	231.10 W	230.89	10.29
9190100	53.82	270.67	9,111.78	33,42 N	256 45 W	256,23	9.20
9221.00	55.86	271.29	9,129.63	33.85 N	281.79 W	` 281.57	6.80
9253.00	56.94	27151	9:147.34	34.51 N	308.43 W	308-21	3.41
9285.00	57.44	270.52	9,164.67	34.98 N	335.32 W	335.10	3.04
9317:00	.59!47	269.95	9,181:41.	35.10 N;	362.60 W	362.37	6.51
9349.00	63.42	269.57	9,196.71	34.98 N	390.70 W	390.47	12.38
9380.00	67.84	269.82	9 209 50	34.83 N	(* 418.93 W	418.70	14.29
9412.00	70.04	270.30	9,220.99	34.86 N	448.79 W	448.56	7.01
9444.00	71.81	271.58	9,231.45	35.36.Ñ	479.02 W	478.79	6.69
9476.00	73.74	272.11	9,240.93	36.34 N	509.57 W	509.33	6.26
9507.00	74.71	272.44	9,249 36	37.53°N	539 38 W	539.13	3.27
9539.00	75.79	272.95	9,257.50	38.98 N	570.29 W	570.03	3.70
9571.00	77.96	. 272.57	9,264.77	40.48 N	601.42 W	601.15	6.90,
9603.00	80.48	272.91	9,270.75	41.98 N	632.81 W	632.54	7.94
9635.00	82.82	272.71	9.275.40	43.54 N	664.43 W	664 15	7.33
9666.00	85.03	272.15	9,278.68	44.84 N	695.23 W	694.93	7.34
9698.00	86 88	÷ 272.97	9,280,94	46.27 N	727:12 W	726.81	6.33
9730.00	88.63	273.34	9,282.19	48.03 N <sup>,</sup>	759.04 W	758.73	5.60
9762.00	90.06	273.11	9,282.56	49.83 N	790.99 W	790.66	4.52
9857.00	93.71	271.13	9,279.43	53.34 N	885.85 W	885.50	4.36
9952.00	94.02	271.52	9,273.04	.55.54 N	980.61; W · · ·	980.24	0.52
9984.00	93.96	271.60	9,270.81	56.40 N	1,012.52 W	1012.15	0.33
10079.00	92.44	268:89	9,265.51	56.81 N	1,107.36 W	1106.98	3:27
10175.00	92.16	268.04	9,261.65	54.24 N	1,203.25 W	1202.88	0.93
10270.00	91.14	267.39	9,258,91;	50.46,N	1,298.13 W	1297.79	1.27
10365.00	89.94	267.25	9,258.02	46.02 N	1,393.02 W	1392.70	1.28
10460.00	. 88.46	267.34	9,259.34	41.53 N	1,487.90 W	1487.61,	1.56
10556.00	89.04	269.14	9,261.44	38.58 N	1,583.83 W	1583.56	1.97
10588.00	88.77	269.20	9,262,05	38.12 N	. 1,615.82 W	1615,55	. 0.89
10683.00	89.91	270.73	9,263.15	38.06 N	1,710.81 W	1710.54	2.01
10715:00	89.69	270.88	9,263.26	38,51·N	1,742.81 W	17,42,53	0.81
10810.00	90.19	271.81	9,263.36	40.74 N	1,837.78 W	1837.49	1.12

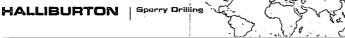
Job No: HD-XX-0009406473 Well Name Regulus 26 Federal 4H Survey Report Page 6

# HALLIBURTON Sparry Drilling

Directional	Survey Data						
Measured Depth	The second second second	Director (dec)	.Verileal Depth.		Departure (ii)	Verifical Section . (ii)	:Deglegs (67100)
10842.00	89.81	271.89	9,263.36	41.78 N	1,869.76 W	1869 46	1.18
10937.00	91.08	271.72	9:262.62	44.77 N°	1/964.71.W	1964.39	1.35
11000.00	90.43	272.04	9,261.78	46.84 N	2,027.67 W	2027.34	1.15
1/1063:00	90.74	272.56	9,261,14	49.37 N	. 2.090 62 W	2090 26	0.95
11094.00	91.39	272.45	9,260.56	50.72 N	2,121.58 W	2121.22	2.12
, 111187.00	93.02	272.33	9:256.98	54.60 N	2,214,43 W	22 14 04	1.76
11222.00	93.09	272.30	9,255.12	56.01 N	2,249.35 W	2248.95	0.20
11342.00	93.52	270 67	9,248.19	59 12 N	2,369:10 W	2368.69	141
11436.00	92.59	270.29	9,243.18	59.90 N	2,462.97 W	2462.54	1.07
1/1530/00	91:36	269.63	£, 9,239,94	59.84 N	2,556.91 W	2556.48	1 49
11624.00	90.71	267.48	9,238.25	57.47 N	2,650.86 W	2650.44	2.38
11719.00	89.66	267.02	9,237.94	,52.91 N	2,745.75 W	2745.36	1,21
11749.00	89.38	266.77	9,238.19	51.29 N	2,775.70 W	2775.32	1.24
11841.00	89.41	266.44	9,239.16	45.84 N	2,867:53 W	2867-19	0.36
11904.00	88.80	266.45	9,240.14	41.93 N	2,930.40 W	2930.08	0.98
11995.00	89.10	267.27	9;241.81	36.94 N.	73,021.25 W±√	3020.96	0.97
12057.00	88.55	267.00	9,243.08	33.85 N	3,083.16 W	3082.89	1.00
12149.00	89:14	268.90	9,244,94	30:55 N	3,175.08 W	3174.82	2.16
12180.00	88.99	268.94	9,245.45	29.97 N	3,206.07 W	3205.82	0.50
12272.007.	89,88	269.03	9,246.36	28:34 N	,3-298.05 W	3297.81	0.97
12334.00	91.02	269.11	9,245.88	27.33 N	3,360.04 W	3359.80	1.85
12397.00	91.28	268.76	9;244.61	26.16.N	3,423.01 W'.	3422.78	, 4, 0.69. °
12460.00	92.72	269.03	9,242.42	24.95 N	3,485.96 W	3485.74	2.32
12523.00	93.74	269.35	9,238.87	24.06 N*:	3:548.86·W	3548.63	1 70
12555.00	93.46	269.08	9,236.87	23.62 N	3,580.79 W	3580.57	1.20
12648:00	. 93.18	269 26	9,231.48	22.28 N	3.673.62 W	3673.41	0:36
12740.00	92.32	269.19	9,227.07	21.04 N	3,765.51 W	3765.30	0.94
12833 00	92.01	269.02	9,223.56	19.58 N	3.858.43.W	3858.23	0.38
12927.00	91.76	269.05	9,220.47	18.01 N	3,952.37 W	3952.18	0.26
13020.00	90,09	268.73	.g,218.97	16.21 N	4,045/33 W <sub>3</sub>	4045 15	1.83
13113.00	88.40	268.08	9,220.20	13.62 N	4,138.29 W	4138.12	1.95
13205.00	87.31	· 267.71	9,223,64	10.24 N -	4.230.16 W	4230.01	1.24
13300.00	86.29	268.08	9,228.94	6.76 N	4,324.94 W	4324.82	1.14
13392.00	85.43	267.46	9,235.58	3.19 N	4.4 <sup>1</sup> 16.63 W	4416 53	116
13490.00	84.84	266.54	9,243.90	1.92 S	4,514.15 W	4514.07	1.11
13577.00	84.84	266.54	9,251.72	7.15 S	4,600 63 W	4600.59	0.00

IJob No:	HD-XX-0009406473 Well Name: Regulus 26 Federal 4H. Survey Report





#### 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 269.64 degrees (Grid)
- A total correction of 7.44 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 13,577.00 feet is 4,600.64 feet along 269.91 degrees (Grid)

SURVEYS CALCULATED USING LONG COLLAR METHOD ITIE-ON SURVEY ASSUMED VERTICAL AT SURFACE SURVEYS FROM 100' MD TO 8600' MD ARE PROVIDED BY GYRODATA SURVEYS FROM 8745' MD TO 13490' MD ARE PROVIDED BY SPERRY DRILLING MWD SURVEY AT 13490' MD HAS BEEN PROJECTED TO TD AT 13577' MD SPERRY ENGINEERS: ALEX STANWOOOD, DANIEL OBI

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