

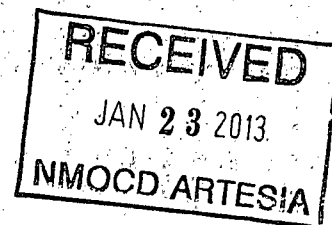


A GYRO TECHNOLOGIES INC. COMPANY

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

September 4, 2012

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



Attn: Mark Cooper

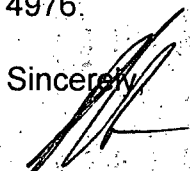
Re: Spica 25 Federal No. 004H

15-40105

Please find enclosed a copy of the survey from 0.00' to 6955.00' ran on the above referenced well.

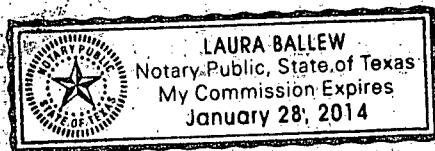
If I can be of any further service please do not hesitate to call me at 800-606-4976.

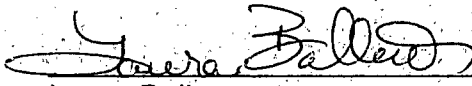
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 5th day of September A.D., 2012, by Keith Havelka.




Laura Balley
Notary Public, State of Texas



Company: Devon Energy Production Co., LP
Lease/Well: Spica 25 Federal / No. 004H
Location: SEC25 T19s R31e
Rig Name: McVay 10
State/County: New Mexico / Eddy
Latitude: 32.63
GRID North is 0.27 Degrees East of True North
VS-Azi: 89.63 Degrees



RECEIVED
JAN 23 2013
NMOCD ARTESIA

Depth Reference : RKB = 20'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 9/4/2012 / 11:02

Vaughn Energy Services
Gardendale, Texas
432-563-5444

Surveyor: Colby Ware
Spica 25 Federal No. 004H / API 30-015-40105

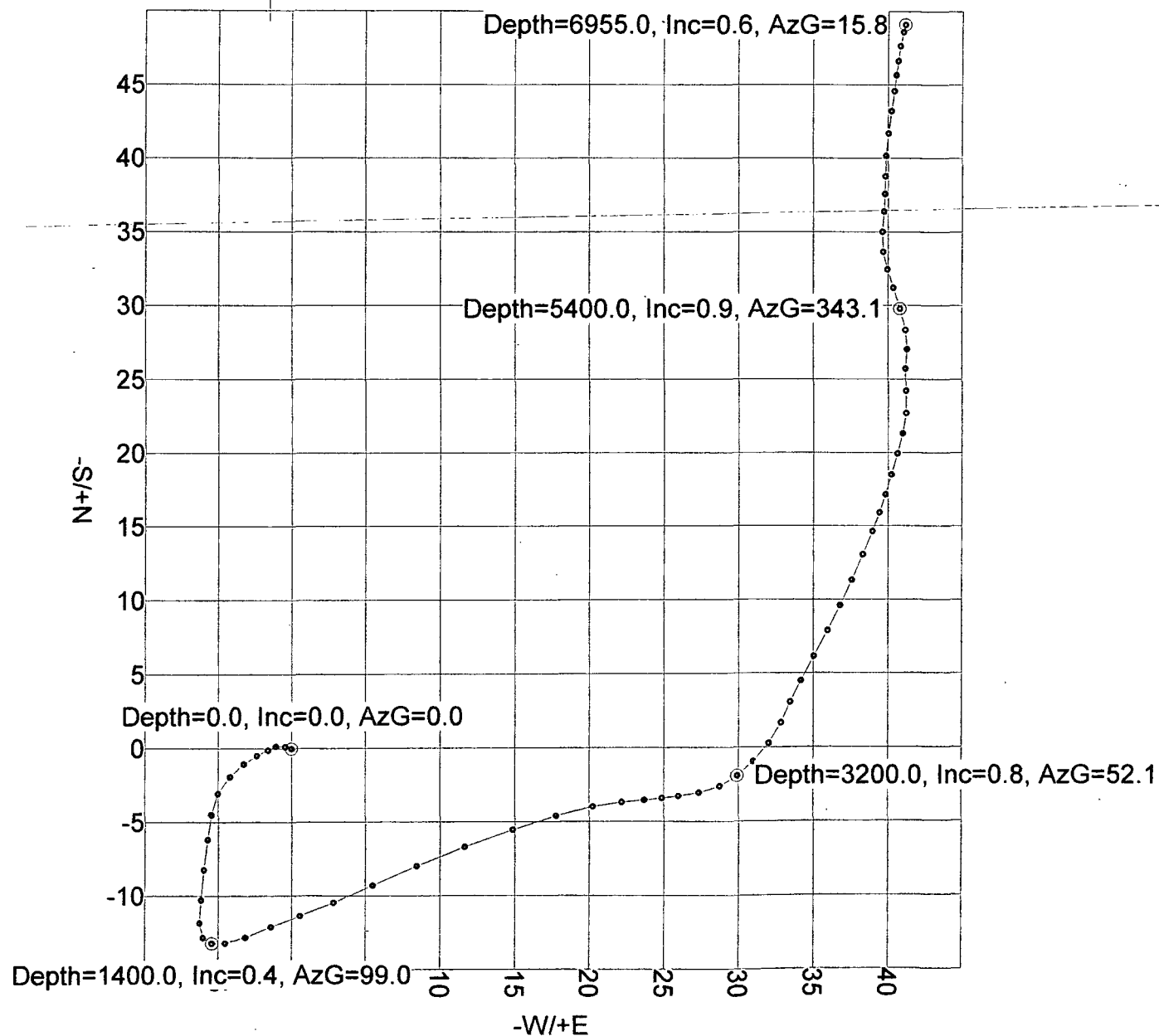
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.51	286.53	100.00	0.13	-0.43	-0.43	0.44	286.53	0.51
200.00	0.26	241.88	200.00	0.15	-1.05	-1.05	1.06	277.94	0.37
300.00	0.42	243.87	299.99	-0.12	-1.58	-1.58	1.58	265.65	0.16
400.00	0.56	244.45	399.99	-0.49	-2.34	-2.34	2.39	258.19	0.14
500.00	0.67	233.53	499.99	-1.05	-3.25	-3.26	3.42	252.13	0.17
600.00	0.79	222.61	599.98	-1.91	-4.19	-4.20	4.61	245.54	0.18
700.00	0.85	209.15	699.97	-3.06	-5.02	-5.04	5.88	238.62	0.20
800.00	0.89	185.69	799.96	-4.48	-5.46	-5.49	7.06	230.61	0.36
900.00	1.06	190.55	899.94	-6.17	-5.71	-5.75	8.40	222.77	0.19
1000.00	1.30	185.41	999.92	-8.21	-5.98	-6.04	10.16	216.07	0.26
1100.00	1.07	184.43	1099.90	-10.27	-6.16	-6.23	11.98	210.96	0.24
1200.00	0.73	183.44	1199.89	-11.84	-6.27	-6.35	13.40	207.92	0.34
1300.00	0.53	141.20	1299.88	-12.84	-6.02	-6.10	14.18	205.14	0.49
1400.00	0.37	98.95	1399.88	-13.24	-5.42	-5.50	14.31	202.25	0.36
1500.00	0.66	83.47	1499.87	-13.23	-4.53	-4.61	13.98	198.89	0.33
1600.00	1.00	67.98	1599.86	-12.83	-3.14	-3.22	13.21	193.74	0.40
1700.00	1.16	68.64	1699.85	-12.14	-1.38	-1.46	12.22	186.50	0.16
1800.00	1.24	69.29	1799.82	-11.38	0.58	0.50	11.40	177.11	0.08

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
1900.00	1.54	66.58	1899.79	-10.47	2.83	2.76	10.84	164.89	0.31
2000.00	1.79	65.86	1999.75	-9.29	5.49	5.43	10.79	149.44	0.24
2100.00	1.93	66.45	2099.70	-7.98	8.45	8.40	11.63	133.35	0.14
2200.00	2.03	69.04	2199.64	-6.67	11.65	11.61	13.43	119.79	0.14
2300.00	1.87	71.22	2299.58	-5.51	14.85	14.82	15.84	110.37	0.18
2400.00	1.64	73.40	2399.53	-4.58	17.77	17.74	18.35	104.46	0.24
2500.00	1.30	79.01	2499.50	-3.96	20.25	20.22	20.63	101.05	0.37
2600.00	0.95	84.62	2599.48	-3.66	22.19	22.17	22.49	99.37	0.36
2700.00	0.78	84.39	2699.47	-3.52	23.70	23.67	23.96	98.44	0.17
2800.00	0.57	84.16	2799.46	-3.40	24.87	24.85	25.10	97.79	0.21
2900.00	0.73	81.87	2899.46	-3.26	26.00	25.98	26.20	97.15	0.17
3000.00	0.86	79.57	2999.45	-3.03	27.37	27.35	27.54	96.32	0.13
3100.00	0.82	65.83	3099.44	-2.60	28.76	28.74	28.88	95.18	0.21
3200.00	0.77	52.10	3199.43	-1.90	29.94	29.93	30.00	93.63	0.20
3300.00	0.87	44.40	3299.42	-0.94	31.01	31.00	31.02	91.74	0.14
3400.00	0.96	36.69	3399.40	0.27	32.04	32.04	32.04	89.51	0.15
3500.00	0.90	23.28	3499.39	1.67	32.85	32.86	32.89	87.09	0.23
3600.00	0.84	24.88	3599.38	3.06	33.47	33.49	33.61	84.78	0.06
3700.00	1.00	26.74	3699.37	4.50	34.17	34.20	34.47	82.49	0.16
3800.00	1.15	28.61	3799.35	6.17	35.05	35.09	35.59	80.02	0.16
3900.00	1.11	26.86	3899.33	7.92	35.97	36.02	36.83	77.59	0.06
4000.00	1.07	25.11	3999.31	9.63	36.80	36.86	38.04	75.34	0.05
4100.00	1.09	23.72	4099.29	11.34	37.58	37.65	39.26	73.20	0.04
4200.00	1.06	22.33	4199.28	13.07	38.32	38.40	40.49	71.16	0.04
4300.00	0.87	21.92	4299.26	14.64	38.95	39.05	41.61	69.40	0.19
4400.00	0.69	18.50	4399.25	15.92	39.43	39.53	42.52	68.02	0.19
4500.00	0.79	17.22	4499.24	17.14	39.82	39.93	43.36	66.71	0.10
4600.00	0.85	15.94	4599.23	18.51	40.23	40.35	44.28	65.29	0.06
4700.00	0.86	14.97	4699.22	19.94	40.62	40.75	45.25	63.86	0.02
4800.00	0.77	14.01	4799.21	21.32	40.98	41.12	46.19	62.52	0.09
4900.00	0.84	4.43	4899.20	22.70	41.20	41.35	47.04	61.15	0.15
5000.00	0.91	354.84	4999.19	24.22	41.19	41.34	47.78	59.54	0.16
5100.00	0.81	4.51	5099.18	25.72	41.17	41.33	48.54	58.01	0.18
5200.00	0.70	4.17	5199.17	27.03	41.27	41.44	49.33	56.78	0.10
5300.00	0.81	348.62	5299.16	28.34	41.17	41.36	49.98	55.46	0.23
5400.00	0.92	343.07	5399.15	29.79	40.80	40.99	50.52	53.86	0.13
5500.00	0.79	342.32	5499.14	31.22	40.36	40.56	51.03	52.28	0.12
5600.00	0.69	341.56	5599.13	32.45	39.96	40.17	51.48	50.92	0.10
5700.00	0.74	350.80	5699.12	33.67	39.66	39.88	52.03	49.67	0.13

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
5800.00	0.83	5.04	5799.11	35.03	39.62	39.85	52.89	48.52	0.21
5900.00	0.74	3.61	5899.10	36.40	39.73	39.96	53.88	47.50	0.10
6000.00	0.64	1.19	5999.10	37.59	39.78	40.02	54.73	46.62	0.10
6100.00	0.74	0.96	6099.09	38.80	39.80	40.05	55.58	45.73	0.11
6200.00	0.85	4.74	6199.08	40.18	39.87	40.13	56.61	44.78	0.12
6300.00	0.90	7.22	6299.07	41.70	40.03	40.30	57.80	43.83	0.06
6400.00	0.86	7.71	6399.06	43.22	40.23	40.51	59.05	42.95	0.03
6500.00	0.72	7.28	6499.05	44.58	40.41	40.70	60.17	42.19	0.15
6600.00	0.53	6.86	6599.04	45.66	40.55	40.84	61.06	41.61	0.19
6700.00	0.59	7.19	6699.04	46.63	40.67	40.97	61.87	41.09	0.06
6800.00	0.59	9.51	6799.03	47.65	40.82	41.12	62.74	40.58	0.02
6900.00	0.52	13.50	6899.03	48.59	41.01	41.32	63.58	40.16	0.08
6955.00	0.57	15.76	6954.02	49.09	41.14	41.45	64.05	39.96	0.10



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Colby Ware
Spica 25 Federal No. 004H / API 30-015-40105



VES Survey Date: 08/28/2012

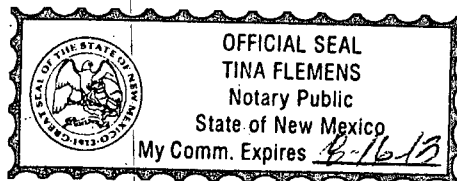
**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

Well Name and Num: Spica 25 Fed 4H
Location: Sec. 25, T19S, R31E
Operator: Devon
Drilling Contractor: McVay Drilling Company

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:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.74	400	10.78	7993	89.86	11588		
0.78	655	10.38	8189	89.70	12060		
1.57	970	11.15	8228	91.65	12532		
0.73	1235	12.97	8323	90.49	12815		
1.35	1900	12.80	8387	92.87	13382		
2.25	2200	9.68	8479	91.89	13855		
0.69	2878	8.68	8542				
0.55	4840	7.87	8668				
0.83	5155	11.71	8888				
0.53	5438	30.85	9108				
0.68	6005	56.58	9324				
0.89	6503	72.80	9517				
0.19	7125	92.10	9982				
2.30	7251	89.90	10266				
5.81	7408	88.53	10738				
12.30	7693	90.63	11305				
12.21	7787	90.70	11399				

By: Hunter C. [Signature]Subscribed and sworn to before me this 17th day of September, 2012Tina FLEMENS
Notary Public, Lea County, New Mexico



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

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

Date: September 12, 2012

Attention: John Prejean

Re: Devon Energy
Well: Spica 25 Federal #4H
Eddy 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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Ben Hernandez	4H	8071' MD	9/1/2012	Measurement
MWD Supervisor		13855' MD	9/12/2012	While Drilling

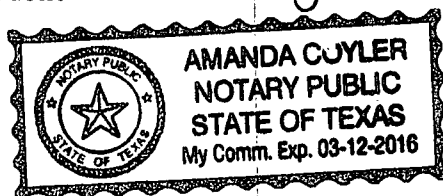
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 14th day of September, 2012, before me a notary public, the undersigned officer, personally appeared Jesse 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		Date: 9/11/2012	Time: 06:54:16	Page: 1						
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: Spica 25 Federal #4H, Grid North								
Site: Spica 25 Federal #4H		Vertical (TVD) Reference: SITE 3517.0								
Well: Spica 25 Federal #4H		Section (VS) Reference: Well (0.00N:0.00E:89.63Azi)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature Db: Sybase								
Survey: Wft Svy		Start Date: 9/4/2012								
Company: Weatherford		Engineer: Russell W. Joyner								
Tool: MWD/MWD - Standard		Tied-to: User Defined								
Field: Eddy Co., NM (NAD 83)										
Map System: US State Plane Coordinate System 1983		Map Zone: New Mexico, Eastern Zone								
Geo Datum: GRS 1980		Coordinate System: Well Centre								
Sys Datum: Mean Sea Level		Geomagnetic Model: IGRF2010								
Site: Spica 25 Federal #4H										
Site Position:		Northing: 591586.57 ft	Latitude: 32 37 31.117 N							
From: Map		Easting: 696231.17 ft	Longitude: 103 49 48.792 W							
Position Uncertainty: 0.00 ft		North Reference: Grid								
Ground Level: 3497.00 ft		Grid Convergence: 0.27 deg								
Well: Spica 25 Federal #4H										
Slot Name:										
Well Position: +N/-S 0.00 ft		Northing: 591586.57 ft	Latitude: 32 37 31.117 N							
+E/-W 0.00 ft		Easting: 696231.17 ft	Longitude: 103 49 48.792 W							
Position Uncertainty: 0.00 ft										
Wellpath: 1		Drilled From: Surface								
Current Datum: SITE		Tie-on Depth: 0.00 ft								
Magnetic Data: 9/1/2012		Above System Datum: Mean Sea Level								
Field Strength: 48734 nT		Declination: 7.59 deg								
Vertical Section: Depth From (TVD)		Mag Dip Angle: 60.48 deg								
ft		+N/-S	+E/-W	Direction						
		ft	ft	deg						
0.00		0.00	0.00	89.63						
Survey										
MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
7993.00	10.78	250.09	7981.91	15.23	-66.13	0.00	-66.03	591601.80	696165.04	Tie On SDI
8071.00	10.35	250.97	8058.59	10.46	-79.61	0.59	-79.54	591597.03	696151.56	First Wft Svy
8103.00	9.91	251.31	8090.09	8.64	-84.94	1.39	-84.88	591595.21	696146.23	
8134.00	9.72	252.60	8120.63	7.00	-89.96	0.94	-89.92	591593.57	696141.21	
8165.00	10.38	255.88	8151.16	5.54	-95.17	2.82	-95.13	591592.11	696136.00	
8197.00	10.79	260.33	8182.62	4.33	-100.92	2.86	-100.89	591590.90	696130.25	
8228.00	11.15	265.16	8213.05	3.59	-106.76	3.18	-106.74	591590.16	696124.41	
8260.00	12.11	268.01	8244.39	3.22	-113.20	3.50	-113.18	591589.79	696117.97	
8291.00	12.50	270.29	8274.68	3.12	-119.81	2.01	-119.78	591589.69	696111.36	
8323.00	12.97	271.23	8305.89	3.22	-126.86	1.61	-126.84	591589.79	696104.31	
8354.00	12.84	271.44	8336.11	3.38	-133.78	0.45	-133.76	591589.95	696097.39	
8384.00	12.86	276.08	8365.36	3.81	-140.43	3.44	-140.41	591590.38	696090.74	
8416.00	11.75	278.58	8396.62	4.68	-147.20	3.85	-147.16	591591.25	696083.97	
8447.00	10.48	279.60	8427.04	5.62	-153.10	4.15	-153.06	591592.19	696078.07	
8479.00	9.68	278.44	8458.55	6.50	-158.63	2.58	-158.58	591593.07	696072.54	
8510.00	8.67	277.12	8489.15	7.17	-163.53	3.33	-163.48	591593.74	696067.64	
8542.00	8.68	276.30	8520.78	7.73	-168.32	0.39	-168.27	591594.30	696062.85	
8573.00	8.56	277.44	8551.43	8.29	-172.93	0.67	-172.87	591594.86	696058.24	
8605.00	8.43	277.24	8583.08	8.89	-177.62	0.42	-177.56	591595.46	696053.55	
8636.00	8.23	278.27	8613.76	9.50	-182.07	0.80	-182.00	591596.07	696049.10	
8668.00	7.87	278.06	8645.44	10.14	-186.51	1.13	-186.44	591596.71	696044.66	
8699.00	5.46	275.22	8676.23	10.57	-190.08	7.84	-190.00	591597.14	696041.09	
8730.00	2.81	269.28	8707.15	10.69	-192.31	8.65	-192.23	591597.26	696038.86	
8762.00	0.65	237.35	8739.13	10.58	-193.24	7.14	-193.17	591597.15	696037.93	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spica 25 Federal #4H
Well: Spica 25 Federal #4H
Wellpath: 1

Date: 9/11/2012 Time: 06:54:16 Page: 2
Co-ordinate(NE) Reference: Well: Spica 25 Federal #4H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N, 0.00E, 89.63Az)
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
8793.00	2.28	90.96	8770.12	10.48	-192.77	9.17	-192.70	591597.05	696038.40	
8825.00	5.40	86.77	8802.05	10.55	-190.63	9.78	-190.56	591597.12	696040.54	
8856.00	8.76	83.56	8832.81	10.90	-186.83	10.91	-186.76	591597.47	696044.34	
8888.00	11.71	84.32	8864.29	11.50	-181.18	9.23	-181.10	591598.07	696049.99	
8919.00	13.69	85.04	8894.53	12.12	-174.39	6.41	-174.31	591598.69	696056.78	
8951.00	17.44	83.83	8925.36	12.97	-165.85	11.76	-165.76	591599.54	696065.32	
8982.00	20.75	83.52	8954.65	14.09	-155.77	10.68	-155.68	591600.66	696075.40	
9013.00	23.21	84.00	8983.39	15.35	-144.24	7.96	-144.13	591601.92	696086.93	
9045.00	25.44	84.52	9012.55	16.66	-131.12	7.00	-131.01	591603.23	696100.05	
9076.00	28.18	85.94	9040.21	17.82	-117.19	9.08	-117.07	591604.39	696113.98	
9108.00	30.85	87.63	9068.06	18.69	-101.45	8.74	-101.33	591605.26	696129.72	
9139.00	34.63	89.26	9094.13	19.13	-84.70	12.52	-84.57	591605.70	696146.47	
9171.00	37.74	90.44	9119.95	19.17	-65.81	9.96	-65.68	591605.74	696165.36	
9202.00	40.87	90.59	9143.94	19.00	-46.17	10.10	-46.05	591605.57	696185.00	
9234.00	44.69	90.70	9167.42	18.75	-24.45	11.94	-24.32	591605.32	696206.72	
9265.00	48.64	90.81	9188.69	18.45	-1.90	12.74	-1.78	591605.02	696229.27	
9297.00	52.81	90.95	9208.94	18.07	22.86	13.04	22.98	591604.64	696254.03	
9328.00	56.58	90.49	9226.86	17.76	48.15	12.22	48.27	591604.33	696279.32	
9359.00	59.95	90.21	9243.16	17.60	74.51	10.90	74.62	591604.17	696305.68	
9391.00	62.52	90.40	9258.56	17.45	102.56	8.05	102.67	591604.02	696333.73	
9422.00	65.47	90.77	9272.15	17.16	130.42	9.58	130.53	591603.73	696361.59	
9454.00	68.80	91.06	9284.58	16.69	159.90	10.44	160.00	591603.26	696391.07	
9486.00	70.68	91.34	9295.66	16.06	189.91	5.93	190.01	591602.63	696421.08	
9517.00	72.89	91.82	9305.35	15.25	219.34	7.28	219.44	591601.82	696450.51	
9548.00	76.15	91.26	9313.62	14.45	249.20	10.66	249.29	591601.02	696480.37	
9580.00	79.01	90.96	9320.50	13.84	280.44	8.98	280.53	591600.41	696511.61	
9604.00	80.58	91.08	9324.76	13.42	304.06	6.56	304.14	591599.99	696535.23	
9636.00	82.06	90.81	9329.59	12.90	335.69	4.70	335.76	591599.47	696566.86	
9667.00	84.67	90.04	9333.17	12.67	366.48	8.77	366.55	591599.24	696597.65	
9699.00	86.29	90.35	9335.69	12.56	398.38	5.15	398.45	591599.13	696629.55	
9730.00	86.22	89.97	9337.71	12.48	429.31	1.24	429.38	591599.05	696660.48	
9762.00	88.25	89.87	9339.26	12.52	461.27	6.35	461.34	591599.09	696692.44	
9793.00	91.26	89.68	9339.39	12.64	492.27	9.73	492.34	591599.21	696723.44	
9825.00	91.40	89.46	9338.65	12.88	524.26	0.81	524.33	591599.45	696755.43	
9888.00	91.33	89.38	9337.15	13.52	587.24	0.17	587.31	591600.09	696818.41	
9982.00	92.10	88.54	9334.33	15.23	681.18	1.21	681.26	591601.80	696912.35	
10077.00	92.45	88.25	9330.56	17.88	776.06	0.48	776.16	591604.45	697007.23	
10172.00	90.98	88.84	9327.72	20.30	870.99	1.67	871.10	591606.87	697102.16	
10266.00	89.93	89.87	9326.97	21.35	964.98	1.56	965.09	591607.92	697196.15	
10361.00	88.74	91.34	9328.08	20.35	1059.96	1.99	1060.07	591606.92	697291.13	
10455.00	89.72	91.11	9329.34	18.34	1153.93	1.07	1154.02	591604.91	697385.10	
10549.00	88.53	90.38	9330.77	17.12	1247.91	1.49	1247.99	591603.69	697479.08	
10644.00	88.88	90.22	9332.92	16.62	1342.88	0.41	1342.96	591603.19	697574.05	
10738.00	88.53	90.38	9335.05	16.13	1436.86	0.41	1436.93	591602.70	697668.03	
10832.00	88.88	90.08	9337.17	15.75	1530.83	0.49	1530.90	591602.32	697762.00	
10927.00	87.97	89.71	9339.78	15.93	1625.79	1.03	1625.86	591602.50	697856.96	
11021.00	87.83	89.44	9343.23	16.62	1719.73	0.32	1719.80	591603.19	697950.90	
11116.00	90.28	89.28	9344.79	17.68	1814.70	2.58	1814.78	591604.25	698045.87	
11210.00	90.56	89.26	9344.10	18.88	1908.69	0.30	1908.77	591605.45	698139.86	
11305.00	90.63	88.34	9343.12	20.87	2003.67	0.97	2003.76	591607.44	698234.84	
11399.00	90.70	88.21	9342.03	23.70	2097.62	0.16	2097.73	591610.27	698328.79	
11494.00	90.14	89.83	9341.33	25.33	2192.60	1.80	2192.71	591611.90	698423.77	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spica 25 Federal #4H
Well: Spica 25 Federal #4H
Wellpath: 1

Date: 9/11/2012 Time: 06:54:16 Page: 3
Co-ordinate(NE) Reference: Well: Spica 25 Federal #4H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N, 0.00E, 89.63Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

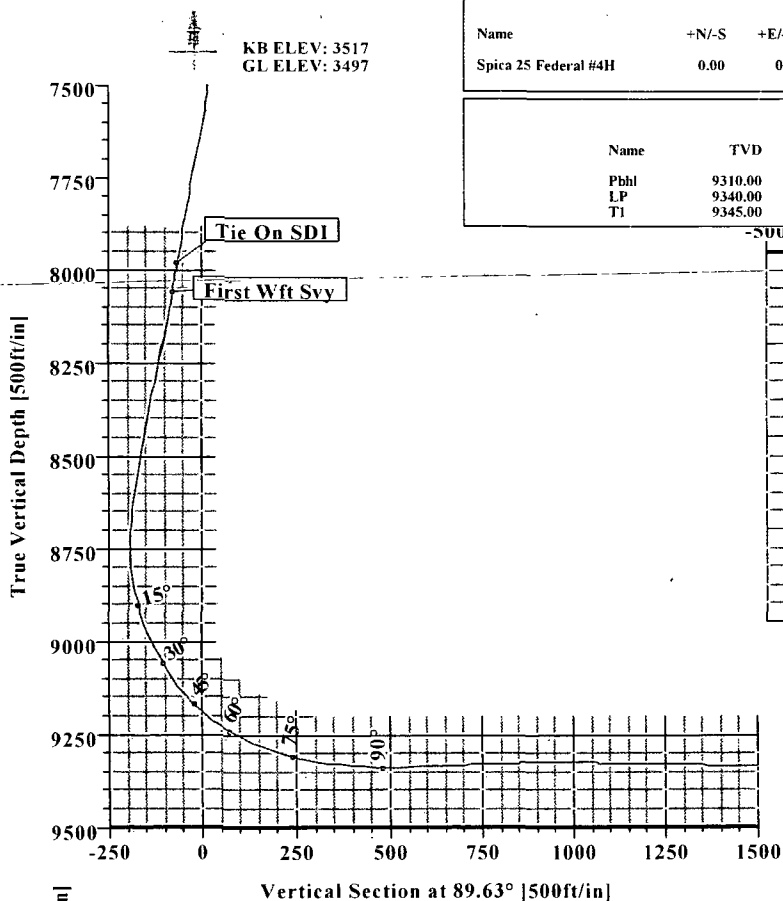
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11588.00	89.86	89.02	9341.33	26.27	2286.59	0.91	2286.71	591612.84	698517.76	
11682.00	92.31	89.81	9339.55	27.23	2380.56	2.74	2380.69	591613.80	698611.73	
11777.00	92.03	91.47	9335.95	26.17	2475.48	1.77	2475.60	591612.74	698706.65	
11871.00	90.98	91.18	9333.48	24.00	2569.42	1.16	2569.53	591610.57	698800.59	
11966.00	91.54	91.69	9331.39	21.62	2664.37	0.80	2664.46	591608.19	698895.54	
12060.00	89.79	90.47	9330.30	19.85	2758.34	2.27	2758.41	591606.42	698989.51	
12155.00	90.00	90.60	9330.48	18.96	2853.34	0.26	2853.40	591605.53	699084.51	
12249.00	90.14	88.98	9330.36	19.30	2947.33	1.73	2947.40	591605.87	699178.50	
12344.00	90.49	89.06	9329.84	20.93	3042.32	0.38	3042.39	591607.50	699273.49	
12438.00	90.91	88.82	9328.69	22.67	3136.30	0.51	3136.38	591609.24	699367.47	
12532.00	91.61	88.08	9326.62	25.21	3230.24	1.08	3230.33	591611.78	699461.41	
12627.00	90.00	88.43	9325.29	28.10	3325.18	1.73	3325.29	591614.67	699556.35	
12721.00	90.35	89.82	9325.00	29.54	3419.17	1.52	3419.29	591616.11	699650.34	
12815.00	90.49	90.06	9324.31	29.64	3513.16	0.30	3513.28	591616.21	699744.33	
12910.00	91.12	89.45	9322.98	30.04	3608.15	0.92	3608.27	591616.61	699839.32	
13004.00	91.96	88.47	9320.45	31.75	3702.10	1.37	3702.23	591618.32	699933.27	
13098.00	92.80	90.42	9316.55	32.66	3796.01	2.26	3796.14	591619.23	700027.18	
13193.00	90.70	90.19	9313.65	32.15	3890.96	2.22	3891.09	591618.72	700122.13	
13287.00	91.68	90.27	9311.70	31.77	3984.94	1.05	3985.06	591618.34	700216.11	
13382.00	92.87	90.15	9307.92	31.43	4079.86	1.26	4079.98	591618.00	700311.03	
13476.00	90.28	89.94	9305.34	31.35	4173.82	2.76	4173.93	591617.92	700404.99	
13570.00	88.60	90.41	9306.26	31.07	4267.81	1.86	4267.92	591617.64	700498.98	
13665.00	89.44	90.78	9307.88	30.08	4362.79	0.97	4362.89	591616.65	700593.96	
13755.00	90.98	90.69	9307.56	28.92	4452.78	1.71	4452.87	591615.49	700683.95	
13855.00	91.89	90.92	9305.05	27.52	4552.73	0.94	4552.82	591614.09	700783.90	Last Wft Svy
13902.00	91.89	90.92	9303.50	26.77	4599.70	0.00	4599.78	591613.34	700830.87	Proj. To Bit

Annotation

MD ft	TVD ft	
7993.00	7981.91	Tie On SDI
8071.00	8058.59	First Wft Svy
13855.00	9305.05	Last Wft Svy
13902.00	9303.50	Proj. To Bit



Spica 25 Federal #4H
Eddy Co, NM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	12627.00	90.00	88.43	9325.30	28.10	3325.14	0.00	0.00	3325.25	
2	12682.92	90.70	89.96	9324.96	28.89	3381.05	3.00	65.46	3381.17	
3	13912.91	90.70	89.96	9310.00	29.83	4610.95	0.00	0.00	4611.05	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Spica 25 Federal #4H	0.00	0.00	591586.57	696231.17	32°37'31.117N	103°49'48.792W	N/A

TARGET DETAILS

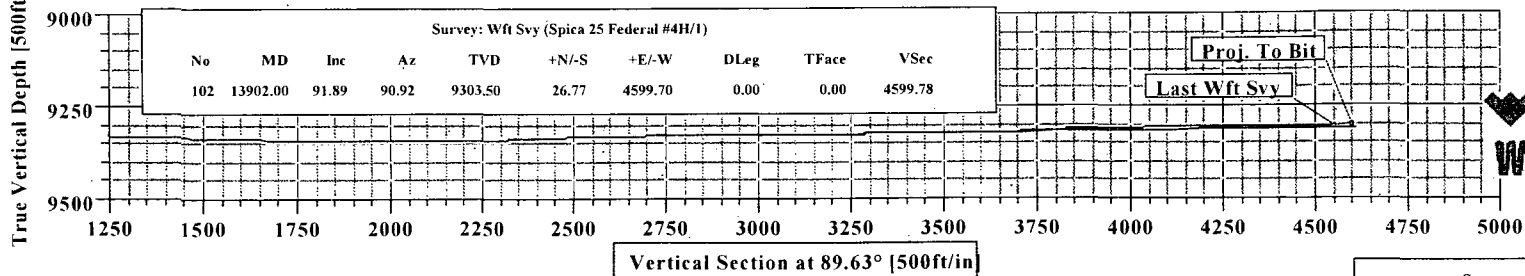
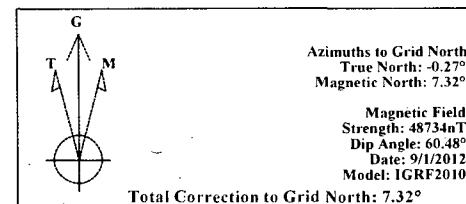
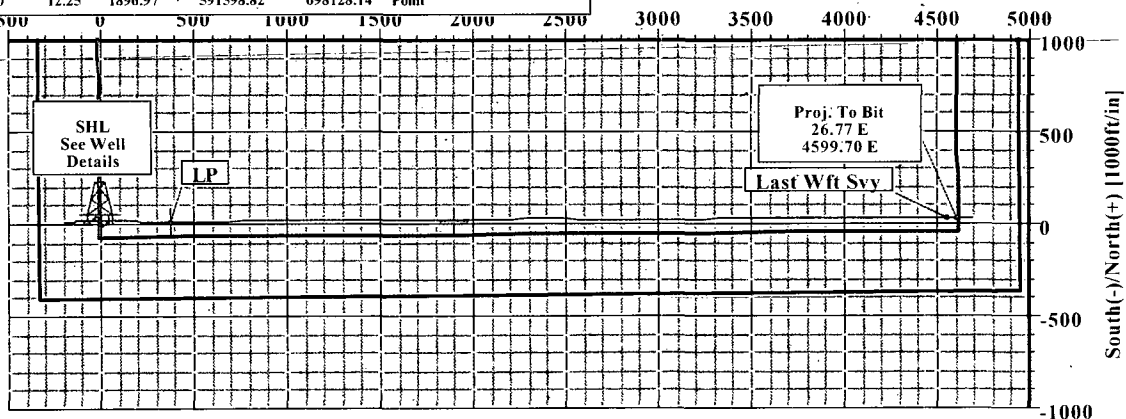
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	9310.00	29.83	4610.95	591616.40	700842.12	Point
LP	9340.00	12.42	374.90	591598.99	696606.07	Point
T1	9345.00	12.25	1896.97	591598.82	698128.14	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Spica 25 Federal #4H
Site Centre Northing: 591586.57
Easting: 696231.17
Ground Level: 3497.00
Positional Uncertainty: 0.00
Convergence: 0.27



Weatherford

HALLIBURTON

3950 Interwood South Pkwy Houston, TX 77032
Phone 281-986-4416 Fax 281-986-4499

September 7, 2012

Devon Energy Production, Co
Attn: Judy Barnett
20 N. Broadway
Oklahoma City, Ok
73102

Final Survey for:
Well Name: Spica 25 Federal 4H
County: Eddy County, NM
Rig Name: McVay 10
Sperry Job #: 9748690

Judy Barnett

Enclosed you will find the following survey information on the above referenced well:

- 0 *Survey Report(s)*
- 0 *MWD End of Well Report(s)*

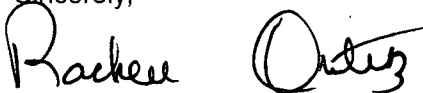
2 Certified Letters for New Mexico NMOCD

We appreciate the opportunity to serve you and welcome any comments or suggestions that you may have regarding our service. You may contact your local sales representative, **Ryan Annesley @ 405-231-1868**

Should you have any questions or require additional information regarding the enclosed information, please do not hesitate to contact me at (281) 986-4400.

Once again, we thank you for your business.

Sincerely,



Rachell Ortiz
Sperry Drilling Services

HALLIBURTON

3950 Interwood South Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Eddy County

I, Paul R. White, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of August 27 through September 01, 2012 I did conduct or supervise the taking of a MWD Directional surveys for the well Spica 25 Federal 4H. Halliburton Energy Services, Inc. (AKA Sperry Drilling) surveys were not used due to un-certifiable quality of data. I am authorized and qualified to make this report conducted at the request of Devon Energy Inc. for the Spica 25 Federal 4H well, API No. 30-015-40105 in Eddy County, 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).

Paul R White

Paul R. White
MWD Field Engineer

Devon
Spica 25 Federal 4H
Eddy County, New Mexico
McVay 10
API# 30-015-40105

August 27, 2012– September 01, 2012
HD-MJ-0009748690

Sperry Drilling
MWD Survey Report

Submitted by Paul White
3950 Interwood South Parkway
Houston, TX 77032
Ph: 281.986.4400

HALLIBURTON

Drilling and Formation
Evaluation

Survey Report for Devon Energy

Rig : McVay 10
Well Name : Spica 25 Federal 4H
Field Name : Hackberry (Bone Springs Sand)
Country : USA
Job Number : HD-XX-0009748690
Job Start Date : 28-Aug-12
API Number : 30-015-40105

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
100.00	0.51	286.53	100.00	0.13 N	0.43 W	-0.43	0.51
200.00	0.26	241.88	200.00	0.15 N	1.05 W	-1.05	0.37
300.00	0.42	243.87	299.99	0.12 S	1.58 W	-1.58	0.16
400.00	0.56	244.45	399.99	0.49 S	2.35 W	-2.36	0.14
500.00	0.67	233.53	499.99	1.05 S	3.26 W	-3.27	0.16
600.00	0.79	222.61	599.98	1.91 S	4.20 W	-4.21	0.18
700.00	0.85	209.15	699.97	3.06 S	5.03 W	-5.05	0.20
800.00	0.89	185.69	799.96	4.48 S	5.47 W	-5.50	0.36
900.00	1.06	190.55	899.94	6.17 S	5.71 W	-5.75	0.19
1000.00	1.30	185.41	999.92	8.20 S	5.99 W	-6.04	0.26
1100.00	1.07	184.43	1,099.90	10.26 S	6.17 W	-6.23	0.23
1200.00	0.73	183.44	1,199.89	11.83 S	6.28 W	-6.36	0.34
1300.00	0.53	141.20	1,299.88	12.83 S	6.03 W	-6.11	0.49
1400.00	0.37	98.95	1,399.88	13.24 S	5.42 W	-5.50	0.36
1500.00	0.66	83.47	1,499.87	13.22 S	4.53 W	-4.61	0.32
1600.00	1.00	67.98	1,599.86	12.83 S	3.15 W	-3.23	0.40
1700.00	1.16	68.64	1,699.85	12.13 S	1.39 W	-1.47	0.16
1800.00	1.24	69.29	1,799.82	11.38 S	0.56 E	0.49	0.08
1900.00	1.54	66.58	1,899.79	10.47 S	2.81 E	2.74	0.31
2000.00	1.79	65.86	1,999.75	9.29 S	5.46 E	5.40	0.25
2100.00	1.93	66.45	2,099.70	7.98 S	8.43 E	8.38	0.14
2200.00	2.03	69.04	2,199.64	6.68 S	11.63 E	11.59	0.13
2300.00	1.87	71.22	2,299.58	5.52 S	14.83 E	14.79	0.18
2400.00	1.64	73.40	2,399.53	4.58 S	17.74 E	17.71	0.24
2500.00	1.30	79.01	2,499.50	3.96 S	20.23 E	20.20	0.37
2600.00	0.95	84.62	2,599.48	3.66 S	22.17 E	22.14	0.37
2700.00	0.78	84.39	2,699.47	3.52 S	23.67 E	23.65	0.17
2800.00	0.57	84.16	2,799.46	3.40 S	24.84 E	24.82	0.21
2900.00	0.73	81.87	2,899.46	3.26 S	25.97 E	25.95	0.16
3000.00	0.86	79.57	2,999.45	3.04 S	27.34 E	27.32	0.13
3100.00	0.82	65.83	3,099.44	2.61 S	28.73 E	28.71	0.20
3200.00	0.77	52.10	3,199.43	1.90 S	29.91 E	29.90	0.20
3300.00	0.87	44.40	3,299.42	0.95 S	30.97 E	30.97	0.15
3400.00	0.96	36.69	3,399.40	0.27 N	32.00 E	32.01	0.15
3500.00	0.90	23.28	3,499.39	1.66 N	32.82 E	32.83	0.23
3600.00	0.84	24.88	3,599.38	3.05 N	33.43 E	33.45	0.06
3700.00	1.00	26.74	3,699.37	4.49 N	34.14 E	34.16	0.16
3800.00	1.15	28.61	3,799.35	6.15 N	35.01 E	35.05	0.15
3900.00	1.11	26.86	3,899.33	7.90 N	35.93 E	35.98	0.05
4000.00	1.07	25.11	3,999.31	9.61 N	36.76 E	36.82	0.05

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
4100.00	1.09	23.72	4,099.29	11.32 N	37.54 E	37.61	0.03
4200.00	1.06	22.33	4,199.28	13.05 N	38.27 E	38.36	0.04
4300.00	0.87	21.92	4,299.26	14.61 N	38.91 E	39.00	0.19
4400.00	0.69	18.50	4,399.25	15.89 N	39.38 E	39.48	0.19
4500.00	0.79	17.22	4,499.24	17.11 N	39.78 E	39.89	0.10
4600.00	0.85	15.94	4,599.23	18.49 N	40.19 E	40.30	0.06
4700.00	0.86	14.97	4,699.22	19.92 N	40.58 E	40.71	0.02
4800.00	0.77	14.01	4,799.21	21.30 N	40.94 E	41.08	0.09
4900.00	0.84	4.43	4,899.20	22.68 N	41.16 E	41.30	0.15
5000.00	0.91	354.84	4,999.19	24.21 N	41.14 E	41.30	0.16
5100.00	0.81	4.51	5,099.18	25.70 N	41.13 E	41.29	0.18
5200.00	0.70	4.17	5,199.17	27.02 N	41.23 E	41.40	0.11
5300.00	0.81	348.62	5,299.16	28.32 N	41.13 E	41.32	0.23
5400.00	0.92	343.07	5,399.15	29.78 N	40.76 E	40.95	0.14
5500.00	0.79	342.32	5,499.14	31.20 N	40.32 E	40.52	0.13
5600.00	0.69	341.56	5,599.13	32.43 N	39.92 E	40.13	0.10
5700.00	0.74	350.80	5,699.12	33.64 N	39.62 E	39.84	0.13
5800.00	0.83	5.04	5,799.12	35.00 N	39.58 E	39.81	0.21
5900.00	0.74	3.61	5,899.11	36.36 N	39.69 E	39.92	0.09
6000.00	0.64	1.19	5,999.10	37.57 N	39.74 E	39.98	0.10
6100.00	0.74	0.96	6,099.09	38.77 N	39.76 E	40.01	0.10
6200.00	0.85	4.74	6,199.08	40.16 N	39.84 E	40.09	0.12
6300.00	0.90	7.22	6,299.07	41.68 N	40.00 E	40.26	0.06
6400.00	0.86	7.71	6,399.06	43.20 N	40.19 E	40.47	0.04
6500.00	0.72	7.28	6,499.05	44.56 N	40.37 E	40.66	0.14
6600.00	0.53	6.86	6,599.04	45.65 N	40.51 E	40.80	0.19
6700.00	0.59	7.19	6,699.04	46.62 N	40.63 E	40.93	0.06
6800.00	0.59	9.51	6,799.03	47.64 N	40.78 E	41.09	0.02
6900.00	0.52	13.50	6,899.03	48.58 N	40.97 E	41.28	0.08
6955.00	0.57	15.76	6,954.03	49.09 N	41.10 E	41.42	0.10
6975.00	0.64	7.55	6,974.02	49.30 N	41.14 E	41.46	0.56
7000.00	0.65	3.70	6,999.02	49.58 N	41.17 E	41.49	0.18
7025.00	0.65	3.00	7,024.02	49.86 N	41.19 E	41.51	0.03
7050.00	0.69	7.35	7,049.02	50.15 N	41.21 E	41.54	0.26
7075.00	0.79	4.86	7,074.02	50.47 N	41.25 E	41.57	0.42
7100.00	0.71	3.29	7,099.02	50.80 N	41.27 E	41.60	0.33
7125.00	0.72	357.48	7,124.01	51.11 N	41.27 E	41.60	0.29
7150.00	0.68	0.81	7,149.01	51.42 N	41.27 E	41.60	0.23
7175.00	0.77	350.71	7,174.01	51.73 N	41.24 E	41.58	0.62
7200.00	0.92	319.98	7,199.01	52.05 N	41.09 E	41.42	1.88
7225.00	1.62	292.65	7,224.00	52.34 N	40.63 E	40.97	3.63
7250.00	2.67	283.97	7,248.98	52.62 N	39.74 E	40.08	4.38
7275.00	3.72	279.57	7,273.94	52.89 N	38.38 E	38.72	4.31
7300.00	4.70	278.22	7,298.88	53.17 N	36.56 E	36.91	3.94
7325.00	5.28	276.11	7,323.78	53.44 N	34.41 E	34.75	2.43

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
7350.00	5.43	275.47	7,348.67	53.68 N	32.08 E	32.43	0.65
7375.00	5.41	274.65	7,373.56	53.88 N	29.73 E	30.08	0.32
7400.00	5.66	274.66	7,398.44	54.08 N	27.33 E	27.68	1.00
7425.00	5.70	274.74	7,423.32	54.28 N	24.86 E	25.21	0.16
7450.00	5.66	270.95	7,448.20	54.41 N	22.39 E	22.74	1.51
7475.00	5.77	269.20	7,473.07	54.41 N	19.90 E	20.26	0.82
7500.00	6.31	264.87	7,497.94	54.27 N	17.28 E	17.63	2.82
7525.00	7.25	260.97	7,522.76	53.90 N	14.35 E	14.70	4.18
7550.00	7.97	259.17	7,547.54	53.32 N	11.09 E	11.44	3.03
7575.00	9.03	256.05	7,572.27	52.53 N	7.49 E	7.83	4.62
7600.00	9.75	254.34	7,596.93	51.48 N	3.54 E	3.88	3.09
7625.00	10.50	251.68	7,621.54	50.19 N	0.66 W	-0.33	3.53
7650.00	11.54	247.93	7,646.08	48.54 N	5.14 W	-4.82	5.05
7675.00	12.12	245.90	7,670.55	46.53 N	9.85 W	-9.55	2.86
7700.00	12.31	244.44	7,694.98	44.31 N	14.65 W	-14.36	1.45
7725.00	12.39	243.04	7,719.40	41.94 N	19.45 W	-19.17	1.24
7750.00	12.45	242.45	7,743.82	39.48 N	24.23 W	-23.97	0.56
7775.00	12.29	240.87	7,768.24	36.94 N	28.94 W	-28.70	1.50
7800.00	12.11	239.97	7,792.67	34.33 N	33.53 W	-33.31	1.05
7825.00	11.81	238.68	7,817.13	31.69 N	37.99 W	-37.78	1.61
7850.00	11.59	237.85	7,841.61	29.02 N	42.30 W	-42.11	1.11
7875.00	11.49	237.41	7,866.11	26.34 N	46.52 W	-46.35	0.53
7900.00	11.30	237.62	7,890.61	23.69 N	50.69 W	-50.54	0.78
7925.00	10.92	237.47	7,915.15	21.10 N	54.76 W	-54.62	1.52
7950.00	10.79	239.88	7,939.70	18.66 N	58.78 W	-58.66	1.89
7975.00	11.11	246.10	7,964.24	16.51 N	63.00 W	-62.90	4.89
7993.00	10.78	250.09	7,981.92	15.23 N	66.17 W	-66.07	4.59

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 89.63 degrees (Grid)
- A total correction of 7.42 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 7,993.00 feet is 67.90 feet along 282.96 degrees (Grid)

TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE.

SURVEYS FROM 100' MD TO 6955' MD PROVIDED BY VAUGHN ENERGY SERVICES.

SURVEYS FROM 6975' MD TO 7993' MD PROVIDED BY SCIENTIFIC DRILLING.

SPERRY DRILLING ENGINEERS: PAUL WHITE, 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

3950 Interwood South Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Eddy County

I, Paul R. White, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of August 27 through September 01, 2012 I did conduct or supervise the taking of a MWD Directional surveys for the well Spica 25 Federal 4H. Halliburton Energy Services, Inc. (AKA Sperry Drilling) surveys were not used due to un-certifiable quality of data. I am authorized and qualified to make this report conducted at the request of Devon Energy Inc. for the Spica 25 Federal 4H well, API No. 30-015-40105 in Eddy County, 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).

Paul R. White

Paul R. White
MWD Field Engineer

Devon
Spica 25 Federal 4H
Eddy County, New Mexico
McVay 10
API# 30-015-40105

August 27, 2012– September 01, 2012
HD-MJ-0009748690

Sperry Drilling
MWD Survey Report

Submitted by Paul White
3950 Interwood South Parkway
Houston, TX 77032
Ph: 281.986.4400

HALLIBURTON

Drilling and Formation
Evaluation

Survey Report for Devon Energy

Rig : McVay 10
Well Name : Spica 25 Federal 4H
Field Name : Hackberry (Bone Springs Sand)
Country : USA
Job Number : HD-XX-0009748690
Job Start Date : 28-Aug-12
API Number : 30-015-40105

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
100.00	0.51	286.53	100.00	0.13 N	0.43 W	-0.43	0.51
200.00	0.26	241.88	200.00	0.15 N	1.05 W	-1.05	0.37
300.00	0.42	243.87	299.99	0.12 S	1.58 W	-1.58	0.16
400.00	0.56	244.45	399.99	0.49 S	2.35 W	-2.36	0.14
500.00	0.67	233.53	499.99	1.05 S	3.26 W	-3.27	0.16
600.00	0.79	222.61	599.98	1.91 S	4.20 W	-4.21	0.18
700.00	0.85	209.15	699.97	3.06 S	5.03 W	-5.05	0.20
800.00	0.89	185.69	799.96	4.48 S	5.47 W	-5.50	0.36
900.00	1.06	190.55	899.94	6.17 S	5.71 W	-5.75	0.19
1000.00	1.30	185.41	999.92	8.20 S	5.99 W	-6.04	0.26
1100.00	1.07	184.43	1,099.90	10.26 S	6.17 W	-6.23	0.23
1200.00	0.73	183.44	1,199.89	11.83 S	6.28 W	-6.36	0.34
1300.00	0.53	141.20	1,299.88	12.83 S	6.03 W	-6.11	0.49
1400.00	0.37	98.95	1,399.88	13.24 S	5.42 W	-5.50	0.36
1500.00	0.66	83.47	1,499.87	13.22 S	4.53 W	-4.61	0.32
1600.00	1.00	67.98	1,599.86	12.83 S	3.15 W	-3.23	0.40
1700.00	1.16	68.64	1,699.85	12.13 S	1.39 W	-1.47	0.16
1800.00	1.24	69.29	1,799.82	11.38 S	0.56 E	0.49	0.08
1900.00	1.54	66.58	1,899.79	10.47 S	2.81 E	2.74	0.31
2000.00	1.79	65.86	1,999.75	9.29 S	5.46 E	5.40	0.25
2100.00	1.93	66.45	2,099.70	7.98 S	8.43 E	8.38	0.14
2200.00	2.03	69.04	2,199.64	6.68 S	11.63 E	11.59	0.13
2300.00	1.87	71.22	2,299.58	5.52 S	14.83 E	14.79	0.18
2400.00	1.64	73.40	2,399.53	4.58 S	17.74 E	17.71	0.24
2500.00	1.30	79.01	2,499.50	3.96 S	20.23 E	20.20	0.37
2600.00	0.95	84.62	2,599.48	3.66 S	22.17 E	22.14	0.37
2700.00	0.78	84.39	2,699.47	3.52 S	23.67 E	23.65	0.17
2800.00	0.57	84.16	2,799.46	3.40 S	24.84 E	24.82	0.21
2900.00	0.73	81.87	2,899.46	3.26 S	25.97 E	25.95	0.16
3000.00	0.86	79.57	2,999.45	3.04 S	27.34 E	27.32	0.13
3100.00	0.82	65.83	3,099.44	2.61 S	28.73 E	28.71	0.20
3200.00	0.77	52.10	3,199.43	1.90 S	29.91 E	29.90	0.20
3300.00	0.87	44.40	3,299.42	0.95 S	30.97 E	30.97	0.15
3400.00	0.96	36.69	3,399.40	0.27 N	32.00 E	32.01	0.15
3500.00	0.90	23.28	3,499.39	1.66 N	32.82 E	32.83	0.23
3600.00	0.84	24.88	3,599.38	3.05 N	33.43 E	33.45	0.06
3700.00	1.00	26.74	3,699.37	4.49 N	34.14 E	34.16	0.16
3800.00	1.15	28.61	3,799.35	6.15 N	35.01 E	35.05	0.15
3900.00	1.11	26.86	3,899.33	7.90 N	35.93 E	35.98	0.05
4000.00	1.07	25.11	3,999.31	9.61 N	36.76 E	36.82	0.05

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
4100.00	1.09	23.72	4,099.29	11.32 N	37.54 E	37.61	0.03
4200.00	1.06	22.33	4,199.28	13.05 N	38.27 E	38.36	0.04
4300.00	0.87	21.92	4,299.26	14.61 N	38.91 E	39.00	0.19
4400.00	0.69	18.50	4,399.25	15.89 N	39.38 E	39.48	0.19
4500.00	0.79	17.22	4,499.24	17.11 N	39.78 E	39.89	0.10
4600.00	0.85	15.94	4,599.23	18.49 N	40.19 E	40.30	0.06
4700.00	0.86	14.97	4,699.22	19.92 N	40.58 E	40.71	0.02
4800.00	0.77	14.01	4,799.21	21.30 N	40.94 E	41.08	0.09
4900.00	0.84	4.43	4,899.20	22.68 N	41.16 E	41.30	0.15
5000.00	0.91	354.84	4,999.19	24.21 N	41.14 E	41.30	0.16
5100.00	0.81	4.51	5,099.18	25.70 N	41.13 E	41.29	0.18
5200.00	0.70	4.17	5,199.17	27.02 N	41.23 E	41.40	0.11
5300.00	0.81	348.62	5,299.16	28.32 N	41.13 E	41.32	0.23
5400.00	0.92	343.07	5,399.15	29.78 N	40.76 E	40.95	0.14
5500.00	0.79	342.32	5,499.14	31.20 N	40.32 E	40.52	0.13
5600.00	0.69	341.56	5,599.13	32.43 N	39.92 E	40.13	0.10
5700.00	0.74	350.80	5,699.12	33.64 N	39.62 E	39.84	0.13
5800.00	0.83	5.04	5,799.12	35.00 N	39.58 E	39.81	0.21
5900.00	0.74	3.61	5,899.11	36.36 N	39.69 E	39.92	0.09
6000.00	0.64	1.19	5,999.10	37.57 N	39.74 E	39.98	0.10
6100.00	0.74	0.96	6,099.09	38.77 N	39.76 E	40.01	0.10
6200.00	0.85	4.74	6,199.08	40.16 N	39.84 E	40.09	0.12
6300.00	0.90	7.22	6,299.07	41.68 N	40.00 E	40.26	0.06
6400.00	0.86	7.71	6,399.06	43.20 N	40.19 E	40.47	0.04
6500.00	0.72	7.28	6,499.05	44.56 N	40.37 E	40.66	0.14
6600.00	0.53	6.86	6,599.04	45.65 N	40.51 E	40.80	0.19
6700.00	0.59	7.19	6,699.04	46.62 N	40.63 E	40.93	0.06
6800.00	0.59	9.51	6,799.03	47.64 N	40.78 E	41.09	0.02
6900.00	0.52	13.50	6,899.03	48.58 N	40.97 E	41.28	0.08
6955.00	0.57	15.76	6,954.03	49.09 N	41.10 E	41.42	0.10
6975.00	0.64	7.55	6,974.02	49.30 N	41.14 E	41.46	0.56
7000.00	0.65	3.70	6,999.02	49.58 N	41.17 E	41.49	0.18
7025.00	0.65	3.00	7,024.02	49.86 N	41.19 E	41.51	0.03
7050.00	0.69	7.35	7,049.02	50.15 N	41.21 E	41.54	0.26
7075.00	0.79	4.86	7,074.02	50.47 N	41.25 E	41.57	0.42
7100.00	0.71	3.29	7,099.02	50.80 N	41.27 E	41.60	0.33
7125.00	0.72	357.48	7,124.01	51.11 N	41.27 E	41.60	0.29
7150.00	0.68	0.81	7,149.01	51.42 N	41.27 E	41.60	0.23
7175.00	0.77	350.71	7,174.01	51.73 N	41.24 E	41.58	0.62
7200.00	0.92	319.98	7,199.01	52.05 N	41.09 E	41.42	1.88
7225.00	1.62	292.65	7,224.00	52.34 N	40.63 E	40.97	3.63
7250.00	2.67	283.97	7,248.98	52.62 N	39.74 E	40.08	4.38
7275.00	3.72	279.57	7,273.94	52.89 N	38.38 E	38.72	4.31
7300.00	4.70	278.22	7,298.88	53.17 N	36.56 E	36.91	3.94
7325.00	5.28	276.11	7,323.78	53.44 N	34.41 E	34.75	2.43

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
7350.00	5.43	275.47	7,348.67	53.68 N	32.08 E	32.43	0.65
7375.00	5.41	274.65	7,373.56	53.88 N	29.73 E	30.08	0.32
7400.00	5.66	274.66	7,398.44	54.08 N	27.33 E	27.68	1.00
7425.00	5.70	274.74	7,423.32	54.28 N	24.86 E	25.21	0.16
7450.00	5.66	270.95	7,448.20	54.41 N	22.39 E	22.74	1.51
7475.00	5.77	269.20	7,473.07	54.41 N	19.90 E	20.26	0.82
7500.00	6.31	264.87	7,497.94	54.27 N	17.28 E	17.63	2.82
7525.00	7.25	260.97	7,522.76	53.90 N	14.35 E	14.70	4.18
7550.00	7.97	259.17	7,547.54	53.32 N	11.09 E	11.44	3.03
7575.00	9.03	256.05	7,572.27	52.53 N	7.49 E	7.83	4.62
7600.00	9.75	254.34	7,596.93	51.48 N	3.54 E	3.88	3.09
7625.00	10.50	251.68	7,621.54	50.19 N	0.66 W	-0.33	3.53
7650.00	11.54	247.93	7,646.08	48.54 N	5.14 W	-4.82	5.05
7675.00	12.12	245.90	7,670.55	46.53 N	9.85 W	-9.55	2.86
7700.00	12.31	244.44	7,694.98	44.31 N	14.65 W	-14.36	1.45
7725.00	12.39	243.04	7,719.40	41.94 N	19.45 W	-19.17	1.24
7750.00	12.45	242.45	7,743.82	39.48 N	24.23 W	-23.97	0.56
7775.00	12.29	240.87	7,768.24	36.94 N	28.94 W	-28.70	1.50
7800.00	12.11	239.97	7,792.67	34.33 N	33.53 W	-33.31	1.05
7825.00	11.81	238.68	7,817.13	31.69 N	37.99 W	-37.78	1.61
7850.00	11.59	237.85	7,841.61	29.02 N	42.30 W	-42.11	1.11
7875.00	11.49	237.41	7,866.11	26.34 N	46.52 W	-46.35	0.53
7900.00	11.30	237.62	7,890.61	23.69 N	50.69 W	-50.54	0.78
7925.00	10.92	237.47	7,915.15	21.10 N	54.76 W	-54.62	1.52
7950.00	10.79	239.88	7,939.70	18.66 N	58.78 W	-58.66	1.89
7975.00	11.11	246.10	7,964.24	16.51 N	63.00 W	-62.90	4.89
7993.00	10.78	250.09	7,981.92	15.23 N	66.17 W	-66.07	4.59

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 89.63 degrees (Grid)
- A total correction of 7.42 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 7,993.00 feet is 67.90 feet along 282.96 degrees (Grid)

TIE-ON SURVEY ASSUMED VERTICAL AT SURFACE.
 SURVEYS FROM 100' MD TO 6955' MD PROVIDED BY VAUGHN ENERGY SERVICES.
 SURVEYS FROM 6975' MD TO 7993' MD PROVIDED BY SCIENTIFIC DRILLING.
 SPERRY DRILLING ENGINEERS: PAUL WHITE, 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
3950 INTERWOOD SOUTH PARKWAY
HOUSTON, TEXAS 77032-3346

PHONE: 281-986-4400
FAX: 281-986-4498

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Form C-102

Revised October 15, 2009

Submit one copy to appropriate
District Office

NOV 23 2013
NM OCD ARTESIA

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40105	Pool Code	Pool Name Hackberry - Bone Springs, NW
Property Code	Property Name SPICA "25" FEDERAL	Well Number 4H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3497.4

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	19 S	31 E		400	SOUTH	340	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	19 S	31 E		400	SOUTH	340	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
-----------------	-----------------	--------------------	-----------

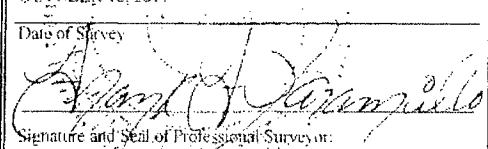
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER SEC. 25 LAT. = 32.6387288°N LONG. = 103.8313556°W NMSP EAST (FT) N = 596485.51 E = 695857.07		NE CORNER SEC. 25 LAT. = 32.6387603°N LONG. = 103.8141913°W NMSP EAST (FT) N = 596502.34 E = 701140.60
SW CORNER SEC. 25 LAT. = 32.6242126°N LONG. = 103.8313170°W NMSP EAST (FT) N = 591184.42 E = 695893.90	BOTTOM OF HOLE LAT. = 32.6253345°N LONG. = 103.8152707°W NMSP EAST (FT) N = 591616.27 E = 700832.16	SE CORNER SEC. 25 LAT. = 32.6242367°N LONG. = 103.8141643°W NMSP EAST (FT) N = 591218.56 E = 701174.72
SPICA "25" FEDERAL #4H ELEV. = 3497.4' LAT. = 32.6253136°N (NAD83) LONG. = 103.8302153°W NMSP EAST (FT) N = 591586.57 E = 696231.17		

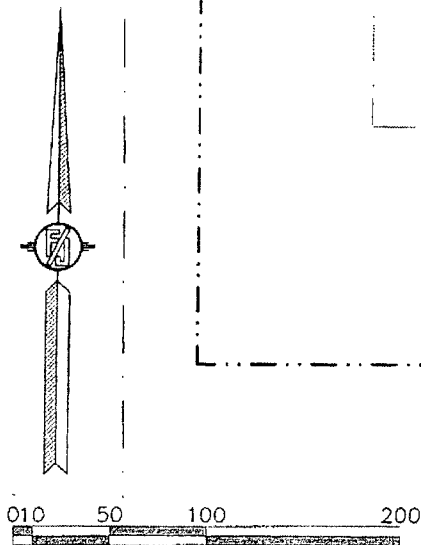
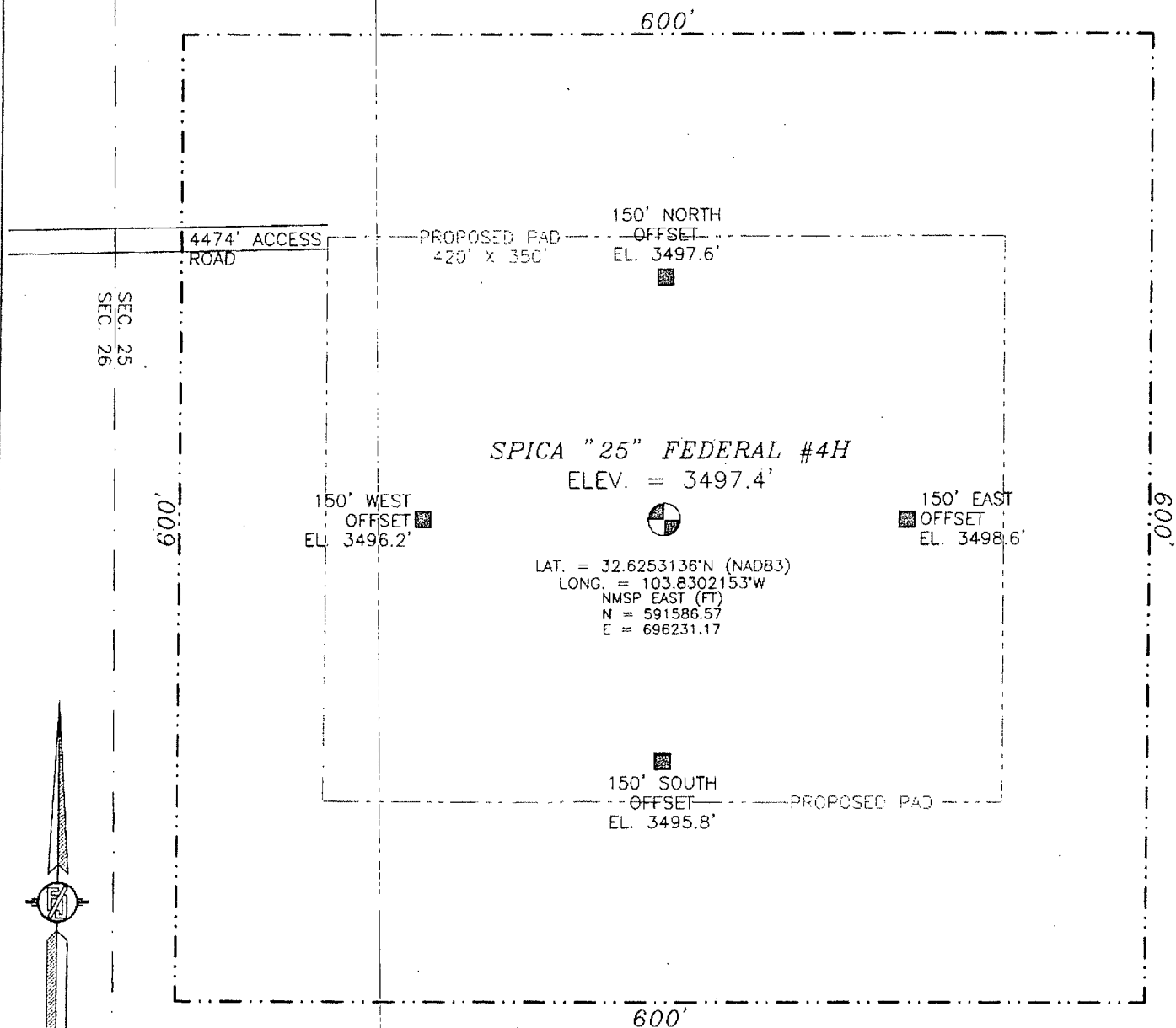
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____
Printed Name _____

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 18, 2011
Date of Survey
Signature and Seal of Professional Surveyor: 
Certificate Number: FILMON F JARAMILLO, PLS 12797
SURVEY NO. 604

SECTION 25, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



DIRECTIONS TO LOCATION

FROM PAVED CR. 24B (LUSK PLANT) AND PAVED CR. #222
(SHUGART) GO EAST ON CR. 24B 1.7 MILES, TURN RIGHT ON
CALICHE ROAD AND GO SOUTH 0.45 MILES, TURN LEFT AND GO EAST
0.45 MILES, TURN RIGHT AND GO SOUTH 0.5 MILES, TURN RIGHT AND
GO WEST 0.5 MILES, TURN LEFT ON OLD CALICHE ROAD AND GO
SOUTH 0.2 MILES, TO A PROPOSED ROAD SURVEY FOLLOW FLAGS
SOUTH 291' THEN SOUTHEAST 741' THEN SOUTH 3182' THEN EAST
260' TO THE NORTHWEST CORNER OF THE PROPOSED PAD FOR THIS
LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

SPICA "25" FEDERAL #4H

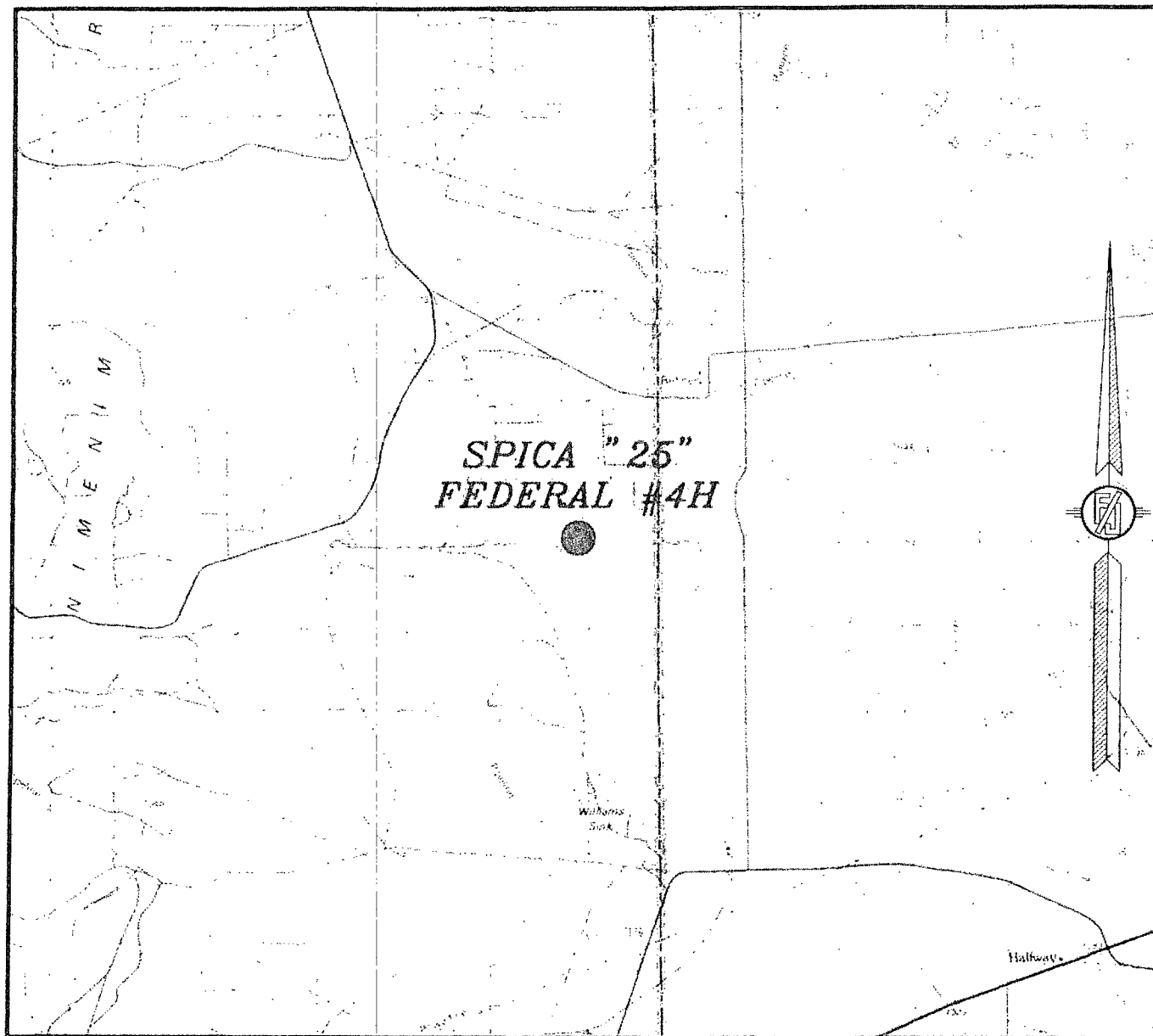
LOCATED 400 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2011

SURVEY NO. 604

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 234-3341

SECTION 25, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

SPICA "25" FEDERAL #4H

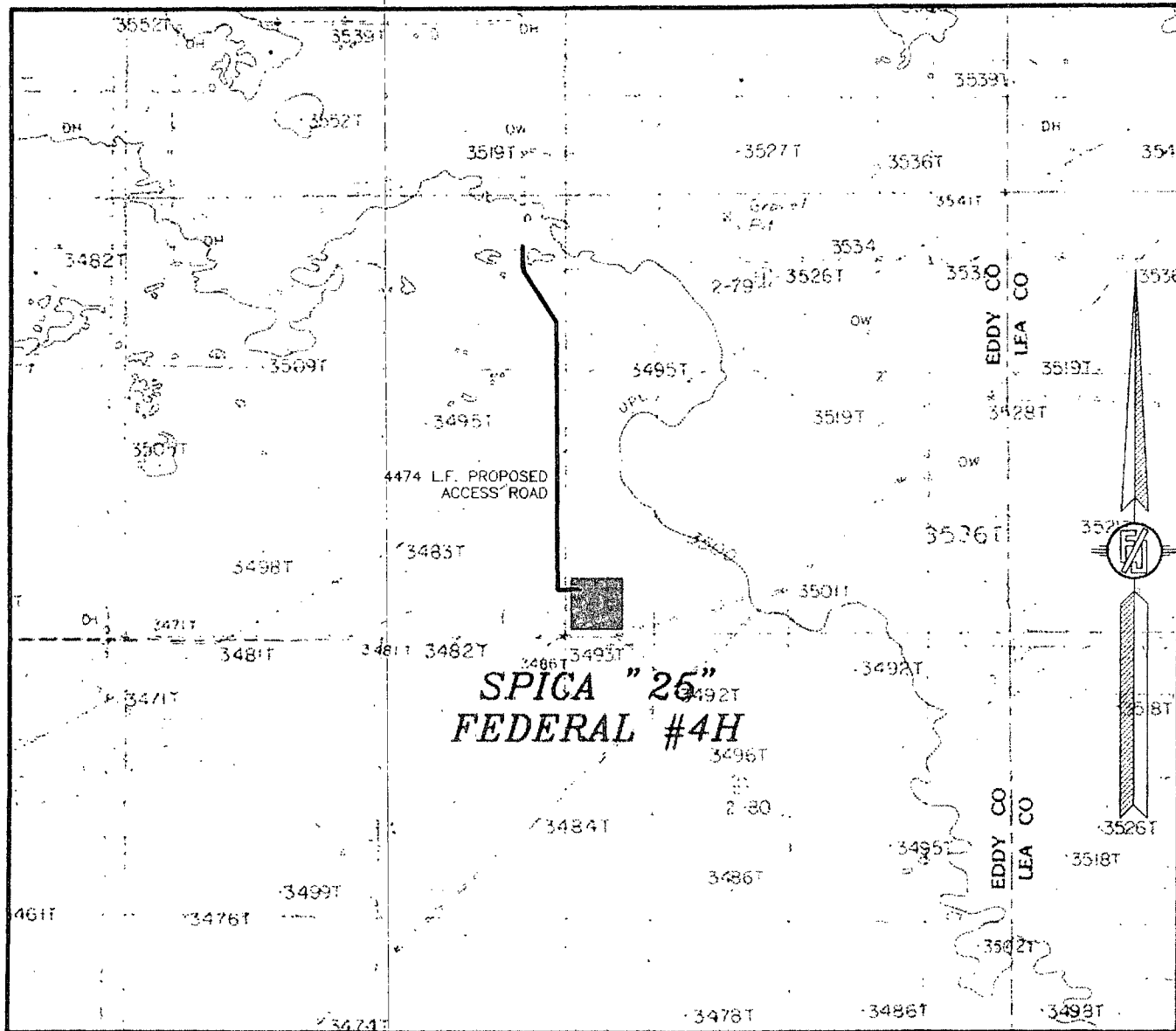
LOCATED 400 FT. FROM THE SOUTH LINE
AND 340 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2011

SURVEY NO. 604

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 234-3341

SECTION 25, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
 GREENWOOD LAKE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

SPICA "25" FEDERAL #4H

LOCATED 400 FT. FROM THE SOUTH LINE
 AND 340 FT. FROM THE WEST LINE OF
 SECTION 25, TOWNSHIP 19 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 18, 2011

SURVEY NO. 604

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
 (505) 234-3541