



Weatherford

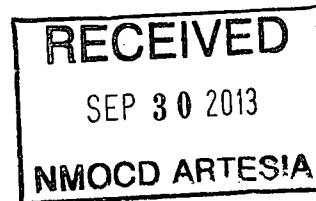
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

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

Date: June 14, 2013

Attention: Spencer Stuart

Re: Devon Energy
Well: Nermal 4 State 1H
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:

<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 MWD Supervisor	1H	7535 MD 12549 MD	6/5/2013 6/14/2013	Measurement While Drilling

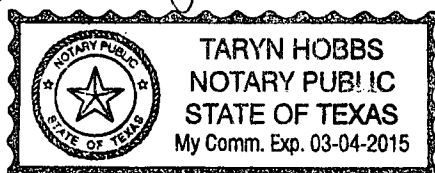
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 19th 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 whereof, I hereunto set my hand and official seal.

Notary Public





Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy Date: 6/14/2013 Time: 05:42:55 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Nermal 4 State 1H, Grid North
Site: Nermal 4 State 1H Vertical (TVD) Reference: SITE 3032.0
Well: Nermal 4 State 1H Section (VS) Reference: Well (0.00N,0.00E,180.16Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 6/7/2013
Company: Weatherford Engineer: Russell W. Joyner
Tool: MWD:MWD - Standard Tied-to: User Defined

Site: Nermal 4 State 1H
Site Position: Northing: 424184.58 ft Latitude: 32 9 57.362 N
From: Map Easting: 615201.04 ft Longitude: 104 5 40.661 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3007.00 ft Grid Convergence: 0.13 deg

Well: Nermal 4 State 1H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 424184.58 ft Latitude: 32 9 57.362 N
+E/-W 0.00 ft Easting: 615201.04 ft Longitude: 104 5 40.661 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3032.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 5/30/2013 Above System Datum: Mean Sea Level
Field Strength: 48353 nT Declination: 7.58 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 59.99 deg
ft ft ft deg
0.00 0.00 0.00 180.16

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
7450.00	2.15	320.96	7444.32	-77.94	100.83	0.00	77.66	424106.64	615301.87	Tie On VES First Wft Svy
7535.00	2.58	340.07	7529.25	-74.90	99.17	1.05	74.63	424109.68	615300.21	
7566.00	1.94	338.23	7560.23	-73.76	98.74	2.08	73.48	424110.82	615299.78	
7598.00	1.69	202.24	7592.22	-73.69	98.36	10.52	73.42	424110.89	615299.40	
7629.00	5.20	180.11	7623.16	-75.52	98.19	11.90	75.25	424109.06	615299.23	
7661.00	8.72	176.87	7654.92	-79.40	98.32	11.06	79.12	424105.18	615299.36	
7693.00	12.23	184.55	7686.39	-85.20	98.18	11.78	84.92	424099.38	615299.22	
7724.00	15.19	192.57	7716.50	-92.44	97.03	11.33	92.17	424092.14	615298.07	
7756.00	18.48	200.06	7747.13	-101.30	94.38	12.30	101.03	424083.28	615295.42	
7787.00	22.54	203.21	7776.16	-111.38	90.35	13.57	111.12	424073.20	615291.39	
7819.00	25.65	205.88	7805.37	-123.25	84.91	10.30	123.01	424061.33	615285.95	
7851.00	28.63	208.14	7833.84	-136.24	78.27	9.85	136.02	424048.34	615279.31	
7882.00	32.33	207.35	7860.55	-150.16	70.96	12.01	149.96	424034.42	615272.00	
7913.00	36.60	204.37	7886.11	-165.95	63.33	14.81	165.77	424018.63	615264.37	
7944.00	40.37	202.12	7910.37	-183.68	55.73	12.97	183.52	424000.90	615256.77	
7976.00	43.92	198.68	7934.10	-203.80	48.27	13.23	203.66	423980.78	615249.31	
8007.00	47.96	196.72	7955.65	-225.02	41.52	13.80	224.90	423959.56	615242.56	
8039.00	51.50	194.68	7976.33	-248.52	34.92	12.08	248.42	423936.06	615235.96	
8070.00	55.50	191.84	7994.77	-272.77	29.22	14.85	272.69	423911.81	615230.26	
8102.00	59.66	189.85	8011.93	-299.30	24.15	14.02	299.23	423885.28	615225.19	
8134.00	64.33	188.13	8026.95	-327.19	19.75	15.35	327.14	423857.39	615220.79	
8165.00	68.45	186.44	8039.36	-355.36	16.15	14.20	355.32	423829.22	615217.19	
8196.00	72.90	184.72	8049.62	-384.47	13.32	15.28	384.43	423800.11	615214.36	
8228.00	75.23	183.99	8058.40	-415.15	10.98	7.60	415.12	423769.43	615212.02	
8260.00	78.02	184.04	8065.80	-446.20	8.80	8.72	446.17	423738.38	615209.84	
8300.00	82.29	184.75	8072.64	-485.49	5.78	10.82	485.47	423699.09	615206.82	
8323.00	84.95	184.39	8075.20	-508.27	3.96	11.67	508.26	423676.31	615205.00	
8354.00	88.46	182.84	8076.98	-539.15	2.01	12.37	539.14	423645.43	615203.05	
8386.00	88.74	181.84	8077.76	-571.11	0.70	3.24	571.11	423613.47	615201.74	
8418.00	89.09	181.50	8078.37	-603.09	-0.23	1.52	603.09	423581.49	615200.81	



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Nermal 4 State 1H
Well: Nermal 4 State 1H
Wellpath: 1

Date: 6/14/2013 Time: 05:42:55 Page: 2
Co-ordinate(NE) Reference: Well: Nermal 4 State 1H, Grid North
Vertical (TVD) Reference: SITE 3032.0
Section (VS) Reference: Well (0.00N,0.00E,180.16Azi)
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
8449.00	89.72	181.54	8078.69	-634.08	-1.05	2.04	634.08	423550.50	615199.99	
8512.00	89.72	180.21	8079.00	-697.07	-2.01	2.11	697.08	423487.51	615199.03	
8606.00	90.35	179.16	8078.94	-791.07	-1.50	1.30	791.07	423393.51	615199.54	
8701.00	90.21	179.26	8078.48	-886.06	-0.19	0.18	886.06	423298.52	615200.85	
8795.00	89.93	179.32	8078.36	-980.05	0.98	0.30	980.05	423204.53	615202.02	
8889.00	89.37	179.09	8078.94	-1074.04	2.28	0.64	1074.03	423110.54	615203.32	
8984.00	90.21	180.24	8079.28	-1169.04	2.84	1.50	1169.02	423015.54	615203.88	
9079.00	90.14	180.48	8078.99	-1264.03	2.24	0.26	1264.02	422920.55	615203.28	
9173.00	89.86	180.71	8078.99	-1358.03	1.26	0.39	1358.02	422826.55	615202.30	
9267.00	89.37	179.89	8079.62	-1452.02	0.77	1.02	1452.02	422732.56	615201.81	
9361.00	90.56	181.92	8079.68	-1546.01	-0.71	2.50	1546.00	422638.57	615200.33	
9456.00	90.63	182.10	8078.70	-1640.94	-4.04	0.20	1640.95	422543.64	615197.00	
9550.00	89.09	180.45	8078.93	-1734.91	-6.14	2.40	1734.92	422449.67	615194.90	
9645.00	89.65	181.21	8079.97	-1829.90	-7.51	0.99	1829.91	422354.68	615193.53	
9740.00	90.14	182.21	8080.14	-1924.85	-10.35	1.17	1924.87	422259.73	615190.69	
9834.00	87.69	182.03	8081.92	-2018.76	-13.82	2.61	2018.79	422165.82	615187.22	
9929.00	86.92	180.61	8086.39	-2113.63	-16.01	1.70	2113.67	422070.95	615185.03	
10023.00	86.57	180.62	8091.73	-2207.47	-17.02	0.37	2207.51	421977.11	615184.02	
10117.00	87.13	181.04	8096.89	-2301.32	-18.38	0.74	2301.36	421883.26	615182.66	
10212.00	88.95	180.38	8100.14	-2396.25	-19.55	2.04	2396.30	421788.33	615181.49	
10306.00	90.35	179.29	8100.72	-2490.25	-19.28	1.89	2490.29	421694.33	615181.76	
10401.00	89.72	178.81	8100.66	-2585.23	-17.71	0.83	2585.27	421599.35	615183.33	
10496.00	89.30	178.83	8101.47	-2680.21	-15.75	0.44	2680.24	421504.37	615185.29	
10591.00	90.00	179.78	8102.05	-2775.20	-14.60	1.24	2775.23	421409.38	615186.44	
10685.00	90.42	180.33	8101.71	-2869.20	-14.69	0.74	2869.23	421315.38	615186.35	
10780.00	90.28	180.92	8101.13	-2964.19	-15.72	0.64	2964.22	421220.39	615185.32	
10874.00	89.86	181.18	8101.01	-3058.17	-17.45	0.53	3058.21	421126.41	615183.59	
10969.00	90.56	180.17	8100.66	-3153.16	-18.57	1.29	3153.20	421031.42	615182.47	
11064.00	90.49	181.18	8099.79	-3248.15	-19.69	1.07	3248.19	420936.43	615181.35	
11158.00	90.28	180.09	8099.16	-3342.14	-20.73	1.18	3342.19	420842.44	615180.31	
11253.00	89.86	179.69	8099.05	-3437.14	-20.54	0.61	3437.19	420747.44	615180.50	
11348.00	89.58	180.19	8099.51	-3532.14	-20.45	0.60	3532.18	420652.44	615180.59	
11443.00	89.44	180.55	8100.32	-3627.14	-21.06	0.41	3627.18	420557.44	615179.98	
11538.00	89.23	180.85	8101.42	-3722.12	-22.22	0.39	3722.17	420462.46	615178.82	
11632.00	90.14	180.28	8101.94	-3816.11	-23.15	1.14	3816.16	420368.47	615177.89	
11727.00	90.00	180.45	8101.83	-3911.11	-23.75	0.23	3911.16	420273.47	615177.29	
11822.00	89.93	180.65	8101.88	-4006.11	-24.66	0.22	4006.16	420178.47	615176.38	
11917.00	89.23	180.60	8102.58	-4101.10	-25.70	0.74	4101.15	420083.48	615175.34	
12011.00	89.72	180.03	8103.44	-4195.09	-26.22	0.80	4195.15	419989.49	615174.82	
12106.00	90.21	179.66	8103.50	-4290.09	-25.96	0.65	4290.15	419894.49	615175.08	
12201.00	90.07	179.51	8103.27	-4385.09	-25.27	0.22	4385.14	419799.49	615175.77	
12296.00	89.58	178.92	8103.56	-4480.08	-23.97	0.81	4480.13	419704.50	615177.07	
12390.00	90.14	178.70	8103.79	-4574.06	-22.02	0.64	4574.10	419610.52	615179.02	
12485.00	89.79	179.10	8103.85	-4669.04	-20.19	0.56	4669.08	419515.54	615180.85	
12549.00	89.51	179.24	8104.24	-4733.03	-19.27	0.49	4733.07	419451.55	615181.77	Last Wft Svy
12616.00	89.51	179.24	8104.81	-4800.02	-18.38	0.00	4800.06	419384.56	615182.66	Proj. To Bit



Weatherford

Wft Survey Report X Y's.



Weatherford

Company: Devon Energy	Date: 6/14/2013	Time: 05:42:55	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Nermal 4 State 1H, Grid North		
Site: Nermal 4 State 1H	Vertical (TVD) Reference: SITE 3032.0		
Well: Nermal 4 State 1H	Section (VS) Reference: Well (0.00N,0.00E,180.16Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Annotation

MD ft	TVD ft	
7450.00	7444.32	Tie On VES
7535.00	7529.25	First Wft Svy
12549.00	8104.24	Last Wft Svy
12616.00	8104.81	Proj. To Bit



Nermal 4 State 1H
Eddy County, New Mexico



KB ELEV: 3032
GL ELEV: 3007

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9361.00	90.56	181.92	8079.68	-1546.01	-0.71	0.00	0.00	1546.00	
2	9489.94	87.09	180.21	8082.33	-1674.87	-3.11	3.00	206.22	1674.87	
3	9789.60	87.09	180.21	8097.54	-1974.14	-4.21	0.00	0.00	1974.15	
4	9886.60	90.00	180.19	8100.00	-2071.10	-4.55	3.00	-0.32	2071.11	
5	12616.23	90.00	180.19	8100.00	-4800.72	-13.78	0.00	0.00	4800.74	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8100.00	-4800.72	-13.78	419383.86	615187.26	Rectangle (4323x200)

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Nermal 4 State 1H	0.00	0.00	424184.58	615201.04	32°09'57.362N	104°05'40.661W	N/A

Survey: Wft Svy (Nermal 4 State 1H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
76	12616.00	89.51	179.24	8104.81	-4800.02	-18.38	0.00	0.00	4800.06

SITE DETAILS

Nermal 4 State 1H

Site Centre Northing: 424184.58
Easting: 615201.04

Ground Level: 3007.00
Positional Uncertainty: 0.00
Convergence: 0.13

