



Weatherford[®]

Evaluation, Drilling & Intervention
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Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: August 25, 2011

Attention: Mark Cooper

Re: Devon Energy
Well: Cotton Draw Unit #135H
Eddy County, New Mexico

30-015-38533

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
Justin Ward MWD Supervisor	135H	7124' MD 16465' MD	8/6/2011 8/23/2011	Measurement While Drilling

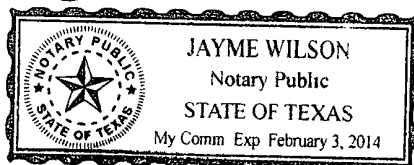
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 25th day of August, 2011, 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



devon

Cotton Draw Unit #135H
Eddy Co., NM

KB ELEV. 3447
GL ELEV. 3421

SECTION DETAILS

Sec	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7050.00	1.24	182.75	7046.21	-115.51	152.72	0.00	0.00	-127.57	
2	8150.00	1.24	182.75	8145.95	-139.29	151.58	0.00	0.00	-151.18	
3	9087.38	90.00	319.07	8746.00	301.21	-242.23	9.70	136.32	319.95	
4	9273.87	90.00	319.07	8746.00	442.10	-364.40	0.00	0.00	470.33	Heel Tgt
5	10047.49	90.00	360.00	8746.00	1151.59	-629.18	5.29	90.00	1199.04	
6	16594.10	90.00	360.00	8746.00	7698.20	-629.50	0.00	0.00	7723.89	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot
CDU #135H	0.00	0.00	419795.41	721228.17	32°09'09.931N	103°45'07.422W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Shape
Heel Tgt	8746.00	442.10	-364.40	420237.51	720863.77	32°09'14.326N	103°45'11.633W	Point
Pbhl	8746.00	7698.20	-629.50	427493.61	720598.67	32°10'26.144N	103°45'14.263W	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

Cotton Draw Unit #135H

Site Centre Northng: 419795.41
Easting: 721228.17

Ground Level: 3421.00
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

- CDU #135H, I, Gyro
- CDU #135H, I, Plan #5
- Cotton Draw #134H (1)
- Cotton Draw #134H (1)
- CDU #136H (1)
- CDU #137H (1)
- CDU #151H (1)
- CDU #152H (1)
- #160H (1)
- #163H (1)
- 161H (1)
- Wft Svy

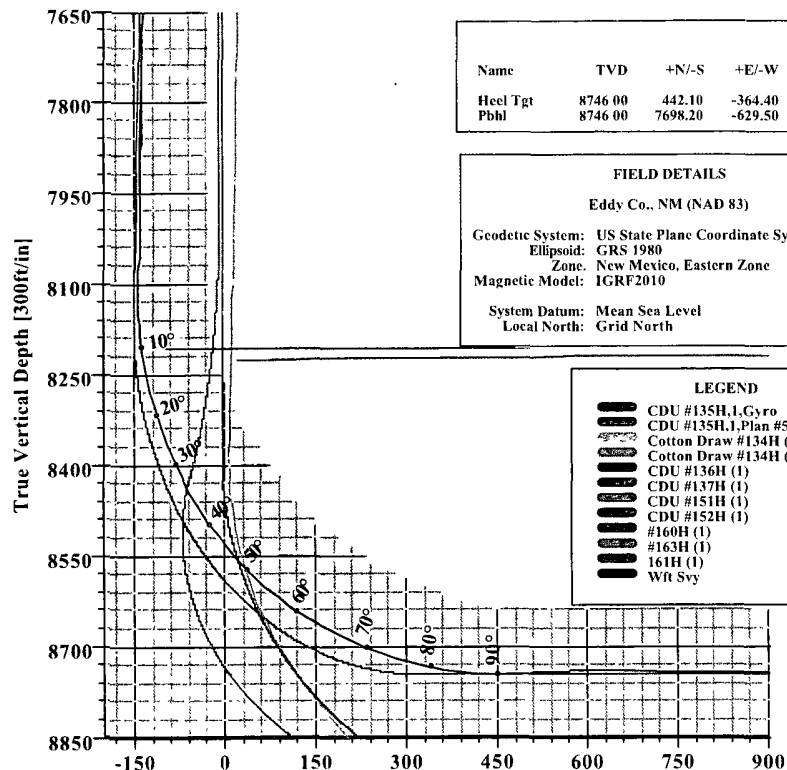


Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.34°

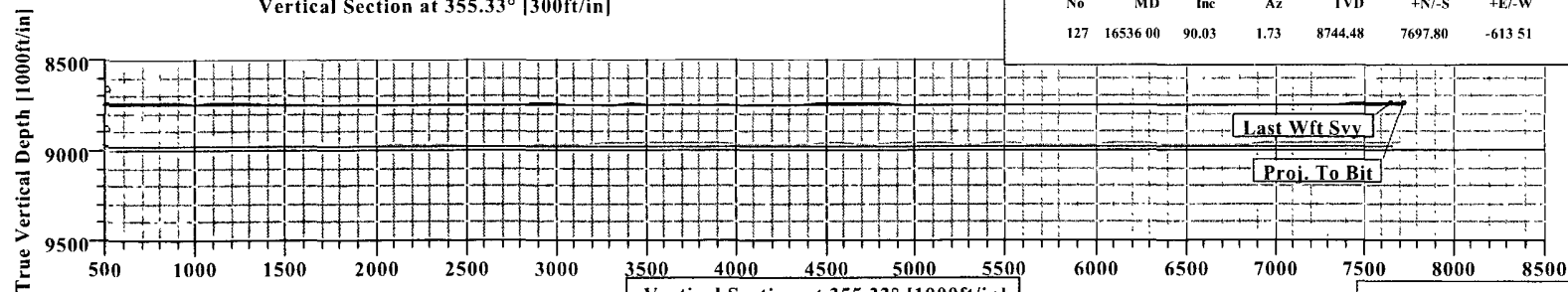
Magnetic Field
Strength: 48566nT
Dip Angle: 60.09°
Date: 7/30/2011
Model: IGRF2010

Total Correction to Grid North: 7.34°

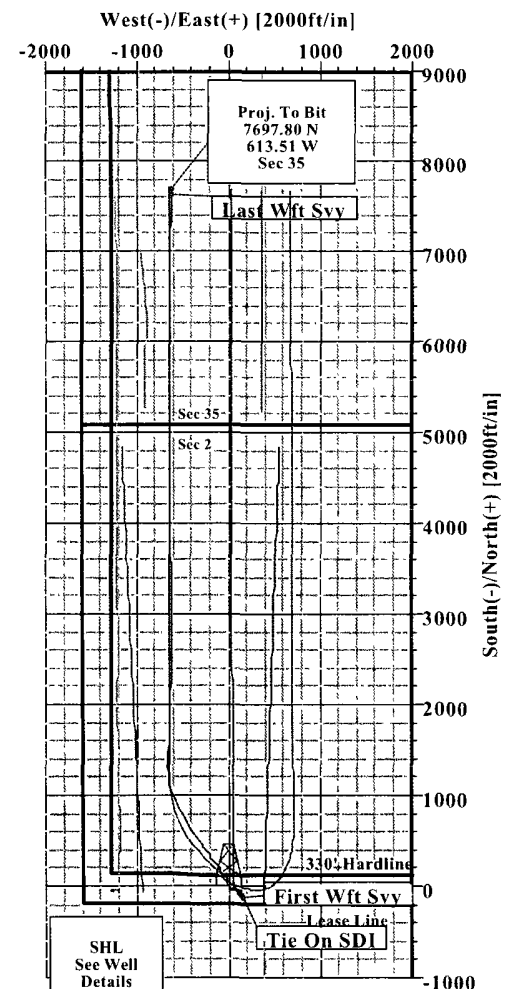
Weatherford



Vertical Section at 355.33° [300ft/in]



Vertical Section at 355.33° [1000ft/in]



SHL
See Well
Details
Sec 2

Survey: Wft Svy (CDU #135H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
127	16536.00	90.03	1.73	8744.48	7697.80	-613.51	0.00	0.00	7722.19

Last Wft Svy

Proj. To Bit

Survey: Wft Svy (CDU #135H/1)

Created By: Russell W. Joyner

Date: 8/23/2011



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy		Date: 8/23/2011	Time: 06:54:02	Page: 1						
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: CDU #135H, Grid North								
Site: Cotton Draw Unit #135H		Vertical (TVD) Reference: SITE 3447.0								
Well: CDU #135H		Section (VS) Reference: Well (0.00N, 0.00E, 355.33Azi)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature		Db: Sybase						
Survey: Wft Svy		Start Date: 8/9/2011								
Company: Weatherford International Ltd.		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: Cotton Draw Unit #135H										
Site Position:										
From: Map	Northing: 419795 41 ft	Latitude: 32 9 9 931 N								
Position Uncertainty: 0 00 ft	Easting: 721228 17 ft	Longitude: 103 45 7.422 W								
Ground Level: 3421 00 ft		North Reference: Grid								
		Grid Convergence: 0 31 deg								
Well: CDU #135H										
Slot Name:										
Well Position: +N/-S 0 00 ft	Northing: 419795 41 ft	Latitude: 32 9 9 931 N								
+E/-W 0 00 ft	Easting: 721228.17 ft	Longitude: 103 45 7.422 W								
Position Uncertainty: 0 00 ft										
Wellpath: 1										
Current Datum: SITE		Height: 3447 00 ft	Drilled From: Surface							
Magnetic Data: 7/30/2011			Tie-on Depth: 0.00 ft							
Field Strength: 48566 nT			Above System Datum: Mean Sea Level							
Vertical Section: Depth From (TVD) ft		+N/-S ft	+E/-W ft	Direction deg						
0 00		0 00	0.00	355 33						
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
7050.00	1.24	182.75	7046.21	-115.51	152.72	0.00	-127.57	419679.90	721380.89	Tie On SDI
7124.00	0.89	170.86	7120.20	-116.88	152.77	0.56	-128.94	419678.53	721380.94	First Wft Svy
7217.00	0.55	163.08	7213.19	-118.02	153.02	0.38	-130.10	419677.39	721381.19	
7311.00	0.71	165.99	7307.19	-119.01	153.29	0.17	-131.11	419676.40	721381.46	
7405.00	0.74	154.65	7401.18	-120.13	153.69	0.16	-132.25	419675.28	721381.86	
7500.00	0.88	143.28	7496.17	-121.27	154.39	0.22	-133.45	419674.14	721382.56	
7593.00	1.10	130.71	7589.15	-122.42	155.49	0.33	-134.69	419672.99	721383.66	
7687.00	1.24	132.12	7683.13	-123.69	156.93	0.15	-136.07	419671.72	721385.10	
7781.00	1.23	135.23	7777.11	-125.09	158.40	0.07	-137.58	419670.32	721386.57	
7875.00	1.16	133.03	7871.09	-126.46	159.80	0.09	-139.06	419668.95	721387.97	
7969.00	1.72	133.17	7965.06	-128.07	161.53	0.60	-140.81	419667.34	721389.70	
8063.00	0.50	122.45	8059.04	-129.26	162.90	1.31	-142.10	419666.15	721391.07	
8126.00	0.81	131.89	8122.04	-129.70	163.47	0.52	-142.59	419665.71	721391.64	
8157.00	1.56	312.72	8153.04	-129.56	163.32	7.64	-142.44	419665.85	721391.49	
8172.00	3.83	313.41	8168.02	-129.08	162.81	15.13	-141.92	419666.33	721390.98	
8189.00	6.65	314.00	8184.95	-128.00	161.68	16.59	-140.76	419667.41	721389.85	
8220.00	12.09	314.22	8215.52	-124.49	158.06	17.55	-136.96	419670.92	721386.23	
8251.00	15.90	316.12	8245.60	-119.16	152.79	12.38	-131.22	419676.25	721380.96	
8282.00	17.06	319.10	8275.32	-112.66	146.87	4.63	-124.26	419682.75	721375.04	
8314.00	18.80	321.43	8305.77	-105.08	140.58	5.88	-116.19	419690.33	721368.75	
8345.00	21.59	321.37	8334.86	-96.72	133.91	9.00	-107.31	419698.69	721362.08	
8377.00	25.16	319.72	8364.23	-86.93	125.83	11.34	-96.90	419708.48	721354.00	
8408.00	28.95	319.27	8391.83	-76.21	116.67	12.24	-85.47	419719.20	721344.84	
8439.00	32.54	319.79	8418.47	-64.16	106.39	11.61	-72.61	419731.25	721334.56	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #135H
Well: CDU #135H
Wellpath: 1

Date: 8/23/2011 Time: 06:54:02 Page: 2
Co-ordinate(NE) Reference: Well CDU #135H, Grid North
Vertical (TVD) Reference: SITE 3447.0
Section (VS) Reference: Well (0 00N,0.00E,355.33Azi)
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
8470.00	35.08	321.53	8444.22	-50.81	95.46	8.77	-58.42	419744.60	721323.63	
8502.00	37.29	321.93	8470.05	-35.98	83.76	6.95	-42.69	419759.43	721311.93	
8533.00	39.57	321.75	8494.33	-20.83	71.86	7.36	-26.62	419774.58	721300.03	
8564.00	42.40	320.41	8517.73	-5.02	59.08	9.56	-9.82	419790.39	721287.25	
8596.00	45.93	318.74	8540.68	11.94	44.62	11.61	8.27	419807.35	721272.79	
8627.00	48.52	318.90	8561.74	29.07	29.64	8.36	26.56	419824.48	721257.81	
8659.00	51.43	320.25	8582.31	47.72	13.76	9.65	46.44	419843.13	721241.93	
8690.00	54.66	321.34	8600.95	66.92	-1.89	10.79	66.85	419862.33	721226.28	
8721.00	56.97	321.44	8618.37	86.96	-17.90	7.46	88.13	419882.37	721210.27	
8753.00	58.86	322.47	8635.36	108.31	-34.60	6.51	110.77	419903.72	721193.57	
8784.00	61.68	323.59	8650.73	129.81	-50.79	9.62	133.52	419925.22	721177.38	
8815.00	64.89	323.96	8664.67	152.15	-67.15	10.41	157.12	419947.56	721161.02	
8847.00	67.94	324.54	8677.47	175.95	-84.28	9.67	182.23	419971.36	721143.89	
8878.00	68.54	324.82	8688.96	199.44	-100.92	2.11	207.00	419994.85	721127.25	
8909.00	69.66	324.91	8700.02	223.13	-117.59	3.62	231.97	420018.54	721110.58	
8941.00	72.42	324.83	8710.42	247.87	-135.00	8.63	258.05	420043.28	721093.17	
8972.00	75.46	324.79	8718.99	272.22	-152.17	9.81	283.71	420067.63	721076.00	
9003.00	77.63	323.82	8726.21	296.70	-169.76	7.63	309.55	420092.11	721058.41	
9034.00	79.63	324.48	8732.32	321.33	-187.56	6.78	335.55	420116.74	721040.61	
9066.00	81.47	324.79	8737.57	347.07	-205.83	5.83	362.69	420142.48	721022.34	
9097.00	83.51	324.87	8741.62	372.19	-223.53	6.59	389.17	420167.60	721004.64	
9129.00	86.33	324.58	8744.46	398.21	-241.93	8.86	416.61	420193.62	720986.24	
9189.00	91.78	324.52	8745.45	447.07	-276.71	9.08	468.13	420242.48	720951.46	
9213.00	92.55	324.24	8744.54	466.56	-290.68	3.41	488.70	420261.97	720937.49	
9307.00	92.13	325.32	8740.70	543.29	-344.85	1.23	569.59	420338.70	720883.32	
9401.00	89.33	326.94	8739.50	621.32	-397.22	3.44	651.63	420416.73	720830.95	
9495.00	89.27	327.89	8740.65	700.52	-447.84	1.01	734.69	420495.93	720780.33	
9589.00	89.41	330.76	8741.73	781.35	-495.79	3.06	819.16	420576.76	720732.38	
9683.00	88.57	333.55	8743.39	864.45	-539.68	3.10	905.55	420659.86	720688.49	
9777.00	89.27	338.93	8745.16	950.43	-577.54	5.77	994.34	420745.84	720650.63	
9871.00	91.36	343.72	8744.65	1039.45	-607.62	5.56	1085.51	420834.86	720620.55	
9965.00	90.94	348.86	8742.76	1130.72	-629.89	5.49	1178.30	420926.13	720598.28	
10060.00	89.34	352.45	8742.53	1224.44	-645.31	4.14	1272.96	421019.85	720582.86	
10154.00	87.03	358.56	8745.51	1318.06	-652.68	6.95	1366.86	421113.47	720575.49	
10226.00	88.15	1.87	8748.54	1389.98	-652.41	4.85	1438.53	421185.39	720575.76	
10320.00	90.31	2.26	8749.80	1483.90	-649.02	2.34	1531.86	421279.31	720579.15	
10414.00	90.38	3.11	8749.23	1577.80	-644.62	0.91	1625.09	421373.21	720583.55	
10508.00	90.73	3.25	8748.32	1671.65	-639.40	0.40	1718.20	421467.06	720588.77	
10602.00	91.01	3.52	8746.89	1765.47	-633.85	0.41	1811.26	421560.88	720594.32	
10696.00	90.45	0.99	8745.70	1859.39	-630.15	2.76	1904.56	421654.80	720598.02	
10791.00	89.68	0.82	8745.59	1954.37	-628.65	0.83	1999.11	421749.78	720599.52	
10885.00	89.90	1.00	8745.93	2048.36	-627.16	0.30	2092.66	421843.77	720601.01	
10979.00	89.76	1.31	8746.21	2142.34	-625.27	0.36	2186.17	421937.75	720602.90	
11072.00	89.48	1.33	8746.83	2235.31	-623.12	0.30	2278.66	422030.72	720605.05	
11166.00	89.76	1.59	8747.45	2329.28	-620.73	0.41	2372.12	422124.69	720607.44	
11260.00	91.01	1.26	8746.82	2423.25	-618.39	1.38	2465.59	422218.66	720609.78	
11354.00	90.03	1.42	8745.97	2517.22	-616.19	1.06	2559.06	422312.63	720611.98	
11448.00	89.97	1.80	8745.97	2611.18	-613.55	0.41	2652.50	422406.59	720614.62	
11542.00	90.59	0.91	8745.51	2705.15	-611.33	1.15	2745.98	422500.56	720616.84	
11658.00	90.31	0.81	8744.60	2821.14	-609.59	0.26	2861.43	422616.55	720618.58	
11751.00	89.55	358.60	8744.71	2914.13	-610.07	2.51	2954.15	422709.54	720618.10	
11845.00	89.89	359.25	8745.17	3008.11	-611.83	0.78	3047.97	422803.52	720616.34	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #135H
Well: CDU #135H
Wellpath: .1

Date: 8/23/2011 Time: 06 54:02 Page: 3
Co-ordinate(NE) Reference: Well: CDU #135H, Grd North
Vertical (TVD) Reference: SITE 3447 0
Section (VS) Reference: Well (0 00N,0.00E,355.33Azi)
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
11940.00	89.90	359.45	8745.35	3103.10	-612.91	0.21	3142.73	422898.51	720615.26	
12034.00	90.10	359.49	8745.35	3197.10	-613.78	0.22	3236.49	422992.51	720614.39	
12128.00	90.45	0.40	8744.89	3291.10	-613.87	1.04	3330.18	423086.51	720614.30	
12222.00	90.31	358.50	8744.27	3385.09	-614.77	2.03	3423.93	423180.50	720613.40	
12316.00	88.92	357.12	8744.90	3479.01	-618.36	2.08	3517.83	423274.42	720609.81	
12410.00	88.85	356.97	8746.73	3572.87	-623.21	0.18	3611.77	423368.28	720604.96	
12504.00	88.43	356.76	8748.96	3666.70	-628.35	0.50	3705.71	423462.11	720599.82	
12598.00	89.97	358.50	8750.27	3760.60	-632.23	2.47	3799.62	423556.01	720595.94	
12692.00	91.08	359.80	8749.41	3854.59	-633.63	1.82	3893.40	423650.00	720594.54	
12786.00	90.66	0.09	8747.99	3948.58	-633.72	0.54	3987.09	423743.99	720594.45	
12880.00	90.66	359.78	8746.90	4042.57	-633.82	0.33	4080.78	423837.98	720594.35	
12973.00	90.45	359.73	8746.00	4135.56	-634.22	0.23	4173.49	423930.97	720593.95	
13067.00	90.24	359.88	8745.44	4229.56	-634.54	0.27	4267.21	424024.97	720593.63	
13162.00	90.45	0.35	8744.86	4324.56	-634.35	0.54	4361.87	424119.97	720593.82	
13256.00	91.22	0.82	8743.49	4418.54	-633.39	0.96	4455.47	424213.95	720594.78	
13350.00	89.76	359.38	8742.69	4512.53	-633.23	2.18	4549.13	424307.94	720594.94	
13444.00	89.97	359.29	8742.91	4606.53	-634.32	0.24	4642.90	424401.94	720593.85	
13538.00	89.83	0.12	8743.08	4700.53	-634.80	0.90	4736.62	424495.94	720593.37	
13632.00	88.36	0.30	8744.56	4794.51	-634.46	1.58	4830.27	424589.92	720593.71	
13726.00	87.45	0.27	8748.00	4888.45	-633.99	0.97	4923.85	424683.86	720594.18	
13819.00	88.71	0.69	8751.11	4981.39	-633.21	1.43	5016.42	424776.80	720594.96	
13914.00	91.57	1.14	8750.88	5076.37	-631.69	3.05	5110.96	424871.78	720596.48	
14007.00	91.79	0.55	8748.15	5169.31	-630.32	0.68	5203.49	424964.72	720597.85	
14102.00	89.20	0.67	8747.33	5264.30	-629.31	2.73	5298.07	425059.71	720598.86	
14196.00	88.78	0.75	8748.99	5358.28	-628.15	0.45	5391.64	425153.69	720600.02	
14290.00	90.38	0.37	8749.68	5452.27	-627.23	1.75	5485.25	425247.68	720600.94	
14384.00	91.15	359.98	8748.42	5546.26	-626.94	0.92	5578.90	425341.67	720601.23	
14478.00	90.59	359.05	8747.00	5640.24	-627.74	1.15	5672.64	425435.65	720600.43	
14572.00	90.66	359.36	8745.97	5734.23	-629.04	0.34	5766.42	425529.64	720599.13	
14663.00	89.69	358.74	8745.69	5825.21	-630.55	1.27	5857.22	425620.62	720597.62	
14759.00	89.34	358.92	8746.51	5921.19	-632.51	0.41	5953.04	425716.60	720595.66	
14852.00	89.69	359.33	8747.29	6014.17	-633.93	0.58	6045.83	425809.58	720594.24	
14946.00	89.69	359.98	8747.80	6108.17	-634.50	0.69	6139.56	425903.58	720593.67	
15040.00	89.55	0.40	8748.43	6202.17	-634.19	0.47	6233.22	425997.58	720593.98	
15134.00	91.64	0.78	8747.45	6296.15	-633.22	2.26	6326.81	426091.56	720594.95	
15228.00	89.97	0.38	8746.13	6390.13	-632.27	1.83	6420.41	426185.54	720595.90	
15322.00	90.31	0.35	8745.90	6484.13	-631.67	0.36	6514.04	426279.54	720596.50	
15416.00	90.52	0.27	8745.22	6578.13	-631.16	0.24	6607.68	426373.54	720597.01	
15510.00	89.62	0.30	8745.10	6672.13	-630.69	0.96	6701.33	426467.54	720597.48	
15604.00	90.24	0.08	8745.22	6766.12	-630.38	0.70	6794.99	426561.53	720597.79	
15698.00	88.85	0.41	8745.97	6860.12	-629.98	1.52	6888.64	426655.53	720598.19	
15792.00	88.29	359.66	8748.31	6954.09	-629.92	1.00	6982.29	426749.50	720598.25	
15886.00	90.03	0.97	8749.69	7048.07	-629.40	2.32	7075.92	426843.48	720598.77	
15980.00	89.83	1.35	8749.80	7142.05	-627.50	0.46	7169.43	426937.46	720600.67	
16074.00	91.43	1.21	8748.77	7236.02	-625.40	1.71	7262.92	427031.43	720602.77	
16168.00	91.92	0.95	8746.02	7329.96	-623.63	0.59	7356.40	427125.37	720604.54	
16262.00	89.97	1.35	8744.47	7423.92	-621.74	2.12	7449.90	427219.33	720606.43	
16356.00	89.97	1.73	8744.52	7517.89	-619.22	0.40	7543.35	427313.30	720608.95	
16450.00	90.03	2.02	8744.52	7611.84	-616.14	0.32	7636.73	427407.25	720612.03	
16465.00	90.03	1.73	8744.51	7626.83	-615.65	1.93	7651.64	427422.24	720612.52	Last Wft Svy
16536.00	90.03	1.73	8744.48	7697.80	-613.51	0.00	7722.19	427493.21	720614.66	Proj To Bit



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton-Draw Unit #135H
Well: CDU #135H
Wellpath: 1

Date: 8/23/2011 Time: 06:54:02 Page: 4
Co-ordinate(NE) Reference: Well: CDU #135H, Grid North
Vertical (TVD) Reference: SITE 3447.0
Section (VS) Reference: Well (0.00N;0.00E;355.33Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
7050.00	7046.21	Tie On SDI
7124.00	7120.20	First Wft Svy
16465.00	8744.51	Last Wft Svy
16536.00	8744.48	Proj To Bit

DEVON ENERGY

Paduca South
Eddy County, NM
Cotton Draw Unit #135H
VH - Job #32K0811747

Survey: Actual

SDI Standard Survey Report

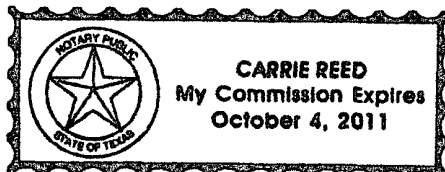
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 2nd of September, 2011.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #135H
Project:	Paduca South	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Cotton Draw Unit #135H	North Reference:	Grid
Wellbore:	VH - Job #32K0811747	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811747	Database:	EDM-Regulatory

Project	Paduca South		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site: Eddy County, NM					
Site Position:		Northing:	419,864 24 usft	Latitude:	32° 9' 10 800 N
From:	Lat/Long	Easting:	717,841 09 usft	Longitude:	103° 45' 46 800 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 30 °

Well	Cotton Draw Unit #135H, Directional (Weatherford)					
Well Position	+N/-S	0 0 usft	Northing:	419,795 42 usft	Latitude:	32° 9' 9 940 N
	+E/-W	0 0 usft	Easting:	721,224 33 usft	Longitude:	103° 45' 7 450 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore						VH - Job #32K0811747					
Magnetics		Model Name		Sample Date		Declination (°)		Dip Angle (°)		Field Strength (nT)	
		IGRF2010		8/7/2011		7 65		60 09		48,564	

Design:		VH - Job #32K0811747			
Audit Notes:					
Version:		1 0	Phase:		ACTUAL
			Tie On Depth:		0 0
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction
		(usft)	(usft)	(usft)	(°)
		0 0	0 0	0 0	355 33

Survey Program		Date	10/13/2011		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100 0	7,050 0	Actual (VH - Job #32K0811747)	Keeper	Keeper Gyro	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 39	165 23	100 0	-0 3	0 1	165 23	0 3
200 0	0 68	165 48	200 0	-1 2	0 3	165 35	1 3
300 0	0 82	154 73	300 0	-2 5	0 8	162 44	2 6
400 0	1 28	152 60	400 0	-4 1	1 6	158 70	4 4
500 0	1 87	140 75	499 9	-6 3	3 1	153 66	7 1
600 0	2 69	138 70	599 9	-9 4	5 7	148 59	11 0
700 0	2 90	140 50	699 7	-13 1	8 9	145 84	15 8
800 0	2 97	140 85	799 6	-17 1	12 1	144 58	20 9
900 0	2 65	135 44	899 5	-20 7	15 4	143 39	25 8
1,000 0	2 50	128 21	999 4	-23 7	18 7	141 70	30 2
1,100 0	2 38	123 40	1,099 3	-26 2	22 2	139 76	34 3

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local/Co-ordinate Reference:	Well Cotton Draw Unit #135H
Project:	Paduca South	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Cotton Draw Unit #135H	North Reference:	Grid
Wellbore:	VH - Job #32K0811747	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811747	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure (usft)	Azimuth (°)	Closure Distance (usft)
1,200 0	2 39	120 35	1,199 2	-28 4	25 7	137 85		38 3
1,300 0	2 44	114 87	1,299 1	-30 3	29 4	135 87		42 3
1,400 0	2 50	110 80	1,399 0	-32 0	33 4	133 78		46 3
1,500 0	2 60	110 37	1,498 9	-33 6	37 6	131 79		50 4
1,600 0	2 51	105 98	1,598 8	-35 0	41 8	129 92		54 5
1,700 0	2 67	100 67	1,698 7	-36 0	46 2	127 93		58 6
1,800 0	2 62	96 89	1,798 6	-36 7	50 7	125 88		62 6
1,900 0	2 69	97 75	1,898 5	-37 3	55 3	123 98		66 7
2,000 0	2 53	96 45	1,998 4	-37 9	59 9	122 31		70 8
2,100 0	2 46	95 13	2,098 3	-38 3	64 2	120 82		74 7
2,200 0	2 40	94 31	2,198 2	-38 6	68 4	119 46		78 6
2,300 0	2 41	95 44	2,298 1	-39 0	72 6	118 25		82 4
2,400 0	2 52	93 98	2,398 0	-39 4	76 9	117 11		86 4
2,500 0	2 42	97 75	2,497 9	-39 8	81 2	116 12		90 4
2,600 0	2 34	100 86	2,597 9	-40 5	85 3	115 39		94 4
2,700 0	2 04	106 67	2,697 8	-41 4	89 0	114 93		98 1
2,800 0	1 73	106 84	2,797 7	-42 3	92 1	114 67		101 4
2,900 0	1 60	117 02	2,897 7	-43 4	94 8	114 59		104 3
3,000 0	1 46	120 27	2,997 7	-44 7	97 2	114 68		106 9
3,100 0	1 35	113 96	3,097 6	-45 8	99 3	114 74		109 4
3,200 0	1 84	89 83	3,197 6	-46 3	102 0	114 39		112 0
3,300 0	2 15	85 01	3,297 5	-46 1	105 5	113 60		115 1
3,400 0	1 39	72 15	3,397 5	-45 5	108 5	112 77		117 7
3,500 0	0 83	60 53	3,497 5	-44 8	110 3	112 11		119 1
3,600 0	0 82	64 77	3,597 4	-44 2	111 6	111 59		120 0
3,700 0	1 56	97 67	3,697 4	-44 0	113 6	111 19		121 8
3,800 0	1 63	99 38	3,797 4	-44 4	116 3	110 91		124 5
3,900 0	1 94	115 29	3,897 3	-45 4	119 3	110 84		127 6
4,000 0	2 68	133 60	3,997 3	-47 7	122 5	111 29		131 5
4,100 0	2 95	141 13	4,097 1	-51 4	125 8	112 21		135 9
4,200 0	2 31	150 93	4,197 0	-55 1	128 4	113 24		139 7
4,300 0	1 92	164 05	4,297 0	-58 5	129 8	114 25		142 4
4,400 0	1 83	164 66	4,396 9	-61 6	130 7	115 25		144 5
4,500 0	1 68	163 55	4,496 9	-64 6	131 5	116 15		146 5
4,600 0	1 62	157 50	4,596 8	-67 3	132 5	116 93		148 6
4,700 0	1 69	153 67	4,696 8	-69 9	133 7	117 61		150 9
4,800 0	1 75	153 65	4,796 7	-72 6	135 0	118 27		153 3
4,900 0	1 66	151 69	4,896 7	-75 3	136 4	118 89		155 8
5,000 0	1 59	146 93	4,996 7	-77 7	137 8	119 41		158 2
5,100 0	1 57	145 65	5,096 6	-80 0	139 4	119 85		160 7
5,200 0	1 40	146 79	5,196 6	-82 1	140 8	120 26		163 0
5,300 0	1 25	146 42	5,296 6	-84 1	142 1	120 61		165 1
5,400 0	1 16	146 57	5,396 5	-85 8	143 2	120 93		167 0
5,500 0	1 20	143 68	5,496 5	-87 5	144 4	121 22		168 9

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #135H
Project:	Paduca South	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Cotton Draw Unit #135H	North Reference:	Grid
Wellbore:	VH - Job #32K0811747	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0811747	Database:	EDM-Regulatory

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600.0	1.27	147.75	5,596.5	-89.3	145.6	121.52	170.8
5,700.0	1.26	144.59	5,696.5	-91.1	146.9	121.82	172.8
5,800.0	1.37	143.21	5,796.4	-93.0	148.2	122.10	175.0
5,900.0	1.13	143.06	5,896.4	-94.7	149.5	122.36	177.0
6,000.0	0.86	163.45	5,996.4	-96.2	150.3	122.63	178.5
6,100.0	0.81	157.98	6,096.4	-97.6	150.8	122.91	179.6
6,200.0	0.84	160.58	6,196.4	-99.0	151.3	123.18	180.8
6,300.0	0.93	164.67	6,296.4	-100.4	151.8	123.49	182.0
6,400.0	1.06	172.49	6,396.4	-102.1	152.1	123.88	183.2
6,500.0	1.26	178.33	6,496.3	-104.1	152.3	124.37	184.5
6,600.0	1.18	175.05	6,596.3	-106.3	152.4	124.89	185.8
6,700.0	1.27	178.33	6,696.3	-108.4	152.5	125.41	187.1
6,800.0	1.22	173.33	6,796.3	-110.6	152.7	125.92	188.5
6,900.0	1.20	174.97	6,896.2	-112.7	152.9	126.39	189.9
7,000.0	0.98	189.86	6,996.2	-114.6	152.8	126.86	191.0
7,050.0	1.24	182.75	7,046.2	-115.5	152.7	127.10	191.5



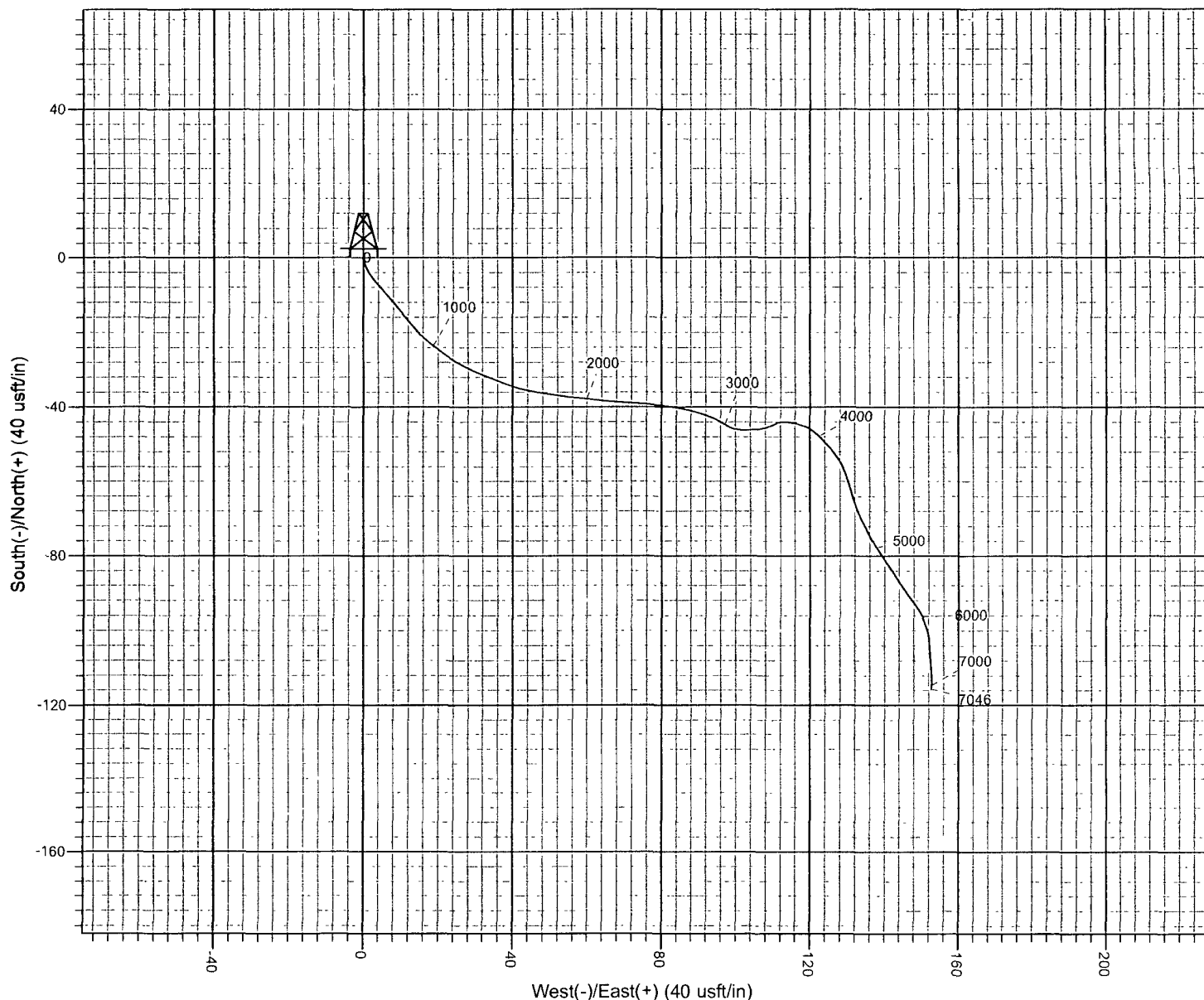
Project: Paduca South
 Eddy County, NM
 Well: Cotton Draw Unit #135H
 Wellbore: VH - Job #32K0811747
 Design: VH - Job #32K0811747



Azimuths to Grid North
 True North: -0° 31'
 Magnetic North: 7° 34'
 Magnetic Field
 Strength: 48564 5nT
 Dip Angle: 60° 09'
 Date: 8/7/2011
 Model: IGRF2010

WELL DETAILS: Cotton Draw Unit #135H
 WELL @ 0.0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	419795.42	721224.33	32° 9' 9.940 N	103° 45' 7.450 W	



PROJECT DETAILS: Paduca South
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
 Site Centre Latitude: 32° 9' 10.800 N
 Longitude: 103° 45' 46.800 W
 Positional Uncertainty: 0.0
 Convergence: 0.30
 Local North: Grid