

30-015-38293



Cotton Draw #134H
Eddy Co., New Mexico

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	11457.00	90.67	359.62	8971.50	2668.36	55.02	0.00	0.00	2668.56
2	11473.75	91.16	359.73	8971.23	2685.11	54.92	3.00	12.43	2685.31
3	16470.64	91.16	359.73	8870.00	7680.91	31.22	0.00	0.00	7680.97 Pbhl

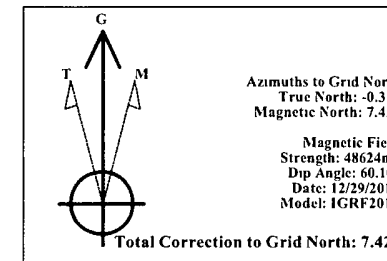
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cotton Draw #134H	0.00	0.00	419743.42	719966.81	32°09'09.484N	103°45'22.098W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8870.00	7680.91	31.22	427424.33	719998.03	Point

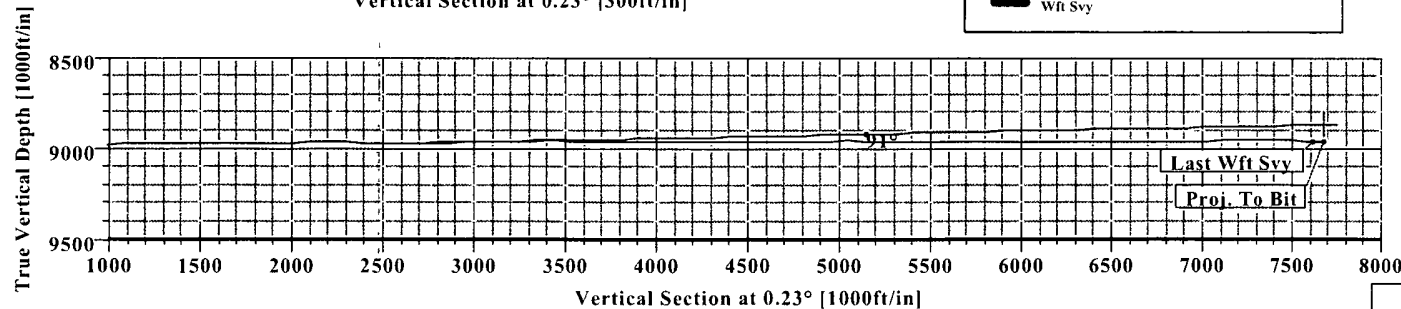
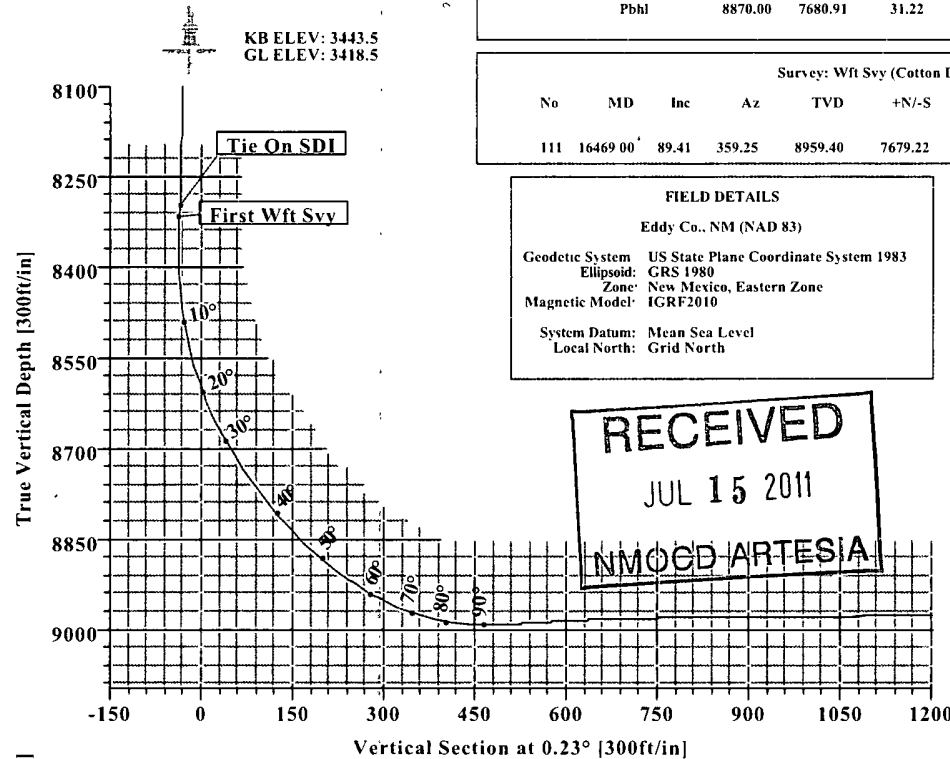
Survey: Wft Svy (Cotton Draw #134H/I)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
111	16469.00	89.41	359.25	8959.40	7679.22	21.04	0.00	0.00	7679.24

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

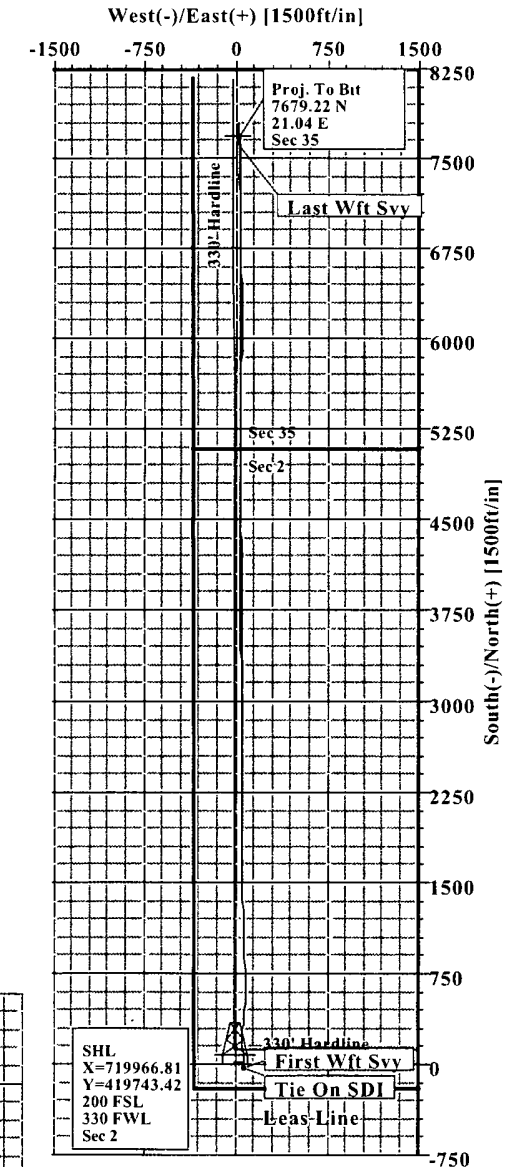
SITE DETAILS
Cotton Draw #134H
Site Centre Northing: 419743.42
Easting: 719966.81
Ground Level: 3418.50
Positional Uncertainty: 0.00
Convergence: 0.31



LEGEND
Cotton Draw #134H, I, Gyro
Cotton Draw #134H, I, Plan #3
#4H (1)
Wft Svy



Weatherford



Survey: Wft Svy (Cotton Draw #134H/I)
Created By: Russell W. Joyner
Date: 1/19/2011



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy		Date: 1/19/2011	Time: 07:27:32	Page: 1						
Field: Eddy Co, NM (NAD 83)		Co-ordinate(NE) Reference: Well..Cotton Draw #134H Grd North								
Site: Cotton Draw #134H		Vertical (TVD) Reference: SITE 3443 5								
Well: Cotton Draw #134H		Section (VS) Reference: Well (0.00N,0.00E,0.23Azi)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature Db: Sybase								
Survey: Wft Svy		Start Date: 1/3/2011								
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 #134H										
Site Position:		Northing: 419743 42 ft	Latitude: 32 9 9 484 N							
From: Map		Easting: 719966 81 ft	Longitude: 103 45 22 098 W							
Position Uncertainty: 0.00 ft			North Reference: Grd							
Ground Level: 3418 50 ft			Grid Convergence: 0 31 deg							
Well: Cotton Draw #134H Slot Name:										
Well Position:		Northing: 419743 42 ft	Latitude: 32 9 9 484 N							
+N/-S 0.00 ft		Easting: 719966 81 ft	Longitude: 103 45 22.098 W							
+E/-W 0.00 ft										
Position Uncertainty: 0.00 ft										
Wellpath: 1										
Current Datum: SITE		Height 3443 50 ft	Drilled From: Surface							
Magnetic Data: 12/29/2010			Tie-on Depth: 0.00 ft							
Field Strength: 48624 nT			Above System Datum: Mean Sea Level							
Vertical Section: Depth From (TVD)		+N/-S	Declination: 7.72 deg							
ft		ft	Mag Dip Angle: 60 10 deg							
			+E/-W	Direction						
		ft	ft	deg						
0 00		0.00	0.00	0.23						
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
8300.00	1.55	206.82	8298.11	-36.00	66.86	0.00	-35.73	419707.42	720033.67	Tie On SDI
8320.00	1.74	191.85	8318.10	-36.54	66.68	2.34	-36.27	419706.88	720033.49	First Wft Svy
8351.00	1.93	198.39	8349.09	-37.49	66.41	0.91	-37.22	419705.93	720033.22	
8382.00	0.60	225.30	8380.08	-38.10	66.13	4.58	-37.83	419705.32	720032.94	
8414.00	2.69	355.26	8412.07	-37.47	65.95	9.72	-37.21	419705.95	720032.76	
8445.00	5.57	1.19	8442.98	-35.24	65.92	9.38	-34.98	419708.18	720032.73	
8476.00	8.44	2.37	8473.75	-31.47	66.05	9.27	-31.20	419711.95	720032.86	
8507.00	11.11	1.36	8504.30	-26.21	66.21	8.63	-25.94	419717.21	720033.02	
8539.00	13.79	359.93	8535.54	-19.31	66.28	8.43	-19.04	419724.11	720033.09	
8570.00	16.01	0.42	8565.50	-11.34	66.31	7.17	-11.07	419732.08	720033.12	
8602.00	18.76	0.49	8596.03	-1.78	66.39	8.59	-1.51	419741.64	720033.20	
8633.00	22.04	1.44	8625.09	9.02	66.58	10.63	9.29	419752.44	720033.39	
8665.00	25.56	1.02	8654.36	21.93	66.85	11.01	22.20	419765.35	720033.66	
8696.00	29.28	359.92	8681.87	36.20	66.96	12.11	36.48	419779.62	720033.77	
8727.00	31.66	358.56	8708.59	51.92	66.74	7.99	52.19	419795.34	720033.55	
8759.00	34.39	358.03	8735.42	69.35	66.22	8.58	69.62	419812.77	720033.03	
8790.00	35.20	356.86	8760.87	87.02	65.43	3.39	87.29	419830.44	720032.24	
8821.00	37.12	356.26	8785.90	105.28	64.33	6.30	105.54	419848.70	720031.14	
8853.00	40.30	356.40	8810.87	125.25	63.05	9.94	125.50	419868.67	720029.86	
8884.00	43.63	356.40	8833.92	145.93	61.75	10.74	146.18	419889.35	720028.56	
8916.00	46.00	357.22	8856.61	168.45	60.50	7.62	168.70	419911.87	720027.31	
8947.00	49.13	358.34	8877.53	191.31	59.62	10.44	191.55	419934.73	720026.43	
8978.00	51.77	0.20	8897.27	215.21	59.32	9.69	215.45	419958.63	720026.13	
9009.00	54.22	0.24	8915.92	239.96	59.42	7.90	240.20	419983.38	720026.23	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company:	Devon Energy	Date:	1/19/2011	Time:	07:27:32	Page:	2
Field:	Eddy Co. NM(NAD83)	Co-ordinate(NE) Reference:	Well: Cotton Draw #134H	Grid North:			
Site:	Cotton Draw #134H	Vertical (TVD) Reference:	SITE 3443.5				
Well:	Cotton Draw #134H	Section (VS) Reference:	Well (0.00N:0.00E:0.23Azi)				
Wellpath:	1	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
9024.00	55.60	0.60	8924.55	252.23	59.51	9.41	252.47	419995.65	720026.32	
9041.00	57.94	1.36	8933.86	266.45	59.75	14.26	266.69	420009.87	720026.56	
9056.00	60.16	1.84	8941.58	279.31	60.11	15.05	279.55	420022.73	720026.92	
9072.00	61.68	2.94	8949.35	293.28	60.69	11.24	293.52	420036.70	720027.50	
9104.00	66.20	4.34	8963.41	321.96	62.52	14.66	322.21	420065.38	720029.33	
9135.00	70.58	6.31	8974.82	350.65	65.21	15.31	350.91	420094.07	720032.02	
9166.00	75.54	6.46	8983.85	380.11	68.50	16.01	380.38	420123.53	720035.31	
9198.00	82.03	5.73	8990.07	411.30	71.83	20.40	411.59	420154.72	720038.64	
9229.00	87.73	6.18	8992.84	442.00	75.03	18.44	442.30	420185.42	720041.84	
9294.00	93.96	3.62	8991.88	506.72	80.58	10.36	507.04	420250.14	720047.39	
9388.00	93.11	0.71	8986.08	600.46	84.13	3.22	600.80	420343.88	720050.94	
9481.00	91.44	358.87	8982.39	693.38	83.79	2.67	693.72	420436.80	720050.60	
9576.00	90.52	357.26	8980.77	788.31	80.58	1.95	788.63	420531.73	720047.39	
9670.00	90.24	357.23	8980.14	882.20	76.06	0.30	882.50	420625.62	720042.87	
9764.00	90.45	357.79	8979.58	976.11	71.98	0.64	976.39	420719.53	720038.79	
9858.00	91.22	358.19	8978.21	1070.04	68.68	0.92	1070.31	420813.46	720035.49	
9952.00	90.87	358.15	8976.49	1163.97	65.68	0.37	1164.23	420907.39	720032.49	
10046.00	89.48	358.77	8976.21	1257.94	63.15	1.62	1258.18	421001.36	720029.96	
10140.00	89.13	359.22	8977.35	1351.92	61.50	0.61	1352.15	421095.34	720028.31	
10234.00	89.13	0.18	8978.77	1445.90	61.01	1.02	1446.14	421189.32	720027.82	
10329.00	92.34	359.11	8977.55	1540.88	60.42	3.56	1541.11	421284.30	720027.23	
10422.00	91.22	357.05	8974.67	1633.77	57.31	2.52	1633.99	421377.19	720024.12	
10517.00	91.43	357.97	8972.47	1728.66	53.18	0.99	1728.86	421472.08	720019.99	
10611.00	90.03	358.29	8971.27	1822.60	50.12	1.53	1822.79	421566.02	720016.93	
10705.00	90.60	359.49	8970.75	1916.58	48.29	1.41	1916.76	421660.00	720015.10	
10799.00	90.81	359.81	8969.60	2010.57	47.72	0.41	2010.75	421753.99	720014.53	
10893.00	91.22	0.74	8967.93	2104.55	48.17	1.08	2104.73	421847.97	720014.98	
10987.00	89.90	1.48	8967.01	2198.53	49.99	1.61	2198.71	421941.95	720016.80	
11081.00	89.27	2.06	8967.70	2292.48	52.90	0.91	2292.67	422035.90	720019.71	
11175.00	87.72	0.52	8970.16	2386.42	55.01	2.32	2386.62	422129.84	720021.82	
11269.00	88.99	0.18	8972.86	2480.37	55.59	1.40	2480.58	422223.79	720022.40	
11364.00	91.01	359.75	8972.86	2575.37	55.53	2.17	2575.57	422318.79	720022.34	
11457.00	90.67	359.62	8971.50	2668.36	55.02	0.39	2668.56	422411.78	720021.83	
11552.00	89.83	359.73	8971.08	2763.35	54.48	0.89	2763.55	422506.77	720021.29	
11646.00	91.43	359.80	8970.05	2857.34	54.09	1.70	2857.54	422600.76	720020.90	
11740.00	92.56	0.07	8966.78	2951.29	53.99	1.24	2951.48	422694.71	720020.80	
11834.00	91.36	358.94	8963.56	3045.22	53.17	1.75	3045.41	422788.64	720019.98	
11928.00	91.36	358.89	8961.33	3139.18	51.39	0.05	3139.36	422882.60	720018.20	
12029.00	91.85	359.42	8958.50	3240.13	49.91	0.71	3240.31	422983.55	720016.72	
12124.00	90.52	358.52	8956.54	3335.09	48.20	1.69	3335.26	423078.51	720015.01	
12218.00	88.99	358.60	8956.94	3429.06	45.84	1.63	3429.22	423172.48	720012.65	
12312.00	89.27	358.93	8958.37	3523.02	43.81	0.46	3523.17	423266.44	720010.62	
12406.00	89.69	359.21	8959.22	3617.01	42.28	0.54	3617.15	423360.43	720009.09	
12500.00	90.88	359.63	8958.75	3711.00	41.33	1.34	3711.14	423454.42	720008.14	
12594.00	89.27	0.03	8958.63	3805.00	41.05	1.76	3805.13	423548.42	720007.86	
12688.00	89.34	359.34	8959.77	3898.99	40.54	0.74	3899.12	423642.41	720007.35	
12782.00	89.76	359.47	8960.51	3992.98	39.56	0.47	3993.11	423736.40	720006.37	
12876.00	89.62	359.22	8961.02	4086.97	38.49	0.30	4087.09	423830.39	720005.30	
12971.00	89.97	359.12	8961.36	4181.96	37.11	0.38	4182.08	423925.38	720003.92	
13065.00	90.59	358.80	8960.90	4275.94	35.40	0.74	4276.05	424019.36	720002.21	
13159.00	90.24	0.18	8960.22	4369.93	34.57	1.51	4370.04	424113.35	720001.38	
13253.00	90.67	0.29	8959.47	4463.93	34.95	0.47	4464.04	424207.35	720001.76	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy Date: 1/19/2011 Time: 07:27:32 Page: 3
Field: Eddy Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: Cotton Draw #134H Grid North
Site: Cotton Draw #134H Vertical (TVD) Reference: SITE 3443.5
Well: Cotton Draw #134H Section (VS) Reference: Well (0.00N, 0.00E, 0.23Azi)
Wellpath: 1 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
13347.00	88.85	0.03	8959.86	4557.93	35.22	1.96	4558.03	424301.35	720002.03	
13441.00	89.40	0.31	8961.30	4651.91	35.49	0.66	4652.02	424395.33	720002.30	
13536.00	90.59	0.66	8961.31	4746.91	36.30	1.31	4747.02	424490.33	720003.11	
13640.00	91.08	0.00	8959.79	4850.89	36.90	0.79	4851.00	424594.31	720003.71	
13734.00	90.66	0.95	8958.37	4944.88	37.68	1.10	4944.99	424688.30	720004.49	
13828.00	89.41	1.49	8958.31	5038.86	39.68	1.45	5038.98	424782.28	720006.49	
13922.00	88.57	0.77	8959.97	5132.82	41.53	1.18	5132.95	424876.24	720008.34	
14016.00	89.83	0.71	8961.28	5226.80	42.75	1.34	5226.93	424970.22	720009.56	
14111.00	90.45	0.47	8961.05	5321.80	43.72	0.70	5321.93	425065.22	720010.53	
14205.00	91.50	359.97	8959.45	5415.78	44.08	1.24	5415.92	425159.20	720010.89	
14299.00	88.57	0.29	8959.39	5509.77	44.30	3.14	5509.90	425253.19	720011.11	
14393.00	89.69	0.71	8960.82	5603.75	45.12	1.27	5603.89	425347.17	720011.93	
14487.00	89.55	0.42	8961.44	5697.75	46.04	0.34	5697.89	425441.17	720012.85	
14581.00	90.31	0.32	8961.55	5791.74	46.65	0.82	5791.89	425535.16	720013.46	
14675.00	90.59	0.24	8960.82	5885.74	47.11	0.31	5885.88	425629.16	720013.92	
14769.00	90.31	0.49	8960.08	5979.74	47.71	0.40	5979.88	425723.16	720014.52	
14864.00	90.45	0.69	8959.45	6074.73	48.69	0.26	6074.88	425818.15	720015.50	
14958.00	90.73	1.17	8958.48	6168.71	50.21	0.59	6168.86	425912.13	720017.02	
15052.00	88.78	359.17	8958.88	6262.70	50.49	2.97	6262.85	426006.12	720017.30	
15147.00	88.64	359.44	8961.02	6357.67	49.34	0.32	6357.82	426101.09	720016.15	
15241.00	88.64	358.95	8963.25	6451.63	48.02	0.52	6451.77	426195.05	720014.83	
15335.00	90.03	358.69	8964.34	6545.60	46.08	1.50	6545.74	426289.02	720012.89	
15429.00	89.61	358.13	8964.64	6639.57	43.48	0.74	6639.69	426382.99	720010.29	
15523.00	91.58	359.38	8963.66	6733.53	41.43	2.48	6733.65	426476.95	720008.24	
15618.00	91.43	359.29	8961.17	6828.49	40.33	0.18	6828.60	426571.91	720007.14	
15712.00	90.66	358.91	8959.45	6922.47	38.86	0.91	6922.57	426665.89	720005.67	
15807.00	90.25	358.57	8958.70	7017.44	36.77	0.56	7017.53	426760.86	720003.58	
15901.00	90.31	358.25	8958.24	7111.40	34.16	0.35	7111.48	426854.82	720000.97	
15995.00	90.45	358.63	8957.61	7205.37	31.60	0.43	7205.43	426948.79	719998.41	
16089.00	90.03	358.17	8957.22	7299.33	28.98	0.66	7299.38	427042.75	719995.79	
16183.00	90.11	357.93	8957.11	7393.27	25.78	0.27	7393.32	427136.69	719992.59	
16277.00	89.27	359.38	8957.61	7487.24	23.57	1.78	7487.28	427230.66	719990.38	
16372.00	89.69	359.14	8958.48	7582.23	22.34	0.51	7582.26	427325.65	719989.15	
16404.00	89.41	359.25	8958.73	7614.23	21.89	0.94	7614.25	427357.65	719988.70	Last Wft Svy
16469.00	89.41	359.25	8959.40	7679.22	21.04	0.00	7679.24	427422.64	719987.85	Proj To Bit

Annotation

MD ft	TVD ft	
8300.00	8298.11	Tie On SDI
8320.00	8318.10	First Wft Svy
16404.00	8958.73	Last Wft Svy
16469.00	8959.40	Proj To Bit



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
20 North Broadway
Oklahoma City, OK, 73102

Date: January 20, 2011

Attention: Wes Handley

Re: Devon Energy
Well: Cotton Draw #134H
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>
Ralph Zamora MWD Supervisor	134H	8320' MD 16404' MD	1/1/2011 1/20/2011	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.

Luke Schnell
Area Manager

On this, the 20th day of January, 2011, before me a notary public, the undersigned officer, personally appeared Luke Schnell, 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

