



Company: Devon
 Lease/Well: Cotton Draw Unit #116H
 Location: Sec 36 T24S R31E
 Rig Name: H&P 214
 State/County: New Mexico/Eddy
 Latitude: 32.17, Longitude: -103.72
 GRID North is 0.32 Degrees East of True North
 VS-Azi: 359.65 Degrees



3001537926

FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : RKB 25 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: cotton draw unit #116-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/15/2013 / 20:57

Vaughn Energy Services
 West Texas
 Chris Bankson
 432-563-5444



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	****
76.80	0.32	33.45	76.80	0.18	0.12	0.18	0.22	33.45	0.42
171.14	0.66	22.76	171.14	0.91	0.48	0.90	1.03	27.78	0.37
265.48	0.85	4.50	265.47	2.10	0.74	2.10	2.23	19.46	0.32
359.82	1.00	357.35	359.80	3.63	0.76	3.62	3.70	11.84	0.21
454.16	1.06	351.18	454.12	5.31	0.59	5.31	5.35	6.31	0.13
548.50	1.71	352.67	548.43	7.58	0.27	7.57	7.58	2.07	0.69
642.84	1.71	353.89	642.73	10.38	-0.06	10.38	10.38	359.69	0.04
737.18	1.78	354.53	737.03	13.24	-0.35	13.24	13.24	358.51	0.07
831.52	1.84	341.34	831.32	16.13	-0.97	16.14	16.16	356.56	0.45
925.86	1.87	351.74	925.61	19.09	-1.68	19.10	19.17	354.98	0.36
1020.20	1.79	351.14	1019.90	22.08	-2.13	22.09	22.18	354.50	0.09
1114.54	1.73	356.13	1114.20	24.96	-2.45	24.97	25.07	354.40	0.18
1208.88	1.63	0.52	1208.50	27.72	-2.53	27.73	27.83	354.78	0.17
1303.22	1.69	9.40	1302.80	30.43	-2.29	30.44	30.52	355.69	0.28
1397.56	1.63	13.91	1397.10	33.11	-1.74	33.12	33.15	356.99	0.15
1491.90	1.79	16.00	1491.40	35.83	-1.01	35.84	35.84	358.38	0.18
1586.24	1.68	19.80	1585.69	38.55	-0.14	38.55	38.55	359.80	0.17
1680.58	1.70	29.83	1679.99	41.07	1.03	41.06	41.08	1.43	0.31
1774.92	1.60	39.04	1774.29	43.31	2.55	43.29	43.38	3.38	0.30
1869.26	1.53	41.00	1868.60	45.28	4.21	45.25	45.47	5.31	0.10
1963.60	1.40	45.53	1962.91	47.03	5.86	47.00	47.40	7.10	0.18
2057.94	1.23	48.20	2057.22	48.52	7.43	48.47	49.08	8.71	0.20
2152.28	1.15	56.80	2151.54	49.71	8.98	49.65	50.51	10.24	0.21
2246.62	1.02	55.01	2245.86	50.70	10.45	50.64	51.77	11.65	0.14
2340.96	0.76	58.10	2340.19	51.52	11.67	51.45	52.82	12.77	0.28
2435.30	0.73	62.81	2434.53	52.12	12.74	52.05	53.66	13.74	0.07
2529.64	0.75	90.28	2528.86	52.40	13.90	52.31	54.21	14.86	0.37
2623.98	1.11	107.70	2623.19	52.12	15.39	52.02	54.34	16.45	0.48
2718.32	1.42	109.81	2717.50	51.44	17.36	51.34	54.29	18.65	0.33
2812.66	1.56	169.59	2811.82	49.78	18.70	49.67	53.18	20.58	1.58
2907.00	1.52	156.26	2906.12	47.38	19.43	47.26	51.21	22.30	0.38
3001.34	1.47	148.76	3000.43	45.20	20.56	45.07	49.66	24.46	0.21
3095.68	1.47	141.14	3094.74	43.22	21.95	43.08	48.47	26.93	0.21
3190.02	1.24	141.97	3189.05	41.47	23.34	41.33	47.59	29.37	0.25

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
3284.36	2.25	102.00	3283.35	40.28	25.78	40.12	47.83	32.62	1.62
3378.70	2.32	99.49	3377.62	39.58	29.48	39.40	49.35	36.68	0.13
3473.04	1.72	85.62	3471.90	39.37	32.77	39.17	51.23	39.77	0.82
3567.38	1.67	82.75	3566.20	39.65	35.54	39.44	53.25	41.87	0.11
3661.72	1.55	78.32	3660.50	40.09	38.16	39.85	55.34	43.59	0.18
3756.06	3.04	72.27	3754.76	41.11	41.79	40.85	58.62	45.47	1.59
3850.40	4.14	68.84	3848.91	43.10	47.35	42.81	64.03	47.69	1.19
3944.74	3.77	63.30	3943.03	45.72	53.31	45.40	70.23	49.38	0.56
4039.08	4.86	65.99	4037.10	48.75	59.73	48.38	77.09	50.78	1.17
4133.42	5.85	68.02	4131.03	52.17	67.83	51.75	85.57	52.44	1.07
4227.76	5.76	72.43	4224.88	55.40	76.80	54.93	94.69	54.20	0.48
4322.10	5.61	72.23	4318.76	58.23	85.71	57.71	103.62	55.81	0.16
4416.44	4.40	77.94	4412.74	60.40	93.64	59.82	111.42	57.18	1.39
4510.78	3.85	87.36	4506.84	61.30	100.34	60.68	117.58	58.58	0.92
4605.12	3.34	93.15	4600.99	61.29	106.24	60.64	122.65	60.02	0.66
4699.46	3.01	107.57	4695.19	60.39	111.35	59.71	126.67	61.53	0.91
4793.80	2.83	117.14	4789.40	58.58	115.78	57.87	129.76	63.16	0.55
4888.14	2.88	130.30	4883.63	55.99	119.67	55.25	132.12	64.93	0.70
4982.48	2.43	144.36	4977.87	52.82	122.64	52.07	133.54	66.70	0.84
5076.82	2.04	160.69	5072.14	49.62	124.36	48.86	133.90	68.25	0.79
5171.16	1.68	184.64	5166.43	46.66	124.81	45.89	133.24	69.50	0.90
5265.50	1.43	192.58	5260.73	44.13	124.44	43.37	132.03	70.47	0.35
5359.84	0.76	186.17	5355.06	42.36	124.11	41.60	131.14	71.16	0.72
5454.18	0.36	165.08	5449.39	41.45	124.12	40.69	130.86	71.54	0.47
5548.52	0.69	142.17	5543.73	40.71	124.55	39.95	131.03	71.90	0.41
5642.86	0.70	106.93	5638.06	40.09	125.45	39.32	131.70	72.28	0.45
5737.20	0.77	90.22	5732.39	39.92	126.64	39.14	132.79	72.51	0.24
5831.54	0.67	76.62	5826.73	40.04	127.82	39.26	133.94	72.61	0.21
5925.88	0.98	77.42	5921.06	40.35	129.14	39.56	135.30	72.65	0.33
6020.22	0.82	76.66	6015.38	40.68	130.59	39.88	136.78	72.70	0.17
6114.56	0.74	83.07	6109.72	40.91	131.86	40.10	138.06	72.76	0.13
6208.90	0.58	86.71	6204.05	41.01	132.95	40.20	139.13	72.86	0.17
6303.24	0.51	112.00	6298.38	40.88	133.82	40.06	139.92	73.01	0.27
6397.58	0.48	117.06	6392.72	40.54	134.56	39.72	140.53	73.23	0.05
6491.92	0.59	119.92	6487.06	40.12	135.33	39.30	141.15	73.49	0.12
6586.26	0.71	120.35	6581.39	39.59	136.25	38.76	141.88	73.80	0.13
6680.60	0.68	121.69	6675.72	39.00	137.23	38.16	142.66	74.14	0.03
6774.94	0.73	126.46	6770.06	38.35	138.19	37.50	143.41	74.49	0.08
6869.28	0.72	129.01	6864.39	37.61	139.14	36.76	144.13	74.87	0.04
6963.62	0.98	156.52	6958.72	36.50	139.92	35.65	144.61	75.38	0.50
7057.96	0.80	164.25	7053.05	35.13	140.42	34.27	144.75	75.95	0.23
7152.30	0.58	176.14	7147.38	34.02	140.63	33.16	144.69	76.40	0.27
7246.64	0.55	189.37	7241.72	33.09	140.59	32.23	144.43	76.76	0.14
7340.98	0.59	198.67	7336.05	32.17	140.36	31.32	144.00	77.09	0.11
7435.32	0.76	207.92	7430.39	31.16	139.91	30.30	143.34	77.45	0.21
7529.66	0.49	214.88	7524.72	30.27	139.39	29.42	142.64	77.75	0.30
7624.00	0.34	218.71	7619.06	29.72	138.98	28.87	142.12	77.93	0.16
7644.00	0.14	226.23	7639.06	29.66	138.92	28.81	142.06	77.95	0.99

HORIZONTAL DISPLACEMENT IS
142.06 FEET AT 77.95 DEGREES



Weatherford

**DRILLING SERVICES
END OF WELL REPORT
FOR
Ryan Clark
Devon Energy
Cotton Draw Unit 116H
Eddy County, New Mexico**

Weatherford Drilling Services job start date : 6-13-2013

Weatherford Drilling Services job end date : 7-3-2013

Presented By:

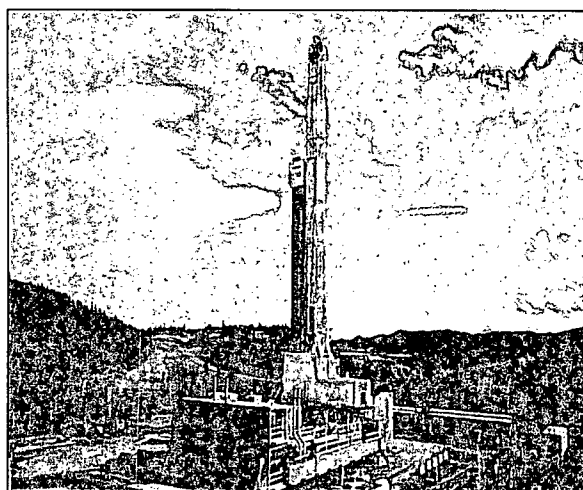
Damien Tarpley
Area Manager

Scott Dixon
Account Manager

Orry Armendariz
Directional Drilling Coordinator

Jesse Aguilar
MWD Coordinator

H&P 214





Weatherford

10000 West County Road 116
P.O. Box 61028
Midland, Texas 79711
Phone (432) 561-8892

July 9, 2013

Ryan Clark
333 W. Sherridan Ave
Oklahoma City, OK 73102

Reference Well Name : Cotton Draw Unit 116H
Location : Eddy County, New Mexico
Wft Job # : 4029718
Rig : H&P 214

Dear Mr. Clark

Thank you for allowing us the opportunity to provide our services on your Cotton Draw Unit 116H in Eddy County, New Mexico.

Please find the final End Of Well (EOW) report enclosed behind this coverletter.

The EOW report contains the following information :

Section 1 - Weatherford (Wft) Final Definitive Survey & 8.5" x 11".

* Note: This survey contains the Directional Survey's obtained by Weatherford Drilling Services via Weatherford MWD Services, and any gyro survey needed for Tie On (if required).

Section 2- Days vs. Feet Drilled (24 hrs) and Days vs. Depth Graphs

Section 3- Wft Gamma Logs

Section 4 - Wft Final BHA reports (BHA Graphic Reports, BHA Detail Reports, Motor Evaluation Reports, and BHA Slide Reports).

Section 5 - Wft Final Daily Drilling reports.

Section 6 - Wft Personnel list with contact numbers.

We at *Weatherford Drilling Services'* understand the importance of this project to you and hope that you were satisfied with our Directional Drilling and MWD services provided.

Please feel free to contact me if you have any questions.

Sincerely,

Damien Tarpley
Area Manager
Weatherford Drilling Services
Midland, TX (432) 561-8892



Weatherford®

Devon Energy
Cotton Draw Unit 116H
Eddy County, New Mexico

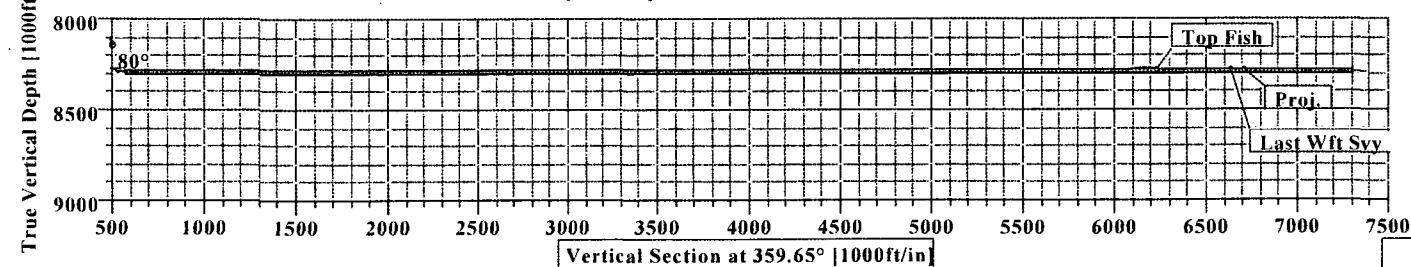
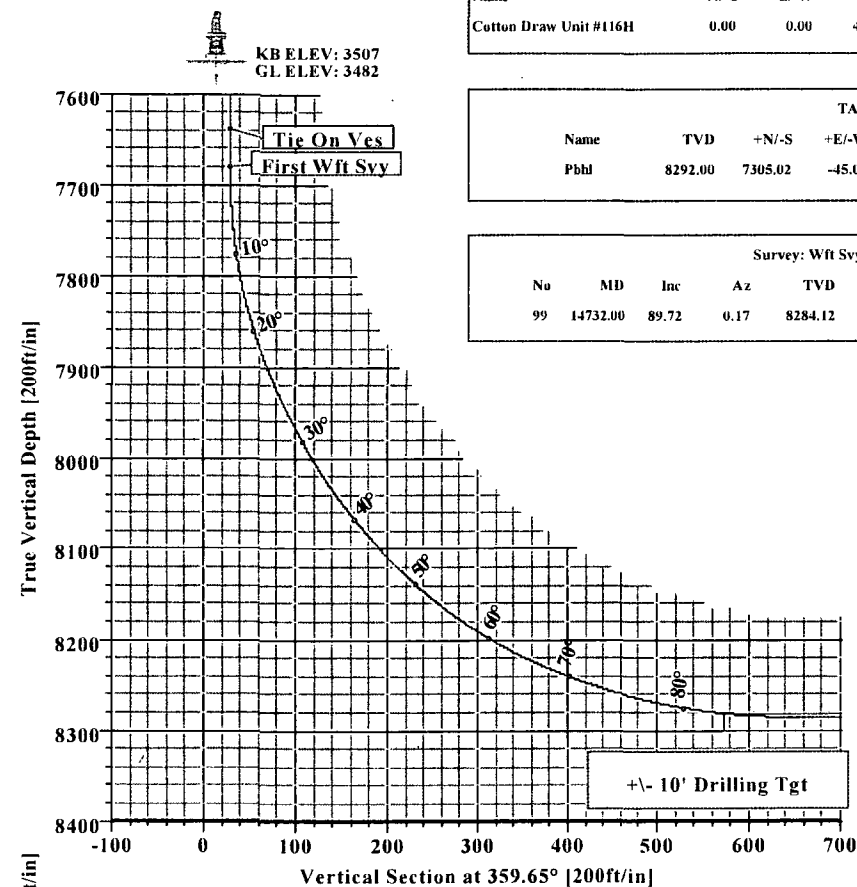
Section 1

Weatherford (Wft) Final Definitive

Plot & Survey



Cotton Draw Unit #116H
Eddy Co., NM



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7644.00	0.14	226.23	7639.06	29.66	138.92	0.00	0.00	28.80	
2	7690.00	0.14	226.23	7685.06	29.58	138.84	0.00	0.00	28.73	
3	8176.13	47.20	338.00	8118.10	204.56	67.51	9.72	111.89	204.14	
4	8658.99	90.00	359.65	8292.00	634.62	-4.40	9.73	30.29	634.64	
5	15329.51	90.00	359.65	8292.00	7305.02	-45.07	0.00	0.00	7305.16	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cotton Draw Unit #116H	0.00	0.00	425202.73	729773.73	32°10'02.973N	103°43'27.664W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8292.00	7305.02	-45.07	432507.75	729728.66	Rectangle (6733x50)

Survey: Wft Svy (Cotton Draw Unit #116H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
99	14732.00	89.72	0.17	8284.12	6710.24	-49.92	0.00	0.00	6710.42

SITE DETAILS

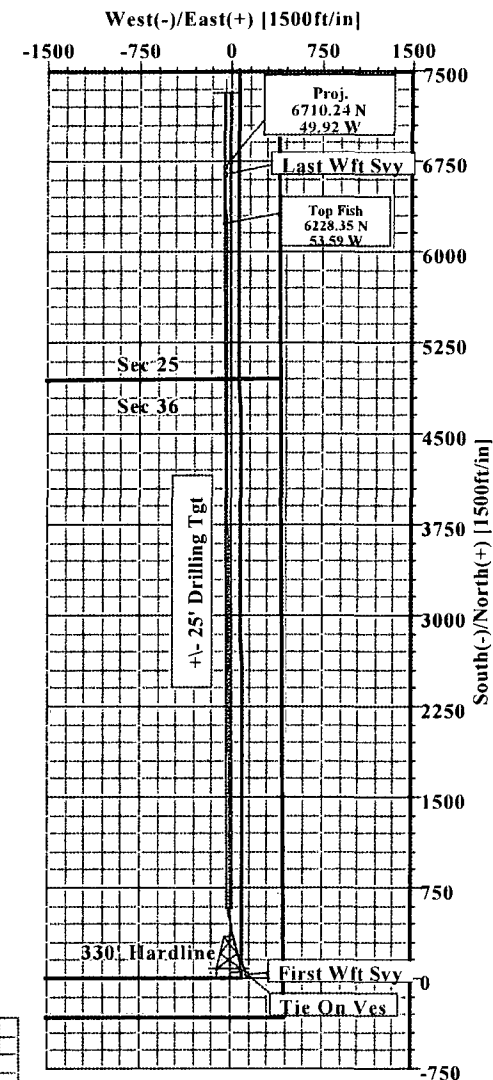
Cotton Draw Unit #116H
Site Centre Northing: 425202.73
Easting: 729773.73
Ground Level: 3482.00
Positional Uncertainty: 0.00
Convergence: 0.32

LEGEND

Cotton Draw Unit #116H, 1, Gyro
 Cotton Draw Unit #116H, 1, Plan #4
 Wft Svy



Weatherford



Survey: Wft Svy (Cotton Draw Unit #116H/1)

Created By: Russell W. Joyner

Date: 7/9/2013



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy		Date: 7/9/2013	Time: 15:51:04	Page: 1						
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: Cotton Draw Unit #116H, Grid North								
Site: Cotton Draw Unit #116H		Vertical (TVD) Reference: SITE 3507.0								
Well: Cotton Draw Unit #116H		Section (VS) Reference: Well (0.00N, 0.00E, 359.65Azi)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature								
		Db: Sybase								
Survey: Wft Svy		Start Date: 6/17/2013								
Company: Weatherford		Engineer: Russell W. Joyner								
Tool: MWD/MWD - Standard		Tied-to: User Defined								
Site: Cotton Draw Unit #116H										
Site Position:										
From: Map		Northing: 425202.73 ft	Latitude: 32 10 2.973 N							
Position Uncertainty: 0.00 ft		Easting: 729773.73 ft	Longitude: 103 43 27.664 W							
Ground Level: 3482.00 ft			North Reference: Grid							
			Grid Convergence: 0.32 deg							
Well: Cotton Draw Unit #116H										
Slot Name:										
Well Position: +N/-S 0.00 ft		Northing: 425202.73 ft	Latitude: 32 10 2.973 N							
+E/-W 0.00 ft		Easting: 729773.73 ft	Longitude: 103 43 27.664 W							
Position Uncertainty: 0.00 ft										
Wellpath: 1										
Current Datum: SITE		Height 3507.00 ft	Drilled From: Surface							
Magnetic Data: 10/1/2010			Tie-on Depth: 0.00 ft							
Field Strength: 48661 nT			Above System Datum: Mean Sea Level							
Vertical Section: Depth From (TVD)			Declination: 7.74 deg							
ft			Mag Dip Angle: 60.13 deg							
		+N/-S	+E/-W	Direction						
		ft	ft	deg						
0.00		0.00	0.00	359.65						
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	
7644.00	0.14	226.23	7639.06	29.66	138.92	0.00	28.80	425232.39	729912.65	Tie On Ves
7685.00	0.74	306.77	7680.06	29.78	138.67	1.78	28.93	425232.51	729912.40	First Wft Svy
7716.00	3.26	310.52	7711.04	30.48	137.84	8.14	29.63	425233.21	729911.57	
7748.00	6.76	318.60	7742.91	32.48	135.90	11.13	31.64	425235.21	729909.63	
7779.00	9.68	323.98	7773.59	35.96	133.16	9.73	35.14	425238.69	729906.89	
7810.00	13.04	326.80	7803.98	40.99	129.71	10.98	40.19	425243.72	729903.44	
7842.00	16.31	329.30	7834.93	47.88	125.44	10.41	47.11	425250.61	729899.17	
7873.00	20.27	330.59	7864.36	56.30	120.58	12.84	55.56	425259.03	729894.31	
7905.00	24.01	332.49	7893.99	66.91	114.85	11.90	66.20	425269.64	729888.58	
7936.00	26.93	334.87	7921.98	78.86	108.95	9.98	78.19	425281.59	729882.68	
7967.00	27.88	337.24	7949.50	91.90	103.17	4.67	91.27	425294.63	729876.90	
7998.00	29.43	339.25	7976.70	105.71	97.67	5.89	105.11	425308.44	729871.40	
8030.00	32.03	341.55	8004.21	121.12	92.19	8.92	120.54	425323.85	729865.92	
8061.00	35.34	342.21	8030.00	137.45	86.85	10.74	136.92	425340.18	729860.58	
8093.00	38.58	341.50	8055.57	155.73	80.86	10.21	155.23	425358.46	729854.59	
8124.00	41.32	340.59	8079.33	174.56	74.39	9.04	174.09	425377.29	729848.12	
8156.00	44.68	338.88	8102.73	195.02	66.82	11.11	194.61	425397.75	729840.55	
8187.00	47.71	337.65	8124.18	215.80	58.53	10.18	215.43	425418.53	729832.26	
8219.00	50.89	337.36	8145.05	238.21	49.25	9.96	237.90	425440.94	729822.98	
8250.00	53.80	339.75	8163.99	261.05	40.29	11.20	260.80	425463.78	729814.02	
8281.00	57.23	342.23	8181.54	285.21	31.98	12.88	285.00	425487.94	729805.71	
8313.00	59.73	343.97	8198.27	311.31	24.05	9.08	311.15	425514.04	729797.78	
8344.00	63.24	346.55	8213.07	337.64	17.13	13.48	337.53	425540.37	729790.86	
8376.00	66.13	349.01	8226.75	365.91	11.02	11.39	365.84	425568.64	729784.75	
8407.00	69.51	350.92	8238.45	394.17	6.02	12.31	394.13	425596.90	729779.75	
8438.00	71.19	351.42	8248.88	423.02	1.54	5.63	423.00	425625.75	729775.27	
8470.00	74.41	353.39	8258.34	453.32	-2.49	11.65	453.32	425656.05	729771.24	
8501.00	76.27	354.26	8266.18	483.13	-5.72	6.59	483.16	425685.86	729768.01	
8533.00	78.74	355.13	8273.11	514.24	-8.60	8.16	514.28	425716.97	729765.13	
8564.00	81.16	355.95	8278.52	544.67	-10.98	8.23	544.72	425747.40	729762.75	



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #116H
Well: Cotton Draw Unit #116H
Wellpath: 1

Date: 7/9/2013 Time: 15:51:04 Page: 2
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #116H, Grid North
Vertical (TVD) Reference: SITE 3507.0
Section (VS) Reference: Well (0.00N,0.00E,359.65Azi)
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
8596.00	84.18	357.00	8282.60	576.34	-12.93	9.98	576.41	425779.07	729760.80	
8627.00	87.13	357.29	8284.95	607.21	-14.47	9.56	607.29	425809.94	729759.26	
8658.00	88.88	358.46	8286.03	638.17	-15.61	6.79	638.25	425840.90	729758.12	
8689.00	89.58	359.23	8286.44	669.16	-16.24	3.36	669.25	425871.89	729757.49	
8738.00	89.79	359.46	8286.71	718.16	-16.80	0.64	718.25	425920.89	729756.93	
8832.00	90.07	0.09	8286.83	812.15	-17.17	0.73	812.24	426014.88	729756.56	
8926.00	89.44	359.82	8287.23	906.15	-17.24	0.73	906.24	426108.88	729756.49	
9021.00	87.97	359.62	8289.38	1001.12	-17.71	1.56	1001.21	426203.85	729756.02	
9115.00	86.99	359.93	8293.51	1095.03	-18.07	1.09	1095.12	426297.76	729755.66	
9209.00	88.18	0.26	8297.47	1188.95	-17.92	1.31	1189.03	426391.68	729755.81	
9284.00	88.46	0.38	8299.67	1263.91	-17.50	0.41	1264.00	426466.64	729756.23	
9378.00	89.44	359.81	8301.39	1357.90	-17.34	1.21	1357.98	426560.63	729756.39	
9473.00	92.17	359.83	8300.06	1452.88	-17.64	2.87	1452.96	426655.61	729756.09	
9567.00	91.82	359.45	8296.78	1546.82	-18.23	0.55	1546.90	426749.55	729755.50	
9661.00	90.70	359.02	8294.72	1640.78	-19.49	1.28	1640.87	426843.51	729754.24	
9756.00	89.09	358.99	8294.89	1735.77	-21.14	1.70	1735.86	426938.50	729752.59	
9850.00	89.65	359.01	8295.92	1829.75	-22.78	0.60	1829.85	427032.48	729750.95	
9944.00	90.07	359.09	8296.15	1923.73	-24.34	0.45	1923.85	427126.46	729749.39	
10038.00	90.77	359.91	8295.46	2017.73	-25.16	1.15	2017.84	427220.46	729748.57	
10132.00	89.72	359.69	8295.06	2111.72	-25.48	1.14	2111.84	427314.45	729748.25	
10227.00	90.56	0.27	8294.83	2206.72	-25.52	1.07	2206.84	427409.45	729748.21	
10320.00	90.56	0.56	8293.92	2299.71	-24.84	0.31	2299.82	427502.44	729748.89	
10415.00	92.38	358.89	8291.48	2394.67	-25.30	2.60	2394.78	427597.40	729748.43	
10509.00	92.66	358.56	8287.35	2488.56	-27.39	0.46	2488.68	427691.29	729746.34	
10603.00	92.66	358.38	8282.99	2582.43	-29.90	0.19	2582.56	427785.16	729743.83	
10698.00	92.38	358.40	8278.81	2677.30	-32.56	0.30	2677.45	427880.03	729741.17	
10792.00	90.14	358.91	8276.75	2771.24	-34.77	2.44	2771.40	427973.97	729738.96	
10886.00	90.21	358.91	8276.46	2865.22	-36.56	0.07	2865.39	428067.95	729737.17	
10981.00	89.72	359.57	8276.52	2960.21	-37.82	0.87	2960.39	428162.94	729735.91	
11075.00	88.88	0.90	8277.66	3054.20	-37.43	1.67	3054.38	428256.93	729736.30	
11170.00	87.41	1.28	8280.74	3149.13	-35.63	1.60	3149.29	428351.86	729738.10	
11264.00	86.71	0.38	8285.56	3243.00	-34.26	1.21	3243.15	428445.73	729739.47	
11358.00	87.13	359.91	8290.61	3336.86	-34.03	0.67	3337.01	428539.59	729739.70	
11452.00	89.16	0.14	8293.65	3430.81	-33.99	2.17	3430.95	428633.54	729739.74	
11547.00	90.91	0.56	8293.60	3525.80	-33.41	1.89	3525.94	428728.53	729740.32	
11641.00	90.98	0.77	8292.05	3619.78	-32.32	0.24	3619.91	428822.51	729741.41	
11736.00	92.24	0.20	8289.38	3714.74	-31.51	1.46	3714.86	428917.47	729742.22	
11830.00	90.28	358.53	8287.31	3808.70	-32.55	2.74	3808.83	429011.43	729741.18	
11925.00	90.70	358.55	8286.50	3903.67	-34.97	0.44	3903.81	429106.40	729738.76	
12019.00	89.44	358.66	8286.38	3997.64	-37.26	1.35	3997.79	429200.37	729736.47	
12114.00	91.68	358.97	8285.45	4092.61	-39.23	2.38	4092.77	429295.34	729734.50	
12208.00	90.07	358.94	8284.02	4186.58	-40.94	1.71	4186.75	429389.31	729732.79	
12302.00	89.37	359.19	8284.48	4280.56	-42.47	0.79	4280.74	429483.29	729731.26	
12396.00	88.88	358.97	8285.91	4374.54	-43.98	0.57	4374.73	429577.27	729729.75	
12494.00	90.98	359.60	8286.03	4472.53	-45.21	2.24	4472.72	429675.26	729728.52	
12589.00	90.63	359.50	8284.70	4567.51	-45.95	0.38	4567.71	429770.24	729727.78	
12683.00	90.07	359.69	8284.12	4661.51	-46.62	0.63	4661.71	429864.24	729727.11	
12778.00	89.09	359.16	8284.82	4756.50	-47.57	1.17	4756.70	429959.23	729726.16	
12872.00	90.42	0.09	8285.22	4850.49	-48.19	1.73	4850.70	430053.22	729725.54	
12966.00	90.63	0.36	8284.36	4944.49	-47.82	0.36	4944.69	430147.22	729725.91	
13060.00	90.35	359.79	8283.56	5038.49	-47.69	0.68	5038.68	430241.22	729726.04	
13155.00	89.65	359.16	8283.56	5133.48	-48.56	0.99	5133.68	430336.21	729725.17	



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy Date: 7/9/2013 Time: 15:51:04 Page: 3
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Cotton Draw Unit #116H, Grid North
Site: Cotton Draw Unit #116H Vertical (TVD) Reference: SITE 3507.0
Well: Cotton Draw Unit #116H Section (VS) Reference: Well (0.00N,0.00E,359.65Azi)
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
13249.00	88.60	358.69	8284.99	5227.45	-50.33	1.22	5227.66	430430.18	729723.40	
13343.00	90.42	359.64	8285.80	5321.43	-51.70	2.18	5321.65	430524.16	729722.03	
13438.00	90.91	359.89	8284.69	5416.43	-52.09	0.58	5416.64	430619.16	729721.64	
13532.00	91.26	0.17	8282.91	5510.41	-52.04	0.48	5510.63	430713.14	729721.69	
13627.00	90.98	0.12	8281.06	5605.39	-51.80	0.30	5605.60	430808.12	729721.93	
13721.00	90.84	359.99	8279.56	5699.38	-51.71	0.20	5699.59	430902.11	729722.02	
13815.00	90.00	0.02	8278.88	5793.38	-51.70	0.89	5793.58	430996.11	729722.03	
13910.00	90.07	359.82	8278.82	5888.37	-51.83	0.22	5888.58	431091.10	729721.90	
14004.00	90.56	359.58	8278.30	5982.37	-52.32	0.58	5982.58	431185.10	729721.41	
14099.00	91.19	359.41	8276.85	6077.36	-53.16	0.69	6077.57	431280.09	729720.57	
14193.00	89.86	359.90	8275.99	6171.35	-53.73	1.51	6171.56	431374.08	729720.00	
14250.00	89.23	0.37	8276.44	6228.35	-53.59	1.38	6228.56	431431.08	729720.14	Top Fish
14288.00	88.81	0.69	8277.09	6266.34	-53.24	1.38	6266.55	431469.07	729720.49	
14382.00	89.65	1.36	8278.35	6360.31	-51.56	1.14	6360.51	431563.04	729722.17	
14476.00	88.39	0.00	8279.96	6454.29	-50.44	1.97	6454.48	431657.02	729723.29	
14570.00	88.60	0.11	8282.43	6548.26	-50.35	0.25	6548.44	431750.99	729723.38	
14662.00	89.72	0.17	8283.78	6640.25	-50.13	1.22	6640.43	431842.98	729723.60	Last Wft Svy
14732.00	89.72	0.17	8284.12	6710.24	-49.92	0.00	6710.42	431912.97	729723.81	Proj.

Annotation

MD ft	TVD ft	
7644.00	7639.06	Tie On Ves
7685.00	7680.06	First Wft Svy
14250.00	8276.44	Top Fish
14662.00	8283.78	Last Wft Svy
14732.00	8284.12	Proj.