



A GYRO TECHNOLOGIES INC. COMPANY

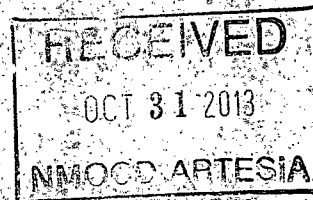
PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

June 19, 2013

30-015-37926

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

Attn: Patti Riechers



Re: Cotton Draw Unit No. 116H

Please find enclosed a copy of the survey from 0.00' to 7644.00' 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

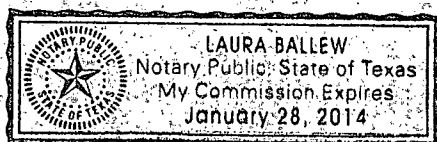
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 19th day of June, A.D. 2013, by Keith Havelka.


Laura Ballew
Notary Public, State of Texas





Company: Devon Energy Production Co., LP
 Lease/Well: Cotton Draw Unit /No.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: 0.00 Degrees



Depth Reference : RKB 25 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: cotton draw unit #116-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/19/2013 / 13:51

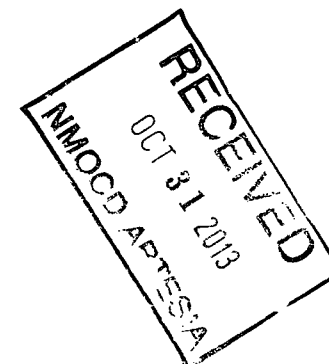
Vaughn Energy Services

West, Texas

432-563-5444

Surveyor: Chris Bankson

Cotton Draw Unit No. 116H / API 30-015-37926



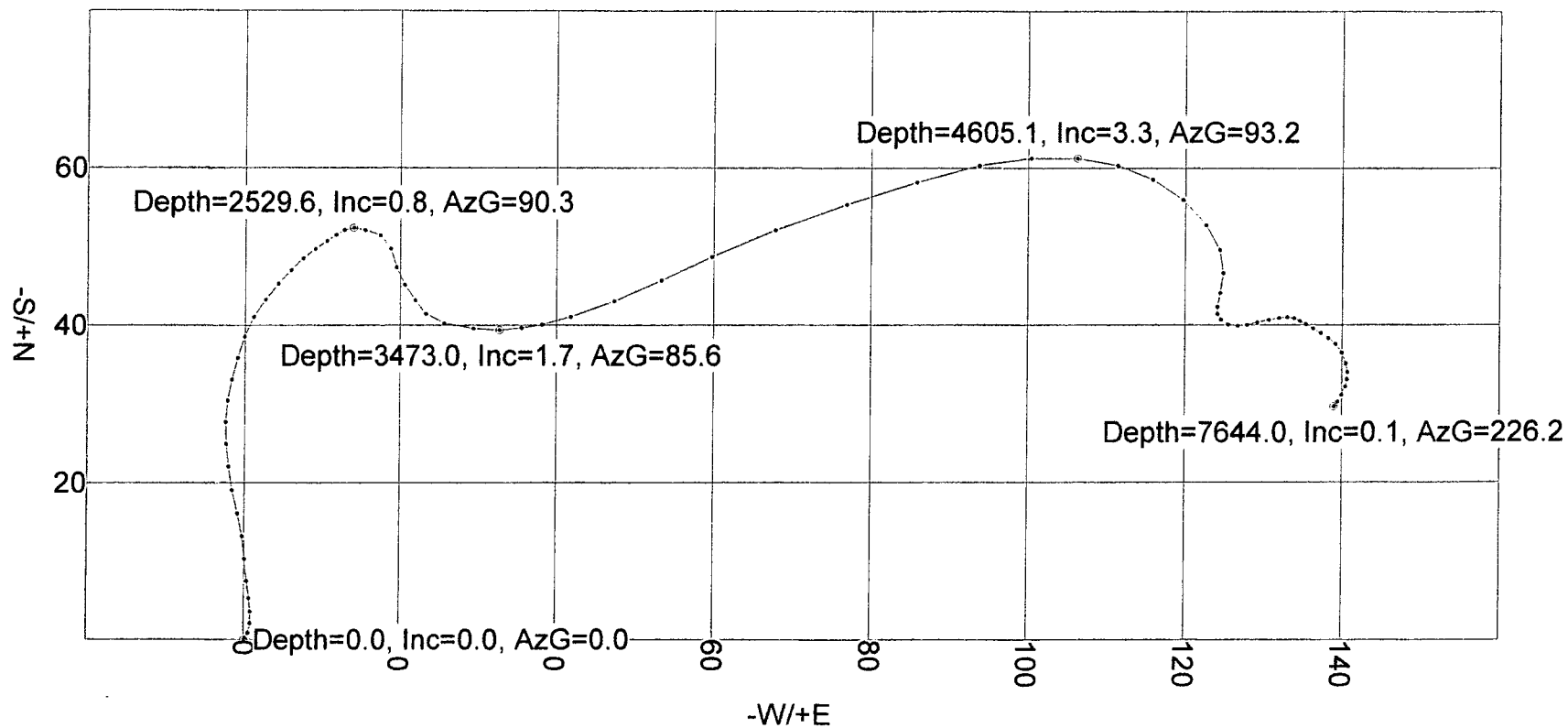
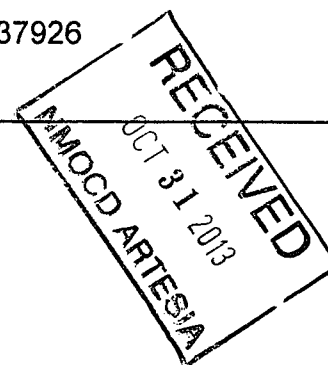
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
76.80	0.32	33.45	76.80	0.18	0.12	0.18	0.22	33.45	0.42
171.14	0.66	22.76	171.14	0.91	0.48	0.91	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	3.63	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	7.58	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	16.13	16.16	356.56	0.45
925.86	1.87	351.74	925.61	19.09	-1.68	19.09	19.17	354.98	0.36
1020.20	1.79	351.14	1019.90	22.08	-2.13	22.08	22.18	354.50	0.09
1114.54	1.73	356.13	1114.20	24.96	-2.45	24.96	25.07	354.40	0.18
1208.88	1.63	0.52	1208.50	27.72	-2.53	27.72	27.83	354.78	0.17
1303.22	1.69	9.40	1302.80	30.43	-2.29	30.43	30.52	355.69	0.28
1397.56	1.63	13.91	1397.10	33.11	-1.74	33.11	33.15	356.99	0.15
1491.90	1.79	16.00	1491.40	35.83	-1.01	35.83	35.84	358.38	0.18
1586.24	1.68	19.80	1586.69	38.55	-0.14	38.55	38.55	359.80	0.17
1680.58	1.70	29.83	1679.99	41.07	1.03	41.07	41.08	1.43	0.31

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
1774.92	1.60	39.04	1774.29	43.31	2.55	43.31	43.38	3.38	0.30
1869.26	1.53	41.00	1868.60	45.28	4.21	45.28	45.47	5.31	0.10
1963.60	1.40	45.53	1962.91	47.03	5.86	47.03	47.40	7.10	0.18
2057.94	1.23	48.20	2057.22	48.52	7.43	48.52	49.08	8.71	0.20
2152.28	1.15	56.80	2151.54	49.71	8.98	49.71	50.51	10.24	0.21
2246.62	1.02	55.01	2245.86	50.70	10.45	50.70	51.77	11.65	0.14
2340.96	0.76	58.10	2340.19	51.52	11.67	51.52	52.82	12.77	0.28
2435.30	0.73	62.81	2434.53	52.12	12.74	52.12	53.66	13.74	0.07
2529.64	0.75	90.28	2528.86	52.40	13.90	52.40	54.21	14.86	0.37
2623.98	1.11	107.70	2623.19	52.12	15.39	52.12	54.34	16.45	0.48
2718.32	1.42	109.81	2717.50	51.44	17.36	51.44	54.29	18.65	0.33
2812.66	1.56	169.59	2811.82	49.78	18.70	49.78	53.18	20.58	1.58
2907.00	1.52	156.26	2906.12	47.38	19.43	47.38	51.21	22.30	0.38
3001.34	1.47	148.76	3000.43	45.20	20.56	45.20	49.66	24.46	0.21
3095.68	1.47	141.14	3094.74	43.22	21.95	43.22	48.47	26.93	0.21
3190.02	1.24	141.97	3189.05	41.47	23.34	41.47	47.59	29.37	0.25
3284.36	2.25	102.00	3283.35	40.28	25.78	40.28	47.83	32.62	1.62
3378.70	2.32	99.49	3377.62	39.58	29.48	39.58	49.35	36.68	0.13
3473.04	1.72	85.62	3471.90	39.37	32.77	39.37	51.23	39.77	0.82
3567.38	1.67	82.75	3566.20	39.65	35.54	39.65	53.25	41.87	0.11
3661.72	1.55	78.32	3660.50	40.09	38.16	40.09	55.34	43.59	0.18
3756.06	3.04	72.27	3754.76	41.11	41.79	41.11	58.62	45.47	1.59
3850.40	4.14	68.84	3848.91	43.10	47.35	43.10	64.03	47.69	1.19
3944.74	3.77	63.30	3943.03	45.72	53.31	45.72	70.23	49.38	0.56
4039.08	4.86	65.99	4037.10	48.75	59.73	48.75	77.09	50.78	1.17
4133.42	5.85	68.02	4131.03	52.17	67.83	52.17	85.57	52.44	1.07
4227.76	5.76	72.43	4224.88	55.40	76.80	55.40	94.69	54.20	0.48
4322.10	5.61	72.23	4318.76	58.23	85.71	58.23	103.62	55.81	0.16
4416.44	4.40	77.94	4412.74	60.40	93.64	60.40	111.42	57.18	1.39
4510.78	3.85	87.36	4506.84	61.30	100.34	61.30	117.58	58.58	0.92
4605.12	3.34	93.15	4600.99	61.29	106.24	61.29	122.65	60.02	0.66
4699.46	3.01	107.57	4695.19	60.39	111.35	60.39	126.67	61.53	0.91
4793.80	2.83	117.14	4789.40	58.58	115.78	58.58	129.76	63.16	0.55
4888.14	2.88	130.30	4883.63	55.99	119.67	55.99	132.12	64.93	0.70
4982.48	2.43	144.36	4977.87	52.82	122.64	52.82	133.54	66.70	0.84
5076.82	2.04	160.69	5072.14	49.62	124.36	49.62	133.90	68.25	0.79
5171.16	1.68	184.64	5166.43	46.66	124.81	46.66	133.24	69.50	0.90
5265.50	1.43	192.58	5260.73	44.13	124.44	44.13	132.03	70.47	0.35
5359.84	0.76	186.17	5355.06	42.36	124.11	42.36	131.14	71.16	0.72

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
5454.18	0.36	165.08	5449.39	41.45	124.12	41.45	130.86	71.54	0.47
5548.52	0.69	142.17	5543.73	40.71	124.55	40.71	131.03	71.90	0.41
5642.86	0.70	106.93	5638.06	40.09	125.45	40.09	131.70	72.28	0.45
5737.20	0.77	90.22	5732.39	39.92	126.64	39.92	132.79	72.51	0.24
5831.54	0.67	76.62	5826.73	40.04	127.82	40.04	133.94	72.61	0.21
5925.88	0.98	77.42	5921.06	40.35	129.14	40.35	135.30	72.65	0.33
6020.22	0.82	76.66	6015.38	40.68	130.59	40.68	136.78	72.70	0.17
6114.56	0.74	83.07	6109.72	40.91	131.86	40.91	138.06	72.76	0.13
6208.90	0.58	86.71	6204.05	41.01	132.95	41.01	139.13	72.86	0.17
6303.24	0.51	112.00	6298.38	40.88	133.82	40.88	139.92	73.01	0.27
6397.58	0.48	117.06	6392.72	40.54	134.56	40.54	140.53	73.23	0.05
6491.92	0.59	119.92	6487.06	40.12	135.33	40.12	141.15	73.49	0.12
6586.26	0.71	120.35	6581.39	39.59	136.25	39.59	141.88	73.80	0.13
6680.60	0.68	121.69	6675.72	39.00	137.23	39.00	142.66	74.14	0.03
6774.94	0.73	126.46	6770.06	38.35	138.19	38.35	143.41	74.49	0.08
6869.28	0.72	129.01	6864.39	37.61	139.14	37.61	144.13	74.87	0.04
6963.62	0.98	156.52	6958.72	36.50	139.92	36.50	144.61	75.38	0.50
7057.96	0.80	164.25	7053.05	35.13	140.42	35.13	144.75	75.95	0.23
7152.30	0.58	176.14	7147.38	34.02	140.63	34.02	144.69	76.40	0.27
7246.64	0.55	189.37	7241.72	33.09	140.59	33.09	144.43	76.76	0.14
7340.98	0.59	198.67	7336.05	32.17	140.36	32.17	144.00	77.09	0.11
7435.32	0.76	207.92	7430.39	31.16	139.91	31.16	143.34	77.45	0.21
7529.66	0.49	214.88	7524.72	30.27	139.39	30.27	142.64	77.75	0.30
7624.00	0.34	218.71	7619.06	29.72	138.98	29.72	142.12	77.93	0.16
7644.00	0.14	226.23	7639.06	29.66	138.92	29.66	142.06	77.95	0.99



Vaughn Energy Services
West, Texas
432-563-5444
Surveyor: Chris Bankson
Cotton Draw Unit No. 116H / API 30-015-37926





**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:

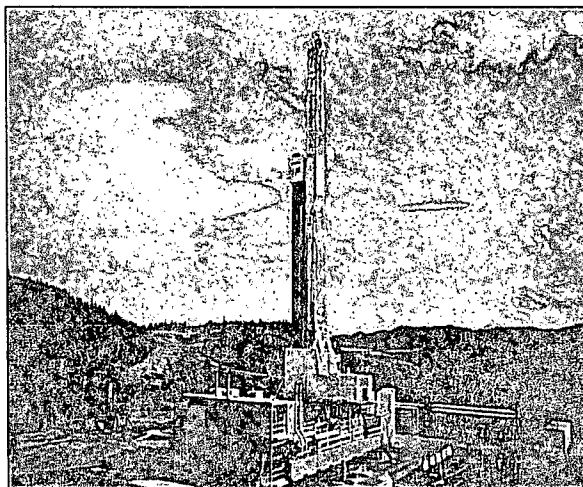
Damien Tarpley
Area Manager

Scott Dixon
Account Manager

Orry Armendariz
Directional Drilling Coordinator

Jesse Aguilar
MWD Coordinator

H&P 214





Weatherford®

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

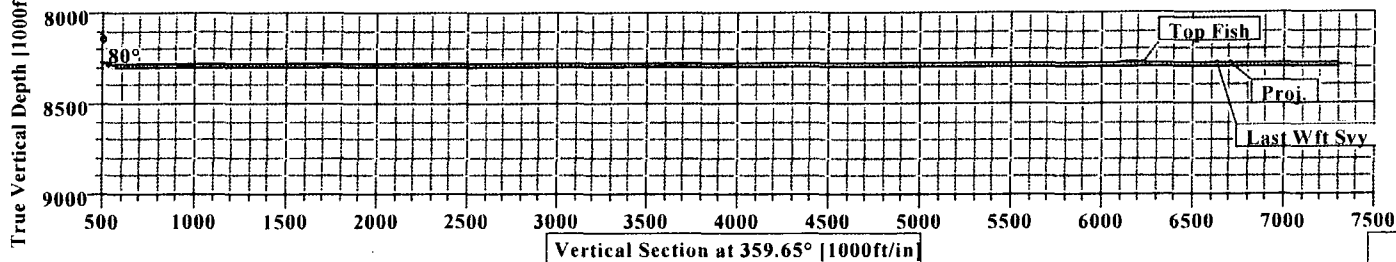
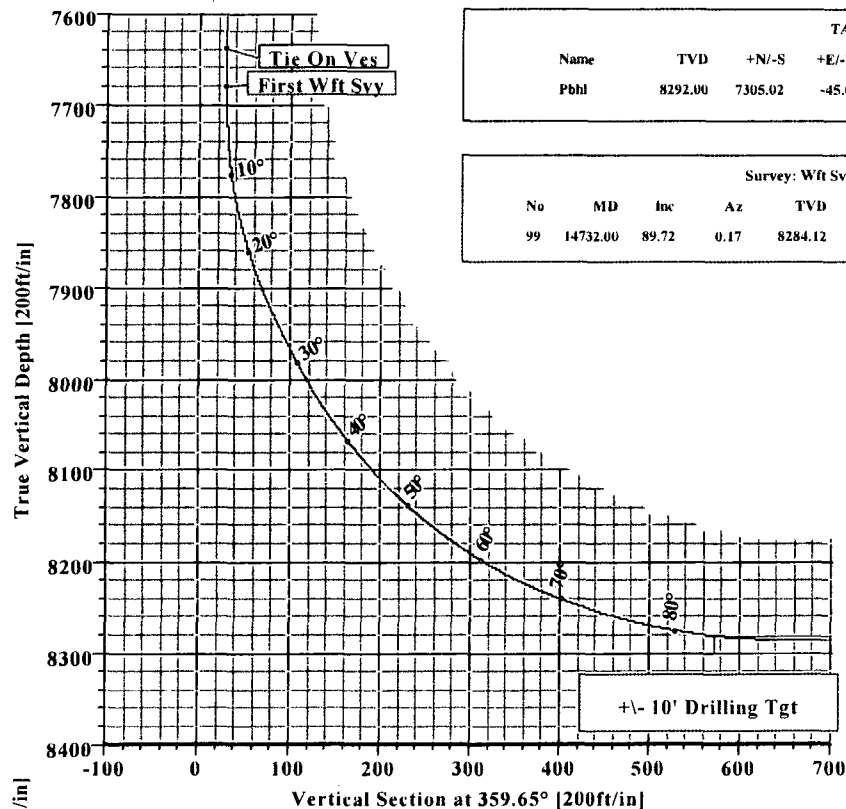
Section 1

Weatherford (Wft) Final Definitive
Plot & Survey



Cotton Draw Unit #116H
Eddy Co., NM

KB ELEV: 3507
GL ELEV: 3482



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

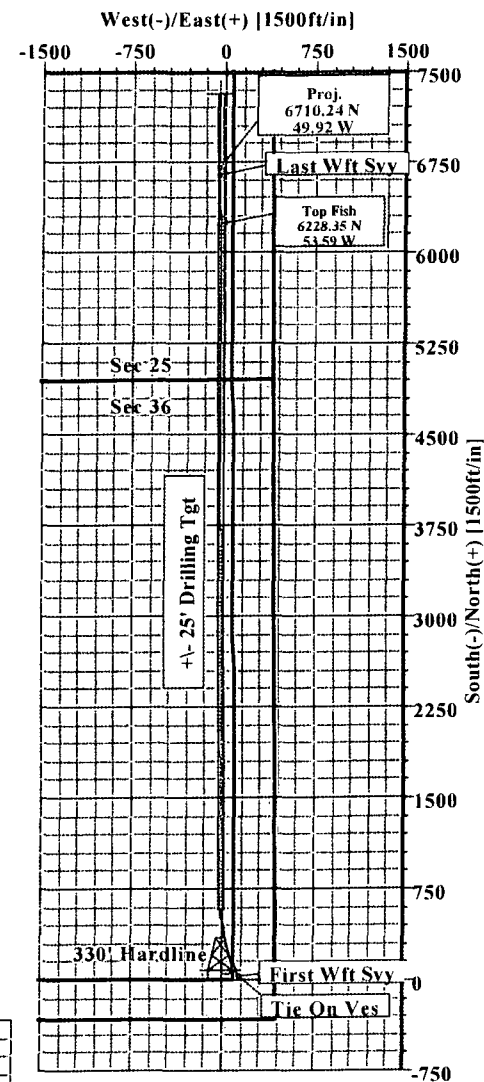
Ground Level: 3482.00
Positional Uncertainty: 0.00
Convergence: 0.32

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: Northing: 425202.73 ft Latitude: 32 10 2.973 N
From: Map Easting: 729773.73 ft Longitude: 103 43 27.664 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3482.00 ft 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	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 10/1/2010	Above System Datum: Mean Sea Level
Field Strength: 48661 nT	Declination: 7.74 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.13 deg
ft	+E/-W Direction
0.00	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	Date: 7/9/2013	Time: 15:51:04	Page: 2
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
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.



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
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
Page: 3
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.



COTTON DRAW UNIT 116H

WEST UNRESTRICTED

Perforation Summary

District		County		Field Name		Project Group		State/Province							
PERMIAN BASIN		EDDY		PADUCA		DELAWARE BASIN		NM							
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Ground Elev MSL (ft)		KB - Ground Level (ft)		Orig KB Elevation (ft)		Tubing Head Elevation (ft)	
SEC36 T24S R31E		3001537926		32° 10' 2.981" N		103° 43' 27.647" W		3,482.40		25.00		3,507.40			
Date	Zone	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Current Status	Carrier Des	Gun Size (in)	Charge Type	Chg Sz (g)	Shot Dens (shots/ft)	Phasing (°)	Conveyance Method		
7/28/2013	DELAWARE, OH	8,480.0	8,261.0	8,482.0	8,261.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,560.0	8,277.9	8,562.0	8,278.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,640.0	8,285.5	8,642.0	8,285.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,720.0	8,286.6	8,722.0	8,286.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,800.0	8,286.8	8,802.0	8,286.8			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,880.0	8,286.9	8,882.0	8,286.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	8,960.0	8,287.7	8,962.0	8,287.8			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,040.0	8,290.1	9,042.0	8,290.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,120.0	8,293.8	9,122.0	8,293.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,200.0	8,297.2	9,202.0	8,297.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,280.0	8,299.6	9,282.0	8,299.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,360.0	8,301.2	9,362.0	8,301.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,440.0	8,301.0	9,442.0	8,301.0			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,520.0	8,298.3	9,522.0	8,298.3			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,600.0	8,295.8	9,602.0	8,295.8			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/28/2013	DELAWARE, OH	9,680.0	8,294.5	9,682.0	8,294.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	9,760.0	8,295.0	9,762.0	8,295.0			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	9,840.0	8,295.9	9,842.0	8,295.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	9,920.0	8,296.2	9,922.0	8,296.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,000.0	8,295.9	10,002.0	8,295.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,080.0	8,295.1	10,082.0	8,295.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,160.0	8,295.1	10,162.0	8,295.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,240.0	8,294.7	10,242.0	8,294.7			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,320.0	8,293.9	10,322.0	8,293.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,400.0	8,292.1	10,402.0	8,292.0			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,480.0	8,288.7	10,482.0	8,288.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,560.0	8,285.0	10,562.0	8,284.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/27/2013	DELAWARE, OH	10,640.0	8,281.3	10,642.0	8,281.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	10,720.0	8,278.0	10,722.0	8,277.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	10,800.0	8,276.7	10,802.0	8,276.7			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	10,880.0	8,276.5	10,882.0	8,276.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	10,960.0	8,276.4	10,962.0	8,276.4			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,040.0	8,277.1	11,042.0	8,277.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,120.0	8,278.8	11,122.0	8,278.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,200.0	8,282.2	11,202.0	8,282.3			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,280.0	8,286.5	11,282.0	8,286.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,360.0	8,290.7	11,362.0	8,290.8			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,440.0	8,293.5	11,442.0	8,293.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,520.0	8,293.9	11,522.0	8,293.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/24/2013	DELAWARE, OH	11,600.0	8,292.7	11,602.0	8,292.7			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		



COTTON DRAW UNIT 116H

WEST UNRESTRICTED

Perforation Summary

District		County		Field Name		Project Group		State/Province							
PERMIAN BASIN		EDDY		PADUCA		DELAWARE BASIN		NM							
Surface Legal Location		API/UWI		Latitude (°)		Longitude (°)		Ground Elev MSL (ft)		KB - Ground Level (ft)		Orig KB Elevation (ft)		Tubing Head Elevation (ft)	
SEC36 T24S R31E		3001537926		32° 10' 2.981" N		103° 43' 27.647" W		3,482.40		25.00		3,507.40			
Date	Zone	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Current Status	Carrier Des	Gun Size (in)	Charge Type	Chg Sz (g)	Shot Dens (shots/ft)	Phasing (%)	Conveyance Method		
7/23/2013	DELAWARE, OH	11,680.0	8,291.2	11,682.0	8,291.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	11,760.0	8,288.5	11,762.0	8,288.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	11,840.0	8,287.3	11,842.0	8,287.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	11,920.0	8,286.6	11,922.0	8,286.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,000.0	8,286.2	12,002.0	8,286.3			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,080.0	8,286.2	12,082.0	8,286.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,160.0	8,284.4	12,162.0	8,284.4			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,240.0	8,284.0	12,242.0	8,284.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,320.0	8,284.7	12,322.0	8,284.7			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,400.0	8,286.0	12,402.0	8,286.0			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,480.0	8,286.2	12,482.0	8,286.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,560.0	8,285.0	12,562.0	8,285.0			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,640.0	8,284.3	12,642.0	8,284.3			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,720.0	8,284.2	12,722.0	8,284.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,800.0	8,285.1	12,802.0	8,285.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,880.0	8,285.2	12,882.0	8,285.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	12,960.0	8,284.4	12,962.0	8,284.4			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	13,040.0	8,283.7	13,042.0	8,283.7			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	13,120.0	8,283.4	13,122.0	8,283.4			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/23/2013	DELAWARE, OH	13,200.0	8,284.0	13,202.0	8,284.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,280.0	8,285.6	13,282.0	8,285.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,360.0	8,285.7	13,362.0	8,285.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,440.0	8,284.7	13,442.0	8,284.6			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,520.0	8,283.2	13,522.0	8,283.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,600.0	8,281.5	13,602.0	8,281.5			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,680.0	8,280.2	13,682.0	8,280.2			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,760.0	8,279.1	13,762.0	8,279.1			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/22/2013	DELAWARE, OH	13,840.0	8,278.9	13,842.0	8,278.9			3 1/8	SHAPED	23.0	6.0	60	WIRELINE		
7/19/2013	DELAWARE, OH	13,920.0	8,278.8	13,922.0	8,278.8			3 1/8	SHAPED	23.0	6.0	60	TUBING		
7/19/2013	DELAWARE, OH	14,000.0	8,278.3	14,002.0	8,278.3			3 1/8	SHAPED	23.0	6.0	60	TUBING		
7/19/2013	DELAWARE, OH	14,080.0	8,277.2	14,082.0	8,277.2			3 1/8	SHAPED	23.0	6.0	60	TUBING		
7/19/2013	DELAWARE, OH	14,160.0	8,276.0	14,162.0	8,276.0			3 1/8	SHAPED	23.0	6.0	60	TUBING		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
911 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

OCT 31 2013

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-37926		² Pool Code		³ Pool Name Lower Brushy Canyon; Delaware	
⁴ Property Code 300635		⁵ Property Name COTTON DRAW UNIT			⁶ Well Number 116H
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			⁹ Elevation 3482.4
¹⁰ Surface Location					
UL or lot no. P	Section 36	Township 24 S	Range 31 E	Lot Idn	Feet from the 330
					North/South line SOUTH
					Feet from the 430
					East/West line EAST
					County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. I	Section 25	Township 24 S	Range 31 E	Lot Idn	Feet from the 3497
					North/South line SOUTH
					Feet from the 492
					East/West line EAST
					County EDDY
¹² Dedicated Acres 240		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ 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. = 32.1956016°N LONG. = 103.7400459°W NMSP EAST (FT) N = 435406.53 E = 724859.44 W/4 CORNER SEC. 25 LAT. = 32.1883438°N LONG. = 103.7400432°W NMSP EAST (FT) N = 432790.23 E = 724874.85 SECTION CORNER LAT. = 32.1810843°N LONG. = 103.7400380°W NMSP EAST (FT) N = 430119.30 E = 724891.03 W/4 CORNER SEC. 36 LAT. = 32.1738255°N LONG. = 103.7400604°W NMSP EAST (FT) N = 427478.61 E = 724898.64 SW CORNER SEC. 36 LAT. = 32.1665604°N LONG. = 103.7400852°W NMSP EAST (FT) N = 424872.03 E = 724905.34		N/4 CORNER SEC. 25 LAT. = 32.1956042°N LONG. = 103.7315139°W NMSP EAST (FT) N = 435416.14 E = 727488.70 PP: 331 FSL & 431 FEL Sec. 36-24S-31E Project Area: SEC. 25 Producing Area: SEC. 25 BOTTOM OF HOLE LAT. = 32.1875752°N LONG. = 103.7243585°W NMSP EAST (FT) N = 432507.75 E = 729728.66 QUARTER CORNER LAT. = 32.1810872°N LONG. = 103.7315028°W NMSP EAST (FT) N = 430135.04 E = 727531.69 S/4 CORNER SEC. 36 LAT. = 32.1666199°N LONG. = 103.7315230°W NMSP EAST (FT) N = 424872.00 E = 727554.88		NE CORNER SEC. 25 LAT. = 32.1956015°N LONG. = 103.7229271°W NMSP EAST (FT) N = 435430.08 E = 730140.59 E/4 CORNER SEC. 25 LAT. = 32.1883465°N LONG. = 103.7229690°W NMSP EAST (FT) N = 432790.77 E = 730156.93 SECTION CORNER LAT. = 32.1810898°N LONG. = 103.7229679°W NMSP EAST (FT) N = 430150.88 E = 730172.25 E/4 CORNER SEC. 36 LAT. = 32.1738293°N LONG. = 103.7229618°W NMSP EAST (FT) N = 427509.60 E = 730189.13 SE CORNER SEC. 36 LAT. = 32.1665815°N LONG. = 103.7229585°W NMSP EAST (FT) N = 424872.96 E = 730205.72	
--	--	--	--	--	--

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.

Signature: *Patti Riechers* Date: _____
Patti Riechers, Regulatory Specialist
Printed Name: _____
Patti Riechers@dvn.com
E-mail Address: _____

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.

FEBRUARY 28, 2013
Date of Survey: _____
Signature and Seal of Professional Surveyor: *Amador Jaramillo*
Certificate Number: _____
SURVEY NO. 1638