

Devon Energy

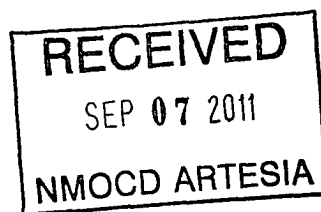
Eddy County

Sec 3-T24S-R31E

Cotton Draw Unit #155

30-015-38607

Wellbore #1



Survey: Survey #2

Standard Survey Report

05 July, 2011

Great White Directional Services

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well: Cotton Draw Unit #155
Project:	Eddy County	TVD Reference:	WELL @ 3524.0usft (Original Well Elev)
Site:	Sec 3-T24S-R31E	MD Reference:	WELL @ 3524.0usft (Original Well Elev)
Well:	Cotton Draw Unit #155	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000 1 Single User Db

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

Site:		Sec 3-T24S-R31E			
Site Position:		Northing:	429,857.47 usft	Latitude:	32° 10' 49.419 N
From:	Map	Easting:	722,917.90 usft	Longitude:	103° 44' 47.112 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.31 °

Well:	Cotton Draw Unit #155					
Well Position	+N/-S	0.0 usft	Northing:	429,916.09 usft	Latitude:	32° 10' 50.000 N
	+E/-W	0.0 usft	Easting:	722,908.30 usft	Longitude:	103° 44' 47.220 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,499.0 usft

Wellbore						Wellbore #1									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
										(°)		(°)		(nT)	
						IGRF2010		06/01/11		7.67		60.12		48,574	

Design: Wellbore #1				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.34

Survey Program		Date	07/05/11	
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	7,500.0	Gyro Survey (Wellbore #1)	MWD	MWD - Default
7,675.0	12,152.0	Survey #2 (Wellbore #1)	MWD	MWD - Default

Survey:									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.0	0.85	176.92	7,499.1	-52.8	40.7	52.6	0.00	0.00	0.00
Tie In to Gyro									
7,675.0	4.50	184.70	7,673.9	-61.0	40.2	60.7	2.09	2.09	4.45
7,706.0	8.50	181.90	7,704.7	-64.5	40.1	64.3	12.94	12.90	-9.03
First MWD Survey									
7,738.0	11.70	182.50	7,736.2	-70.1	39.8	69.9	10.01	10.00	1.88
7,770.0	13.70	184.00	7,767.4	-77.1	39.4	76.9	6.33	6.25	4.69
7,801.0	16.20	186.70	7,797.3	-85.1	38.7	84.8	8.37	8.06	8.71
7,833.0	19.50	186.70	7,827.8	-94.8	37.5	94.6	10.31	10.31	0.00

Great White Directional Services

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well Cotton Draw Unit #155
Project:	Eddy County	TVD Reference:	WELL @ 3524.0usft (Original Well Elev)
Site:	Sec 3-T24S-R31E	MD Reference:	WELL @ 3524.0usft (Original Well Elev)
Well:	Cotton Draw Unit #155	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM:5000.1: Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,864.0	22.20	186.20	7,856.7	-105.8	36.3	105.6	8.73	8.71	-1.61
7,896.0	24.50	184.60	7,886.1	-118.4	35.1	118.2	7.46	7.19	-5.00
7,928.0	28.00	182.80	7,914.8	-132.5	34.2	132.3	11.22	10.94	-5.63
7,959.0	30.90	183.10	7,941.8	-147.7	33.4	147.5	9.37	9.35	0.97
7,988.0	32.70	182.50	7,966.5	-163.0	32.7	162.8	6.30	6.21	-2.07
8,022.0	35.80	182.10	7,994.6	-182.1	31.9	181.9	9.14	9.12	-1.18
8,054.0	38.70	182.00	8,020.0	-201.5	31.2	201.3	9.06	9.06	-0.31
8,085.0	41.10	181.30	8,043.8	-221.4	30.6	221.2	7.88	7.74	-2.26
8,117.0	43.90	180.60	8,067.4	-243.0	30.3	242.8	8.87	8.75	-2.19
8,149.0	46.80	181.50	8,089.9	-265.7	29.9	265.5	9.28	9.06	2.81
8,180.0	49.10	182.10	8,110.6	-288.7	29.1	288.6	7.56	7.42	1.94
8,212.0	51.50	181.10	8,131.1	-313.3	28.5	313.2	7.88	7.50	-3.13
8,243.0	54.00	181.60	8,149.9	-338.0	27.9	337.8	8.17	8.06	1.61
8,275.0	56.80	181.30	8,168.0	-364.3	27.2	364.2	8.78	8.75	-0.94
8,306.0	59.60	180.60	8,184.4	-390.7	26.8	390.5	9.23	9.03	-2.26
8,338.0	62.10	180.30	8,199.9	-418.6	26.6	418.5	7.86	7.81	-0.94
8,370.0	64.70	179.60	8,214.3	-447.2	26.6	447.1	8.36	8.13	-2.19
8,401.0	68.40	179.40	8,226.6	-475.7	26.8	475.5	11.95	11.94	-0.65
8,433.0	71.60	179.90	8,237.5	-505.7	27.0	505.6	10.11	10.00	1.56
8,464.0	73.50	181.20	8,246.8	-535.3	26.7	535.1	7.32	6.13	4.19
8,496.0	76.60	181.60	8,255.1	-566.2	26.0	566.0	9.76	9.69	1.25
8,527.0	80.40	182.00	8,261.3	-596.6	25.0	596.4	12.32	12.26	1.29
8,556.0	82.40	181.80	8,265.6	-625.2	24.1	625.1	6.93	6.90	-0.69
8,587.0	86.50	181.80	8,268.6	-656.1	23.1	655.9	13.23	13.23	0.00
8,619.0	89.00	181.80	8,269.9	-688.0	22.1	687.9	7.81	7.81	0.00
8,650.0	90.00	180.30	8,270.1	-719.0	21.5	718.9	5.82	3.23	-4.84
8,745.0	91.20	179.00	8,269.1	-814.0	22.1	813.8	1.86	1.26	-1.37
8,840.0	91.20	177.50	8,267.2	-908.9	25.0	908.8	1.58	0.00	-1.58
8,934.0	90.40	178.40	8,265.8	-1,002.9	28.4	1,002.7	1.28	-0.85	0.96
9,029.0	91.40	178.30	8,264.3	-1,097.8	31.1	1,097.6	1.06	1.05	-0.11
9,124.0	90.60	179.10	8,262.7	-1,192.8	33.3	1,192.5	1.19	-0.84	0.84
9,218.0	89.80	179.70	8,262.4	-1,286.8	34.2	1,286.5	1.06	-0.85	0.64
9,313.0	91.40	180.00	8,261.4	-1,381.7	34.5	1,381.5	1.71	1.68	0.32
9,407.0	89.80	179.70	8,260.4	-1,475.7	34.7	1,475.5	1.73	-1.70	-0.32
9,502.0	89.30	180.30	8,261.1	-1,570.7	34.7	1,570.5	0.82	-0.53	0.63
9,597.0	89.50	181.50	8,262.1	-1,665.7	33.3	1,665.5	1.28	0.21	1.26
9,691.0	89.70	181.70	8,262.8	-1,759.7	30.6	1,759.5	0.30	0.21	0.21
9,786.0	91.20	184.00	8,262.0	-1,854.5	25.9	1,854.4	2.89	1.58	2.42
9,881.0	90.70	183.90	8,260.5	-1,949.3	19.4	1,949.2	0.54	-0.53	-0.11
9,975.0	90.00	183.60	8,259.9	-2,043.1	13.2	2,043.0	0.81	-0.74	-0.32
10,070.0	87.60	182.70	8,261.9	-2,137.9	8.0	2,137.8	2.70	-2.53	-0.95
10,165.0	88.00	181.40	8,265.5	-2,232.8	4.6	2,232.7	1.43	0.42	-1.37
10,259.0	89.10	179.70	8,267.9	-2,326.8	3.7	2,326.7	2.15	1.17	-1.81

Great White Directional Services

Survey Report

Company:	Devon Energy	Local Coordinate Reference:	Well: Cotton Draw Unit #155
Project:	Eddy County	TVD Reference:	WELL @ 3524.0usft (Original Well Elev)
Site:	Sec 3-T24S-R31E	MD Reference:	WELL @ 3524.0usft (Original Well Elev)
Well:	Cotton Draw Unit #155	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1:Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,354.0	89.00	177.80	8,269.5	-2,421.7	5.8	2,421.6	2.00	-0.11	-2.00	
10,448.0	89.90	177.20	8,270.4	-2,515.6	9.9	2,515.5	1.15	0.96	-0.64	
10,543.0	90.80	177.60	8,269.8	-2,610.5	14.2	2,610.4	1.04	0.95	0.42	
10,638.0	90.10	178.10	8,269.0	-2,705.5	17.7	2,705.3	0.91	-0.74	0.53	
10,732.0	90.50	178.00	8,268.6	-2,799.4	20.9	2,799.2	0.44	0.43	-0.11	
10,827.0	89.50	178.00	8,268.6	-2,894.3	24.3	2,894.1	1.05	-1.05	0.00	
10,921.0	89.50	178.70	8,269.4	-2,988.3	27.0	2,988.1	0.74	0.00	0.74	
11,016.0	89.40	179.10	8,270.3	-3,083.3	28.8	3,083.0	0.43	-0.11	0.42	
11,111.0	91.20	181.30	8,269.8	-3,178.3	28.5	3,178.0	2.99	1.89	2.32	
11,205.0	89.50	182.30	8,269.2	-3,272.2	25.5	3,272.0	2.10	-1.81	1.06	
11,300.0	91.10	181.80	8,268.7	-3,367.1	22.1	3,367.0	1.76	1.68	-0.53	
11,395.0	92.40	181.40	8,265.8	-3,462.1	19.5	3,461.9	1.43	1.37	-0.42	
11,489.0	91.90	180.60	8,262.3	-3,556.0	17.8	3,555.8	1.00	-0.53	-0.85	
11,584.0	91.00	182.00	8,259.9	-3,650.9	15.7	3,650.8	1.75	-0.95	1.47	
11,679.0	91.00	180.60	8,258.2	-3,745.9	13.5	3,745.7	1.47	0.00	-1.47	
11,774.0	89.20	180.90	8,258.1	-3,840.9	12.3	3,840.7	1.92	-1.89	0.32	
11,869.0	89.30	179.20	8,259.3	-3,935.9	12.2	3,935.7	1.79	0.11	-1.79	
11,963.0	90.10	179.80	8,259.8	-4,029.8	13.0	4,029.7	1.06	0.85	0.64	
12,058.0	89.80	181.30	8,259.9	-4,124.8	12.1	4,124.7	1.61	-0.32	1.58	
12,152.0	90.20	180.80	8,259.9	-4,218.8	10.4	4,218.7	0.68	0.43	-0.53	
Last MWD Survey - CDU #155 PBHL - CDU 155H PBHL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,500.0	7,499.1	-52.8	40.7	Tie In to Gyro	
7,706.0	7,704.7	-64.5	40.1	First MWD Survey	
12,152.0	8,259.9	-4,218.8	10.4	Last MWD Survey	

Checked By: _____ Approved By: _____ Date: _____