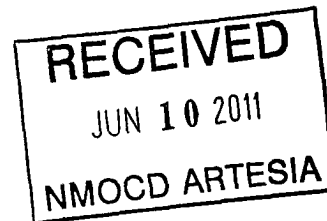


30-015-37898

DEVON ENERGY

Cotton Draw
Eddy County, NM
Cotton Draw Unit #115H
VH - Job #32K1010811



Survey: Actual

SDI Standard Survey Report

14 November, 2010

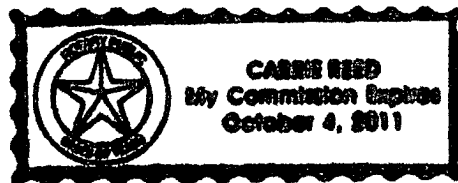
This survey is correct to the best of my knowledge and is supported by actual field data.

R. Wharton

Notorized this date 16th of November, 2010.

Caree Reed

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 #115H
Project:	Cotton Draw	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #115H	North Reference:	Grid
Wellbore:	VH - Job #32K1010811	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010811	Database:	EDM-Regulatory

Project: Cotton Draw			
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Eddy County, NM			
Site Position:		Northing:	425,181.39 usft	Latitude:	32° 10' 3.550 N
From:	Lat/Long	Easting:	676,632.12 usft	Longitude:	103° 45' 45.020 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.30 °

*Well Cotton Draw Unit #115H, Directional (Weatherford)						
Well Position	+N/-S	0 0 usft	Northing:	425,181.39 usft	Latitude:	32° 10' 3.550 N
	+E/-W	0.0 usft	Easting:	676,632.12 usft	Longitude:	103° 45' 45.020 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore		VH - Job #32K1010811			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/21/2010	7.80	60.12	48,688

Design					VH - Job #32K1010811						
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		359.89			

Survey Program		Date 11/14/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	8,145 0	Actual (VH - Job #32K1010811)	Keeper	Keeper Gyro

Survey									
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance		
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)		
0 0	0.00	0.00	0 0	0 0	0 0	0.00	0 0		
100.0	1.05	175.14	100 0	-0.9	0.1	175.14	0.9		
200.0	0.80	157.03	200.0	-2.5	0.4	170.17	2.5		
300 0	0.51	136.46	300 0	-3.4	1.0	163.66	3.6		
400 0	0.48	101.87	400 0	-3.8	1.7	155.85	4.2		
500.0	0.71	82.00	500 0	-3.8	2.7	144.44	4.7		
600.0	0.72	71.42	600.0	-3.6	4.0	131.96	5.3		
700 0	1.34	56.25	699.9	-2.7	5.5	116.10	6.2		
800.0	1.44	53.89	799.9	-1.3	7.5	99.94	7.6		
900 0	0.93	54.22	899.9	-0.1	9.2	90.63	9.2		
1,000 0	0.85	54.58	999.9	0.8	10.4	85.61	10.5		
1,100.0	1.00	48.72	1,099.9	1.8	11.7	81.22	11.8		

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #115H
Project:	Cotton Draw	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #115H	North Reference:	Grid
Wellbore:	VH - Job #32K1010811	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010811	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600.0	0.34	226.26	5,598.5	-45.2	77.1	120.37	89.3
5,700.0	0.38	239.40	5,698.5	-45.5	76.6	120.74	89.1
5,800.0	0.45	245.75	5,798.5	-45.9	75.9	121.14	88.7
5,900.0	0.42	257.20	5,898.5	-46.1	75.2	121.51	88.2
6,000.0	0.34	240.98	5,998.5	-46.3	74.6	121.85	87.8
6,100.0	0.36	236.38	6,098.5	-46.7	74.1	122.21	87.5
6,200.0	0.38	207.03	6,198.5	-47.1	73.6	122.61	87.4
6,300.0	0.39	213.92	6,298.5	-47.7	73.3	123.05	87.5
6,400.0	0.46	212.53	6,398.5	-48.3	72.9	123.54	87.5
6,500.0	0.35	198.17	6,498.5	-48.9	72.6	123.99	87.6
6,600.0	0.26	244.58	6,598.5	-49.3	72.3	124.31	87.5
6,700.0	0.39	250.95	6,698.5	-49.5	71.8	124.62	87.2
6,800.0	0.36	270.41	6,798.5	-49.7	71.1	124.92	86.7
6,900.0	0.37	110.39	6,898.5	-49.8	71.1	124.98	86.8
7,000.0	0.82	124.26	6,998.5	-50.3	72.0	124.92	87.8
7,100.0	0.78	128.19	7,098.5	-51.1	73.1	124.94	89.2
7,200.0	0.89	135.02	7,198.4	-52.1	74.2	125.05	90.7
7,300.0	0.91	140.44	7,298.4	-53.2	75.3	125.27	92.2
7,400.0	1.00	150.56	7,398.4	-54.6	76.2	125.62	93.8
7,500.0	1.14	158.19	7,498.4	-56.3	77.0	126.16	95.4
7,600.0	1.24	153.12	7,598.4	-58.2	77.9	126.76	97.2
7,700.0	1.20	159.15	7,698.4	-60.1	78.7	127.37	99.1
7,800.0	1.14	160.92	7,798.3	-62.0	79.4	127.99	100.8
7,900.0	0.92	157.91	7,898.3	-63.7	80.1	128.52	102.3
8,000.0	1.00	158.92	7,998.3	-65.3	80.7	128.98	103.8
8,100.0	1.18	165.44	8,098.3	-67.1	81.2	129.55	105.4
8,145.0	1.21	166.59	8,143.3	-68.0	81.5	129.85	106.1



Project: Cotton Draw
Eddy County, NM
Well: Cotton Draw Unit #115H
Wellbore: VH - Job #32K1010811
Design: VH - Job #32K1010811

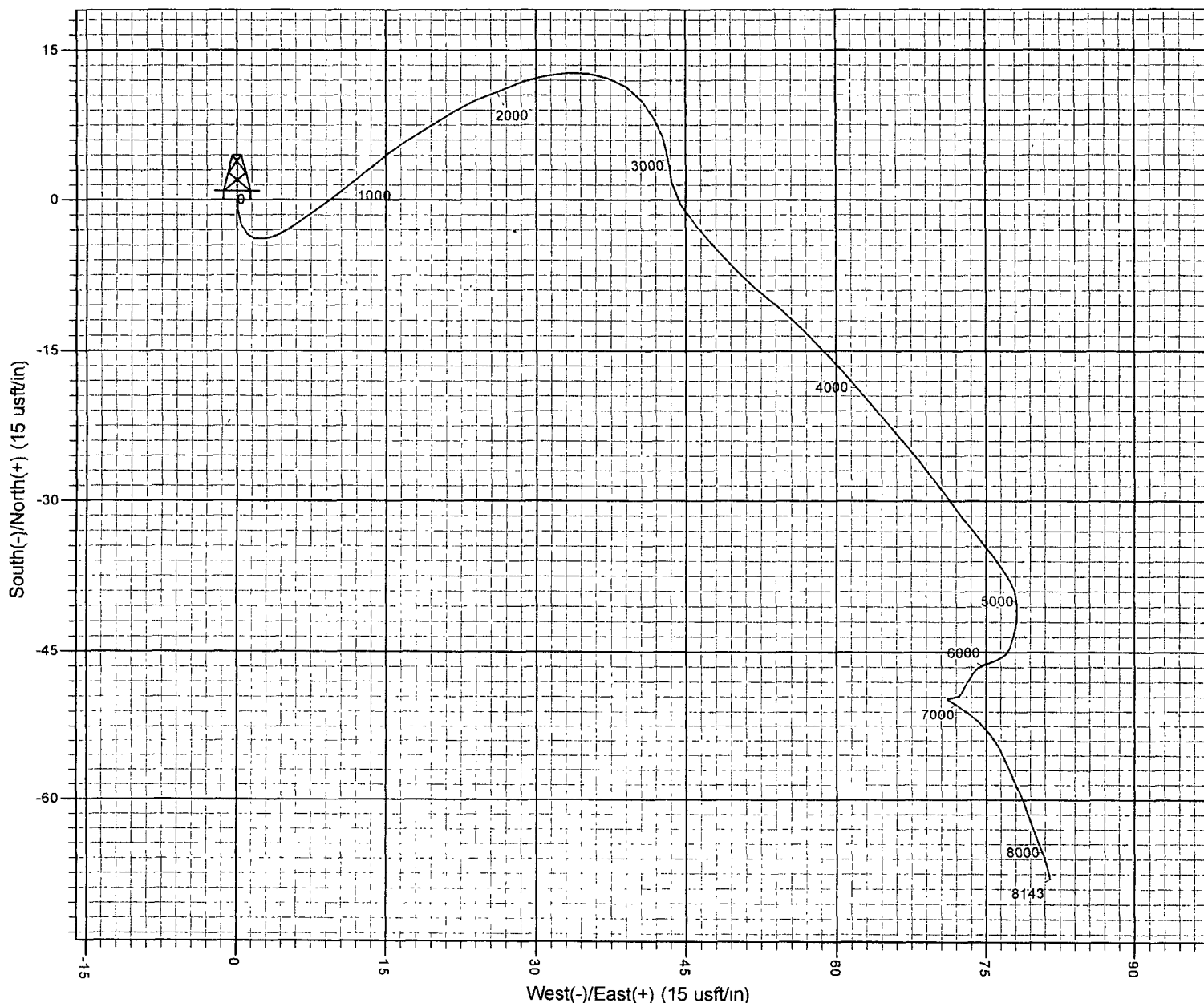


Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.50°

Magnetic Field
Strength: 48687.9 nT
Dip Angle: 60.12°
Date: 10/21/2010
Model: BGGM2010

WELL DETAILS: Cotton Draw Unit #115H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	425181.39	676632.12	$32^\circ 10' 3.550''$ N	$103^\circ 45' 45.020''$ W	



PROJECT DETAILS: Cotton Draw
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: $32^\circ 10' 3.550''$ N
Longitude: $103^\circ 45' 45.020''$ W
Positional Uncertainty: 0.0
Convergence: 0.30
Local North: Grid