

30-015-37447

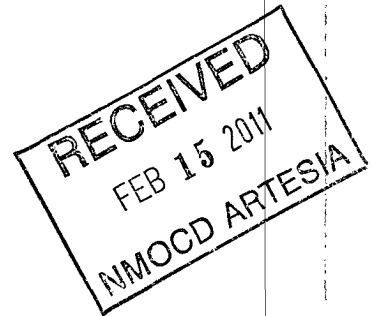
DEVON ENERGY

Poker Lake East
Eddy County, NM
Cotton Draw Unit #119H
VH - Job #32K0810589

Survey: Actual

SDI Standard Survey Report

23 August, 2010



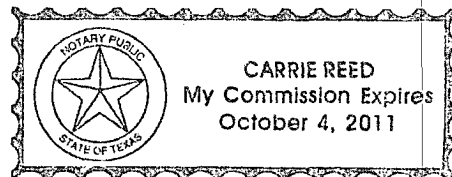
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 24th of August, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



[Handwritten signature]

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #119H
Project:	Poker Lake East	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #119H	North Reference:	Grid
Wellbore:	VH - Job #32K0810589	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810589	Database:	EDM-Regulatory

Project	Poker Lake East		
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		

Well	Cotton Draw Unit #119H, Directional (CUDD)				
Well Position	+N/-S	0.0 usft	Northing:	435,162.19 usft	Latitude: 32° 11' 42.000 N
	+E/-W	0.0 usft	Easting:	682,613.26 usft	Longitude: 103° 44' 34.800 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0810589				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.64	60.38	49,409

Design	VH - Job #32K0810589				
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	161.79	

Survey Program	Date	8/22/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,543.0	Actual (VH - Job #32K0810589)	Keeper	Keeper Gyro

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.0
100.0	0.18	110.31	100.0	-0.1	0.1	110.31	0.2	
200.0	0.20	138.13	200.0	-0.2	0.4	120.17	0.5	
300.0	0.22	104.36	300.0	-0.4	0.7	120.28	0.8	
400.0	0.16	125.03	400.0	-0.5	1.0	118.23	1.2	
500.0	0.21	130.76	500.0	-0.7	1.3	120.43	1.5	
600.0	0.09	167.73	600.0	-0.9	1.4	123.47	1.7	
700.0	0.18	168.84	700.0	-1.2	1.5	128.56	1.9	
800.0	0.20	132.77	800.0	-1.4	1.6	131.57	2.2	
900.0	0.32	133.93	900.0	-1.8	2.0	131.90	2.6	
1,000.0	0.30	141.48	1,000.0	-2.2	2.3	132.87	3.2	
1,100.0	0.21	148.50	1,100.0	-2.5	2.6	134.28	3.6	
1,200.0	0.14	183.71	1,200.0	-2.8	2.7	136.32	3.9	
1,300.0	0.44	182.29	1,300.0	-3.3	2.6	141.28	4.2	
1,400.0	0.45	186.32	1,400.0	-4.1	2.6	147.59	4.8	
1,500.0	0.45	200.93	1,500.0	-4.8	2.4	153.55	5.4	
1,600.0	0.50	220.48	1,600.0	-5.5	2.0	160.30	5.9	

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #119H	North Reference:	Grid
Wellbore:	VH - Job #32K0810589	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810589	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,700.0	0.55	219.23	1,700.0	-6.2	1.4	167.41	6.4
1,800.0	0.59	218.49	1,800.0	-7.0	0.8	173.74	7.0
1,900.0	0.43	208.81	1,900.0	-7.7	0.3	178.02	7.7
2,000.0	0.36	204.84	2,000.0	-8.4	0.0	180.31	8.4
2,100.0	0.41	213.37	2,100.0	-8.9	-0.4	182.40	8.9
2,200.0	0.50	204.45	2,200.0	-9.6	-0.8	184.46	9.7
2,300.0	0.67	192.93	2,300.0	-10.6	-1.1	185.73	10.7
2,400.0	0.78	185.49	2,399.9	-11.8	-1.3	186.07	11.9
2,500.0	0.87	180.61	2,499.9	-13.3	-1.3	185.73	13.4
2,600.0	0.97	186.28	2,599.9	-14.9	-1.4	185.50	15.0
2,700.0	1.06	185.00	2,699.9	-16.6	-1.6	185.51	16.7
2,800.0	1.11	177.21	2,799.9	-18.5	-1.6	185.05	18.6
2,900.0	1.06	183.76	2,899.9	-20.4	-1.7	184.63	20.5
3,000.0	1.07	187.05	2,999.9	-22.3	-1.8	184.69	22.4
3,100.0	1.08	186.23	3,099.8	-24.1	-2.0	184.84	24.2
3,200.0	0.67	142.61	3,199.8	-25.5	-1.8	184.01	25.6
3,300.0	0.68	128.06	3,299.8	-26.4	-1.0	182.11	26.4
3,400.0	0.45	161.60	3,399.8	-27.1	-0.4	180.80	27.1
3,500.0	0.47	192.62	3,499.8	-27.9	-0.3	180.71	27.9
3,600.0	0.47	221.98	3,599.8	-28.6	-0.7	181.42	28.6
3,700.0	0.82	101.54	3,699.8	-29.0	-0.3	180.56	29.0
3,800.0	1.58	92.87	3,799.8	-29.2	1.8	176.49	29.3
3,900.0	1.36	96.53	3,899.8	-29.5	4.4	171.59	29.8
4,000.0	1.29	101.29	3,999.7	-29.8	6.6	167.45	30.5
4,100.0	1.74	122.12	4,099.7	-30.8	9.0	163.69	32.1
4,200.0	2.28	133.00	4,199.6	-33.0	11.8	160.38	35.0
4,300.0	2.35	130.94	4,299.5	-35.7	14.8	157.53	38.6
4,400.0	1.55	136.04	4,399.5	-38.0	17.3	155.59	41.7
4,500.0	1.06	142.09	4,499.5	-39.7	18.8	154.71	43.9
4,600.0	0.84	150.02	4,599.4	-41.1	19.7	154.38	45.6
4,700.0	0.79	153.50	4,699.4	-42.3	20.4	154.30	47.0
4,800.0	0.62	149.96	4,799.4	-43.4	21.0	154.24	48.2
4,900.0	0.92	132.49	4,899.4	-44.4	21.8	153.85	49.5
5,000.0	0.78	149.63	4,999.4	-45.6	22.7	153.47	50.9
5,100.0	0.84	138.87	5,099.4	-46.7	23.6	153.21	52.3
5,200.0	0.89	128.12	5,199.4	-47.7	24.7	152.67	53.7
5,300.0	0.88	117.40	5,299.4	-48.6	26.0	151.87	55.1
5,400.0	0.74	112.62	5,399.4	-49.2	27.2	151.01	56.2
5,500.0	0.29	112.73	5,499.4	-49.5	28.1	150.45	56.9
5,600.0	0.48	114.98	5,599.4	-49.8	28.7	150.05	57.5
5,700.0	0.30	113.66	5,699.4	-50.1	29.3	149.66	58.0
5,800.0	0.41	119.35	5,799.4	-50.4	29.9	149.34	58.5
5,900.0	0.44	118.77	5,899.4	-50.7	30.5	148.97	59.2
6,000.0	0.29	132.81	5,999.4	-51.1	31.0	148.72	59.8

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #119H	North Reference:	Grid
Wellbore:	VH - Job #32K0810589	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810589	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
6,100.0	0.19	175.19	6,099.4	-51.4	31.2	148.73	60.1
6,200.0	0.32	218.64	6,199.3	-51.8	31.1	149.04	60.4
6,300.0	0.41	227.86	6,299.3	-52.2	30.6	149.62	60.6
6,400.0	0.34	220.62	6,399.3	-52.7	30.2	150.22	60.7
6,500.0	0.35	229.63	6,499.3	-53.1	29.7	150.76	60.9
6,600.0	0.34	234.91	6,599.3	-53.5	29.3	151.32	61.0
6,700.0	0.37	234.80	6,699.3	-53.9	28.8	151.90	61.1
6,800.0	0.40	217.03	6,799.3	-54.3	28.3	152.50	61.2
6,900.0	0.75	214.31	6,899.3	-55.1	27.7	153.33	61.7
7,000.0	0.82	227.24	6,999.3	-56.2	26.8	154.49	62.2
7,100.0	0.76	239.85	7,099.3	-57.0	25.7	155.72	62.5
7,200.0	0.91	243.03	7,199.3	-57.7	24.4	157.05	62.6
7,300.0	0.93	239.83	7,299.3	-58.5	23.0	158.50	62.8
7,400.0	0.79	240.88	7,399.3	-59.2	21.7	159.85	63.1
7,500.0	0.94	233.40	7,499.3	-60.0	20.5	161.18	63.4
7,543.0	0.93	238.51	7,542.3	-60.4	19.9	161.79	63.6



Scientific Drilling
Directional Drilling Operations

Project: Poker Lake East
Eddy County, NM
Well: Cotton Draw Unit #119H
Wellbore: VH - Job #32K0810589
Design: VH - Job #32K0810589

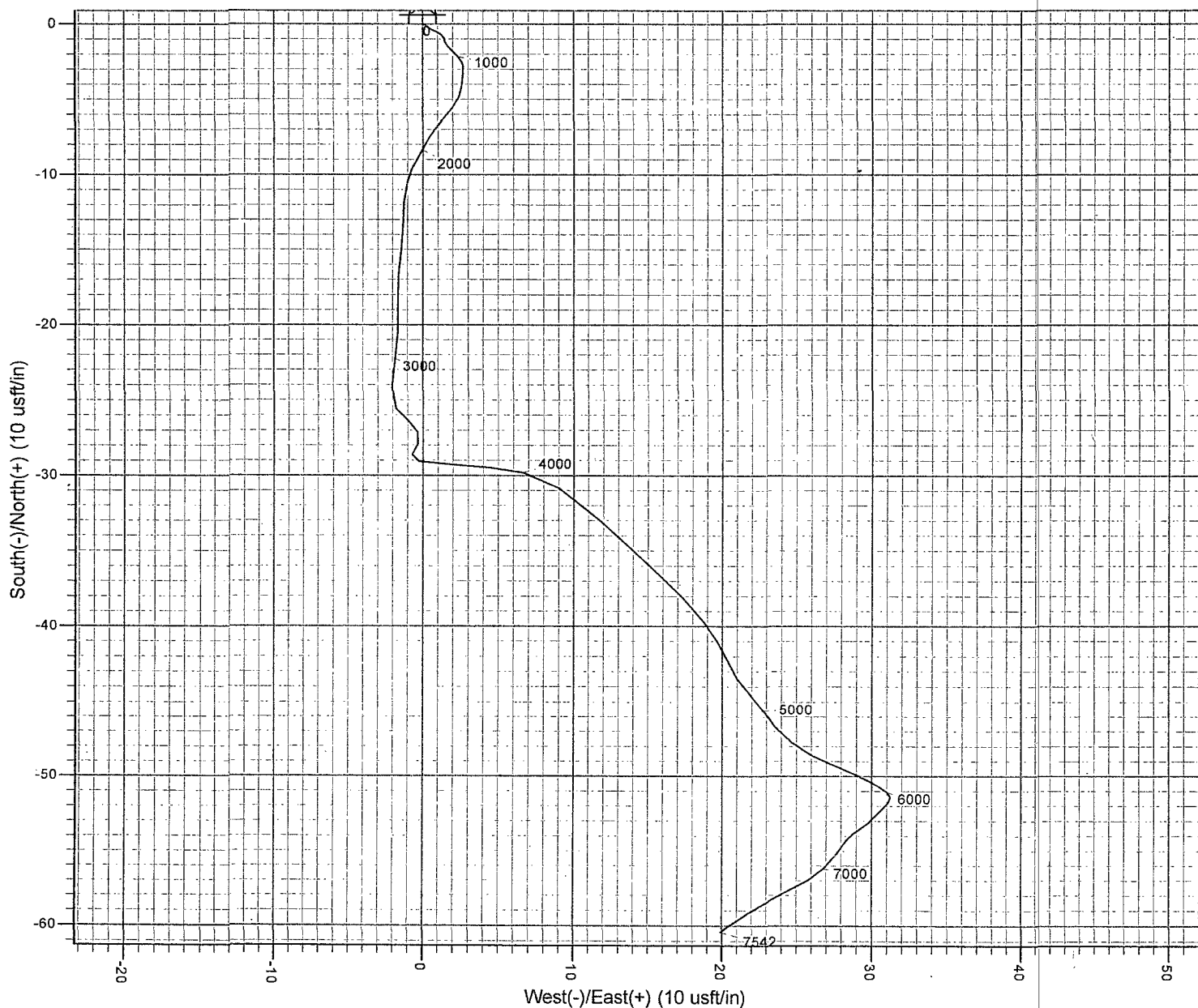


Azimuths to Grid North
True North: -0.31°
Magnetic North: 8.33°

Magnetic Field
Strength: 49409.4snT
Dip Angle: 60.38°
Date: 12/31/2004
Model: IGRF2000

WELL DETAILS: Cotton Draw Unit #119H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	435162.19	682613.26	32° 11' 42.000 N	103° 44' 34.800 W	



PROJECT DETAILS: Poker Lake East
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° 11' 42.000 N
Longitude: 103° 44' 34.800 W
Positional Uncertainty: 0.0
Convergence: 0.31
Local North: Grid