

DEVON ENERGY

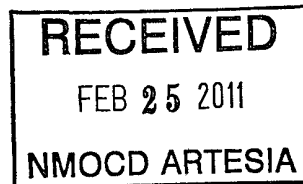
Poker Lake East
Eddy County, NM
Cotton Draw Unit #120H
VH - Job #32K0910647

30-015-37404

Survey: Actual

SDI Standard Survey Report

14 September, 2010



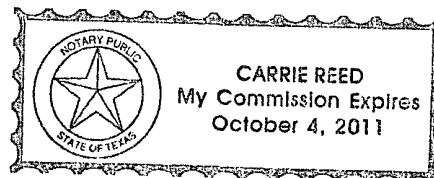
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notorized this date 5th of October, 2010.

[Signature]

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 #120H
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 #120H	North Reference:	Grid
Wellbore:	VH - Job #32K0910647	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910647	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 #120H, Directional (Pathfinder)					
Well Position	+N/-S	0.0 usft	Northing:	435,015.43 usft	Latitude:	32° 11' 40.670 N
	+E/-W	0.0 usft	Easting:	680,348.90 usft	Longitude:	103° 45' 1.160 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0910647				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/13/2010	7.81	60.15	48,717

Design	VH - Job #32K0910647				
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	116.13	

Survey Program	Date 9/13/2010				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,505.0	Actual (VH - Job #32K0910647)	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	
100.0	0.12	74.24	100.0	0.0	0.1	74.24	0.1	
200.0	0.07	82.78	200.0	0.1	0.3	76.17	0.3	
300.0	0.21	97.60	300.0	0.0	0.5	84.56	0.5	
400.0	0.16	78.29	400.0	0.1	0.8	86.38	0.8	
500.0	0.15	71.72	500.0	0.1	1.1	83.60	1.1	
600.0	0.14	69.00	600.0	0.2	1.3	81.13	1.3	
700.0	0.13	90.13	700.0	0.2	1.5	80.84	1.6	
800.0	0.36	97.23	800.0	0.2	2.0	83.93	2.0	
900.0	0.25	95.99	900.0	0.1	2.5	86.62	2.5	
1,000.0	0.14	78.79	1,000.0	0.1	2.8	87.00	2.8	
1,100.0	0.02	85.97	1,100.0	0.2	3.0	86.66	3.0	
1,200.0	0.25	84.54	1,200.0	0.2	3.2	86.51	3.2	
1,300.0	0.17	78.55	1,300.0	0.2	3.6	86.06	3.6	
1,400.0	0.36	69.30	1,400.0	0.4	4.0	84.50	4.0	
1,500.0	0.26	59.84	1,500.0	0.6	4.5	82.27	4.5	
1,600.0	0.27	59.25	1,600.0	0.8	4.9	80.21	5.0	

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Wellbore:	VH - Job #32K0910647	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910647	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	0.30	60.93	1,700.0	1.1	5.3	78.41	5.4
1,800.0	0.31	50.03	1,800.0	1.4	5.8	76.41	5.9
1,900.0	0.14	64.99	1,900.0	1.6	6.1	75.10	6.3
2,000.0	0.08	70.62	2,000.0	1.7	6.3	74.86	6.5
2,100.0	0.05	79.40	2,100.0	1.7	6.4	74.85	6.6
2,200.0	0.17	95.52	2,200.0	1.7	6.6	75.32	6.8
2,300.0	0.49	118.31	2,300.0	1.5	7.1	78.03	7.2
2,400.0	0.62	127.79	2,400.0	1.0	7.9	83.00	8.0
2,500.0	0.68	133.49	2,500.0	0.2	8.8	88.50	8.8
2,600.0	1.04	143.16	2,600.0	-0.9	9.7	95.32	9.8
2,700.0	1.18	150.14	2,699.9	-2.5	10.8	103.18	11.1
2,800.0	1.25	153.05	2,799.9	-4.4	11.8	110.43	12.6
2,900.0	1.05	154.47	2,899.9	-6.2	12.7	116.02	14.1
3,000.0	0.88	145.44	2,999.9	-7.6	13.5	119.52	15.5
3,100.0	0.70	120.99	3,099.9	-8.6	14.5	120.72	16.8
3,200.0	1.40	95.28	3,199.9	-9.0	16.2	119.10	18.6
3,300.0	1.38	90.20	3,299.8	-9.1	18.6	116.13	20.7
3,400.0	1.30	90.27	3,399.8	-9.1	21.0	113.57	22.9
3,500.0	1.26	88.21	3,499.8	-9.1	23.2	111.46	24.9
3,600.0	1.43	83.65	3,599.8	-8.9	25.5	109.31	27.1
3,700.0	2.86	100.79	3,699.7	-9.3	29.2	107.61	30.7
3,800.0	3.29	106.24	3,799.5	-10.5	34.4	107.03	36.0
3,900.0	3.12	108.14	3,899.4	-12.2	39.8	107.05	41.6
4,000.0	4.22	112.09	3,999.2	-14.4	45.8	107.49	48.0
4,100.0	4.78	118.14	4,098.9	-17.8	52.9	108.59	55.8
4,200.0	5.82	121.73	4,198.4	-22.4	60.8	110.22	64.8
4,300.0	4.79	118.45	4,298.0	-27.1	68.8	111.47	74.0
4,400.0	4.41	120.61	4,397.7	-31.0	75.8	112.25	81.9
4,500.0	3.85	119.59	4,497.4	-34.6	82.0	112.88	89.0
4,600.0	3.57	120.73	4,597.2	-37.9	87.6	113.37	95.5
4,700.0	3.34	118.31	4,697.0	-40.8	92.9	113.74	101.5
4,800.0	3.48	118.35	4,796.9	-43.7	98.1	113.99	107.4
4,900.0	2.68	116.48	4,896.7	-46.2	102.9	114.16	112.7
5,000.0	2.39	113.17	4,996.6	-48.0	106.9	114.19	117.2
5,100.0	2.25	112.52	5,096.5	-49.6	110.6	114.15	121.2
5,200.0	2.19	110.57	5,196.5	-51.0	114.2	114.07	125.1
5,300.0	2.14	107.61	5,296.4	-52.2	117.8	113.92	128.8
5,400.0	1.72	107.01	5,396.3	-53.3	121.0	113.75	132.2
5,500.0	1.58	104.70	5,496.3	-54.0	123.8	113.59	135.0
5,600.0	1.54	103.52	5,596.2	-54.7	126.4	113.40	137.7
5,700.0	1.40	100.99	5,696.2	-55.3	128.9	113.20	140.3
5,800.0	1.12	93.56	5,796.2	-55.5	131.1	112.96	142.4
5,900.0	1.10	98.13	5,896.2	-55.7	133.0	112.74	144.2
6,000.0	0.98	93.00	5,996.2	-55.9	134.8	112.53	146.0

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cotton Draw Unit #120H	North Reference:	Grid
Wellbore:	VH - Job #32K0910647	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910647	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	1.19	104.20	6,096.1	-56.2	136.7	112.36	147.8
6,200.0	0.96	102.24	6,196.1	-56.7	138.5	112.25	149.6
6,300.0	0.97	113.72	6,296.1	-57.2	140.1	112.20	151.3
6,400.0	0.90	131.87	6,396.1	-58.0	141.5	112.31	152.9
6,500.0	1.16	131.01	6,496.1	-59.2	142.8	112.53	154.6
6,600.0	1.08	130.74	6,596.1	-60.5	144.3	112.75	156.5
6,700.0	0.92	140.88	6,696.0	-61.7	145.5	112.99	158.1
6,800.0	1.11	151.29	6,796.0	-63.2	146.5	113.34	159.5
6,900.0	1.26	158.28	6,896.0	-65.1	147.3	113.83	161.1
7,000.0	0.94	168.52	6,996.0	-66.9	147.9	114.34	162.3
7,100.0	0.93	174.12	7,096.0	-68.5	148.2	114.82	163.2
7,200.0	0.67	164.71	7,196.0	-69.9	148.4	115.22	164.0
7,300.0	0.55	151.35	7,296.0	-70.9	148.8	115.47	164.8
7,400.0	0.75	152.81	7,396.0	-71.9	149.3	115.71	165.7
7,500.0	1.25	160.47	7,495.9	-73.5	150.0	116.11	167.0
7,505.0	0.94	145.77	7,500.9	-73.6	150.0	116.13	167.1



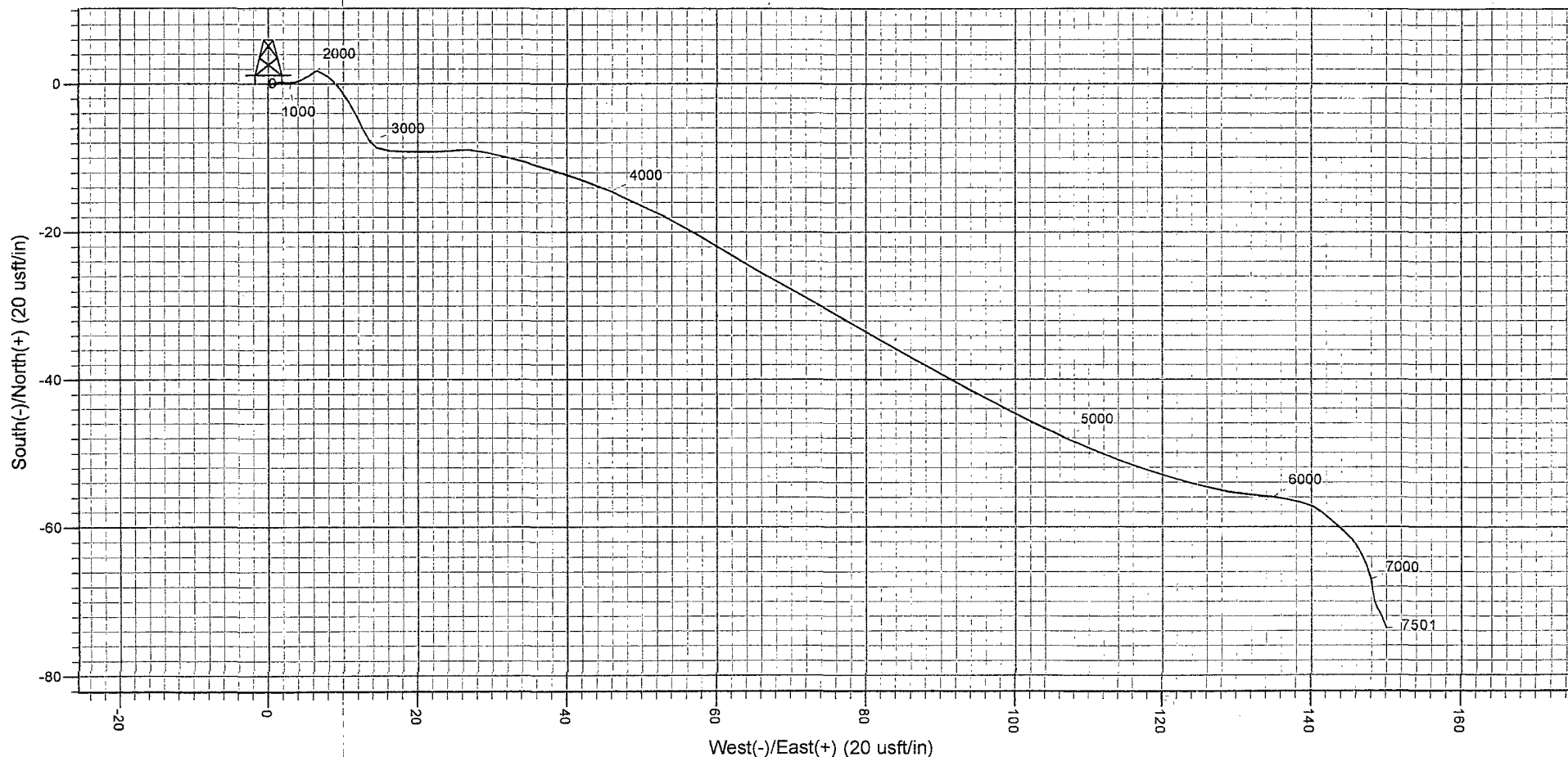
Project: Poker Lake East
 Eddy County, NM
 Well: Cotton Draw Unit #120H
 Wellbore: VH - Job #32K0910647
 Design: VH - Job #32K0910647



Azimuths to Grid North
 True North: -0.31°
 Magnetic North: 7.50°
 Magnetic Field
 Strength: 48717.2snT
 Dip Angle: 60.15°
 Date: 9/13/2010
 Model: BGGM2010

WELL DETAILS: Cotton Draw Unit #120H
 WELL @ 0.0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	435015.43	680348.90	32° 11' 40.670 N	103° 45' 1.160 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