

DEVON ENERGY

Los Medanos

Eddy County, NM

North Pure Gold 8 Federal #14H

VH - Job #32K0910702

30-015-37966

Survey: Actual

SDI Standard Survey Report

12 October, 2010

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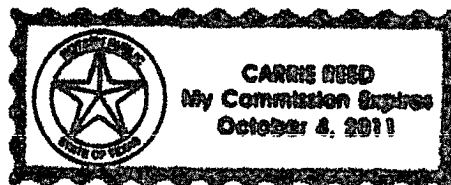
This survey is correct to the best of my knowledge and is supported by actual field data.

R. Wharton

Notorized this date 13th of October, 2010.

Carrie 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 North Pure Gold 8 Federal #14H
Project:	Los Medanos	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	North Pure Gold 8 Federal #14H	North Reference:	Grid
Wellbore:	VH - Job #32K0910702	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910702	Database:	EDM-Regulatory

Project	Los Medanos		
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	North Pure Gold 8 Federal #14H, Directional (Pathfinder)				
Well Position	+N-S	0.0 usft	Northing:	0.00 usft	Latitude: 30° 59' 24.512 N
	+E-W	0.0 usft	Easting:	0.00 usft	Longitude: 105° 55' 44.137 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0910702				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2010	9/20/2010	8.64	58.58	47,674

Design	VH - Job #32K0910702				
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	0.23	

Survey Program	Date:	10/12/2010			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	7,867.0	Actual (VH - Job #32K0910702)	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	0.23	117.88	100.0	-0.1	0.2	117.88	0.2	
200.0	0.27	63.29	200.0	-0.1	0.6	98.23	0.6	
300.0	0.39	262.88	300.0	0.0	0.4	92.36	0.4	
400.0	0.25	254.80	400.0	-0.1	-0.1	223.16	0.2	
500.0	0.21	216.95	500.0	-0.3	-0.4	233.30	0.5	
600.0	0.35	210.11	600.0	-0.7	-0.7	223.49	1.0	
700.0	0.20	220.60	700.0	-1.1	-1.0	220.42	1.5	
800.0	0.17	225.59	800.0	-1.4	-1.2	220.86	1.8	
900.0	0.22	227.24	900.0	-1.6	-1.4	221.76	2.1	
1,000.0	0.29	200.06	1,000.0	-2.0	-1.7	220.08	2.6	
1,100.0	0.33	188.18	1,100.0	-2.5	-1.8	215.61	3.1	
1,200.0	0.24	184.10	1,200.0	-3.0	-1.8	211.65	3.5	
1,300.0	0.28	192.40	1,300.0	-3.4	-1.9	209.06	3.9	
1,400.0	0.27	184.52	1,400.0	-3.9	-2.0	206.86	4.4	
1,500.0	0.23	192.34	1,500.0	-4.3	-2.0	205.19	4.8	
1,600.0	0.26	193.21	1,600.0	-4.8	-2.1	204.18	5.2	

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Well:	North Pure Gold 8 Federal #14H	North Reference:	Grid
Wellbore:	VH - Job #32K0910702	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910702	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	0.21	208.26	1,700.0	-5.1	-2.3	203.87	5.6		
1,800.0	0.38	191.50	1,800.0	-5.6	-2.4	203.34	6.1		
1,900.0	0.31	204.66	1,900.0	-6.2	-2.6	202.81	6.7		
2,000.0	0.26	196.80	2,000.0	-6.7	-2.8	202.69	7.2		
2,100.0	0.32	238.13	2,100.0	-7.0	-3.1	203.73	7.7		
2,200.0	0.26	257.47	2,200.0	-7.2	-3.5	206.16	8.0		
2,300.0	0.40	270.62	2,300.0	-7.3	-4.1	209.53	8.3		
2,400.0	0.45	283.17	2,400.0	-7.2	-4.8	214.06	8.7		
2,500.0	0.51	298.81	2,500.0	-6.9	-5.6	219.30	8.9		
2,600.0	0.57	314.96	2,600.0	-6.3	-6.4	225.28	9.0		
2,700.0	0.90	331.63	2,700.0	-5.3	-7.1	233.43	8.8		
2,800.0	0.91	5.74	2,799.9	-3.8	-7.4	242.91	8.3		
2,900.0	0.65	29.54	2,899.9	-2.5	-7.0	250.46	7.4		
3,000.0	0.48	30.01	2,999.9	-1.6	-6.5	255.94	6.7		
3,100.0	0.48	27.66	3,099.9	-0.9	-6.1	261.63	6.2		
3,200.0	0.86	27.95	3,199.9	0.1	-5.6	271.36	5.6		
3,300.0	1.21	104.20	3,299.9	0.5	-4.2	277.27	4.2		
3,400.0	2.41	123.04	3,399.9	-0.9	-1.4	238.51	1.7		
3,500.0	2.37	123.65	3,499.8	-3.2	2.1	146.85	3.8		
3,600.0	3.24	132.51	3,599.6	-6.2	5.9	136.65	8.5		
3,700.0	3.45	137.92	3,699.5	-10.4	10.0	136.10	14.4		
3,800.0	3.68	142.83	3,799.3	-15.1	13.9	137.41	20.6		
3,900.0	3.22	147.57	3,899.1	-20.1	17.4	139.14	26.5		
4,000.0	2.62	152.68	3,999.0	-24.5	19.9	140.86	31.6		
4,100.0	2.37	152.80	4,098.9	-28.3	21.9	142.29	35.8		
4,200.0	2.26	158.99	4,198.8	-32.0	23.6	143.65	39.8		
4,300.0	2.07	157.29	4,298.7	-35.5	25.0	144.90	43.4		
4,400.0	2.13	155.18	4,398.7	-38.9	26.5	145.78	47.0		
4,500.0	2.10	151.76	4,498.6	-42.2	28.1	146.34	50.7		
4,600.0	1.87	155.34	4,598.5	-45.3	29.6	146.79	54.1		
4,700.0	1.84	152.96	4,698.5	-48.2	31.1	147.20	57.3		
4,800.0	1.71	150.62	4,798.4	-50.9	32.5	147.44	60.4		
4,900.0	1.47	152.20	4,898.4	-53.4	33.8	147.61	63.2		
5,000.0	1.05	155.73	4,998.4	-55.3	34.8	147.82	65.4		
5,100.0	0.93	155.07	5,098.4	-56.9	35.5	148.01	67.1		
5,200.0	0.59	145.64	5,198.3	-58.1	36.2	148.08	68.4		
5,300.0	0.63	144.61	5,298.3	-58.9	36.8	148.03	69.5		
5,400.0	0.45	144.60	5,398.3	-59.7	37.3	147.99	70.4		
5,500.0	0.47	150.70	5,498.3	-60.4	37.8	147.98	71.2		
5,600.0	0.15	133.87	5,598.3	-60.8	38.1	147.97	71.8		
5,700.0	0.31	153.67	5,698.3	-61.2	38.3	147.97	72.2		
5,800.0	0.22	161.65	5,798.3	-61.6	38.4	148.03	72.6		
5,900.0	0.39	149.31	5,898.3	-62.1	38.7	148.07	73.1		
6,000.0	0.40	153.48	5,998.3	-62.7	39.0	148.10	73.8		

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Wellbore:	VH - Job #32K0910702	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910702	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	0.47	134.85	6,098.3	-63.3	39.5	148.05	74.6	
6,200.0	0.21	136.13	6,198.3	-63.7	39.9	147.95	75.1	
6,300.0	0.27	134.41	6,298.3	-64.0	40.2	147.88	75.6	
6,400.0	0.51	136.27	6,398.3	-64.5	40.6	147.77	76.2	
6,500.0	0.31	118.11	6,498.3	-64.9	41.2	147.61	76.9	
6,600.0	0.29	142.82	6,598.3	-65.3	41.6	147.49	77.4	
6,700.0	0.40	132.56	6,698.3	-65.7	42.0	147.41	78.0	
6,800.0	0.54	100.31	6,798.3	-66.0	42.7	147.09	78.6	
6,900.0	0.43	111.19	6,898.3	-66.2	43.5	146.69	79.3	
7,000.0	0.64	125.18	6,998.3	-66.7	44.3	146.38	80.1	
7,100.0	0.70	124.18	7,098.3	-67.4	45.3	146.08	81.2	
7,200.0	0.71	130.84	7,198.3	-68.1	46.3	145.81	82.3	
7,300.0	0.78	135.54	7,298.3	-69.0	47.2	145.61	83.6	
7,400.0	0.73	138.40	7,398.3	-70.0	48.1	145.48	84.9	
7,500.0	0.93	155.52	7,498.3	-71.2	48.9	145.52	86.3	
7,600.0	1.11	155.62	7,598.2	-72.8	49.6	145.72	88.1	
7,700.0	1.31	161.01	7,698.2	-74.8	50.4	146.02	90.1	
7,800.0	1.10	174.27	7,798.2	-76.8	50.9	146.49	92.1	
7,867.0	1.35	185.14	7,865.2	-78.2	50.8	146.97	93.3	



Scientific Drilling
Directional Drilling Operations

Project: Los Medanos
Eddy County, NM
Well: North Pure Gold 8 Federal #14H
Wellbore: VH - Job #32K0910702
Design: VH - Job #32K0910702



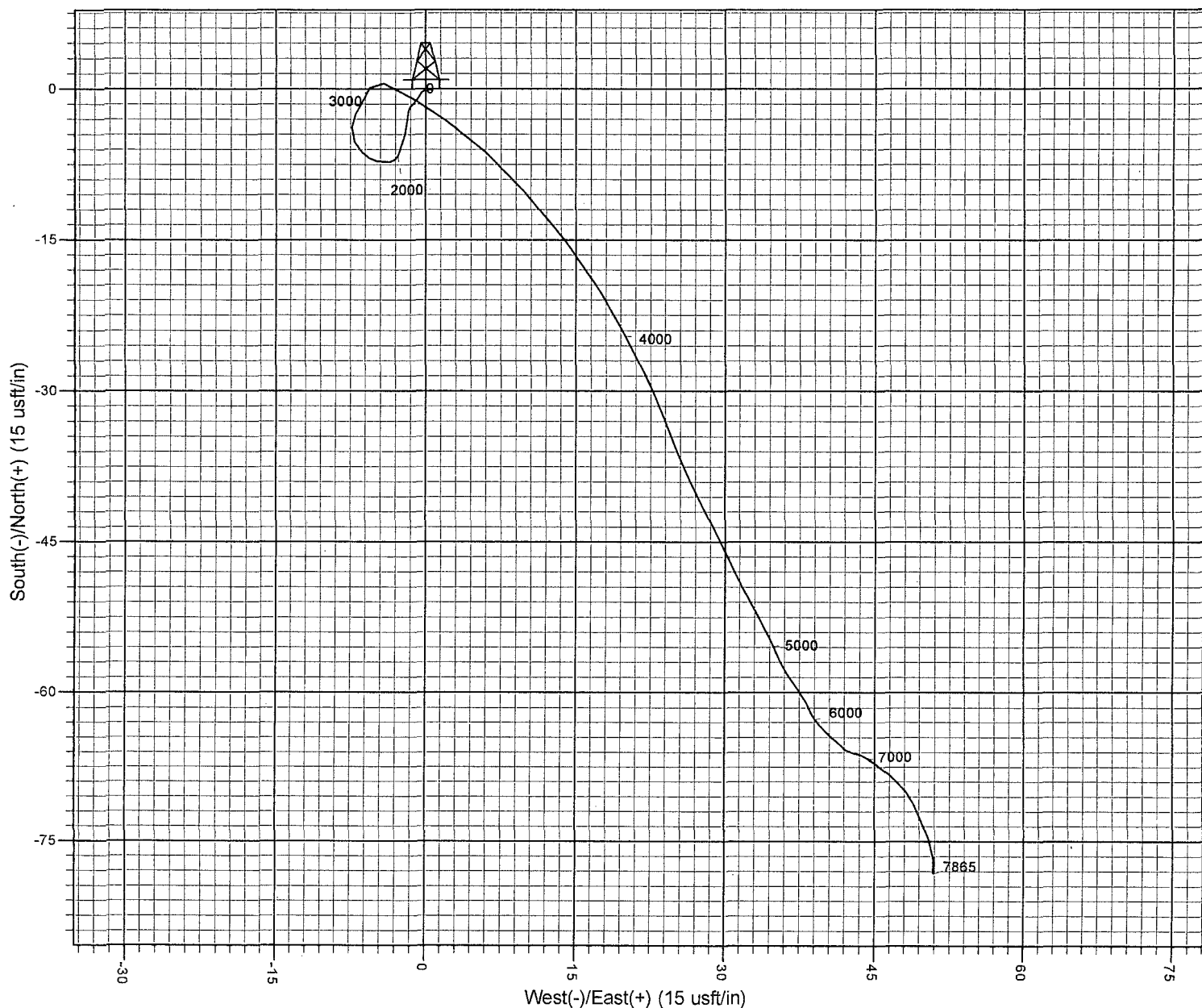
Azimuths to Grid North
True North: 0.82°
Magnetic North: 9.46°

Magnetic Field
Strength: 47674.3snT
Dip Angle: 58.58°
Date: 9/20/2010
Model: BGGM2010

WELL DETAILS: North Pure Gold 8 Federal #14H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	0.00	0.00	30° 59' 24.512 N	105° 55' 44.137 W	



PROJECT DETAILS: Los Medanos
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° 18' 43.760 N
Longitude: 103° 47' 48.600 W
Positional Uncertainty: 0.0
Convergence: 0.29
Local North: Grid