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HOBBSOCD

CHEVRON

Fren

Eddy County, NM

Skelly Unit #935

VH - Job #32K0910729

30-015-31877

Survey: Actual

SDI Standard Survey Report

30 October, 2010

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

Robertson

Notorized this date 2nd of November, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	CHEVRON	Local Co-ordinate Reference:	Well Skelly Unit #935
Project:	Fren	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Skelly Unit #935	North Reference:	Grid
Wellbore:	VH - Job #32K0910729	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910729	Database:	EDM-Regulatory

Project	Fren		
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:	669,273.33 usft	Latitude:	32° 50' 20.400 N
From:	Lat/Long	Easting:	647,222.60 usft	Longitude:	103° 51' 14.400 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0.26 °

Well	Skelly Unit #935, Vertical					
Well Position	+N/-S	0.0 usft	Northing:	664,158.07 usft	Latitude:	32° 49' 30.000 N
	+E/-W	0.0 usft	Easting:	642,330.64 usft	Longitude:	103° 52' 12.000 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0910729				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/29/2010	7.92	60.72	49,081

Design	VH - Job #32K0910729			
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	264.16

Survey Program		Date 10/30/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,472.0	Actual (VH - Job #32K0910729)	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	0.58	334.02	100.0	0.5	-0.2	334.02	0.5	
200.0	0.10	96.43	200.0	0.9	-0.4	338.38	1.0	
300.0	0.15	51.75	300.0	1.0	-0.2	350.23	1.0	
400.0	0.09	84.99	400.0	1.1	0.0	0.75	1.1	
500.0	0.20	83.33	500.0	1.1	0.3	13.73	1.1	
600.0	0.11	130.73	600.0	1.0	0.5	26.10	1.2	
700.0	0.07	77.94	700.0	1.0	0.6	32.93	1.2	
800.0	0.14	60.04	800.0	1.1	0.8	37.16	1.3	
900.0	0.21	36.61	900.0	1.3	1.0	38.76	1.6	
1,000.0	0.72	17.63	1,000.0	2.0	1.3	33.22	2.4	
1,100.0	1.09	24.99	1,100.0	3.5	1.9	28.82	4.0	

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Wellbore:	VH - Job #32K0910729	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910729	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	1.35	22.84	1,200.0	5.4	2.8	27.07	6.1
1,300.0	1.66	28.24	1,299.9	7.8	3.9	26.69	8.7
1,400.0	1.80	40.34	1,399.9	10.3	5.6	28.70	11.7
1,500.0	1.83	47.16	1,499.8	12.5	7.8	31.89	14.8
1,600.0	1.65	49.45	1,599.8	14.6	10.1	34.66	17.7
1,700.0	1.43	46.79	1,699.7	16.4	12.1	36.43	20.3
1,800.0	1.28	46.43	1,799.7	18.0	13.8	37.49	22.7
1,900.0	0.77	46.91	1,899.7	19.2	15.1	38.15	24.4
2,000.0	0.64	54.72	1,999.7	20.0	16.0	38.74	25.6
2,100.0	0.51	67.44	2,099.7	20.5	16.9	39.53	26.6
2,200.0	0.28	88.47	2,199.7	20.7	17.6	40.36	27.1
2,300.0	0.28	93.75	2,299.7	20.7	18.1	41.15	27.4
2,400.0	0.31	117.08	2,399.7	20.5	18.5	42.10	27.6
2,500.0	0.26	169.20	2,499.7	20.2	18.8	43.01	27.6
2,600.0	0.14	177.93	2,599.7	19.8	18.9	43.58	27.4
2,700.0	0.16	197.15	2,699.7	19.6	18.8	43.89	27.2
2,800.0	0.12	248.62	2,799.7	19.4	18.7	43.94	26.9
2,900.0	0.20	218.61	2,899.7	19.2	18.5	43.88	26.7
3,000.0	0.22	242.32	2,999.7	19.0	18.2	43.78	26.3
3,100.0	0.16	232.37	3,099.7	18.8	17.9	43.60	26.0
3,200.0	0.24	194.98	3,199.7	18.5	17.8	43.77	25.7
3,300.0	0.32	207.47	3,299.7	18.1	17.6	44.18	25.2
3,400.0	0.34	216.85	3,399.7	17.6	17.3	44.46	24.7
3,500.0	0.45	305.97	3,499.7	17.6	16.8	43.63	24.3
3,600.0	0.67	302.62	3,599.7	18.1	16.0	41.35	24.2
3,700.0	0.76	303.79	3,699.7	18.8	14.9	38.40	24.0
3,800.0	0.68	290.37	3,799.7	19.4	13.8	35.45	23.8
3,900.0	0.55	275.38	3,899.6	19.7	12.8	33.04	23.4
4,000.0	0.76	250.34	3,999.6	19.5	11.7	30.95	22.7
4,100.0	0.86	259.85	4,099.6	19.1	10.3	28.35	21.7
4,200.0	0.92	263.43	4,199.6	18.9	8.8	24.92	20.8
4,300.0	0.98	260.32	4,299.6	18.7	7.1	20.93	20.0
4,400.0	1.02	259.94	4,399.6	18.4	5.4	16.44	19.1
4,500.0	1.02	257.04	4,499.6	18.0	3.7	11.53	18.4
4,600.0	0.83	242.89	4,599.6	17.5	2.2	7.05	17.6
4,700.0	0.91	233.87	4,699.5	16.7	0.9	3.00	16.7
4,800.0	0.92	235.54	4,799.5	15.8	-0.4	358.44	15.8
4,900.0	0.84	247.51	4,899.5	15.0	-1.8	353.29	15.1
5,000.0	0.86	256.04	4,999.5	14.6	-3.2	347.70	14.9
5,100.0	0.83	253.01	5,099.5	14.2	-4.6	342.03	14.9
5,200.0	0.77	248.21	5,199.5	13.7	-5.9	336.67	14.9
5,300.0	0.68	270.65	5,299.5	13.5	-7.1	332.10	15.2
5,400.0	0.42	281.53	5,399.5	13.5	-8.1	329.17	15.8
5,500.0	0.28	286.20	5,499.5	13.7	-8.7	327.63	16.2

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Wellbore:	VH - Job #32K0910729	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910729	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	0.32	223.57	5,599.5	13.5	-9.1	326.11	16.3
5,700.0	0.46	204.59	5,699.5	13.0	-9.5	323.91	16.1
5,800.0	0.77	192.81	5,799.5	12.0	-9.8	320.74	15.4
5,900.0	0.83	208.87	5,899.5	10.7	-10.3	316.08	14.8
6,000.0	0.86	179.90	5,999.4	9.3	-10.6	311.16	14.1
6,100.0	1.00	185.56	6,099.4	7.7	-10.7	305.61	13.2
6,200.0	1.25	173.41	6,199.4	5.7	-10.7	298.18	12.1
6,300.0	1.43	176.98	6,299.4	3.4	-10.5	287.91	11.0
6,400.0	1.55	167.79	6,399.4	0.8	-10.1	274.62	10.2
6,472.0	1.41	165.75	6,471.3	-1.0	-9.7	264.16	9.8

Checked By: _____	Approved By: _____	Date: _____
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Project: Fren
Eddy County, NM
Well: Skelly Unit #935
Wellbore: VH - Job #32K0910729
Design: VH - Job #32K0910729

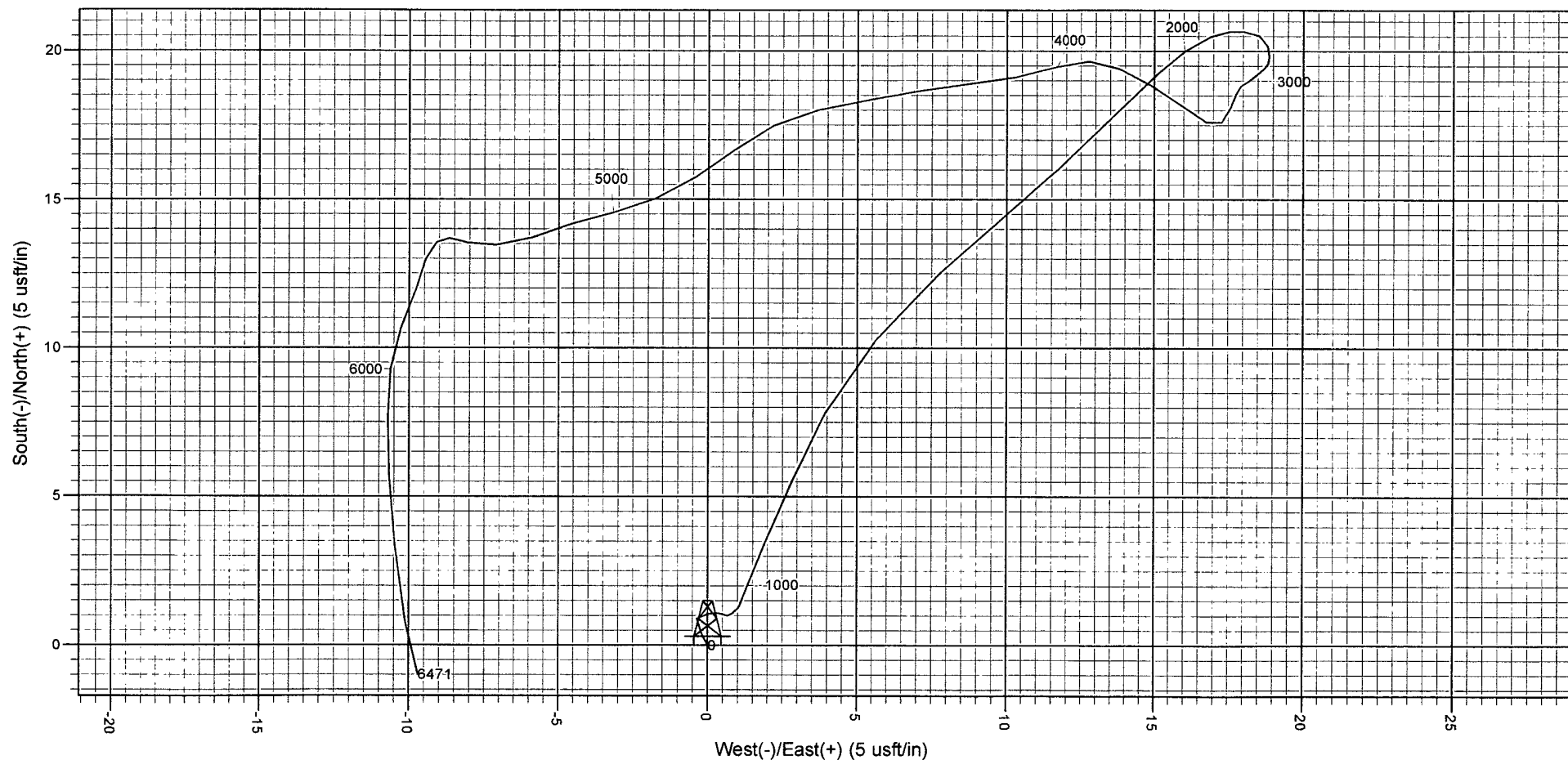


Azimuths to Grid North
True North: -0.25°
Magnetic North: 7.67°

Magnetic Field
Strength: 49081.2snT
Dip Angle: 60.72°
Date: 9/29/2010
Model: BGGM2010

WELL DETAILS: Skelly Unit #935
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	664158.07	642330.64	$32^\circ 49' 30.000\text{ N}$	$103^\circ 52' 12.000\text{ W}$	



PROJECT DETAILS: Fren
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: $32^\circ 50' 20.400\text{ N}$
Longitude: $103^\circ 51' 14.400\text{ W}$
Positional Uncertainty: 0.0
Convergence: 0.26
Local North: Grid