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HOBBSOCD

CHEVRON

Fren

Eddy County, NM

Skelly Unit #958

VH - Job #32K1010842

Survey: Actual

SDI Standard Survey Report

14 November, 2010

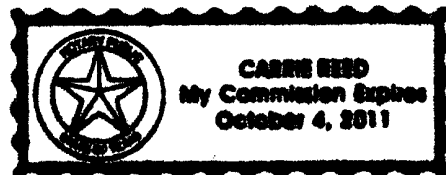
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notorized this date 14th 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 #958
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 #958	North Reference:	Grid
Wellbore:	VH - Job #32K1010842	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010842	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 #958, Vertical					
Well Position	+N/-S	0.0 usft	Northing:	667,295.13 usft	Latitude:	32° 50' 0.910 N
	+E/-W	0.0 usft	Easting:	645,328.84 usft	Longitude:	103° 51' 36.700 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft	

Wellbore						VH - Job #32K1010842					
Magnetics		Model Name		Sample Date		Declination (°)		Dip Angle (°)		Field Strength (nT)	
		BGGM2010		10/30/2010		7.90		60.73		49,078	

Design	VH - Job #32K1010842			
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	217.49

Survey Program		Date 11/14/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,517.0	Actual (VH - Job #32K1010842)	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	0.50	226.02	100.0	-0.3	-0.3	226.02	0.4	
200.0	0.76	209.72	200.0	-1.2	-1.0	218.99	1.5	
300.0	1.33	197.52	300.0	-2.9	-1.6	209.71	3.3	
400.0	1.93	191.59	399.9	-5.6	-2.3	202.45	6.1	
500.0	2.09	191.61	499.9	-9.1	-3.0	198.49	9.5	
600.0	2.12	193.06	599.8	-12.6	-3.8	196.78	13.2	
700.0	2.10	191.79	699.7	-16.2	-4.6	195.83	16.9	
800.0	1.80	190.35	799.7	-19.6	-5.3	195.04	20.3	
900.0	1.66	187.10	899.6	-22.6	-5.7	194.23	23.3	
1,000.0	1.54	185.10	999.6	-25.3	-6.0	193.37	26.0	
1,100.0	1.21	172.52	1,099.6	-27.7	-6.0	192.22	28.4	

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Wellbore:	VH - Job #32K1010842	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010842	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	0.97	156.61	1,199.5	-29.5	-5.5	190.60	30.1
1,300.0	0.85	132.54	1,299.5	-30.8	-4.6	188.57	31.2
1,400.0	0.89	111.61	1,399.5	-31.6	-3.4	186.10	31.8
1,500.0	0.98	87.39	1,499.5	-31.9	-1.8	183.24	31.9
1,600.0	1.05	86.95	1,599.5	-31.8	0.0	180.06	31.8
1,700.0	1.09	88.33	1,699.5	-31.7	1.8	176.69	31.7
1,800.0	1.00	105.67	1,799.5	-31.9	3.6	173.52	32.1
1,900.0	0.89	114.76	1,899.4	-32.5	5.2	170.95	32.9
2,000.0	0.79	113.35	1,999.4	-33.1	6.5	168.87	33.7
2,100.0	0.63	124.38	2,099.4	-33.6	7.6	167.28	34.5
2,200.0	0.54	148.93	2,199.4	-34.4	8.3	166.43	35.3
2,300.0	0.48	163.41	2,299.4	-35.2	8.7	166.18	36.2
2,400.0	0.32	162.87	2,399.4	-35.8	8.9	166.12	36.9
2,500.0	0.21	78.42	2,499.4	-36.1	9.1	165.81	37.2
2,600.0	0.26	56.69	2,599.4	-35.9	9.5	165.20	37.1
2,700.0	0.27	48.75	2,699.4	-35.6	9.9	164.54	37.0
2,800.0	0.33	18.29	2,799.4	-35.2	10.1	163.96	36.6
2,900.0	0.64	2.91	2,899.4	-34.4	10.2	163.41	35.9
3,000.0	0.86	0.80	2,999.4	-33.1	10.3	162.73	34.6
3,100.0	1.05	0.77	3,099.4	-31.4	10.3	161.83	33.0
3,200.0	1.22	1.24	3,199.4	-29.4	10.3	160.63	31.2
3,300.0	1.25	2.84	3,299.3	-27.3	10.4	159.09	29.2
3,400.0	1.24	3.90	3,399.3	-25.1	10.5	157.21	27.2
3,500.0	1.31	6.94	3,499.3	-22.9	10.8	154.82	25.3
3,600.0	1.33	7.24	3,599.3	-20.6	11.0	151.80	23.4
3,700.0	1.06	355.72	3,699.2	-18.5	11.1	149.02	21.6
3,800.0	0.93	3.45	3,799.2	-16.8	11.1	146.53	20.1
3,900.0	0.83	357.76	3,899.2	-15.2	11.1	143.90	18.9
4,000.0	0.86	342.25	3,999.2	-13.8	10.9	141.82	17.6
4,100.0	0.94	322.58	4,099.2	-12.4	10.1	140.84	16.0
4,200.0	1.01	307.72	4,199.2	-11.2	8.9	141.54	14.4
4,300.0	0.99	298.24	4,299.2	-10.3	7.5	144.03	12.7
4,400.0	0.88	289.52	4,399.2	-9.6	6.0	148.12	11.3
4,500.0	0.87	282.41	4,499.1	-9.2	4.5	153.84	10.3
4,600.0	0.90	273.16	4,599.1	-9.0	3.0	161.58	9.5
4,700.0	0.78	269.36	4,699.1	-9.0	1.5	170.29	9.1
4,800.0	0.64	267.35	4,799.1	-9.0	0.3	178.11	9.0
4,900.0	0.59	246.20	4,899.1	-9.2	-0.7	184.53	9.3
5,000.0	0.64	232.29	4,999.1	-9.8	-1.6	189.54	9.9
5,100.0	0.90	248.76	5,099.1	-10.4	-2.8	195.14	10.8
5,200.0	0.97	252.25	5,199.1	-11.0	-4.4	201.68	11.8
5,300.0	1.26	224.73	5,299.1	-12.0	-5.9	206.33	13.4
5,400.0	1.38	223.88	5,399.0	-13.6	-7.5	208.94	15.6
5,500.0	1.59	223.88	5,499.0	-15.5	-9.3	211.05	18.1

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Skelly Unit #958	North Reference:	Grid
Wellbore:	VH - Job #32K1010842	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010842	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	1.56	228.38	5,599.0	-17.4	-11.3	213.02	20.8
5,700.0	1.49	234.64	5,698.9	-19.1	-13.4	215.08	23.3
5,800.0	1.67	235.29	5,798.9	-20.7	-15.7	217.16	25.9
5,900.0	1.75	229.51	5,898.8	-22.5	-18.0	218.71	28.8
6,000.0	1.67	220.13	5,998.8	-24.6	-20.1	219.29	31.8
6,100.0	1.48	212.88	6,098.8	-26.8	-21.8	219.09	34.5
6,200.0	1.52	218.01	6,198.7	-28.9	-23.3	218.83	37.1
6,300.0	1.38	209.49	6,298.7	-31.0	-24.7	218.52	39.6
6,400.0	1.21	209.26	6,398.7	-33.0	-25.8	218.03	41.9
6,500.0	1.00	205.17	6,498.7	-34.7	-26.7	217.57	43.8
6,517.0	0.96	206.64	6,515.7	-34.9	-26.8	217.49	44.0



Project: Fren
Eddy County, NM
Well: Skelly Unit #958
Wellbore: VH - Job #32K1010842
Design: VH - Job #32K1010842

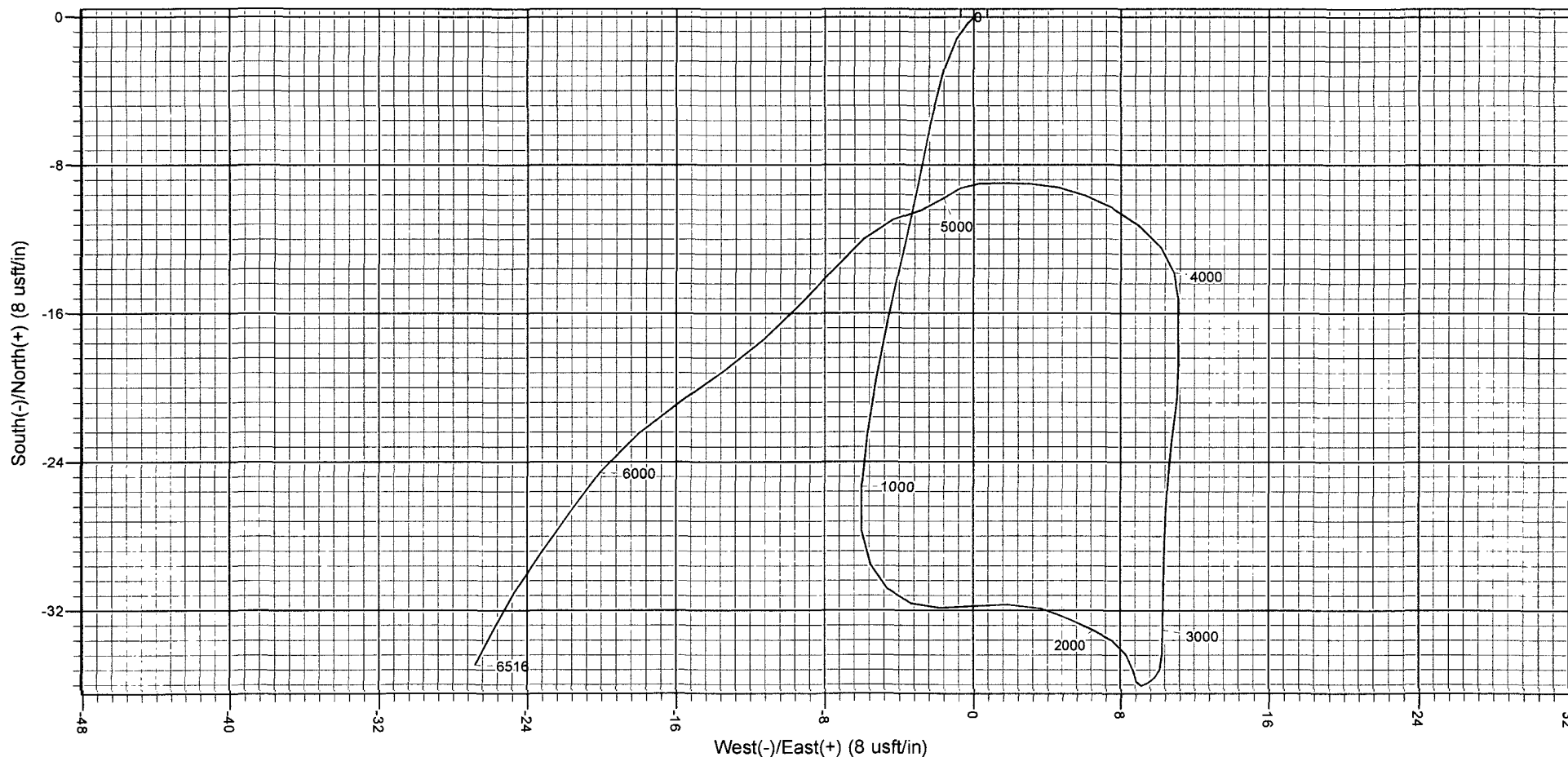


Azimuths to Grid North
True North: -0.26°
Magnetic North: 7.65°

Magnetic Field
Strength: 49078.4snT
Dip Angle: 60.73°
Date: 10/30/2010
Model: BGM2010

WELL DETAILS: Skelly Unit #958
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	667295.13	645328.84	32° 50' 0.910 N	103° 51' 36.700 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° 50' 20.400 N
Longitude: 103° 51' 14.400 W
Positional Uncertainty: 0.0
Convergence: 0.26
Local North: Grid