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HOBBSOCD

CHEVRON

Fren
Eddy County, NM
Skelly Unit #939
VH - Job #32K0810601

30-015-32588

Survey: Actual

SDI Standard Survey Report

24 September, 2010

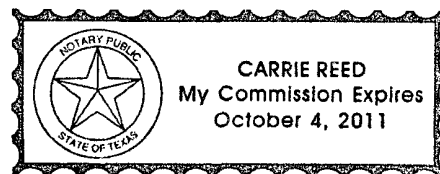
This survey is correct to the best of my knowledge and is supported by actual field data.

Wharton

Notorized this date 5th of October, 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 #939
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 #939	North Reference:	Grid
Wellbore:	VH - Job #32K0810601	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810601	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		

Well	Skelly Unit #939, Vertical					
Well Position	+N/-S	0.0 usft	Northing:	664,640.88 usft	Latitude:	32° 49' 34.733 N
	+E/-W	0.0 usft	Easting:	643,362.74 usft	Longitude:	103° 51' 59.880 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0810601				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	8/16/2010	7.93	60.72	49,096

Design	VH - Job #32K0810601				
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	228.35	

Survey Program		Date	9/24/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	6,435.0	Actual (VH - Job #32K0810601)	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	0.21	75.69	100.0	0.0	0.2	75.69	0.2	
200.0	0.33	36.26	200.0	0.3	0.5	58.44	0.6	
300.0	1.33	19.69	300.0	1.6	1.1	33.41	2.0	
400.0	1.96	14.66	399.9	4.4	1.9	23.50	4.8	
500.0	1.96	18.22	499.9	7.7	2.9	20.56	8.2	
600.0	2.01	17.66	599.8	11.0	3.9	19.78	11.7	
700.0	1.70	19.56	699.8	14.0	5.0	19.51	14.9	
800.0	1.39	25.88	799.7	16.5	6.0	19.95	17.6	
900.0	1.34	25.77	899.7	18.7	7.0	20.65	20.0	
1,000.0	1.15	34.60	999.7	20.5	8.1	21.55	22.1	
1,100.0	1.14	27.97	1,099.7	22.3	9.2	22.35	24.1	
1,200.0	1.03	31.55	1,199.6	23.9	10.1	22.89	25.9	
1,300.0	1.65	30.30	1,299.6	25.9	11.3	23.54	28.3	
1,400.0	1.52	34.07	1,399.6	28.2	12.8	24.30	31.0	
1,500.0	1.67	41.60	1,499.5	30.4	14.5	25.42	33.7	
1,600.0	1.41	47.17	1,599.5	32.4	16.3	26.78	36.3	

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Wellbore:	VH - Job #32K0810601	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810601	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	0.95	45.81	1,699.5	33.8	17.8	27.83	38.2
1,800.0	0.58	46.44	1,799.5	34.7	18.8	28.44	39.5
1,900.0	0.04	253.23	1,899.5	35.0	19.1	28.62	39.9
2,000.0	0.35	177.41	1,999.5	34.7	19.1	28.82	39.6
2,100.0	0.69	203.43	2,099.5	33.9	18.9	29.14	38.8
2,200.0	1.08	208.12	2,199.5	32.5	18.2	29.25	37.2
2,300.0	1.13	215.71	2,299.4	30.9	17.2	29.11	35.3
2,400.0	1.24	219.51	2,399.4	29.2	15.9	28.57	33.3
2,500.0	1.34	224.94	2,499.4	27.6	14.4	27.59	31.1
2,600.0	1.50	224.80	2,599.4	25.8	12.7	26.12	28.7
2,700.0	1.59	222.28	2,699.3	23.8	10.8	24.36	26.2
2,800.0	1.69	220.44	2,799.3	21.7	8.9	22.32	23.5
2,900.0	1.68	220.11	2,899.2	19.5	7.0	19.80	20.7
3,000.0	1.76	217.45	2,999.2	17.1	5.1	16.68	17.9
3,100.0	1.77	217.78	3,099.1	14.7	3.2	12.48	15.0
3,200.0	1.75	222.18	3,199.1	12.3	1.3	5.91	12.4
3,300.0	1.81	222.09	3,299.1	10.0	-0.8	355.39	10.1
3,400.0	1.79	224.49	3,399.0	7.7	-3.0	339.04	8.3
3,500.0	1.64	218.08	3,499.0	5.5	-4.9	318.03	7.4
3,600.0	1.63	218.94	3,598.9	3.3	-6.7	295.89	7.5
3,700.0	1.40	230.39	3,698.9	1.4	-8.6	279.13	8.7
3,800.0	1.62	235.66	3,798.8	-0.2	-10.7	268.91	10.7
3,900.0	2.14	248.05	3,898.8	-1.7	-13.6	262.86	13.7
4,000.0	2.08	245.18	3,998.7	-3.2	-16.9	259.44	17.2
4,100.0	1.57	252.90	4,098.7	-4.3	-19.9	257.74	20.4
4,200.0	1.52	250.60	4,198.6	-5.2	-22.5	257.04	23.0
4,300.0	1.35	249.26	4,298.6	-6.0	-24.8	256.35	25.5
4,400.0	1.39	247.71	4,398.6	-6.9	-27.0	255.68	27.9
4,500.0	1.40	240.70	4,498.6	-8.0	-29.2	254.76	30.3
4,600.0	1.07	248.65	4,598.5	-8.9	-31.2	254.06	32.4
4,700.0	0.89	244.92	4,698.5	-9.6	-32.7	253.71	34.1
4,800.0	0.96	254.68	4,798.5	-10.1	-34.2	253.54	35.7
4,900.0	1.23	216.87	4,898.5	-11.2	-35.7	252.58	37.4
5,000.0	1.21	190.47	4,998.5	-13.1	-36.5	250.28	38.8
5,100.0	1.67	199.85	5,098.4	-15.5	-37.2	247.38	40.3
5,200.0	2.26	204.56	5,198.4	-18.7	-38.5	244.15	42.8
5,300.0	2.27	208.60	5,298.3	-22.2	-40.3	241.15	46.0
5,400.0	2.01	211.15	5,398.2	-25.4	-42.1	238.89	49.2
5,500.0	1.69	212.53	5,498.2	-28.2	-43.8	237.27	52.1
5,600.0	1.38	217.84	5,598.1	-30.4	-45.4	236.20	54.6
5,700.0	1.06	208.56	5,698.1	-32.1	-46.6	235.38	56.6
5,800.0	1.03	200.01	5,798.1	-33.8	-47.3	234.46	58.1
5,900.0	0.92	205.91	5,898.1	-35.4	-48.0	233.60	59.6
6,000.0	1.28	199.94	5,998.1	-37.1	-48.7	232.67	61.2

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Wellbore:	VH - Job #32K0810601	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810601	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	1.29	206.49	6,098.0	-39.2	-49.6	231.68	63.2
6,200.0	1.24	206.90	6,198.0	-41.2	-50.6	230.86	65.2
6,300.0	1.18	197.74	6,298.0	-43.1	-51.4	230.00	67.1
6,400.0	1.23	181.42	6,398.0	-45.2	-51.7	228.87	68.7
6,435.0	1.61	182.61	6,433.0	-46.0	-51.8	228.35	69.3



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 Well: Skelly Unit #939
 Wellbore: VH - Job #32K0810601
 Design: VH - Job #32K0810601

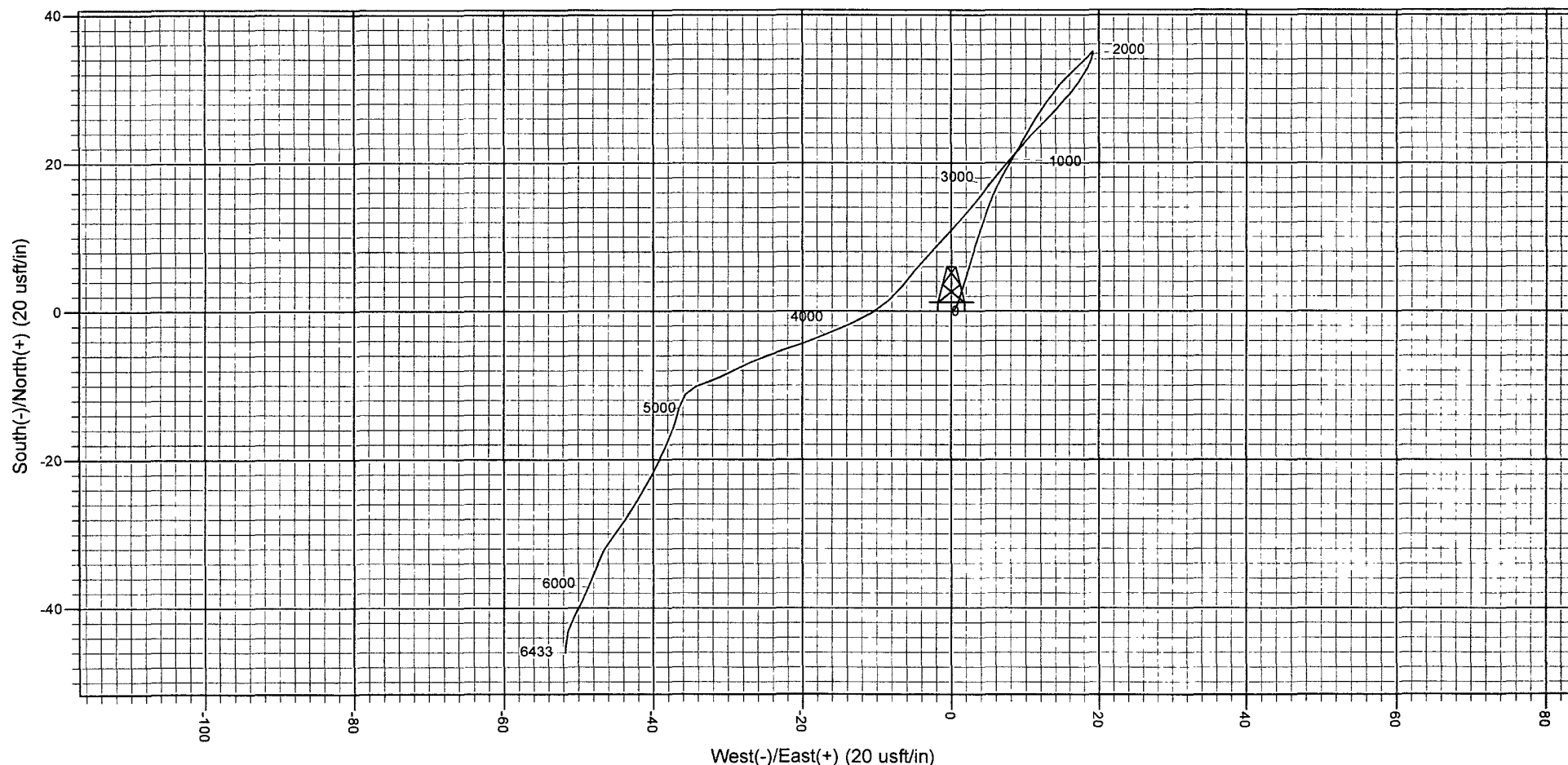


Azimuths to Grid North
 True North: -0.25°
 Magnetic North: 7.68°

Magnetic Field
 Strength: 49095.5snT
 Dip Angle: 60.72°
 Date: 8/16/2010
 Model: BGGM2010

WELL DETAILS: Skelly Unit #939
 WELL @ 0.0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	664640.88	643362.74	32° 49' 34.733 N	103° 51' 59.880 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