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30-025-39902

MEWBOURNE OIL

Wildcat Bone Springs

Lea County, NM

Red Hills West "8" Federal #1H

VH - Job #32K1010821

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.

Robert

Notorized this date 14th of November, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



APR 20 2011

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	MEWBOURNE OIL	Local Co-ordinate Reference:	Well Red Hills West "8" Federal #1H
Project:	Wildcat Bone Springs	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Red Hills West "8" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K1010821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010821	Database:	EDM-Regulatory

Project	Wildcat Bone Springs		
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	Lea County, NM		
Site Position:		Northing:	382,884.16 usft
From:	Lat/Long	Easting:	699,520.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 3' 3.700 N
		Longitude:	103° 41' 21.680 W
		Grid Convergence:	0.34 °

Well	Red Hills West "8" Federal #1H, Directional (Baker Inteq)		
Well Position	+N-S	0.0 usft	Northing: 382,884.16 usft
	+E-W	0.0 usft	Easting: 699,520.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 3' 3.700 N
		Longitude:	103° 41' 21.680 W
		Ground Level:	0.0 usft

Wellbore	VH - Job #32K1010821				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	10/23/2010	(°)	(°)	(nT)
			7.76	60.02	48,625

Design	VH - Job #32K1010821			
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	359.50

Survey Program	Date 11/14/2010			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	9,475.0	Actual (VH - Job #32K1010821)	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	0.22	130.11	100.0	-0.1	0.1	130.11	0.2	
200.0	0.12	158.20	200.0	-0.3	0.3	136.02	0.5	
300.0	0.23	227.05	300.0	-0.6	0.2	158.79	0.6	
400.0	0.28	215.30	400.0	-0.9	-0.1	183.98	0.9	
500.0	0.50	196.61	500.0	-1.5	-0.3	192.14	1.6	
600.0	0.68	194.59	600.0	-2.5	-0.6	193.45	2.6	
700.0	0.75	186.83	700.0	-3.7	-0.8	192.50	3.8	
800.0	0.75	200.98	800.0	-5.0	-1.1	192.85	5.1	
900.0	1.24	185.23	900.0	-6.7	-1.5	192.43	6.9	
1,000.0	1.09	216.05	999.9	-8.5	-2.1	194.03	8.8	
1,100.0	1.24	181.19	1,099.9	-10.4	-2.7	194.65	10.7	

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Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Red Hills West "8" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K1010821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010821	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	1.40	161.00	1,199.9	-12.6	-2.3	190.50	12.8	
1,300.0	1.42	149.03	1,299.9	-14.9	-1.3	185.03	14.9	
1,400.0	1.30	148.11	1,399.8	-16.9	-0.1	180.24	16.9	
1,500.0	1.11	144.70	1,499.8	-18.6	1.1	176.65	18.7	
1,600.0	0.86	198.82	1,599.8	-20.1	1.4	176.00	20.2	
1,700.0	1.81	210.40	1,699.8	-22.2	0.4	179.06	22.2	
1,800.0	1.83	205.25	1,799.7	-25.0	-1.1	182.55	25.0	
1,900.0	2.09	196.23	1,899.7	-28.2	-2.3	184.67	28.3	
2,000.0	2.04	199.10	1,999.6	-31.6	-3.4	186.13	31.8	
2,100.0	1.86	191.47	2,099.5	-34.9	-4.3	187.03	35.2	
2,200.0	1.84	189.97	2,199.5	-38.1	-4.9	187.34	38.4	
2,300.0	2.04	190.61	2,299.4	-41.4	-5.5	187.58	41.8	
2,400.0	1.87	193.12	2,399.4	-44.7	-6.2	187.90	45.2	
2,500.0	1.52	199.86	2,499.3	-47.6	-7.0	188.40	48.1	
2,600.0	1.11	200.13	2,599.3	-49.7	-7.8	188.92	50.4	
2,700.0	0.99	203.56	2,699.3	-51.4	-8.5	189.37	52.1	
2,800.0	1.03	206.53	2,799.3	-53.0	-9.2	189.88	53.8	
2,900.0	0.82	199.08	2,899.3	-54.5	-9.9	190.26	55.4	
3,000.0	0.81	196.52	2,999.2	-55.9	-10.3	190.45	56.8	
3,100.0	0.70	155.46	3,099.2	-57.1	-10.3	190.18	58.0	
3,200.0	0.58	110.63	3,199.2	-57.8	-9.5	189.35	58.6	
3,300.0	1.37	67.13	3,299.2	-57.6	-8.0	187.87	58.1	
3,400.0	1.41	65.56	3,399.2	-56.6	-5.7	185.78	56.9	
3,500.0	1.28	64.65	3,499.2	-55.6	-3.6	183.71	55.7	
3,600.0	1.29	71.53	3,599.1	-54.8	-1.5	181.59	54.8	
3,700.0	1.91	97.18	3,699.1	-54.6	1.2	178.74	54.6	
3,800.0	2.77	109.23	3,799.0	-55.6	5.1	174.73	55.9	
3,900.0	2.82	110.41	3,898.9	-57.3	9.7	170.37	58.1	
4,000.0	3.49	113.75	3,998.7	-59.4	14.8	165.99	61.2	
4,100.0	3.75	118.74	4,098.5	-62.2	20.5	161.78	65.4	
4,200.0	3.50	119.43	4,198.3	-65.2	26.0	158.27	70.2	
4,300.0	2.73	122.11	4,298.2	-68.0	30.7	155.72	74.6	
4,400.0	2.25	115.31	4,398.1	-70.1	34.5	153.82	78.1	
4,500.0	2.04	117.50	4,498.0	-71.8	37.8	152.21	81.1	
4,600.0	1.82	117.38	4,598.0	-73.3	40.8	150.90	83.9	
4,700.0	1.58	115.64	4,697.9	-74.6	43.5	149.79	86.4	
4,800.0	1.44	118.79	4,797.9	-75.8	45.8	148.87	88.6	
4,900.0	1.17	120.83	4,897.9	-77.0	47.8	148.17	90.6	
5,000.0	1.17	121.95	4,997.8	-78.0	49.5	147.60	92.4	
5,100.0	1.15	128.82	5,097.8	-79.2	51.2	147.14	94.3	
5,200.0	1.01	128.18	5,197.8	-80.4	52.6	146.78	96.1	
5,300.0	0.95	136.74	5,297.8	-81.5	53.9	146.53	97.7	
5,400.0	0.68	152.60	5,397.8	-82.7	54.7	146.48	99.1	
5,500.0	0.69	166.60	5,497.8	-83.8	55.2	146.64	100.3	

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Wellbore:	VH - Job #32K1010821	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010821	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	0.59	186.72	5,597.8	-84.9	55.2	146.94	101.3
5,700.0	0.59	196.58	5,697.8	-85.9	55.0	147.35	102.0
5,800.0	0.58	197.02	5,797.8	-86.8	54.7	147.78	102.7
5,900.0	0.53	194.87	5,897.8	-87.8	54.5	148.18	103.3
6,000.0	0.55	193.60	5,997.8	-88.7	54.2	148.55	104.0
6,100.0	0.54	193.92	6,097.7	-89.6	54.0	148.92	104.6
6,200.0	0.56	185.71	6,197.7	-90.6	53.8	149.26	105.4
6,300.0	0.59	195.59	6,297.7	-91.5	53.7	149.62	106.1
6,400.0	0.69	214.63	6,397.7	-92.5	53.2	150.11	106.7
6,500.0	0.71	207.31	6,497.7	-93.6	52.6	150.68	107.3
6,600.0	0.76	214.93	6,597.7	-94.7	51.9	151.27	108.0
6,700.0	1.02	206.67	6,697.7	-96.0	51.1	151.97	108.8
6,800.0	1.15	215.37	6,797.7	-97.6	50.1	152.82	109.7
6,900.0	1.10	210.44	6,897.7	-99.3	49.1	153.70	110.7
7,000.0	1.20	213.30	6,997.6	-101.0	48.0	154.57	111.8
7,100.0	1.26	220.06	7,097.6	-102.7	46.7	155.54	112.8
7,200.0	1.26	225.85	7,197.6	-104.3	45.2	156.56	113.7
7,300.0	1.29	227.78	7,297.6	-105.8	43.6	157.61	114.4
7,400.0	1.53	224.24	7,397.5	-107.5	41.8	158.74	115.4
7,500.0	1.53	217.56	7,497.5	-109.5	40.1	159.90	116.6
7,600.0	1.60	215.97	7,597.5	-111.7	38.5	161.01	118.2
7,700.0	1.66	213.44	7,697.4	-114.1	36.8	162.10	119.9
7,800.0	1.56	213.03	7,797.4	-116.4	35.3	163.13	121.7
7,900.0	1.70	215.72	7,897.4	-118.8	33.7	164.16	123.5
8,000.0	1.72	215.79	7,997.3	-121.2	31.9	165.23	125.3
8,100.0	1.65	214.87	8,097.3	-123.6	30.2	166.25	127.2
8,200.0	1.52	218.03	8,197.2	-125.8	28.6	167.19	129.0
8,300.0	1.51	217.18	8,297.2	-127.9	27.0	168.08	130.7
8,400.0	1.39	224.07	8,397.2	-129.8	25.4	168.95	132.3
8,500.0	1.55	228.79	8,497.1	-131.6	23.5	169.88	133.7
8,600.0	1.57	222.61	8,597.1	-133.5	21.5	170.83	135.2
8,700.0	2.02	235.13	8,697.0	-135.5	19.2	171.95	136.9
8,800.0	2.15	242.65	8,797.0	-137.4	16.1	173.33	138.3
8,900.0	2.14	243.60	8,896.9	-139.1	12.7	174.77	139.6
9,000.0	1.72	236.13	8,996.8	-140.7	9.8	176.02	141.1
9,100.0	1.48	216.37	9,096.8	-142.6	7.8	176.87	142.8
9,200.0	1.66	204.31	9,196.8	-145.0	6.4	177.46	145.1
9,300.0	2.48	181.99	9,296.7	-148.5	5.8	177.78	148.6
9,400.0	2.81	179.11	9,396.6	-153.1	5.7	177.86	153.2
9,475.0	2.64	181.74	9,471.5	-156.6	5.7	177.92	156.7



Scientific Drilling
Directional Drilling Operations

Project: Wildcat Bone Springs
Lea County, NM
Well: Red Hills West "8" Federal #1H
Wellbore: VH - Job #32K1010821
Design: VH - Job #32K1010821

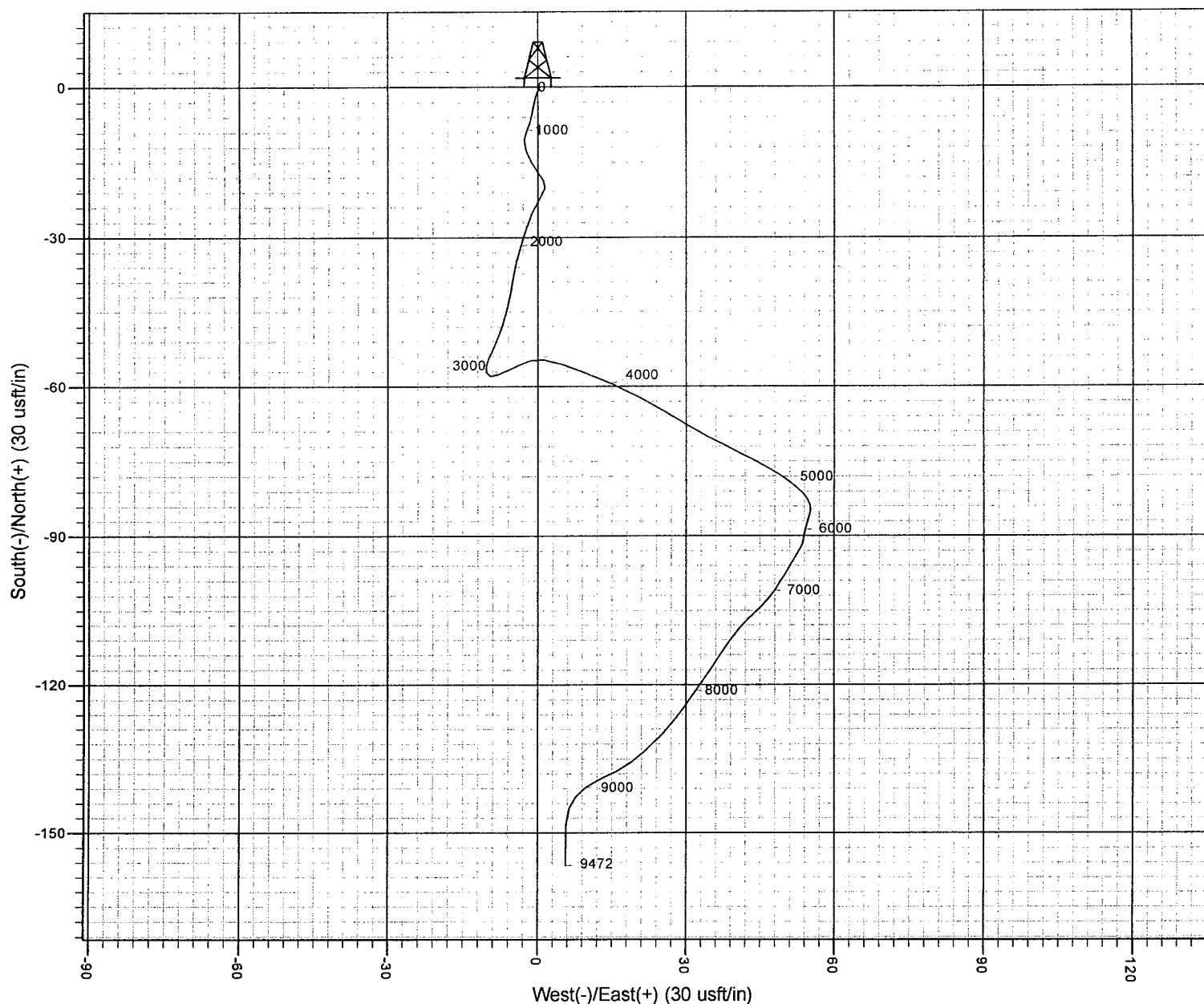


Azimuths to Grid North
True North: -0.34°
Magnetic North: 7.42°

Magnetic Field
Strength: 48625.0snT
Dip Angle: 60.02°
Date: 10/23/2010
Model: BGGM2010

WELL DETAILS: Red Hills West "8" Federal #1H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	382884.16	699520.90	32° 3' 3.700 N	103° 41' 21.680 W	



PROJECT DETAILS: Wildcat Bone Springs
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: Lea County, NM
Site Centre Latitude: 32° 3' 3.700 N
Longitude: 103° 41' 21.680 W
Positional Uncertainty: 0.0
Convergence: 0.34
Local North: Grid