

MEWBOURNE OIL

Cemetery Yeso

Eddy County, NM

Long Draw "9" BO Federal Com #1H

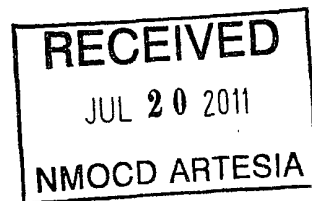
VH - Job #32K0111039

30-015-38309

Survey: Actual

SDI Standard Survey Report

23 January, 2011



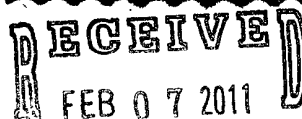
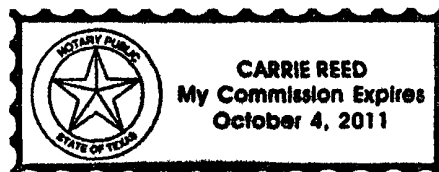
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 23rd of January 2011.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	MEWBORNE OIL	Local Co-ordinate Reference:	Well Long Draw "9" BO Federal Com #1H
Project:	Cemetery Yeso	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Long Draw "9" BO Federal Com #1H	North Reference:	Gnd
Wellbore:	VH - Job #32K0111039	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111039	Database:	EDM-Regulatory

Project:	Cemetery Yeso	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Eddy County, NM		
Site Position:		Northing:	579,246.37 usft
From:	Lat/Long	Easting:	452,285.36 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0"
		Latitude:	32° 35' 32.490 N
		Longitude:	104° 29' 17.730 W
		Grid Convergence:	-0.08 °

Well	Long Draw "9" BO Federal Com #1H, Directional (DDC)				
Well Position	+N-S	0.0 usft	Northing:	580,566.06 usft	Latitude: 32° 35' 45.550 N
	+E-W	0.0 usft	Easting:	452,330.91 usft	Longitude: 104° 29' 17.220 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0111039				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	1/16/2011	8.15	60 38	48,829

Design:	VH - Job #32K0111039				
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	180.25	

Survey Program	Date	1/23/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	1,811.0	Actual (VH - Job #32K0111039)	Keeper	Keeper Gyro

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
100.0	0.15	193.21	100.0	-0.1	0.0	193.21	0.1
200.0	0.27	231.87	200.0	-0.4	-0.2	211.48	0.5
300.0	0.78	241.14	300.0	-0.9	-1.0	229.58	1.3
400.0	0.80	233.64	400.0	-1.6	-2.2	233.50	2.7
500.0	0.77	228.73	500.0	-2.5	-3.3	232.74	4.1
600.0	0.78	231.50	600.0	-3.3	-4.3	232.09	5.4
700.0	0.77	222.03	700.0	-4.3	-5.3	231.04	6.8
800.0	0.49	221.18	800.0	-5.1	-6.0	229.74	7.9
900.0	0.35	230.37	899.9	-5.6	-6.5	229.34	8.6
1,000.0	0.51	298.58	999.9	-5.6	-7.1	232.00	9.1
1,100.0	0.58	238.85	1,099.9	-5.6	-8.0	234.76	9.8

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SDI Standard Survey Report

Company:	MEWBOURNE OIL	Local Co-ordinate Reference:	Well Long Draw "9" BO Federal Com #1H
Project:	Cemetery Yeso	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Long Draw "9" BO Federal Com #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0111039	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111039	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	0.65	253.47	1,199.9	-6.1	-8.9	235.91	10.8
1,300.0	0.52	254.53	1,299.9	-6.3	-9.9	237.45	11.8
1,400.0	0.67	268.77	1,399.9	-6.5	-11.0	239.42	12.7
1,500.0	0.97	268.94	1,499.9	-6.5	-12.4	242.30	14.0
1,600.0	1.17	269.65	1,599.9	-6.5	-14.2	245.41	15.7
1,700.0	1.22	276.77	1,699.9	-6.4	-16.3	248.59	17.5
1,800.0	1.69	275.12	1,799.8	-6.1	-18.9	251.95	19.8
1,811.0	1.80	280.25	1,810.8	-6.1	-19.2	252.36	20.1



Project: Cemetery Yeso
Eddy County, NM
Well: Long Draw "9" BO Federal Com #1H
Wellbore: VH - Job #32K0111039
Design: VH - Job #32K0111039

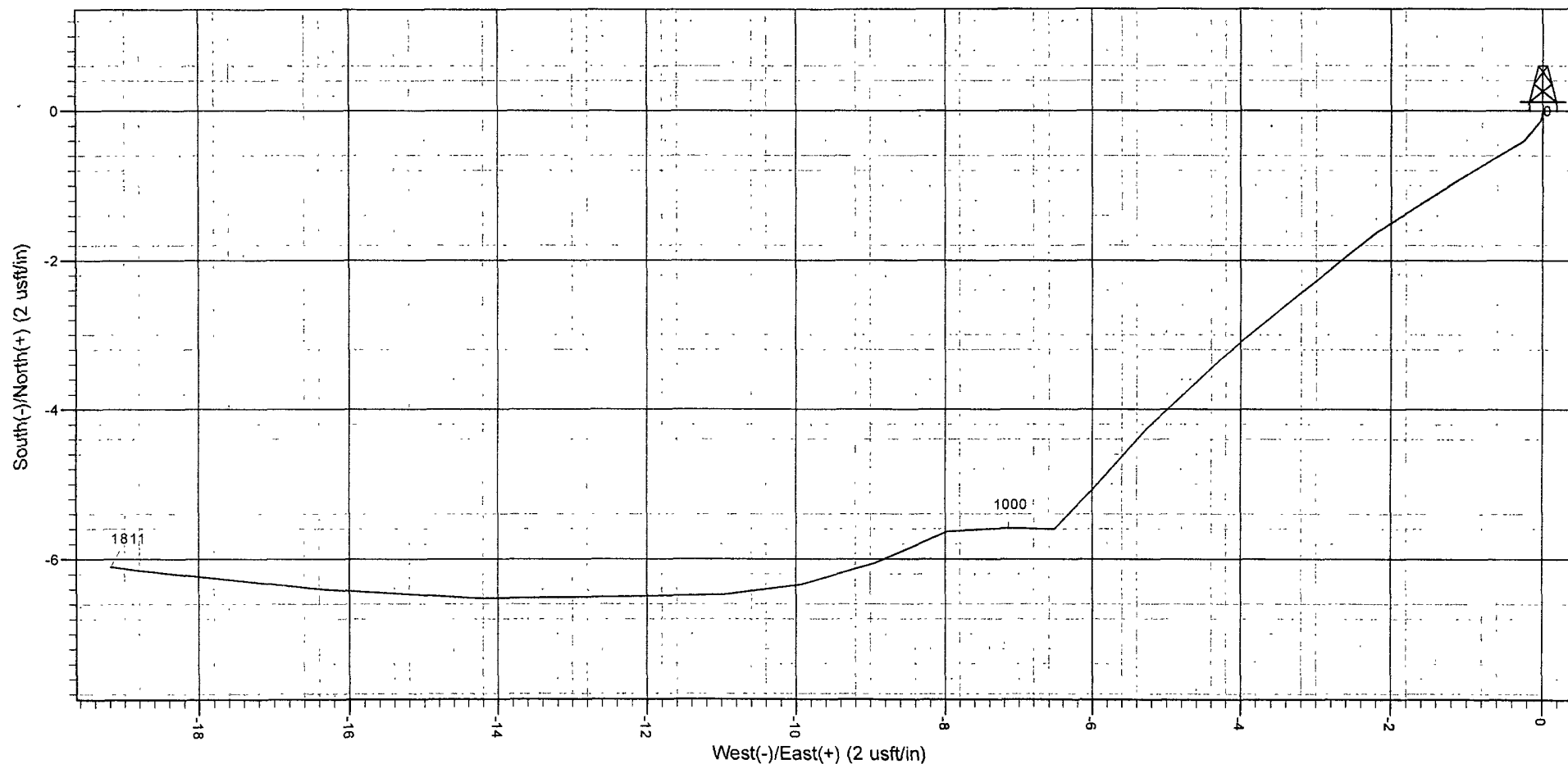


Azimuths to Gnd North
True North 0.08°
Magnetic North 8.23°

Magnetic Field
Strength 48829 4snT
Dip Angle 60.38°
Date: 1/16/2011
Model: BGGM2010

WELL DETAILS: Long Draw "9" BO Federal Com #1H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	580566.06	452330.91	32° 35' 45.550 N	104° 29' 17.220 W	



PROJECT DETAILS: Cemetery Yeso
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° 35' 32.490 N
Longitude: 104° 29' 17.730 W
Positional Uncertainty: 0.0
Convergence: -0.08
Local North: Grid