

MEWBOURNE OIL

Cemetery Yeso

Eddy County, NM

Gunsmoke "9" NM #1H

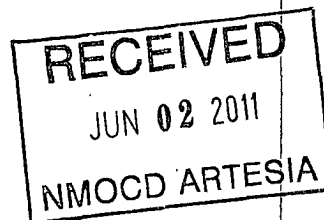
VH - Job #32K0211113

30-015-38111

Survey: Actual

SDI Standard Survey Report

11 February, 2011



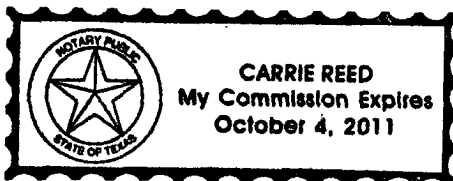
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 11th of February, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

FEB 25 2011

BY:

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	MEWBORNE OIL	Local Co-ordinate Reference:	Well Gunsmoke "9" NM #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:	Gunsmoke "9" NM #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0211113	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211113	Database:	EDM-Regulatory

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

Well	Gunsmoke "9" NM #1H, Directional (DDC)					
Well Position	+N/-S	0.0 usft	Northing:	575,332.60 usft	Latitude:	32° 34' 53.760 N
	+E/-W	0.0 usft	Easting:	452,267.68 usft	Longitude:	104° 29' 17.870 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0211113				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	2/7/2011	8 14	60 37	48,814

Design					VH - Job #32K0211113							
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			270.91	

Survey Program		Date	2/11/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 0	1,753 0	Actual (VH - Job #32K0211113)	Keeper	Keeper Gyro	

Survey							
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	0.40	333.42	100.0	0.3	-0.2	333.42	0.3
200.0	0.50	323.33	200.0	1.0	-0.6	329.54	1.1
300.0	0.96	306.56	300.0	1.8	-1.5	320.44	2.4
400.0	1.06	315.13	400.0	3.0	-2.8	316.44	4.1
500.0	0.96	317.87	500.0	4.3	-4.0	316.44	5.9
600.0	0.98	323.45	599.9	5.6	-5.1	317.39	7.6
700.0	0.82	335.96	699.9	6.9	-5.9	319.39	9.1
800.0	0.77	351.97	799.9	8.2	-6.3	322.52	10.4
900.0	0.78	359.97	899.9	9.6	-6.4	326.23	11.5
1,000.0	1.15	50.35	999.9	10.9	-5.6	332.68	12.3
1,100.0	1.15	62.73	1,099.9	12.0	-4.0	341.72	12.6

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Gunsmoke "9" NM #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0211113	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211113	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	1.10	60.80	1,199.9	12.9	-2.2	350.20	13.1	
1,300.0	1.07	59.18	1,299.8	13.9	-0.6	357.56	13.9	
1,400.0	0.98	62.78	1,399.8	14.7	1.0	3.77	14.8	
1,500.0	0.69	62.38	1,499.8	15.4	2.3	8.36	15.6	
1,600.0	0.46	49.32	1,599.8	15.9	3.1	11.01	16.2	
1,700.0	0.23	54.30	1,699.8	16.3	3.6	12.34	16.7	
1,753.0	0.25	75.59	1,752.8	16.4	3.8	12.93	16.8	



Scientific Drilling
Directional Drilling Operations

Project: Cemetery Yeso
Eddy County, NM
Well: Gunsmoke "9" NM #1H
Wellbore: VH - Job #32K0211113
Design: VH - Job #32K0211113

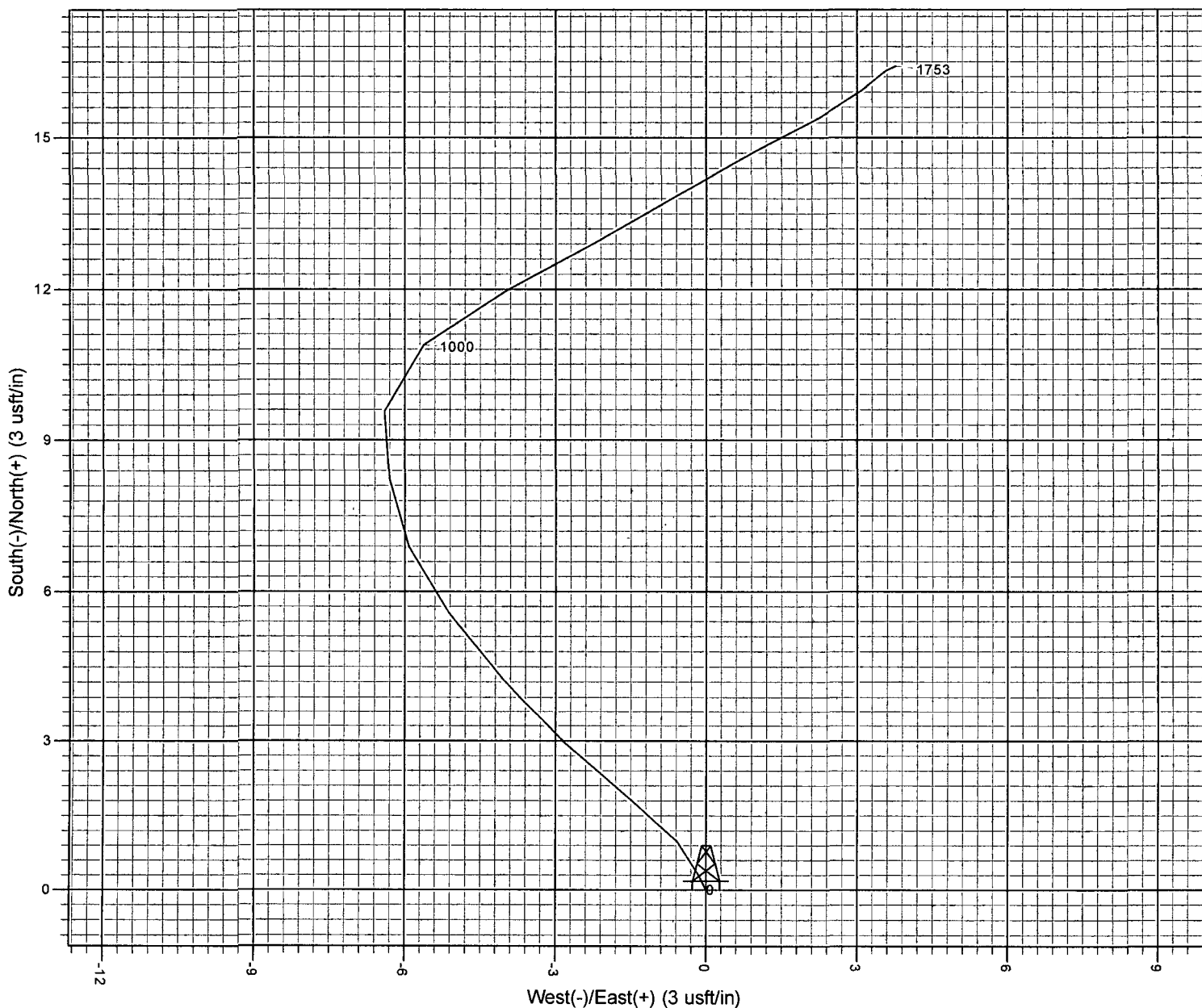


Azimuths to Grid North
True North: 0 08°
Magnetic North 8.22°

Magnetic Field
Strength 48814.1snT
Dip Angle 60 37°
Date 2/7/2011
Model BGGM2010

WELL DETAILS: Gunsmoke "9" NM #1H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	575332.60	452267.68	32° 34' 53.760 N	104° 29' 17.870 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