

MEWBOURNE OIL

Sand Tank

Eddy County, NM

Aries "20" Federal Com #2H

VH - Job #32K0111098

30-015-3839Z

Survey: Actual

SDI Standard Survey Report

31 January, 2011

RECEIVED

APR 25 2011

NMOCD ARTESIA

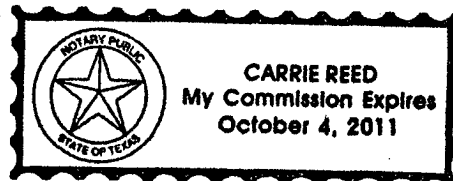
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 31st of January, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



RECEIVED
FEB 25 2011

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	MEWBOURNE OIL	Local Co-ordinate Reference:	Well Aries "20" Federal Com #2H
Project:	Sand Tank	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Aries "20" Federal Com #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0111098	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111098	Database:	EDM-Regulatory

Project	Sand Tank	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:	631,082.76 usft
From:	Lat/Long	Easting:	602,014.46 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 44' 4.210 N
		Longitude:	104° 0' 5.680 W
		Grid Convergence:	0.18 °

Well	Aries "20" Federal Com #2H, Directional (DDC)		
Well Position	+N/-S	0.0 usft	Northing: 631,082.76 usft
	+E/-W	0.0 usft	Easting: 602,014.46 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 44' 4.210 N
		Longitude:	104° 0' 5.680 W
		Ground Level:	0.0 usft

Wellbore						VH - Job #32K0111098					
Magnetics		Model Name		Sample Date		Declination		Dip Angle		Field Strength	
						(°)		(°)		(nT)	
		BGGM2010		1/29/2011		7.93		60.60		48,973	

Design	VH - Job #32K0111098				
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	89.11	

Survey Program	Date	1/31/2011		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	7,440.0	Actual (VH - Job #32K0111098)	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	0.25	217.22	100.0	-0.2	-0.1	217.22	0.2	
200.0	1.49	175.93	200.0	-1.6	-0.2	185.96	1.7	
300.0	1.49	182.35	300.0	-4.2	-0.1	181.79	4.2	
400.0	1.41	190.40	399.9	-6.7	-0.4	183.46	6.8	
500.0	1.39	186.05	499.9	-9.2	-0.8	184.73	9.2	
600.0	1.43	180.28	599.9	-11.6	-0.9	184.39	11.7	
700.0	1.42	178.56	699.8	-14.1	-0.9	183.52	14.1	
800.0	1.47	175.25	799.8	-16.6	-0.7	182.51	16.6	
900.0	1.44	172.90	899.8	-19.1	-0.5	181.40	19.2	
1,000.0	1.49	162.71	999.7	-21.6	0.1	179.80	21.6	
1,100.0	1.51	132.66	1,099.7	-23.8	1.4	176.56	23.8	

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company: MEWBOURNE OIL
Project: Sand Tank
Site: Eddy County, NM
Well: Aries "20" Federal Com #2H
Wellbore: VH - Job #32K0111098
Design: VH - Job #32K0111098

Local Co-ordinate Reference: Well Aries "20" Federal Com #2H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	1.51	124.13	1,199.7	-25.4	3.5	172.18	25.6	
1,300.0	1.42	120.86	1,299.6	-26.8	5.6	168.10	27.4	
1,400.0	1.10	114.89	1,399.6	-27.8	7.6	164.76	28.8	
1,500.0	0.96	118.35	1,499.6	-28.6	9.2	162.21	30.1	
1,600.0	0.64	109.67	1,599.6	-29.2	10.4	160.31	31.0	
1,700.0	0.83	115.78	1,699.6	-29.7	11.6	158.63	31.9	
1,800.0	0.58	118.44	1,799.6	-30.3	12.7	157.20	32.8	
1,900.0	0.46	127.67	1,899.6	-30.8	13.5	156.32	33.6	
2,000.0	0.52	114.02	1,999.6	-31.2	14.2	155.49	34.3	
2,100.0	0.55	115.88	2,099.6	-31.6	15.1	154.49	35.0	
2,200.0	0.73	115.72	2,199.5	-32.1	16.1	153.38	35.9	
2,300.0	0.76	117.75	2,299.5	-32.6	17.2	152.17	36.9	
2,400.0	0.69	126.85	2,399.5	-33.3	18.3	151.22	38.0	
2,500.0	0.55	108.20	2,499.5	-33.8	19.2	150.37	38.9	
2,600.0	0.60	109.62	2,599.5	-34.2	20.2	149.41	39.7	
2,700.0	0.41	79.96	2,699.5	-34.3	21.0	148.46	40.2	
2,800.0	0.45	67.61	2,799.5	-34.1	21.7	147.44	40.4	
2,900.0	0.36	42.80	2,899.5	-33.7	22.3	146.46	40.4	
3,000.0	0.42	55.91	2,999.5	-33.2	22.8	145.50	40.3	
3,100.0	0.41	27.10	3,099.5	-32.7	23.3	144.53	40.2	
3,200.0	0.45	25.08	3,199.5	-32.0	23.6	143.58	39.8	
3,300.0	0.35	25.57	3,299.5	-31.4	23.9	142.69	39.5	
3,400.0	0.51	20.76	3,399.5	-30.7	24.2	141.74	39.1	
3,500.0	0.47	20.73	3,499.5	-29.9	24.5	140.65	38.7	
3,600.0	0.83	19.06	3,599.5	-28.8	24.9	139.19	38.1	
3,700.0	0.63	27.46	3,699.5	-27.7	25.4	137.46	37.6	
3,800.0	0.81	20.27	3,799.5	-26.5	25.9	135.68	37.1	
3,900.0	0.86	357.35	3,899.5	-25.1	26.1	133.89	36.2	
4,000.0	1.17	354.22	3,999.4	-23.3	26.0	131.95	34.9	
4,100.0	1.20	355.01	4,099.4	-21.3	25.8	129.55	33.4	
4,200.0	1.26	352.20	4,199.4	-19.2	25.5	126.87	31.9	
4,300.0	1.67	2.15	4,299.4	-16.6	25.4	123.14	30.4	
4,400.0	2.04	14.53	4,399.3	-13.4	25.9	117.37	29.2	
4,500.0	1.94	18.44	4,499.3	-10.1	26.9	110.57	28.8	
4,600.0	2.37	28.93	4,599.2	-6.7	28.5	103.22	29.2	
4,700.0	2.35	28.20	4,699.1	-3.1	30.4	95.76	30.6	
4,800.0	1.82	8.67	4,799.0	0.3	31.6	89.45	31.6	
4,900.0	1.51	1.42	4,899.0	3.2	31.9	84.29	32.1	
5,000.0	1.31	358.64	4,999.0	5.7	31.9	79.96	32.4	
5,100.0	1.50	357.53	5,098.9	8.1	31.8	75.72	32.8	
5,200.0	1.57	355.94	5,198.9	10.8	31.7	71.21	33.5	
5,300.0	1.46	353.93	5,298.9	13.4	31.4	66.90	34.2	
5,400.0	1.29	349.15	5,398.8	15.8	31.1	63.09	34.9	
5,500.0	1.35	344.84	5,498.8	18.0	30.6	59.48	35.5	

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	MEWBOURNE OIL	Local Co-ordinate Reference:	Well Aries "20" Federal Com #2H
Project:	Sand Tank	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Aries "20" Federal Com #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0111098	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111098	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	0.94	346.93	5,598.8	20.0	30.1	56.44	36.1	
5,700.0	0.98	346.78	5,698.8	21.6	29.7	53.99	36.7	
5,800.0	0.96	328.60	5,798.8	23.1	29.1	51.48	37.2	
5,900.0	1.26	303.63	5,898.7	24.5	27.7	48.57	37.0	
6,000.0	1.03	297.52	5,998.7	25.5	26.0	45.58	36.4	
6,100.0	0.95	283.22	6,098.7	26.1	24.4	43.09	35.7	
6,200.0	0.70	229.49	6,198.7	25.9	23.1	41.79	34.7	
6,300.0	0.73	206.11	6,298.7	24.9	22.4	41.94	33.5	
6,400.0	0.83	229.73	6,398.7	23.9	21.6	42.08	32.2	
6,500.0	0.49	274.89	6,498.7	23.4	20.6	41.27	31.2	
6,600.0	0.73	311.94	6,598.7	23.9	19.7	39.46	31.0	
6,700.0	1.27	317.28	6,698.7	25.1	18.5	36.27	31.2	
6,800.0	1.09	304.68	6,798.6	26.5	16.9	32.55	31.4	
6,900.0	0.97	282.27	6,898.6	27.2	15.3	29.35	31.2	
7,000.0	1.10	284.40	6,998.6	27.6	13.6	26.12	30.8	
7,100.0	0.93	287.63	7,098.6	28.1	11.8	22.84	30.5	
7,200.0	0.75	295.99	7,198.6	28.7	10.5	20.10	30.5	
7,300.0	0.62	271.57	7,298.6	29.0	9.4	17.91	30.4	
7,400.0	0.56	250.81	7,398.6	28.8	8.4	16.17	30.0	
7,440.0	0.60	239.65	7,438.6	28.6	8.0	15.59	29.7	



Project: Sand Tank
Eddy County, NM
Well: Aries "20" Federal Com #2H
Wellbore: VH - Job #32K0111098
Design: VH - Job #32K0111098

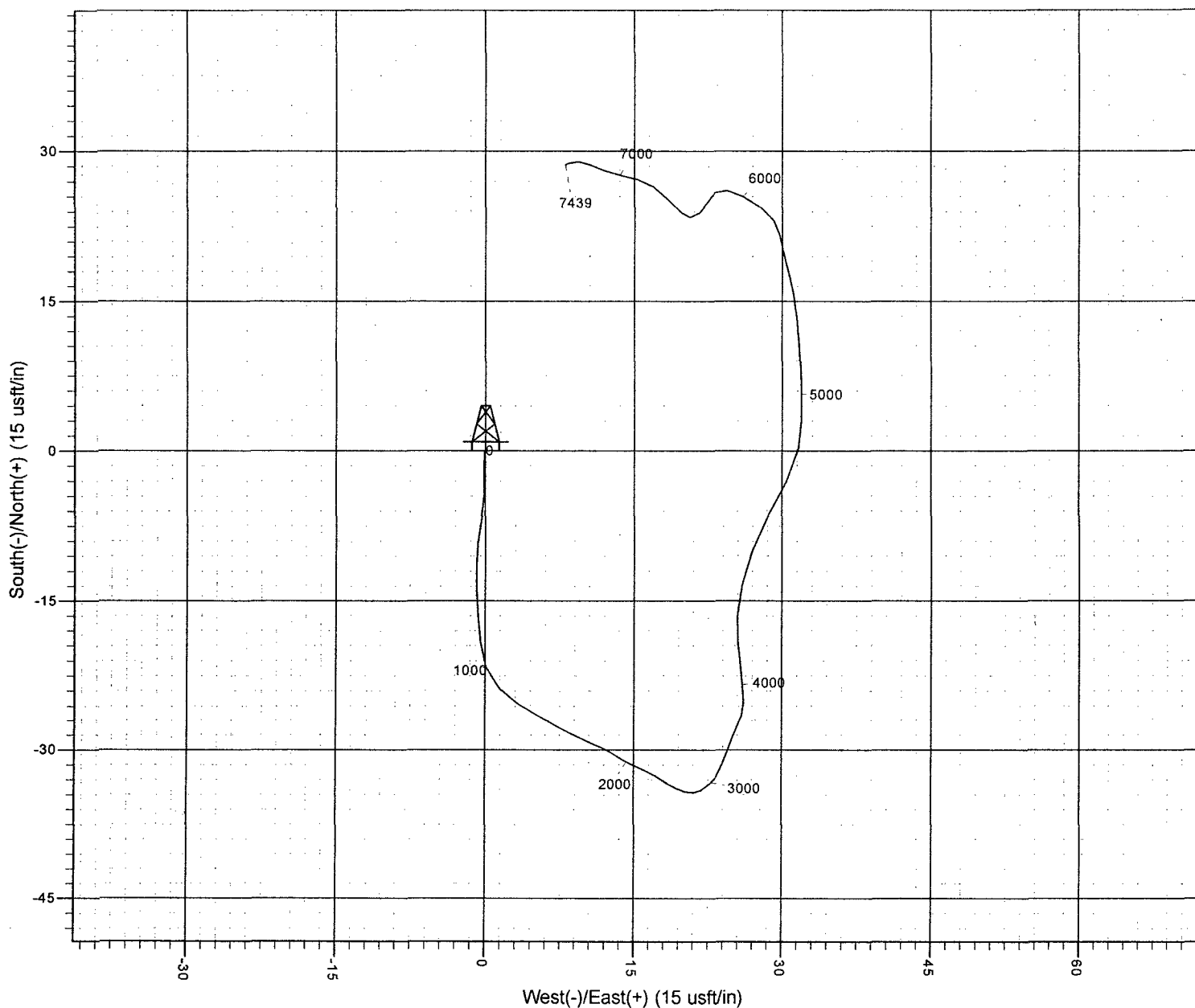


Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.75°

Magnetic Field
Strength: 48973.1nT
Dip Angle: 60.60°
Date: 1/29/2011
Model: BGGM2010

WELL DETAILS: Aries "20" Federal Com #2H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	631082.76	602014.46	32° 44' 4.210 N	104° 0' 5.680 W	



PROJECT DETAILS: Sand Tank
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° 44' 4.210 N
Longitude: 104° 0' 5.680 W
Positional Uncertainty: 0.0
Convergence: 0.18
Local North: Grid