

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE SHARPS 3 FED COM #2H
COUNTY EDDY

046-0076

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-39822

260	0.29
592	0.25
843	1.65
970	1.89
1,065	2.52
1,160	2.05
1,255	1.14
1,319	1.43
1,445	1.31
1,635	1.53
2,065	1.40
2,414	1.31
2,764	3.05
2,859	2.68
2,986	3.23
3,113	2.27
3,274	2.42
3,520	0.89
3,773	0.32
4,270	0.46
4,756	0.54
5,223	0.86
5,644	0.53
6,114	1.10
6,527	0.88
6,908	0.32
7,226	1.04

STATE OF TEXAS

COUNTY OF MIDLAND

BY:

Kyle Hollingsworth

Received

The foregoing instrument was acknowledged before me on
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.

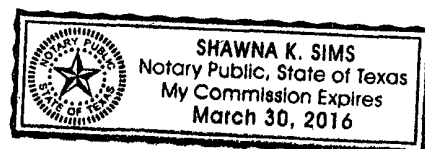
4/30/12, MAY 03 2012

Mewbourne Oil Company
Hobbs

Shawna K. Sims

Notary Public for Midland County, Texas

My Commission Expires:





Company: Mewbourne Oil Co.
Lease: Sharps 3 Federal Com No. 002H
Location: 15.7 Miles NE from Carlsbad
Rig Name: Patterson #46
State/County: New Mexico/Eddy
Latitude: 32.60
GRID North is 0.15 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=20.5 Feet Elevatio=3319 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: sharps 3 fed com 2h_ed.ut

Minimum Curvature Method

Report Date/Time: 3/23/2012 / 15:47

Vaughn Energy Services

Midland, Texas

432-563-5444

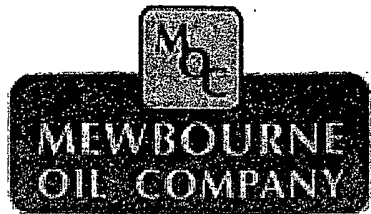
Surveyor: Zach Garcia

Sharps 3 Federal Com No. 002H / API# 30-015-39822

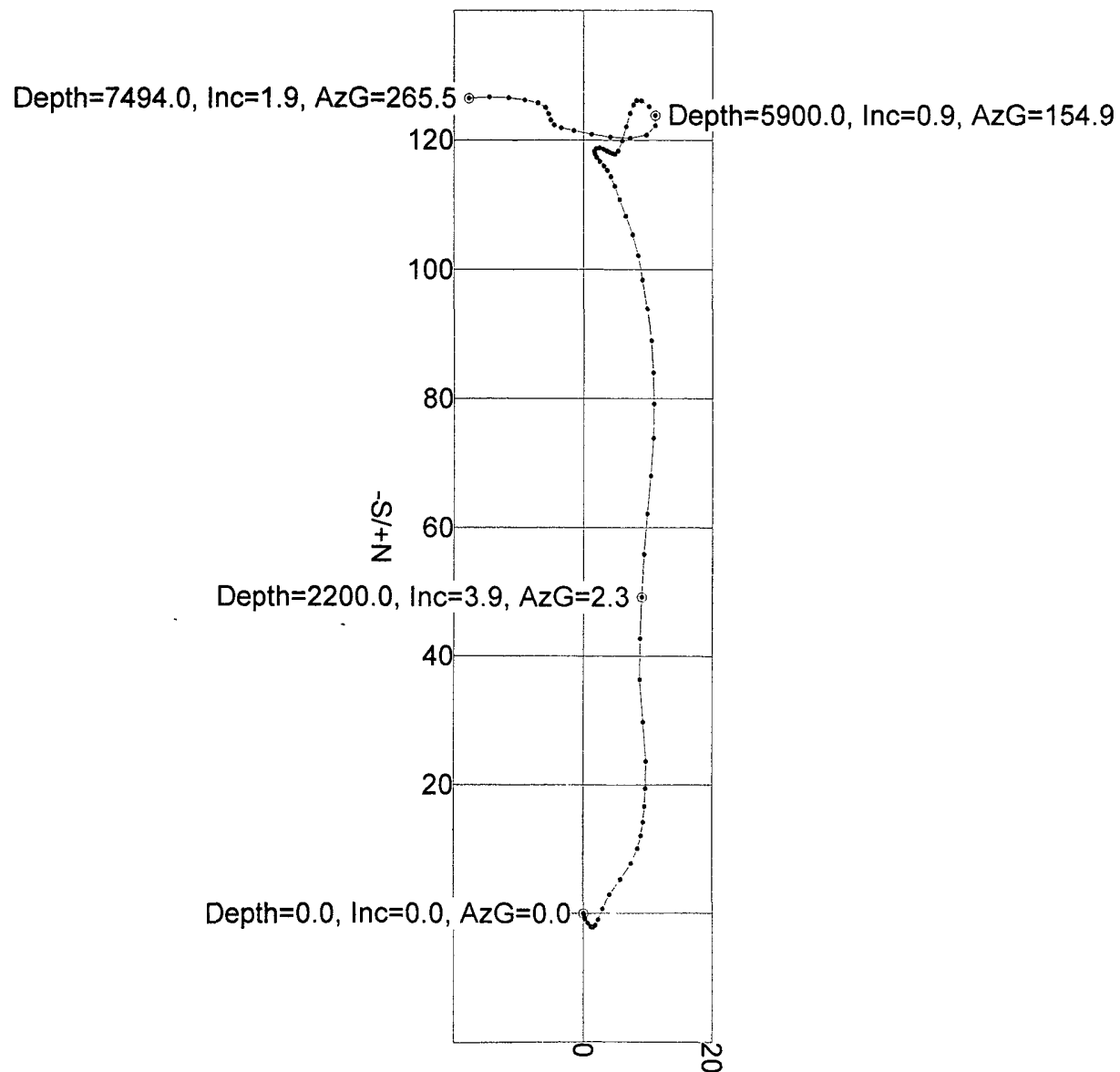
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.35	168.14	100.00	-0.29	0.06	-0.29	0.30	168.14	0.35
200.00	0.32	157.48	200.00	-0.85	0.23	-0.85	0.88	164.75	0.07
300.00	0.59	141.87	299.99	-1.52	0.66	-1.52	1.65	156.50	0.30
400.00	0.26	129.88	399.99	-2.07	1.16	-2.07	2.37	150.84	0.34
500.00	0.05	82.34	499.99	-2.21	1.38	-2.21	2.61	148.09	0.23
600.00	0.17	64.71	599.99	-2.14	1.56	-2.14	2.65	143.93	0.12
700.00	0.32	41.42	699.99	-1.87	1.88	-1.87	2.65	134.83	0.17
800.00	0.80	19.61	799.99	-1.01	2.30	-1.01	2.51	113.64	0.52
900.00	1.29	23.89	899.97	0.68	2.99	0.68	3.06	77.16	0.50
1000.00	1.61	32.41	999.94	2.90	4.20	2.90	5.10	55.35	0.39
1100.00	1.74	38.29	1099.89	5.29	5.90	5.29	7.92	48.13	0.22
1200.00	1.71	28.17	1199.85	7.80	7.55	7.80	10.85	44.06	0.31
1300.00	1.17	16.26	1299.82	10.09	8.53	10.09	13.21	40.23	0.62
1400.00	1.21	13.27	1399.79	12.09	9.06	12.09	15.11	36.85	0.07
1500.00	1.30	5.56	1499.77	14.25	9.41	14.25	17.08	33.45	0.19
1600.00	1.50	3.67	1599.74	16.69	9.61	16.69	19.26	29.93	0.21
1700.00	1.69	2.65	1699.70	19.48	9.76	19.48	21.79	26.62	0.19
1800.00	3.12	359.77	1799.61	23.68	9.82	23.68	25.63	22.52	1.43

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	3.88	352.41	1899.42	29.75	9.36	29.75	31.19	17.47	0.88
2000.00	3.76	359.06	1999.20	36.38	8.86	36.38	37.44	13.69	0.46
2100.00	3.57	1.64	2099.00	42.76	8.90	42.76	43.68	11.75	0.25
2200.00	3.86	2.25	2198.79	49.23	9.12	49.23	50.07	10.49	0.29
2300.00	3.81	3.86	2298.57	55.91	9.47	55.91	56.71	9.62	0.12
2400.00	3.40	4.83	2398.37	62.17	9.95	62.17	62.97	9.09	0.42
2500.00	3.37	5.94	2498.19	68.05	10.50	68.05	68.85	8.77	0.07
2600.00	3.36	2.14	2598.02	73.89	10.91	73.89	74.69	8.40	0.22
2700.00	2.78	359.81	2697.88	79.24	11.01	79.24	80.00	7.91	0.59
2800.00	2.77	357.71	2797.76	84.07	10.91	84.07	84.78	7.39	0.10
2900.00	2.88	354.44	2897.64	88.99	10.57	88.99	89.61	6.77	0.19
3000.00	2.85	351.20	2997.51	93.95	9.94	93.95	94.47	6.04	0.16
3100.00	2.34	350.43	3097.41	98.42	9.23	98.42	98.85	5.36	0.51
3200.00	2.02	349.60	3197.34	102.16	8.57	102.16	102.52	4.79	0.32
3300.00	1.82	339.63	3297.28	105.39	7.70	105.39	105.67	4.18	0.39
3400.00	1.69	338.88	3397.24	108.25	6.61	108.25	108.46	3.49	0.13
3500.00	1.43	340.09	3497.20	110.80	5.66	110.80	110.95	2.92	0.26
3600.00	1.12	339.77	3597.17	112.89	4.89	112.89	113.00	2.48	0.30
3700.00	0.74	331.20	3697.16	114.38	4.24	114.38	114.46	2.12	0.41
3800.00	0.51	327.83	3797.15	115.32	3.69	115.32	115.38	1.83	0.23
3900.00	0.52	316.20	3897.15	116.03	3.14	116.03	116.07	1.55	0.10
4000.00	0.58	318.34	3997.15	116.73	2.49	116.73	116.76	1.22	0.06
4100.00	0.31	327.26	4097.14	117.34	2.01	117.34	117.35	0.98	0.28
4200.00	0.31	337.96	4197.14	117.82	1.76	117.82	117.83	0.86	0.06
4300.00	0.25	1.63	4297.14	118.28	1.67	118.28	118.30	0.81	0.13
4400.00	0.37	54.32	4397.14	118.69	1.94	118.69	118.71	0.93	0.30
4500.00	0.32	104.84	4497.14	118.81	2.47	118.81	118.83	1.19	0.30
4600.00	0.42	112.94	4597.14	118.59	3.08	118.59	118.63	1.49	0.11
4700.00	0.29	114.18	4697.13	118.35	3.64	118.35	118.41	1.76	0.13
4800.00	0.24	116.91	4797.13	118.15	4.06	118.15	118.22	1.97	0.05
4900.00	0.30	117.17	4897.13	117.93	4.48	117.93	118.02	2.18	0.06
5000.00	0.20	85.74	4997.13	117.82	4.89	117.82	117.93	2.38	0.17
5100.00	0.69	33.48	5097.13	118.34	5.39	118.34	118.46	2.61	0.59
5200.00	1.23	15.24	5197.11	119.87	6.01	119.87	120.03	2.87	0.62
5300.00	1.41	16.52	5297.09	122.09	6.64	122.09	122.27	3.11	0.19
5400.00	1.01	17.59	5397.06	124.12	7.26	124.12	124.33	3.35	0.40
5500.00	0.63	27.65	5497.05	125.44	7.78	125.44	125.69	3.55	0.41
5600.00	0.34	51.26	5597.05	126.11	8.26	126.11	126.39	3.75	0.34
5700.00	0.68	113.12	5697.05	126.07	9.04	126.07	126.39	4.10	0.60

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	1.07	135.71	5797.03	125.17	10.24	125.17	125.59	4.68	0.51
5900.00	0.90	154.94	5897.02	123.79	11.22	123.79	124.30	5.18	0.37
6000.00	1.06	202.91	5997.01	122.23	11.19	122.23	122.74	5.23	0.81
6100.00	1.33	240.98	6096.99	120.81	9.82	120.81	121.21	4.65	0.82
6200.00	1.76	272.42	6196.95	120.31	7.26	120.31	120.53	3.45	0.93
6300.00	1.78	274.76	6296.90	120.51	4.18	120.51	120.58	1.99	0.08
6400.00	1.66	280.93	6396.86	120.91	1.20	120.91	120.92	0.57	0.22
6500.00	1.50	281.30	6496.82	121.44	-1.50	121.44	121.45	359.29	0.17
6600.00	0.83	283.12	6596.80	121.86	-3.49	121.86	121.91	358.36	0.67
6700.00	0.53	307.91	6696.79	122.31	-4.56	122.31	122.40	357.86	0.42
6800.00	0.60	342.02	6796.79	123.09	-5.09	123.09	123.20	357.63	0.34
6900.00	0.56	340.44	6896.78	124.05	-5.41	124.05	124.17	357.50	0.04
7000.00	0.66	329.96	6996.78	125.00	-5.86	125.00	125.14	357.31	0.15
7100.00	1.06	284.25	7096.77	125.72	-7.04	125.72	125.92	356.79	0.76
7200.00	1.37	279.47	7196.74	126.15	-9.11	126.15	126.48	355.87	0.33
7300.00	1.50	276.69	7296.71	126.50	-11.58	126.50	127.03	354.77	0.15
7400.00	1.93	268.21	7396.67	126.60	-14.57	126.60	127.43	353.44	0.50
7494.00	1.93	265.47	7490.62	126.42	-17.73	126.42	127.66	352.02	0.10



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Zach Garcia
Sharps 3 Federal Com No. 002H / API# 30-015-39822



-W/+E
VES Survey Date: 03/16/2012

Mewbourne Oil Co

Eddy County, New Mexico

Sec 3-20S-29E

Sharps 3 Fed Com #2H New SHL

Wellbore #1

Survey: MWD

DDC Survey Report

03 April, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Sharps 3 Fed Com #2H New SHL
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3337.0usft (Patterson#46)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3337.0usft (Patterson#46)
Well:	Sharps 3 Fed Com #2H New SHL	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, New Mexico		
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		Sec 3-20S-29E			
Site Position:		Northing:	580,736.70 usft	Latitude:	32° 35' 46.466 N
From:	Map	Easting:	585,955.21 usft	Longitude:	104° 3' 15.239 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0 15 °

Well:	Sharps 3 Fed Com #2H New SHL					
Well Position	+N/-S	0.0 usft	Northing:	580,736.70 usft	Latitude:	32° 35' 46.466 N
	+E/-W	0.0 usft	Easting:	585,955.21 usft	Longitude:	104° 3' 15.239 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,319.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/7/2012	7.75	60.43	48,715

Design:	Wellbore #1				
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	269.95	

Survey Program		Date 4/3/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,494.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,585.0	12,724.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Tie In @ 7494' MD / 7491' TVD									
7,494.0	1.93	265.47	7,490.6	126.4	-17.8	17.6	0.00	0.00	0.00
7,585.0	4.00	251.10	7,581.5	125.3	-22.3	22.2	2.40	2.27	-15.79
7,617.0	4.10	245.30	7,613.4	124.5	-24.4	24.3	1.32	0.31	-18.13
7,648.0	4.10	240.70	7,644.3	123.5	-26.4	26.2	1.06	0.00	-14.34
7,680.0	3.40	256.60	7,676.3	122.7	-28.3	28.2	3.90	-2.19	49.69
7,712.0	5.20	255.50	7,708.2	122.1	-30.6	30.5	5.63	5.63	-3.44
7,744.0	8.00	258.40	7,740.0	121.3	-34.2	34.1	8.81	8.75	9.06
7,775.0	10.20	263.80	7,770.6	120.6	-39.0	38.9	7.61	7.10	17.42
7,807.0	13.80	263.50	7,801.9	119.8	-45.6	45.5	11.25	11.25	-0.94

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Sharps 3 Fed Com #2H New SHL
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3337.0usft (Patterson#46)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3337.0usft (Patterson#46)
Well:	Sharps 3 Fed Com #2H New SHL	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,839.0	17.70	262.50	7,832.7	118.7	-54.3	54.2	12.22	12.19	-3.13
7,871.0	21.00	263.40	7,862.8	117.5	-64.8	64.7	10.35	10.31	2.81
7,903.0	23.80	264.00	7,892.4	116.1	-76.9	76.8	8.78	8.75	1.88
7,934.0	27.30	263.80	7,920.4	114.7	-90.2	90.1	11.29	11.29	-0.65
7,966.0	30.80	264.10	7,948.4	113.1	-105.6	105.5	10.95	10.94	0.94
7,997.0	34.40	264.50	7,974.5	111.4	-122.3	122.2	11.63	11.61	1.29
8,029.0	38.30	263.80	8,000.2	109.5	-141.1	141.0	12.26	12.19	-2.19
8,061.0	42.60	263.20	8,024.6	107.1	-161.7	161.6	13.49	13.44	-1.88
Crossed Hard Line @ 8090' MD / 8045' TVD									
8,090.0	47.93	262.82	8,045.0	104.6	-182.2	182.1	18.41	18.39	-1.30
8,092.0	48.30	262.80	8,046.3	104.4	-183.7	183.6	18.41	18.39	-1.18
8,124.0	53.80	262.10	8,066.4	101.1	-208.3	208.2	17.27	17.19	-2.19
8,155.0	59.60	262.70	8,083.4	97.7	-234.0	233.9	18.78	18.71	1.94
8,187.0	64.80	264.60	8,098.4	94.6	-262.1	262.0	17.08	16.25	5.94
8,219.0	69.70	268.00	8,110.7	92.7	-291.6	291.5	18.18	15.31	10.63
8,251.0	74.50	271.30	8,120.6	92.5	-322.0	321.9	17.92	15.00	10.31
8,271.0	77.80	271.90	8,125.4	93.1	-341.4	341.3	16.76	16.50	3.00
8,358.0	86.40	274.00	8,137.3	97.5	-427.4	427.3	10.17	9.89	2.41
8,390.0	87.50	273.20	8,139.0	99.5	-459.3	459.2	4.25	3.44	-2.50
8,422.0	87.60	273.00	8,140.4	101.3	-491.2	491.1	0.70	0.31	-0.63
8,454.0	88.20	272.50	8,141.5	102.8	-523.1	523.0	2.44	1.88	-1.56
8,485.0	89.10	272.00	8,142.3	104.0	-554.1	554.0	3.32	2.90	-1.31
8,517.0	90.50	271.30	8,142.4	104.9	-586.1	586.0	4.89	4.38	-2.19
8,549.0	91.40	270.70	8,141.9	105.5	-618.1	618.0	3.38	2.81	-1.88
8,581.0	91.30	269.80	8,141.1	105.6	-650.1	650.0	2.83	-0.31	-2.81
8,644.0	91.20	269.30	8,139.7	105.1	-713.0	712.9	0.81	-0.16	-0.79
8,707.0	91.30	269.50	8,138.4	104.5	-776.0	775.9	0.35	0.16	0.32
8,770.0	91.60	269.30	8,136.8	103.8	-839.0	838.9	0.57	0.48	-0.32
8,834.0	90.70	269.60	8,135.5	103.2	-903.0	902.9	1.48	-1.41	0.47
8,897.0	90.70	269.30	8,134.7	102.6	-966.0	965.9	0.48	0.00	-0.48
8,961.0	91.10	269.10	8,133.7	101.7	-1,030.0	1,029.9	0.70	0.63	-0.31
9,024.0	91.30	269.30	8,132.4	100.8	-1,092.9	1,092.9	0.45	0.32	0.32
9,088.0	91.50	269.00	8,130.8	99.9	-1,156.9	1,156.8	0.56	0.31	-0.47
9,151.0	90.20	268.50	8,129.9	98.5	-1,219.9	1,219.8	2.21	-2.06	-0.79
9,215.0	90.20	268.20	8,129.7	96.7	-1,283.9	1,283.8	0.47	0.00	-0.47
9,279.0	90.10	267.80	8,129.5	94.4	-1,347.8	1,347.7	0.64	-0.16	-0.63
9,342.0	90.20	267.10	8,129.3	91.6	-1,410.8	1,410.7	1.12	0.16	-1.11
9,406.0	90.60	267.10	8,128.9	88.4	-1,474.7	1,474.6	0.63	0.63	0.00
9,469.0	90.60	267.00	8,128.2	85.1	-1,537.6	1,537.5	0.16	0.00	-0.16
9,533.0	90.80	267.10	8,127.4	81.9	-1,601.5	1,601.4	0.35	0.31	0.16
9,596.0	90.60	267.00	8,126.7	78.6	-1,664.4	1,664.3	0.35	-0.32	-0.16
9,659.0	91.10	267.00	8,125.7	75.3	-1,727.3	1,727.3	0.79	0.79	0.00
9,722.0	91.50	267.30	8,124.3	72.2	-1,790.2	1,790.2	0.79	0.63	0.48

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 3-20S-29E
Well: Sharps 3 Fed Com #2H New SHL
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Sharps 3 Fed Com #2H New SHL
TVD Reference: WELL @ 3337.0usft (Patterson#46)
MD Reference: WELL @ 3337.0usft (Patterson#46)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,786.0	91.60	267.00	8,122.6	69.0	-1,854.1	1,854.1	0.49	0.16	-0.47
9,849.0	90.70	267.90	8,121.3	66.2	-1,917.0	1,917.0	2.02	-1.43	1.43
9,913.0	90.50	268.10	8,120.6	64.0	-1,981.0	1,980.9	0.44	-0.31	0.31
9,976.0	90.60	268.00	8,120.0	61.8	-2,044.0	2,043.9	0.22	0.16	-0.16
10,040.0	90.90	267.80	8,119.2	59.5	-2,107.9	2,107.9	0.56	0.47	-0.31
10,103.0	90.90	267.40	8,118.2	56.8	-2,170.9	2,170.8	0.63	0.00	-0.63
10,166.0	90.90	268.10	8,117.2	54.4	-2,233.8	2,233.7	1.11	0.00	1.11
10,229.0	91.00	268.70	8,116.2	52.6	-2,296.8	2,296.7	0.97	0.16	0.95
10,293.0	91.00	269.30	8,115.1	51.5	-2,360.7	2,360.7	0.94	0.00	0.94
10,356.0	91.10	268.10	8,113.9	50.1	-2,423.7	2,423.7	1.91	0.16	-1.90
10,419.0	90.50	268.50	8,113.0	48.2	-2,486.7	2,486.6	1.14	-0.95	0.63
10,483.0	90.60	268.60	8,112.4	46.6	-2,550.7	2,550.6	0.22	0.16	0.16
10,546.0	90.60	268.10	8,111.8	44.8	-2,613.6	2,613.6	0.79	0.00	-0.79
10,610.0	90.60	267.70	8,111.1	42.4	-2,677.6	2,677.5	0.62	0.00	-0.63
10,674.0	91.00	267.30	8,110.2	39.6	-2,741.5	2,741.5	0.88	0.63	-0.63
10,737.0	90.30	267.80	8,109.5	36.9	-2,804.5	2,804.4	1.37	-1.11	0.79
10,801.0	90.40	268.40	8,109.1	34.8	-2,868.4	2,868.4	0.95	0.16	0.94
10,864.0	90.60	268.10	8,108.5	32.9	-2,931.4	2,931.4	0.57	0.32	-0.48
10,928.0	90.90	268.20	8,107.7	30.8	-2,995.3	2,995.3	0.49	0.47	0.16
10,992.0	91.60	268.00	8,106.3	28.7	-3,059.3	3,059.3	1.14	1.09	-0.31
11,055.0	92.00	267.90	8,104.3	26.4	-3,122.2	3,122.2	0.65	0.63	-0.16
11,119.0	90.70	268.30	8,102.8	24.3	-3,186.2	3,186.1	2.13	-2.03	0.63
11,182.0	90.00	268.00	8,102.4	22.3	-3,249.1	3,249.1	1.21	-1.11	-0.48
11,246.0	91.70	268.30	8,101.5	20.2	-3,313.1	3,313.1	2.70	2.66	0.47
11,309.0	91.50	268.60	8,099.7	18.5	-3,376.0	3,376.0	0.57	-0.32	0.48
11,373.0	90.70	269.00	8,098.5	17.2	-3,440.0	3,440.0	1.40	-1.25	0.63
11,436.0	90.20	268.80	8,098.0	16.0	-3,503.0	3,503.0	0.85	-0.79	-0.32
11,499.0	90.50	269.20	8,097.6	14.9	-3,566.0	3,566.0	0.79	0.48	0.63
11,562.0	90.50	269.20	8,097.1	14.0	-3,629.0	3,629.0	0.00	0.00	0.00
11,626.0	90.70	269.00	8,096.4	13.0	-3,693.0	3,693.0	0.44	0.31	-0.31
11,689.0	90.60	268.60	8,095.7	11.7	-3,756.0	3,755.9	0.65	-0.16	-0.63
11,753.0	90.70	268.80	8,094.9	10.2	-3,819.9	3,819.9	0.35	0.16	0.31
11,816.0	90.90	269.60	8,094.1	9.3	-3,882.9	3,882.9	1.31	0.32	1.27
11,880.0	90.90	269.60	8,093.1	8.9	-3,946.9	3,946.9	0.00	0.00	0.00
11,943.0	90.70	269.30	8,092.2	8.3	-4,009.9	4,009.9	0.57	-0.32	-0.48
12,006.0	89.90	269.10	8,091.9	7.4	-4,072.9	4,072.9	1.31	-1.27	-0.32
12,070.0	90.30	268.40	8,091.7	6.0	-4,136.9	4,136.9	1.26	0.63	-1.09
12,134.0	90.80	267.80	8,091.1	3.9	-4,200.8	4,200.8	1.22	0.78	-0.94
12,197.0	90.70	267.60	8,090.3	1.4	-4,263.8	4,263.8	0.35	-0.16	-0.32
12,261.0	90.60	267.00	8,089.6	-1.7	-4,327.7	4,327.7	0.95	-0.16	-0.94
12,324.0	91.80	266.30	8,088.3	-5.3	-4,390.6	4,390.6	2.21	1.90	-1.11
12,387.0	92.00	265.70	8,086.2	-9.7	-4,453.4	4,453.4	1.00	0.32	-0.95
12,451.0	91.60	266.50	8,084.2	-14.1	-4,517.2	4,517.2	1.40	-0.63	1.25
12,514.0	91.50	266.80	8,082.5	-17.8	-4,580.1	4,580.1	0.50	-0.16	0.48

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Sharps 3 Fed Com #2H New SHL
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3337.0usft (Patterson#46)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3337.0usft (Patterson#46)
Well:	Sharps 3 Fed Com #2H New SHL	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,578.0	90.50	267.00	8,081.3	-21.2	-4,644.0	4,644.0	1.59	-1.56	0.31
12,642.0	90.20	266.90	8,080.9	-24.6	-4,707.9	4,707.9	0.49	-0.47	-0.16
12,674.0	90.20	266.50	8,080.8	-26.5	-4,739.8	4,739.9	1.25	0.00	-1.25
TD @ 12724' MD / 8081' TVD									
12,724.0	90.20	266.50	8,080.7	-29.5	-4,789.7	4,789.8	0.00	0.00	0.00

Survey Annotations

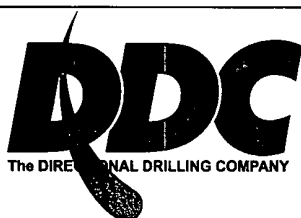
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,494.0	7,490.6	126.4	-17.8	Tie In @ 7494' MD / 7491' TVD
8,090.0	8,045.0	104.6	-182.2	Crossed Hard Line @ 8090' MD / 8045' TVD
12,724.0	8,080.7	-29.5	-4,789.7	TD @ 12724' MD / 8081' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name Mewbourne Oil Co
 Sharps 3 Fed Com #2H New SHL
 Eddy County, New Mexico
 Rig Patterson#46
 Created By Dina Chance
 Date 4/3/2012

Sharps 3 Fed Com #2H New SHL
 Eddy County, New Mexico
 Q110609 & WT-12169

T G M
 Azimuths to Grid North
 Magnetic North: 7 60°
 Magnetic Field
 Strength: 48714 9snT
 Dip Angle: 60.43°
 Date: 3/7/2012
 Model: IGRF2010



Mewbourne Oil Company

WELL DETAILS Sharps 3 Fed Com #2H New SHL

+N/-S	+E/-W	Ground Level	3319.0
0.0	0.0	North	680736.70
		East	685955.20
		Latitude	32° 35' 46.846 N
		Longitude	104° 3' 16.238 W

PROJECT DETAILS Eddy County, New Mexico

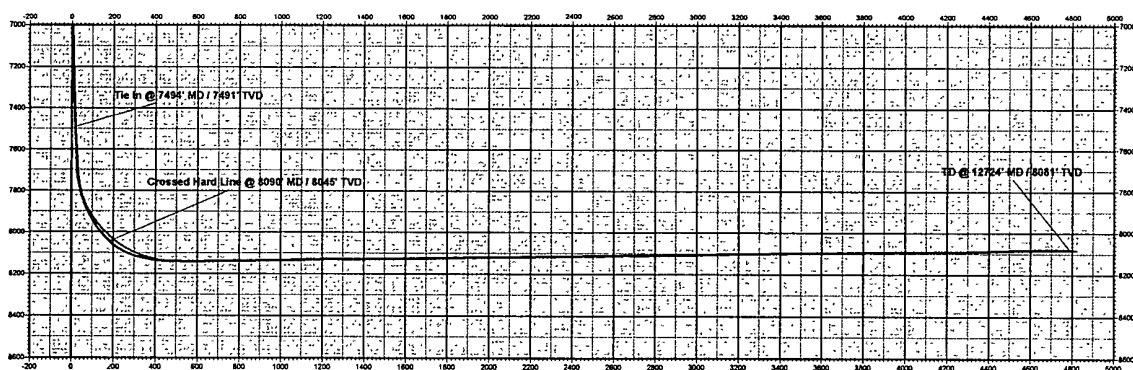
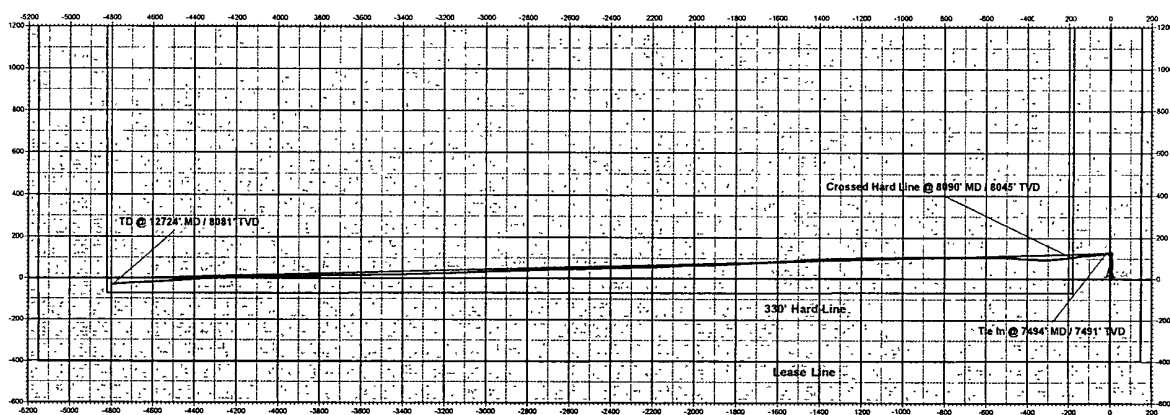
Geodetic System	US State Plane 1927 (Exact solution)
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone	New Mexico East 3001
System Datum	Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
PBHL Sharps 3 Fed Com #2H Design #2 8082.0	8082.0	-4.2	-4920.6	680732.60	681134.60	32° 35' 46.846 N	104° 3' 11.588 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V-Sect	Departure	Annotation
7494.0	1.93	265.47	7490.6	126.4	-17.6	178.3	178.3	Tie in @ 7494' MD / 7491' TVD
12724.0	90.20	266.90	8080.7	-28.6	-4769.7	4769.8	4956.0	Tie in @ 12724' MD / 8081' TVD



Vertical Section at 269.95° (200 usf/in)