

30-015-41749



Mewbourne Oil Co

Eddy County, New Mexico

Sec 3-20S-29E

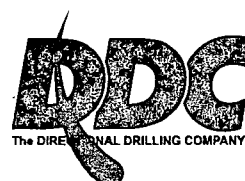
Sharps 3 HE Fed #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

31 January, 2014



DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Sharps 3 HE Fed #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3336.0usft (Patterson)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3336.0usft (Patterson)
Well:	Sharps 3 HE Fed #1H	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 3HE Fed #1H					
Well Position	+N-S	0.0 usft	Northing:	583,776.12 usft	Latitude:	32° 36' 16.543 N
	+E-W	0.0 usft	Easting:	585,962.77 usft	Longitude:	104° 3' 15.057 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,316.0 usft

Wellbore					
Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/7/2014	7.52	60.39	48,537

Design:	Wellbore #1				
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	268.98	

Survey Program		Date	1/31/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,483.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
7,486.0	12,780.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.33	259.59	100.0	-0.1	-0.3	0.3	0.33	0.33	0.00
200.0	0.26	210.46	200.0	-0.3	-0.7	0.7	0.25	-0.07	-49.13
300.0	0.44	207.46	300.0	-0.8	-1.0	1.0	0.18	0.18	-3.00
400.0	1.15	203.60	400.0	-2.1	-1.6	1.6	0.71	0.71	-3.86
500.0	1.92	202.34	499.9	-4.6	-2.6	2.7	0.77	0.77	-1.26
600.0	2.77	192.46	599.9	-8.5	-3.7	3.9	0.94	0.85	-9.88
700.0	3.03	181.00	699.7	-13.5	-4.3	4.6	0.63	0.26	-11.46
800.0	2.71	170.61	799.6	-18.5	-4.0	4.3	0.61	-0.32	-10.39
900.0	2.97	153.06	899.5	-23.1	-2.4	2.8	0.90	0.26	-17.55

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Well:	Sharps 3 HE Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
1,000.0	4.21	132.55	999.3	-27.9	1.5	-1.0	1.77	1.24	-20.51
1,100.0	4.56	121.39	1,099.0	-32.4	7.6	-7.0	0.92	0.35	-11.16
1,200.0	3.90	119.20	1,198.7	-36.2	13.9	-13.3	0.68	-0.66	-2.19
1,300.0	3.63	118.83	1,298.5	-39.4	19.7	-19.0	0.27	-0.27	-0.37
1,400.0	3.09	116.88	1,398.3	-42.1	24.8	-24.1	0.55	-0.54	-1.95
1,500.0	3.24	120.59	1,498.2	-44.8	29.7	-28.9	0.25	0.15	3.71
1,600.0	2.79	122.02	1,598.1	-47.5	34.2	-33.3	0.46	-0.45	1.43
1,700.0	2.53	120.60	1,697.9	-49.9	38.1	-37.2	0.27	-0.26	-1.42
1,800.0	2.25	123.42	1,797.9	-52.1	41.7	-40.7	0.30	-0.28	2.82
1,900.0	2.26	122.31	1,897.8	-54.2	45.0	-44.0	0.04	0.01	-1.11
2,000.0	2.69	116.49	1,997.7	-56.3	48.7	-47.7	0.50	0.43	-5.82
2,100.0	2.76	118.37	2,097.6	-58.5	53.0	-51.9	0.11	0.07	1.88
2,200.0	1.76	118.67	2,197.5	-60.4	56.4	-55.3	1.00	-1.00	0.30
2,300.0	1.44	110.47	2,297.5	-61.6	59.0	-57.8	0.39	-0.32	-8.20
2,400.0	0.93	75.99	2,397.4	-61.8	60.9	-59.8	0.85	-0.51	-34.48
2,500.0	0.92	51.95	2,497.4	-61.1	62.3	-61.2	0.39	-0.01	-24.04
2,600.0	1.30	46.83	2,597.4	-59.9	63.8	-62.7	0.39	0.38	-5.12
2,700.0	1.23	31.57	2,697.4	-58.2	65.2	-64.1	0.34	-0.07	-15.26
2,800.0	1.13	12.47	2,797.4	-56.3	66.0	-64.9	0.40	-0.10	-19.10
2,900.0	0.69	350.81	2,897.3	-54.7	66.1	-65.1	0.55	-0.44	-21.66
3,000.0	0.94	341.55	2,997.3	-53.4	65.7	-64.8	0.28	0.25	-9.26
3,100.0	1.08	328.11	3,097.3	-51.8	65.0	-64.0	0.27	0.14	-13.44
3,200.0	1.33	304.63	3,197.3	-50.3	63.5	-62.6	0.55	0.25	-23.48
3,300.0	1.36	302.35	3,297.3	-49.0	61.6	-60.7	0.06	0.03	-2.28
3,400.0	1.09	307.14	3,397.3	-47.8	59.8	-58.9	0.29	-0.27	4.79
3,500.0	1.05	302.96	3,497.2	-46.8	58.3	-57.4	0.09	-0.04	-4.18
3,600.0	0.94	298.76	3,597.2	-45.9	56.8	-56.0	0.13	-0.11	-4.20
3,700.0	0.94	300.03	3,697.2	-45.1	55.4	-54.5	0.02	0.00	1.27
3,800.0	0.23	309.20	3,797.2	-44.5	54.5	-53.7	0.71	-0.71	9.17
3,900.0	0.07	328.99	3,897.2	-44.3	54.3	-53.5	0.17	-0.16	19.79
4,000.0	0.52	350.93	3,997.2	-43.8	54.2	-53.4	0.46	0.45	21.94
4,100.0	0.92	26.78	4,097.2	-42.7	54.5	-53.7	0.58	0.40	35.85
4,200.0	1.14	41.64	4,197.2	-41.2	55.5	-54.8	0.34	0.22	14.86
4,300.0	1.08	88.21	4,297.2	-40.4	57.1	-56.4	0.88	-0.06	46.57
4,400.0	1.19	94.69	4,397.1	-40.5	59.1	-58.4	0.17	0.11	6.48
4,500.0	1.21	110.44	4,497.1	-41.0	61.1	-60.4	0.33	0.02	15.75
4,600.0	1.39	124.11	4,597.1	-42.0	63.1	-62.3	0.36	0.18	13.67
4,700.0	1.38	157.38	4,697.1	-43.8	64.6	-63.8	0.79	-0.01	33.27
4,800.0	2.13	165.59	4,797.0	-46.7	65.5	-64.7	0.79	0.75	8.21
4,900.0	2.39	178.35	4,896.9	-50.6	66.0	-65.1	0.56	0.26	12.76
5,000.0	1.90	191.72	4,996.9	-54.3	65.7	-64.8	0.70	-0.49	13.37
5,100.0	1.52	201.09	5,096.8	-57.2	64.9	-63.9	0.47	-0.38	9.37
5,200.0	1.23	209.86	5,196.8	-59.3	63.9	-62.9	0.36	-0.29	8.77

DDC
Survey Report



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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)
5,300.0	0.37	211.12	5,296.8	-60.5	63.2	-62.1	0.86	-0.86	1.26
5,400.0	0.38	222.81	5,396.8	-61.0	62.8	-61.7	0.08	0.01	11.69
5,500.0	0.57	221.69	5,496.8	-61.7	62.3	-61.2	0.19	0.19	-1.12
5,600.0	0.35	224.07	5,596.8	-62.3	61.7	-60.6	0.22	-0.22	2.38
5,700.0	0.36	238.39	5,696.8	-62.6	61.2	-60.1	0.09	0.01	14.32
5,800.0	0.07	263.65	5,796.8	-62.8	60.9	-59.8	0.30	-0.29	25.26
5,900.0	0.32	306.32	5,896.8	-62.7	60.6	-59.5	0.27	0.25	42.67
6,000.0	0.49	328.08	5,996.8	-62.1	60.2	-59.1	0.23	0.17	21.76
6,100.0	0.37	354.88	6,096.8	-61.4	59.9	-58.8	0.23	-0.12	26.80
6,200.0	0.69	1.66	6,196.8	-60.5	59.9	-58.8	0.33	0.32	6.78
6,300.0	0.74	4.40	6,296.8	-59.3	60.0	-58.9	0.06	0.05	2.74
6,400.0	0.30	3.97	6,396.7	-58.4	60.0	-59.0	0.44	-0.44	-0.43
6,500.0	0.14	1.37	6,496.7	-58.0	60.1	-59.0	0.16	-0.16	-2.60
6,600.0	0.37	0.48	6,596.7	-57.5	60.1	-59.0	0.23	0.23	-0.89
6,700.0	0.43	357.50	6,696.7	-56.8	60.1	-59.0	0.06	0.06	-2.98
6,800.0	1.21	357.26	6,796.7	-55.4	60.0	-59.0	0.78	0.78	-0.24
6,900.0	1.07	351.67	6,896.7	-53.4	59.8	-58.8	0.18	-0.14	-5.59
7,000.0	1.06	338.45	6,996.7	-51.6	59.3	-58.4	0.25	-0.01	-13.22
7,100.0	0.97	301.06	7,096.7	-50.3	58.3	-57.4	0.66	-0.09	-37.39
7,200.0	1.10	294.41	7,196.7	-49.5	56.7	-55.8	0.18	0.13	-6.65
7,300.0	1.39	292.79	7,296.6	-48.6	54.7	-53.8	0.29	0.29	-1.62
7,400.0	1.41	261.27	7,396.6	-48.4	52.3	-51.5	0.76	0.02	-31.52
TIE IN @ 7483' MD / 7480' TVD									
7,483.0	1.51	231.74	7,479.6	-49.2	50.5	-49.6	0.90	0.12	-35.58
7,486.0	1.60	239.10	7,482.6	-49.2	50.4	-49.5	7.33	3.02	246.56
7,551.0	4.30	265.60	7,547.5	-49.9	47.2	-46.3	4.55	4.15	40.77
7,581.0	4.60	269.30	7,577.4	-50.0	44.9	-44.0	1.38	1.00	12.33
7,613.0	0.70	252.80	7,609.4	-50.1	43.4	-42.5	12.29	-12.19	-51.56
7,645.0	0.80	251.40	7,641.3	-50.2	43.0	-42.1	0.32	0.31	-4.38
7,677.0	5.00	273.70	7,673.3	-50.2	41.4	-40.5	13.35	13.13	69.69
7,709.0	9.30	275.10	7,705.0	-49.9	37.4	-36.5	13.45	13.44	4.38
7,740.0	13.30	271.70	7,735.4	-49.5	31.4	-30.5	13.08	12.90	-10.97
7,772.0	17.70	272.10	7,766.3	-49.2	22.8	-21.9	13.75	13.75	1.25
7,804.0	22.00	270.30	7,796.4	-49.0	12.0	-11.1	13.57	13.44	-5.63
7,836.0	26.00	267.70	7,825.6	-49.3	-1.0	1.9	12.93	12.50	-8.13
7,868.0	30.10	266.10	7,853.8	-50.1	-16.1	16.9	13.03	12.81	-5.00
7,899.0	34.10	267.00	7,880.1	-51.1	-32.5	33.4	12.99	12.90	2.90
7,930.0	38.20	266.30	7,905.1	-52.2	-50.8	51.7	13.29	13.23	-2.26
7,963.0	42.60	265.60	7,930.2	-53.7	-72.1	73.0	13.40	13.33	-2.12
7,995.0	46.70	265.90	7,953.0	-55.4	-94.5	95.5	12.83	12.81	0.94
8,027.0	49.90	267.40	7,974.3	-56.7	-118.3	119.3	10.59	10.00	4.69
8,058.0	53.40	269.10	7,993.5	-57.5	-142.6	143.6	12.08	11.29	5.48
8,090.0	56.00	270.70	8,012.0	-57.5	-168.8	169.8	9.09	8.13	5.00

DDC
Survey Report



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CROSSED HARD LINE @ 8103 MD/ 8019 TVD									
8,103.1	57.35	270.83	8,019.2	-57.4	-179.7	180.7	10.35	10.32	0.99
8,121.0	59.20	271.00	8,028.6	-57.1	-194.9	195.9	10.35	10.32	0.95
8,153.0	61.80	270.90	8,044.4	-56.7	-222.8	223.7	8.13	8.13	-0.31
8,185.0	64.50	271.70	8,058.8	-56.0	-251.3	252.3	8.73	8.44	2.50
8,217.0	66.90	271.70	8,072.0	-55.1	-280.5	281.4	7.50	7.50	0.00
8,249.0	69.10	271.70	8,084.0	-54.3	-310.1	311.0	6.88	6.88	0.00
8,280.0	72.20	271.40	8,094.2	-53.5	-339.3	340.2	10.04	10.00	-0.97
8,312.0	75.20	271.20	8,103.2	-52.8	-370.1	370.9	9.39	9.38	-0.63
8,344.0	76.90	270.00	8,110.9	-52.5	-401.1	402.0	6.44	5.31	-3.75
8,376.0	78.70	268.80	8,117.7	-52.8	-432.4	433.2	6.71	5.63	-3.75
8,407.0	81.50	268.60	8,123.0	-53.5	-462.9	463.8	9.05	9.03	-0.65
8,428.0	83.60	268.60	8,125.7	-54.0	-483.7	484.6	10.00	10.00	0.00
8,519.0	88.00	269.60	8,132.4	-55.4	-574.4	575.3	4.96	4.84	1.10
8,550.0	91.40	268.90	8,132.6	-55.8	-605.4	606.3	11.20	10.97	-2.26
8,582.0	92.70	268.20	8,131.4	-56.6	-637.4	638.3	4.61	4.06	-2.19
8,645.0	90.90	267.90	8,129.4	-58.8	-700.3	701.3	2.90	-2.86	-0.48
8,709.0	90.10	267.00	8,128.9	-61.6	-764.3	765.2	1.88	-1.25	-1.41
8,772.0	90.50	266.50	8,128.6	-65.2	-827.2	828.2	1.02	0.63	-0.79
8,835.0	90.70	266.10	8,127.9	-69.3	-890.0	891.1	0.71	0.32	-0.63
8,899.0	91.40	266.30	8,126.7	-73.5	-953.9	955.0	1.14	1.09	0.31
8,962.0	90.80	267.50	8,125.5	-76.9	-1,016.8	1,018.0	2.13	-0.95	1.90
9,026.0	91.10	267.70	8,124.5	-79.6	-1,080.7	1,081.9	0.56	0.47	0.31
9,089.0	91.70	267.70	8,122.9	-82.1	-1,143.6	1,144.9	0.95	0.95	0.00
9,152.0	92.10	267.40	8,120.8	-84.8	-1,206.5	1,207.9	0.79	0.63	-0.48
9,216.0	90.80	269.10	8,119.2	-86.8	-1,270.5	1,271.8	3.34	-2.03	2.66
9,279.0	90.40	270.30	8,118.6	-87.1	-1,333.5	1,334.8	2.01	-0.63	1.90
9,342.0	90.50	269.10	8,118.1	-87.4	-1,396.5	1,397.8	1.91	0.16	-1.90
9,406.0	90.10	267.90	8,117.7	-89.1	-1,460.5	1,461.8	1.98	-0.63	-1.88
9,469.0	90.10	269.10	8,117.6	-90.7	-1,523.4	1,524.8	1.90	0.00	1.90
9,533.0	90.60	269.80	8,117.2	-91.3	-1,587.4	1,588.8	1.34	0.78	1.09
9,596.0	90.90	269.10	8,116.4	-92.0	-1,650.4	1,651.8	1.21	0.48	-1.11
9,659.0	90.90	268.90	8,115.4	-93.1	-1,713.4	1,714.8	0.32	0.00	-0.32
9,723.0	90.90	268.40	8,114.4	-94.6	-1,777.4	1,778.8	0.78	0.00	-0.78
9,786.0	91.40	268.80	8,113.1	-96.1	-1,840.3	1,841.8	1.02	0.79	0.63
9,849.0	91.60	268.80	8,111.5	-97.4	-1,903.3	1,904.7	0.32	0.32	0.00
9,912.0	92.10	268.60	8,109.5	-98.8	-1,966.3	1,967.7	0.85	0.79	-0.32
9,975.0	91.40	269.80	8,107.5	-99.7	-2,029.2	2,030.7	2.20	-1.11	1.90
10,038.0	91.20	270.50	8,106.1	-99.6	-2,092.2	2,093.6	1.16	-0.32	1.11
10,102.0	91.50	270.90	8,104.6	-98.8	-2,156.2	2,157.6	0.78	0.47	0.63
10,165.0	91.70	271.40	8,102.8	-97.5	-2,219.1	2,220.5	0.85	0.32	0.79
10,228.0	92.10	271.90	8,100.7	-95.7	-2,282.1	2,283.4	1.02	0.63	0.79
10,292.0	90.60	271.70	8,099.2	-93.7	-2,346.0	2,347.3	2.36	-2.34	-0.31
10,355.0	90.60	271.40	8,098.6	-92.0	-2,409.0	2,410.3	0.48	0.00	-0.48

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Sharps 3 HE Fed #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3336.0usft (Patterson)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3336.0usft (Patterson)
Well:	Sharps 3 HE Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
10,418.0	90.80	271.70	8,097.8	-90.3	-2,472.0	2,473.2	0.57	0.32	0.48
10,482.0	91.40	271.90	8,096.6	-88.3	-2,535.9	2,537.1	0.99	0.94	0.31
10,545.0	91.20	271.90	8,095.1	-86.2	-2,598.9	2,600.0	0.32	-0.32	0.00
10,608.0	91.40	272.10	8,093.7	-84.0	-2,661.8	2,662.9	0.45	0.32	0.32
10,671.0	91.90	272.60	8,091.9	-81.4	-2,724.7	2,725.8	1.12	0.79	0.79
10,734.0	92.40	273.00	8,089.5	-78.3	-2,787.6	2,788.6	1.02	0.79	0.63
10,798.0	91.30	273.50	8,087.5	-74.7	-2,851.5	2,852.4	1.89	-1.72	0.78
10,861.0	91.40	273.90	8,086.0	-70.6	-2,914.3	2,915.1	0.65	0.16	0.63
10,924.0	91.30	274.40	8,084.5	-66.1	-2,977.2	2,977.9	0.81	-0.16	0.79
10,987.0	90.90	273.10	8,083.3	-62.0	-3,040.0	3,040.6	2.16	-0.63	-2.06
11,050.0	90.80	272.50	8,082.4	-58.9	-3,102.9	3,103.5	0.97	-0.16	-0.95
11,114.0	90.60	271.90	8,081.6	-56.4	-3,166.9	3,167.4	0.99	-0.31	-0.94
11,177.0	90.50	271.90	8,081.0	-54.3	-3,229.8	3,230.3	0.16	-0.16	0.00
11,240.0	90.80	271.20	8,080.3	-52.6	-3,292.8	3,293.2	1.21	0.48	-1.11
11,304.0	91.70	271.90	8,078.9	-50.9	-3,356.8	3,357.1	1.78	1.41	1.09
11,367.0	91.90	272.10	8,076.9	-48.7	-3,419.7	3,420.0	0.45	0.32	0.32
11,431.0	92.10	272.50	8,074.7	-46.1	-3,483.6	3,483.9	0.70	0.31	0.63
11,494.0	92.60	272.50	8,072.1	-43.4	-3,546.5	3,546.7	0.79	0.79	0.00
11,557.0	91.70	272.80	8,069.7	-40.5	-3,609.4	3,609.5	1.51	-1.43	0.48
11,621.0	91.40	273.30	8,068.0	-37.1	-3,673.3	3,673.3	0.91	-0.47	0.78
11,684.0	90.10	273.00	8,067.2	-33.6	-3,736.2	3,736.2	2.12	-2.06	-0.48
11,747.0	89.20	272.30	8,067.5	-30.7	-3,799.1	3,799.0	1.81	-1.43	-1.11
11,810.0	89.30	272.60	8,068.4	-28.0	-3,862.0	3,861.9	0.50	0.16	0.48
11,874.0	90.60	272.10	8,068.4	-25.4	-3,926.0	3,925.8	2.18	2.03	-0.78
11,937.0	91.60	272.10	8,067.2	-23.1	-3,988.9	3,988.7	1.59	1.59	0.00
12,000.0	92.40	271.90	8,065.0	-20.9	-4,051.8	4,051.6	1.31	1.27	-0.32
12,063.0	93.00	272.30	8,062.0	-18.6	-4,114.7	4,114.4	1.14	0.95	0.63
12,127.0	91.80	272.50	8,059.4	-15.9	-4,178.6	4,178.2	1.90	-1.88	0.31
12,190.0	91.00	272.50	8,057.8	-13.2	-4,241.5	4,241.1	1.27	-1.27	0.00
12,253.0	91.10	271.40	8,056.7	-11.0	-4,304.5	4,304.0	1.75	0.16	-1.75
12,316.0	91.40	271.60	8,055.3	-9.4	-4,367.5	4,366.9	0.57	0.48	0.32
12,380.0	90.80	270.20	8,054.1	-8.4	-4,431.4	4,430.9	2.38	-0.94	-2.19
12,443.0	90.80	269.30	8,053.2	-8.6	-4,494.4	4,493.9	1.43	0.00	-1.43
12,506.0	91.40	269.30	8,052.0	-9.4	-4,557.4	4,556.9	0.95	0.95	0.00
12,569.0	89.90	268.90	8,051.3	-10.4	-4,620.4	4,619.8	2.46	-2.38	-0.63
12,633.0	89.60	268.60	8,051.5	-11.8	-4,684.4	4,683.8	0.66	-0.47	-0.47
12,696.0	90.70	269.60	8,051.4	-12.8	-4,747.4	4,746.8	2.36	1.75	1.59
12,730.0	90.70	269.80	8,051.0	-13.0	-4,781.4	4,780.8	0.59	0.00	0.59
12,780.0	90.70	269.80	8,050.3	-13.1	-4,831.4	4,830.8	0.00	0.00	0.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Sharps 3 HE Fed #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3336.0usft (Patterson)
Site:	Sec 3-20S-29E	MD Reference:	WELL @ 3336.0usft (Patterson)
Well:	Sharps 3 HE Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,483.0	7,479.6	-49.2	50.5	TIE IN @ 7483' MD / 7480' TVD
8,103.1	8,019.2	-57.4	-179.7	CROSSED HARD LINE @ 8103' MD / 8019' TVD
12,780.0	8,050.3	-13.1	-4,831.4	TD @ 12780' MD / 8050' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
 Sharps 3 HE Fed #1H
 Eddy County, New Mexico
 Rig: Patterson #46
 Created By: James Dawson
 Date: 01/31/2014

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

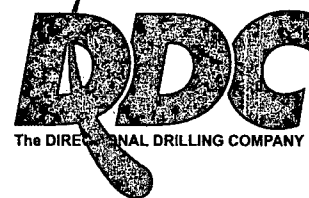
Sharps 3 HE Fed #1H
 Eddy County, New Mexico
 Q120359 & WT-140028
 Design #3 Tie into GYRO

Mewbourne Oil Co

RECEIVED

APR 01 2014

NMOCD ARTESIA



WELL DETAILS: Sharps 3 HE Fed #1H

Ground Level: 3316.0
 Northing: 693776.11 Easting: 689962.76
 Latitude: 32° 36' 16.543 N Longitude: 104° 4' 15.057 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation
7483.0	1.61	251.74	7479.6	-49.2	60.5	-49.6	182.5	TIE IN @ 7483' MD / 7480' TVD
8103.1	57.35	270.83	8019.2	-57.4	-179.7	180.7	413.3	CROSSED HARD LINE @ 8103' MD / 8019' TVD
12780.0	95.70	269.80	8050.3	-13.1	-4831.4	4830.9	5067.8	TD @ 12780' MD / 8050' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Sharps 3 HE Fed #1H Design #2 - plan hits target center	8066.0	-85.8	-4835.2	693690.30	681127.60	32° 36' 15.816 N	104° 4' 11.585 W



Azimuths to Grid North

Correction: -7.37°

Magnetic Field
 Strength: 48536.7 nT

Dip Angle: 60.39°

Date: 1/7/2014

Model: IGRF2010

