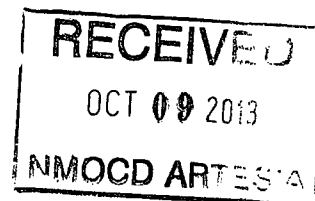


3001541163



Mewbourne Oil Company

EDDY COUNTY, NM (NAD27)

SECTION 2

Salt Draw 2 CN Fee #1H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

26 August, 2013

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #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, NM (NAD27), NM-EAST		
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	SECTION 2		
Site Position:		Northing:	616,768.78 usft
From:	Map	Easting:	586,241.32 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 43.017 N
		Longitude:	104° 3' 10.783 W
		Grid Convergence:	0.15 °

Well	Salt Draw 2 CN Fee #1H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 57.484 N
		Longitude:	104° 3' 32.330 W
		Ground Level:	2,968.0 usft

Wellbore	Wellbore #1		
----------	-------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/15/2013	7.55	60.00	48,323

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	180.39

Survey Program		Date	8/26/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,643.0	MS Gyro #1 (Wellbore #1)	SRG-GYRO-MS	surface readout gyro multishot
7,690.0	12,807.0	Survey #2 (Wellbore #1)	MWD	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	0.31	205.02	100.0	-0.2	-0.1	0.2	0.31	0.31	0.00
200.0	0.93	213.65	200.0	-1.2	-0.7	1.2	0.63	0.62	8.63
300.0	1.52	225.05	300.0	-2.8	-2.1	2.8	0.64	0.59	11.40
400.0	2.15	218.12	399.9	-5.2	-4.2	5.2	0.67	0.63	-6.93
500.0	2.17	217.95	499.8	-8.2	-6.5	8.2	0.02	0.02	-0.17
600.0	1.81	225.97	599.8	-10.8	-8.8	10.8	0.45	-0.36	8.02
700.0	1.71	223.15	699.7	-12.9	-10.9	13.0	0.13	-0.10	-2.82
800.0	1.40	227.69	799.7	-14.8	-12.9	14.9	0.33	-0.31	4.54
900.0	1.07	240.80	899.7	-16.1	-14.6	16.2	0.43	-0.33	13.11

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY-NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #1H	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)
1,000.0	1.16	246.00	999.7	-17.0	-16.3	17.1	0.14	0.09	5.20
1,100.0	1.17	260.09	1,099.6	-17.6	-18.3	17.7	0.29	0.01	14.09
1,200.0	1.05	258.25	1,199.6	-17.9	-20.2	18.1	0.13	-0.12	-1.84
1,300.0	0.88	257.41	1,299.6	-18.3	-21.8	18.4	0.17	-0.17	-0.84
1,400.0	0.97	251.48	1,399.6	-18.7	-23.4	18.9	0.13	0.09	-5.93
1,500.0	0.65	232.09	1,499.6	-19.3	-24.6	19.5	0.42	-0.32	-19.39
1,600.0	0.42	221.46	1,599.6	-20.0	-25.3	20.1	0.25	-0.23	-10.63
1,700.0	0.51	257.57	1,699.6	-20.3	-26.0	20.5	0.30	0.09	36.11
1,800.0	0.25	225.70	1,799.6	-20.6	-26.6	20.8	0.33	-0.26	-31.87
1,900.0	0.73	156.30	1,899.6	-21.3	-26.5	21.5	0.68	0.48	-69.40
2,000.0	1.15	121.91	1,999.6	-22.4	-25.4	22.6	0.69	0.42	-34.39
2,100.0	1.31	121.82	2,099.5	-23.6	-23.5	23.7	0.16	0.16	-0.09
2,200.0	1.77	110.68	2,199.5	-24.7	-21.1	24.9	0.55	0.46	-11.14
2,300.0	2.11	107.35	2,299.4	-25.8	-17.9	25.9	0.36	0.34	-3.33
2,400.0	2.12	106.11	2,399.4	-26.9	-14.4	27.0	0.05	0.01	-1.24
2,500.0	1.91	105.78	2,499.3	-27.8	-11.0	27.9	0.21	-0.21	-0.33
2,600.0	1.66	100.59	2,599.3	-28.6	-8.0	28.6	0.30	-0.25	-5.19
2,700.0	1.48	98.44	2,699.2	-29.0	-5.3	29.1	0.19	-0.18	-2.15
2,800.0	1.44	94.97	2,799.2	-29.3	-2.7	29.3	0.10	-0.04	-3.47
2,900.0	1.48	84.71	2,899.2	-29.3	-0.2	29.3	0.26	0.04	-10.26
3,000.0	1.19	93.10	2,999.1	-29.2	2.1	29.2	0.35	-0.29	8.39
3,100.0	1.06	82.46	3,099.1	-29.2	4.1	29.2	0.25	-0.13	-10.64
3,200.0	1.13	88.91	3,199.1	-29.0	6.0	29.0	0.14	0.07	6.45
3,300.0	0.82	89.94	3,299.1	-29.0	7.7	29.0	0.31	-0.31	1.03
3,400.0	0.58	79.72	3,399.1	-28.9	8.9	28.9	0.27	-0.24	-10.22
3,500.0	0.49	68.96	3,499.1	-28.7	9.8	28.6	0.13	-0.09	-10.76
3,600.0	0.43	81.74	3,599.1	-28.5	10.6	28.4	0.12	-0.06	12.78
3,700.0	0.36	97.59	3,699.1	-28.5	11.2	28.4	0.13	-0.07	15.85
3,800.0	0.28	32.85	3,799.1	-28.3	11.7	28.2	0.35	-0.08	-64.74
3,900.0	0.18	101.43	3,899.1	-28.1	12.0	28.0	0.27	-0.10	68.58
4,000.0	0.37	96.33	3,999.1	-28.2	12.4	28.1	0.19	0.19	-5.10
4,100.0	0.40	57.84	4,099.1	-28.0	13.1	28.0	0.26	0.03	-38.49
4,200.0	0.41	103.77	4,199.1	-27.9	13.7	27.9	0.32	0.01	45.93
4,300.0	0.42	61.69	4,299.1	-27.9	14.4	27.8	0.30	0.01	-42.08
4,400.0	0.56	107.16	4,399.1	-27.8	15.2	27.7	0.40	0.14	45.47
4,500.0	0.27	78.16	4,499.0	-27.9	15.9	27.8	0.35	-0.29	-29.00
4,600.0	0.42	128.97	4,599.0	-28.1	16.4	28.0	0.33	0.15	50.81
4,700.0	0.31	139.15	4,699.0	-28.5	16.8	28.4	0.13	-0.11	10.18
4,800.0	0.25	82.57	4,799.0	-28.7	17.2	28.6	0.27	-0.06	-56.58
4,900.0	0.52	146.68	4,899.0	-29.1	17.7	28.9	0.47	0.27	64.11
5,000.0	0.16	105.59	4,999.0	-29.5	18.1	29.4	0.41	-0.36	-41.09
5,100.0	0.47	126.35	5,099.0	-29.8	18.5	29.6	0.33	0.31	20.76
5,200.0	0.43	124.36	5,199.0	-30.2	19.2	30.1	0.04	-0.04	-1.99

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #1H	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)	
5,300.0	0.40	157.10	5,299.0	-30.8	19.6	30.6	0.24	-0.03	32.74	
5,400.0	0.30	134.07	5,399.0	-31.3	20.0	31.1	0.17	-0.10	-23.03	
5,500.0	0.25	121.20	5,499.0	-31.6	20.3	31.4	0.08	-0.05	-12.87	
5,600.0	0.27	128.68	5,599.0	-31.8	20.7	31.7	0.04	0.02	7.48	
5,700.0	0.37	204.13	5,699.0	-32.3	20.8	32.1	0.40	0.10	75.45	
5,800.0	0.40	218.30	5,799.0	-32.8	20.4	32.7	0.10	0.03	14.17	
5,900.0	0.40	207.87	5,899.0	-33.4	20.0	33.3	0.07	0.00	-10.43	
6,000.0	0.69	187.93	5,999.0	-34.3	19.8	34.2	0.34	0.29	-19.94	
6,100.0	0.61	191.98	6,099.0	-35.4	19.6	35.3	0.09	-0.08	4.05	
6,200.0	0.81	196.12	6,199.0	-36.6	19.3	36.5	0.21	0.20	4.14	
6,300.0	0.84	169.37	6,299.0	-38.0	19.2	37.9	0.38	0.03	-26.75	
6,400.0	0.63	106.85	6,399.0	-38.9	19.9	38.8	0.78	-0.21	-62.52	
6,500.0	0.49	112.48	6,499.0	-39.2	20.8	39.1	0.15	-0.14	5.63	
6,600.0	0.10	1.76	6,599.0	-39.3	21.2	39.2	0.53	-0.39	-110.72	
6,700.0	0.17	152.58	6,699.0	-39.3	21.3	39.2	0.26	0.07	150.82	
6,800.0	0.33	14.29	6,799.0	-39.2	21.4	39.1	0.47	0.16	-138.29	
6,900.0	0.52	31.03	6,899.0	-38.5	21.7	38.4	0.23	0.19	16.74	
7,000.0	0.98	48.02	6,999.0	-37.6	22.6	37.4	0.51	0.46	16.99	
7,100.0	0.66	64.77	7,099.0	-36.8	23.7	36.6	0.40	-0.32	16.75	
7,200.0	1.13	79.82	7,198.9	-36.3	25.2	36.2	0.52	0.47	15.05	
7,300.0	1.71	77.03	7,298.9	-35.8	27.7	35.6	0.58	0.58	-2.79	
7,400.0	0.97	104.95	7,398.9	-35.7	29.9	35.5	0.97	-0.74	27.92	
7,500.0	1.07	132.88	7,498.9	-36.6	31.4	36.4	0.50	0.10	27.93	
7,600.0	1.80	180.08	7,598.8	-38.8	32.1	38.6	1.33	0.73	47.20	
7,643.0	2.38	186.90	7,641.8	-40.3	32.0	40.1	1.47	1.35	15.86	
7,690.0	2.50	180.10	7,688.8	-42.3	31.9	42.1	0.67	0.26	-14.47	
7,722.0	3.30	179.90	7,720.7	-43.9	31.9	43.7	2.50	2.50	-0.63	
7,754.0	7.60	179.80	7,752.6	-47.0	31.9	46.8	13.44	13.44	-0.31	
7,785.0	12.60	181.30	7,783.1	-52.4	31.8	52.2	16.15	16.13	4.84	
7,817.0	14.70	185.80	7,814.2	-59.9	31.3	59.7	7.35	6.56	14.06	
7,849.0	16.30	184.70	7,845.0	-68.5	30.6	68.3	5.08	5.00	-3.44	
7,881.0	18.60	183.60	7,875.5	-78.0	29.9	77.8	7.26	7.19	-3.44	
7,912.0	20.40	183.70	7,904.8	-88.4	29.2	88.2	5.81	5.81	0.32	
7,944.0	22.50	182.60	7,934.5	-100.0	28.6	99.8	6.68	6.56	-3.44	
7,976.0	25.10	182.10	7,963.8	-112.9	28.0	112.8	8.15	8.13	-1.56	
8,008.0	26.90	181.90	7,992.6	-127.0	27.6	126.8	5.63	5.63	-0.63	
8,039.0	28.20	181.20	8,020.1	-141.3	27.2	141.1	4.32	4.19	-2.26	
8,071.0	31.00	180.10	8,047.9	-157.1	27.0	156.9	8.91	8.75	-3.44	
8,103.0	34.30	179.20	8,074.8	-174.4	27.1	174.2	10.42	10.31	-2.81	
8,134.0	37.30	178.80	8,100.0	-192.5	27.4	192.3	9.71	9.68	-1.29	
8,166.0	40.30	179.40	8,124.9	-212.5	27.7	212.3	9.45	9.38	1.88	
8,198.0	43.80	179.40	8,148.7	-234.0	28.0	233.8	10.94	10.94	0.00	
8,229.0	46.90	180.50	8,170.4	-256.0	28.0	255.8	10.31	10.00	3.55	

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #1H	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)	
8,261.0	49.40	181.20	8,191.8	-279.8	27.6	279.7	7.98	7.81	2.19	
8,293.0	53.50	180.90	8,211.7	-304.9	27.2	304.7	12.83	12.81	-0.94	
8,325.0	57.90	180.70	8,229.8	-331.3	26.8	331.1	13.76	13.75	-0.63	
8,356.0	61.50	181.00	8,245.4	-358.0	26.4	357.9	11.64	11.61	0.97	
8,388.0	64.80	180.70	8,259.9	-386.6	26.0	386.4	10.35	10.31	-0.94	
8,420.0	68.60	179.70	8,272.5	-416.0	25.9	415.8	12.22	11.88	-3.13	
8,451.0	70.60	179.70	8,283.3	-445.0	26.0	444.8	6.45	6.45	0.00	
8,483.0	74.00	179.60	8,293.0	-475.5	26.2	475.3	10.63	10.63	-0.31	
8,515.0	78.70	179.80	8,300.6	-506.6	26.4	506.4	14.70	14.69	0.63	
8,546.0	82.70	179.90	8,305.6	-537.2	26.5	537.0	12.91	12.90	0.32	
8,578.0	84.80	179.80	8,309.1	-569.0	26.5	568.8	6.57	6.56	-0.31	
8,610.0	87.80	179.80	8,311.1	-600.9	26.7	600.7	9.38	9.38	0.00	
8,680.0	91.10	180.20	8,311.8	-670.9	26.7	670.7	4.75	4.71	0.57	
8,711.0	91.20	179.80	8,311.2	-701.9	26.7	701.7	1.33	0.32	-1.29	
8,775.0	90.20	179.90	8,310.4	-765.9	26.8	765.7	1.57	-1.56	0.16	
8,838.0	90.10	180.20	8,310.2	-828.9	26.8	828.7	0.50	-0.16	0.48	
8,901.0	89.80	179.20	8,310.3	-891.9	27.1	891.7	1.66	-0.48	-1.59	
8,964.0	89.70	179.10	8,310.6	-954.9	28.0	954.7	0.22	-0.16	-0.16	
9,028.0	89.20	178.70	8,311.2	-1,018.9	29.3	1,018.6	1.00	-0.78	-0.63	
9,091.0	89.60	179.40	8,311.9	-1,081.9	30.3	1,081.6	1.28	0.63	1.11	
9,154.0	89.20	178.70	8,312.5	-1,144.8	31.3	1,144.6	1.28	-0.63	-1.11	
9,217.0	89.70	179.80	8,313.1	-1,207.8	32.2	1,207.6	1.92	0.79	1.75	
9,280.0	90.30	179.50	8,313.1	-1,270.8	32.6	1,270.6	1.06	0.95	-0.48	
9,343.0	90.20	179.80	8,312.8	-1,333.8	32.9	1,333.6	0.50	-0.16	0.48	
9,407.0	90.00	180.00	8,312.7	-1,397.8	33.1	1,397.6	0.44	-0.31	0.31	
9,470.0	90.40	181.20	8,312.5	-1,460.8	32.4	1,460.6	2.01	0.63	1.90	
9,533.0	90.30	181.10	8,312.1	-1,523.8	31.1	1,523.6	0.22	-0.16	-0.16	
9,597.0	90.10	180.10	8,311.9	-1,587.8	30.5	1,587.6	1.59	-0.31	-1.56	
9,659.0	90.50	181.90	8,311.6	-1,649.8	29.4	1,649.6	2.97	0.65	2.90	
9,723.0	90.30	181.00	8,311.1	-1,713.8	27.8	1,713.5	1.44	-0.31	-1.41	
9,786.0	90.80	181.60	8,310.5	-1,776.7	26.3	1,776.5	1.24	0.79	0.95	
9,849.0	90.80	181.30	8,309.6	-1,839.7	24.7	1,839.5	0.48	0.00	-0.48	
9,912.0	90.70	181.20	8,308.8	-1,902.7	23.4	1,902.5	0.22	-0.16	-0.16	
9,976.0	90.50	180.60	8,308.2	-1,966.7	22.4	1,966.5	0.99	-0.31	-0.94	
10,039.0	90.80	180.80	8,307.4	-2,029.7	21.6	2,029.5	0.57	0.48	0.32	
10,102.0	90.90	182.40	8,306.5	-2,092.6	19.8	2,092.5	2.54	0.16	2.54	
10,165.0	90.70	182.00	8,305.6	-2,155.6	17.4	2,155.4	0.71	-0.32	-0.63	
10,228.0	89.60	181.00	8,305.5	-2,218.6	15.8	2,218.4	2.36	-1.75	-1.59	
10,292.0	90.70	181.40	8,305.3	-2,282.6	14.4	2,282.4	1.83	1.72	0.63	
10,355.0	91.00	180.50	8,304.4	-2,345.5	13.4	2,345.4	1.51	0.48	-1.43	
10,418.0	91.30	180.90	8,303.1	-2,408.5	12.6	2,408.4	0.79	0.48	0.63	
10,482.0	89.70	178.30	8,302.5	-2,472.5	13.1	2,472.4	4.77	-2.50	-4.06	
10,545.0	90.40	179.10	8,302.5	-2,535.5	14.5	2,535.3	1.69	1.11	1.27	
10,608.0	89.80	181.10	8,302.4	-2,598.5	14.4	2,598.3	3.31	-0.95	3.17	

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #1H	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)
10,671.0	89.80	181.20	8,302.6	-2,661.5	13.1	2,661.3	0.16	0.00	0.16
10,734.0	90.00	180.50	8,302.7	-2,724.5	12.2	2,724.3	1.16	0.32	-1.11
10,798.0	90.10	181.90	8,302.6	-2,788.5	10.8	2,788.3	2.19	0.16	2.19
10,861.0	89.10	181.40	8,303.1	-2,851.4	9.0	2,851.3	1.77	-1.59	-0.79
10,924.0	88.60	181.20	8,304.3	-2,914.4	7.6	2,914.3	0.85	-0.79	-0.32
10,987.0	92.50	183.20	8,303.7	-2,977.3	5.2	2,977.2	6.96	6.19	3.17
11,051.0	92.30	182.50	8,301.1	-3,041.2	2.0	3,041.1	1.14	-0.31	-1.09
11,114.0	90.50	182.20	8,299.5	-3,104.1	-0.6	3,104.1	2.90	-2.86	-0.48
11,178.0	90.80	181.60	8,298.8	-3,168.1	-2.7	3,168.0	1.05	0.47	-0.94
11,241.0	89.90	182.70	8,298.4	-3,231.0	-5.1	3,231.0	2.26	-1.43	1.75
11,305.0	90.10	182.00	8,298.4	-3,295.0	-7.7	3,295.0	1.14	0.31	-1.09
11,368.0	90.60	181.00	8,298.0	-3,358.0	-9.3	3,357.9	1.77	0.79	-1.59
11,431.0	89.90	181.60	8,297.8	-3,420.9	-10.8	3,420.9	1.46	-1.11	0.95
11,494.0	88.70	182.10	8,298.5	-3,483.9	-12.8	3,483.9	2.06	-1.90	0.79
11,557.0	88.70	182.00	8,300.0	-3,546.8	-15.1	3,546.9	0.16	0.00	-0.16
11,621.0	89.40	182.00	8,301.0	-3,610.8	-17.3	3,610.8	1.09	1.09	0.00
11,684.0	90.00	182.00	8,301.3	-3,673.8	-19.5	3,673.8	0.95	0.95	0.00
11,747.0	90.70	180.80	8,301.0	-3,736.7	-21.0	3,736.8	2.21	1.11	-1.90
11,810.0	90.50	180.40	8,300.3	-3,799.7	-21.7	3,799.8	0.71	-0.32	-0.63
11,874.0	90.50	179.50	8,299.7	-3,863.7	-21.6	3,863.8	1.41	0.00	-1.41
11,937.0	91.00	180.20	8,298.9	-3,926.7	-21.5	3,926.8	1.37	0.79	1.11
12,000.0	91.30	179.30	8,297.7	-3,989.7	-21.2	3,989.8	1.51	0.48	-1.43
12,063.0	90.10	180.50	8,296.9	-4,052.7	-21.1	4,052.7	2.69	-1.90	1.90
12,127.0	89.10	180.80	8,297.3	-4,116.7	-21.8	4,116.7	1.63	-1.56	0.47
12,190.0	89.40	180.90	8,298.2	-4,179.7	-22.7	4,179.7	0.50	0.48	0.16
12,253.0	89.10	180.70	8,299.0	-4,242.7	-23.6	4,242.7	0.57	-0.48	-0.32
12,317.0	91.80	181.70	8,298.5	-4,306.6	-25.0	4,306.7	4.50	4.22	1.56
12,380.0	91.80	180.10	8,296.5	-4,369.6	-26.0	4,369.7	2.54	0.00	-2.54
12,443.0	91.10	180.50	8,294.9	-4,432.6	-26.3	4,432.7	1.28	-1.11	0.63
12,506.0	91.30	181.20	8,293.6	-4,495.6	-27.2	4,495.6	1.16	0.32	1.11
12,570.0	91.80	179.60	8,291.9	-4,559.5	-27.7	4,559.6	2.62	0.78	-2.50
12,633.0	90.50	179.30	8,290.6	-4,622.5	-27.1	4,622.6	2.12	-2.06	-0.48
12,696.0	90.00	178.30	8,290.3	-4,685.5	-25.7	4,685.6	1.77	-0.79	-1.59
12,759.0	89.90	178.00	8,290.4	-4,748.5	-23.7	4,748.5	0.50	-0.16	-0.48
12,807.0	89.90	178.00	8,290.4	-4,796.4	-22.0	4,796.5	0.00	0.00	0.00

Design/Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,643.0	7,641.8	-40.3	32.0	7643' MD Gyro Survey
12,807.0	8,290.4	-4,796.4	-22.0	12807' MD Projected to Bit

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 2988.0usft (Patterson 45)
Site:	SECTION 2	MD Reference:	WELL @ 2988.0usft (Patterson 45)
Well:	Salt Draw 2 CN Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db



COMPANY: Mewbourne Oil Company
 WELL: Salt Draw 2 CN Fee #1H
 COUNTY: EDDY COUNTY, NM (NAD27)
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 45

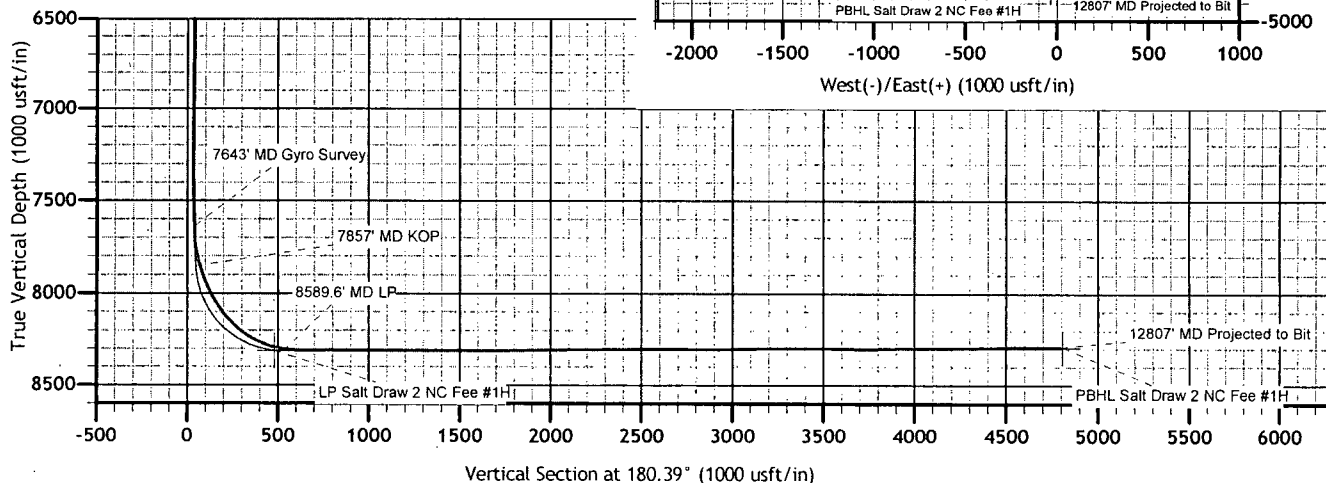
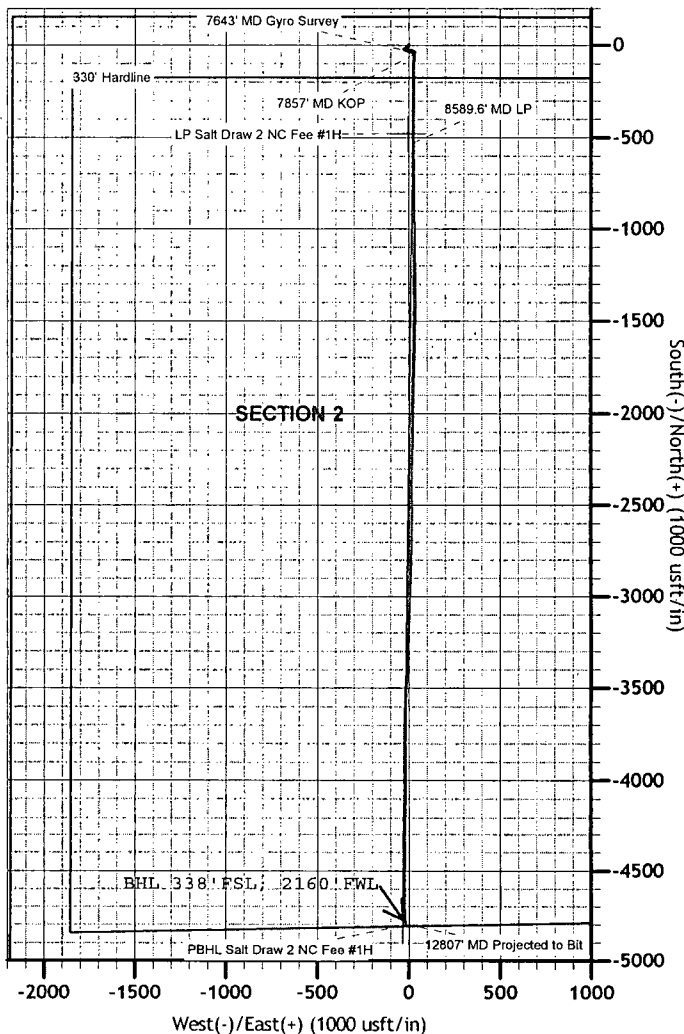
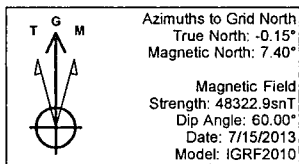


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.40°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001					
WELL @ 2988.0usft (Patterson 45)					
GROUND ELEVATION: 2968.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	424208.19	584894.50	32° 9' 57.484 N	104° 3' 32.330 W

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSECT	Target
1	7643.0	2.38	186.90	7641.8	-40.3	32.0	0.00	0.00	40.1	
2	7857.0	2.38	186.90	7855.6	-49.2	30.9	0.00	0.00	48.9	
3	8589.6	90.27	180.74	8313.4	-528.4	22.7	12.00	-6.17	528.3	
4	12867.7	90.27	180.74	8293.0	-4806.1	-32.4	0.00	0.00	4806.3	PBHL Salt Draw 2 NC Fee #1H



Operating Company Mewbourne
Well Name & Number Salt Draw 2 CN Fee #1H
Sales Ticket Number

Company Rep Russell Berryman
Field
BOT Service Rep Hector R Magallanes
District Location Odessa, Texas, USA



Date 8/24/2013

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,660.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	8,413.71	12,410	10,680	
Bott Liner											
TVD		7,744.00		KOP		7,729.00		Open Hole	6.125	Casing Vol. (bbl)	321.9
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
Liner Top	1	JR Setting Sleeve_RH Profile	8413.71							

Zone Length										
20 211.5	JR Sett. Slv. S3 Hyd Set Packer	8413.71	9.52	5.813	3.875					
	4-1/2-13.5 LTC Nipple	8423.23	6.69	4.500	3.920					
	8 Joints of 4-1/2-13.5 LTC Casing	8429.92	315.74	4.500	3.920					
	3.625 EX Frac Sleeve	8745.66	2.40	5.750		3.625	2286	324	327	
	3 Joint of 4-1/2-13.5 LTC Casing	8748.06	119.51	4.500	3.920					
19 206.8	Baker Open Hole Packer	8867.57	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	8871.46	77.66	4.500	3.920					
	3.500 EX Frac Sleeve	8949.12	2.40	5.750		3.500	2286	302	330	
	3 Joint of 4-1/2-13.5 LTC Casing	8951.52	118.91	4.500	3.920					
	Baker Open Hole Packer	9070.43	3.89	5.820	3.875		2154			
18 207.4	2 Joints of 4-1/2-13.5 LTC Casing	9074.32	78.02	4.500	3.920					
	3.375 EX Frac Sleeve	9152.34	2.40	5.750		3.375	2286	281	333	
	3 Joint of 4-1/2-13.5 LTC Casing	9154.74	119.16	4.500	3.920					
	Baker Open Hole Packer	9273.90	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	9277.79	81.25	4.500	3.920					
17 209.4	3.250 EX Frac Sleeve	9359.04	2.40	5.750		3.250	2286	261	336	
	2 Joint of 4-1/2-13.5 LTC Casing	9361.44	117.61	4.500	3.920					
	Baker Open Hole Packer	9479.05	3.89	5.820	3.875		2154			
	3 Joints of 4-1/2-13.5 LTC Casing	9482.94	120.28	4.500	3.920					
	3.125 EX Frac Sleeve	9603.22	2.40	5.750		3.125	2286	241	340	
16 247.8	3 Joints of 4-1/2-13.5 LTC Casing	9605.62	117.43	4.500	3.920					
	Baker Open Hole Packer	9723.05	3.89	5.820	3.875		2154			

Operating Company Mewbourne
 Well Name & Number Salt Draw 2 CN Fee #1H
 Sales Ticket Number _____
 Date 8/24/2013

Company Rep Russell Berryman
 Field _____
 BOT Service Rep Hector R Magallanes
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,660.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	8,413.71	12,410	10,680	
Bott Liner											
TVD		7,744.00		KOP		7,729.00		Open Hole	6.125	Casing Vol. (bbl)	321.9
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ. (BBL)
15 207.1		3 Joints of 4-1/2-13.5 LTC Casing	9726.94	77.47	4.500	3.920				
		3.000 EX Frac Sleeve	9804.41	2.40	5.750		3.000	2375	226	343
		3 Joint of 4-1/2-13.5 LTC Casing	9806.81	119.44	4.500	3.920				
14 204.8		Baker Open Hole Packer	9926.25	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9930.14	77.66	4.500	3.920				
		2.875 EX Frac Sleeve	10007.80	2.40	5.750		2.875	2286	204	346
13 208.6		3 Joints of 4-1/2-13.5 LTC Casing	10010.20	116.94	4.500	3.920				
		Baker Open Hole Packer	10127.14	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10131.03	79.78	4.500	3.920				
12 205.1		2.750 EX Frac Sleeve	10210.81	2.40	5.750		2.750	2286	187	349
		3 Joint of 4-1/2-13.5 LTC Casing	10213.21	118.65	4.500	3.920				
		Baker Open Hole Packer	10331.86	3.89	5.820	3.875		2154		
11 250		2 Joints of 4-1/2-13.5 LTC Casing	10335.75	77.07	4.500	3.920				
		2.625 EX Frac Sleeve	10412.82	2.40	5.750		2.625	2286	170	352
		3 Joints of 4-1/2-13.5 LTC Casing	10415.22	117.86	4.500	3.920				
10 212.5		Baker Open Hole Packer	10533.08	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10536.97	120.61	4.500	3.920				
		2.500 EX Frac sleeve	10657.58	2.40	5.750		2.500	2286	154	355
9		3 Joint of 4-1/2-13.5 LTC Casing	10659.98	119.20	4.500	3.920				
		Baker Open Hole Packer	10779.18	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10783.07	81.11	4.500	3.920				
		2.375 EX Frac Sleeve	10864.18	2.40	5.750		2.375	2286	139	358
		3 Joints of 4-1/2-13.5 LTC Casing	10866.58	121.24	4.500	3.920				
		Baker Open Hole Packer	10987.82	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10991.71	118.04	4.500	3.920				
		2.250 EX Frac Sleeve	11109.75	2.40	5.750		2.250	2286	125	362

Operating Company Mewbourne
Well Name & Number Salt Draw 2 CN Fee #1H
Sales Ticket Number
Date 8/24/2013

Company Rep Russell Berryman
Field
BOT Service Rep Hector R Magallanes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,660.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	8,413.71	12,410	10,680	
Bott Liner											
TVD		7,744.00		KOP		7,729.00		Open Hole	6.125	Casing Vol. (bbl)	321.9
Carry Fluid Weight (ppg)			8.6		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Disp. (BBL)
248.3		3 Joints of 4-1/2-13.5 LTC Casing	11112.15	120.06	4.500	3.920				
		Baker Open Hole Packer	11232.21	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	11236.10	116.26	4.500	3.920				
8		2.125 EX Frac Sleeve	11352.36	2.40	5.750		2.125	2286	111	366
243.7		3 Joints of 4-1/2-13.5 LTC Casing	11354.76	117.27	4.500	3.920				
		Baker Open Hole Packer	11472.03	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11475.92	80.13	4.500	3.920				
7		2.000 EX Frac Sleeve	11556.05	2.40	5.750		2.000	2286	99	369
210.9		3 Joints of 4-1/2-13.5 LTC Casing	11558.45	120.63	4.500	3.920				
		Baker Open Hole Packer	11679.08	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11682.97	78.82	4.500	3.920				
6		1.875 EX Frac Sleeve	11761.79	2.40	5.750		1.875	2286	87	372
208.6		3 Joints of 4-1/2-13.5 LTC Casing	11764.19	119.58	4.500	3.920				
		Baker Open Hole Packer	11883.77	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11887.66	80.04	4.500	3.920				
5		1.750 EX Frac Sleeve	11967.70	2.40	5.750		1.750	2286	76	375
209.01		3 Joint of 4-1/2-13.5 LTC Casing	11970.10	118.79	4.500	3.920				
		Baker Open Hole Packer	12088.89	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12092.78	79.06	4.500	3.920				
4		1.625 EX Frac Sleeve	12171.84	2.40	5.750		1.625	2286	65	378
208.04		3 Joints of 4-1/2-13.5 LTC Casing	12174.24	118.80	4.500	3.920				
		Baker Open Hole Packer	12293.04	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12296.93	81.73	4.500	3.920				
3		1.500 DB EX Frac Sleeve	12378.66	2.40	5.750		1.500	2286	55	381
171.70		2 Joint of 4-1/2-13.5 LTC Casing	12381.06	79.79	4.500	3.920				
		Baker Open Hole Packer	12460.85	3.89	5.820	3.875		2154		

Company Rep	Russell Berryman
Field	
BOT Service Rep	Hector R Magallanes
District Location	Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,660.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	8,413.71	12,410	10,680	
Bott Liner											
TVD		7,744.00		KOP		7,729.00		Open Hole	6.125	Casing Vol. (bbl)	321.9
Carry Fluid Weight (ppg)			8.6		Propan Content (ppa)				Max Drill Out Size		0

[illegible]