

Mewbourne Oil Co

Eddy County, New Mexico

Sec 2, T25S, R28E

Salt Draw 2 CN Fee #2H

30-015-41729

Wellbore #1

Design: Wellbore #1

DDC Survey Report

31 January, 2014



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson UTI)
Site:	Sec 2, T25S, R28E	MD Reference:	WELL @ 2991.0usft (Patterson UTI)
Well:	Salt Draw 2 CN Fee #2H	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 2, T25S, R28E		
Site Position:		Northing:	424,213.50 usft
From:	Map	Easting:	584,394.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 57.549 N
		Longitude:	104° 3' 38.146 W
		Grid Convergence:	0.15 °

Well	Salt Draw 2 CN Fee #2H		
Well Position:	+N/-S	0.0 usft	Northing: 424,213.50 usft
	+E/-W	0.0 usft	Easting: 584,394.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 57.549 N
		Longitude:	104° 3' 38.146 W
		Ground Level:	2,971.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/7/2014	7.49	59.99	48,275

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	176.46

Survey Program	Date	1/31/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,940.0	VES Gyro (Wellbore #1)	Good_gyro	Good Gyro
10,018.0	15,280.0	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.41	105.28	100.0	-0.1	0.3	0.1	0.41	0.41	0.00	
200.0	1.12	80.44	200.0	0.0	1.7	0.1	0.77	0.71	-24.84	
300.0	1.27	81.72	300.0	0.3	3.7	-0.1	0.15	0.15	1.28	
400.0	1.84	75.45	399.9	0.9	6.4	-0.5	0.59	0.57	-6.27	
500.0	1.53	63.70	499.9	1.9	9.1	-1.3	0.46	-0.31	-11.75	
600.0	1.38	56.03	599.9	3.1	11.3	-2.4	0.25	-0.15	-7.67	
700.0	0.81	44.28	699.8	4.3	12.8	-3.5	0.61	-0.57	-11.75	
800.0	0.87	35.11	799.8	5.4	13.7	-4.6	0.15	0.06	-9.17	
900.0	0.62	43.06	899.8	6.4	14.5	-5.5	0.27	-0.25	7.95	

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Well:	Salt Draw 2 CN Fee #2H	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	1.17	34.11	999.8	7.7	15.5	-6.7	0.57	0.55	-8.95
1,100.0	0.98	21.27	1,099.8	9.3	16.4	-8.3	0.31	-0.19	-12.84
1,200.0	1.61	5.82	1,199.8	11.5	16.8	-10.5	0.71	0.63	-15.45
1,300.0	0.79	355.86	1,299.7	13.6	16.9	-12.5	0.84	-0.82	-9.96
1,400.0	0.79	349.35	1,399.7	15.0	16.7	-13.9	0.09	0.00	-6.51
1,500.0	1.24	5.51	1,499.7	16.7	16.7	-15.7	0.53	0.45	16.16
1,600.0	0.73	7.14	1,599.7	18.4	16.9	-17.4	0.51	-0.51	1.63
1,700.0	0.89	23.87	1,699.7	19.8	17.3	-18.7	0.28	0.16	16.73
1,800.0	1.02	38.59	1,799.7	21.2	18.2	-20.0	0.28	0.13	14.72
1,900.0	2.96	85.15	1,899.6	22.1	21.3	-20.7	2.38	1.94	46.56
2,000.0	3.97	90.10	1,999.4	22.3	27.3	-20.6	1.05	1.01	4.95
2,100.0	4.43	92.52	2,099.2	22.1	34.6	-19.9	0.49	0.46	2.42
2,200.0	5.89	101.14	2,198.8	21.0	43.5	-18.2	1.65	1.46	8.62
2,300.0	6.81	101.36	2,298.1	18.8	54.4	-15.4	0.92	0.92	0.22
2,400.0	7.13	98.47	2,397.4	16.7	66.3	-12.6	0.47	0.32	-2.89
2,500.0	5.99	98.60	2,496.7	15.0	77.6	-10.2	1.14	-1.14	0.13
2,600.0	4.56	102.41	2,596.3	13.4	86.7	-8.0	1.47	-1.43	3.81
2,700.0	3.52	104.69	2,696.1	11.8	93.5	-6.0	1.05	-1.04	2.28
2,800.0	3.14	101.40	2,795.9	10.4	99.2	-4.3	0.43	-0.38	-3.29
2,900.0	2.89	105.12	2,895.8	9.2	104.3	-2.8	0.32	-0.25	3.72
3,000.0	2.61	103.29	2,995.6	8.1	108.9	-1.3	0.29	-0.28	-1.83
3,100.0	2.42	107.57	3,095.6	6.9	113.2	0.1	0.27	-0.19	4.28
3,200.0	2.14	111.02	3,195.5	5.6	116.9	1.6	0.31	-0.28	3.45
3,300.0	1.79	119.47	3,295.4	4.2	120.0	3.3	0.45	-0.35	8.45
3,400.0	1.49	122.01	3,395.4	2.7	122.5	4.9	0.31	-0.30	2.54
3,500.0	0.99	137.42	3,495.3	1.4	124.2	6.3	0.60	-0.50	15.41
3,600.0	0.90	146.65	3,595.3	0.1	125.2	7.6	0.18	-0.09	9.23
3,700.0	0.97	133.33	3,695.3	-1.2	126.2	8.9	0.23	0.07	-13.32
3,800.0	0.66	119.64	3,795.3	-2.0	127.4	9.9	0.36	-0.31	-13.69
3,900.0	0.42	124.37	3,895.3	-2.5	128.2	10.4	0.24	-0.24	4.73
4,000.0	0.77	123.25	3,995.3	-3.1	129.0	11.0	0.35	0.35	-1.12
4,100.0	0.73	124.58	4,095.3	-3.8	130.1	11.8	0.04	-0.04	1.33
4,200.0	0.81	128.72	4,195.3	-4.6	131.2	12.7	0.10	0.08	4.14
4,300.0	0.59	135.26	4,295.3	-5.4	132.1	13.6	0.23	-0.22	6.54
4,400.0	0.46	147.21	4,395.3	-6.1	132.7	14.3	0.17	-0.13	11.95
4,500.0	0.49	162.86	4,495.3	-6.9	133.0	15.1	0.13	0.03	15.65
4,600.0	0.57	165.93	4,595.3	-7.8	133.3	16.0	0.08	0.08	3.07
4,700.0	0.76	153.83	4,695.3	-8.8	133.7	17.1	0.24	0.19	-12.10
4,800.0	0.99	163.02	4,795.2	-10.3	134.2	18.5	0.27	0.23	9.19
4,900.0	1.12	155.63	4,895.2	-12.0	134.9	20.3	0.19	0.13	-7.39
5,000.0	0.80	175.92	4,995.2	-13.6	135.3	21.9	0.46	-0.32	20.29
5,100.0	0.79	169.03	5,095.2	-14.9	135.5	23.3	0.10	-0.01	-6.89
5,200.0	0.50	154.07	5,195.2	-16.0	135.8	24.4	0.33	-0.29	-14.96

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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	0.81	144.02	5,295.2	-17.0	136.4	25.4	0.33	0.31	-10.05	
5,400.0	0.52	130.03	5,395.2	-17.8	137.2	26.3	0.33	-0.29	-13.99	
5,500.0	0.23	186.19	5,495.2	-18.3	137.5	26.8	0.44	-0.29	56.16	
5,600.0	0.29	170.01	5,595.2	-18.8	137.6	27.2	0.09	0.06	-16.18	
5,700.0	0.37	160.42	5,695.2	-19.3	137.7	27.8	0.10	0.08	-9.59	
5,800.0	0.52	172.05	5,795.2	-20.1	137.9	28.6	0.17	0.15	11.63	
5,900.0	0.58	178.03	5,895.2	-21.0	138.0	29.5	0.08	0.06	5.98	
6,000.0	0.75	181.72	5,995.2	-22.2	138.0	30.7	0.18	0.17	3.69	
6,100.0	0.78	169.06	6,095.2	-23.5	138.1	32.0	0.17	0.03	-12.66	
6,200.0	1.28	179.30	6,195.1	-25.3	138.2	33.8	0.53	0.50	10.24	
6,300.0	1.38	182.77	6,295.1	-27.6	138.2	36.1	0.13	0.10	3.47	
6,400.0	1.71	172.14	6,395.1	-30.3	138.3	38.8	0.44	0.33	-10.63	
6,500.0	2.96	165.91	6,495.0	-34.3	139.1	42.8	1.27	1.25	-6.23	
6,600.0	1.37	153.47	6,594.9	-37.9	140.3	46.5	1.65	-1.59	-12.44	
6,700.0	0.62	191.55	6,694.9	-39.5	140.7	48.1	0.96	-0.75	38.08	
6,800.0	0.52	175.11	6,794.9	-40.4	140.7	49.1	0.19	-0.10	-16.44	
6,900.0	1.50	186.63	6,894.9	-42.2	140.6	50.8	1.00	0.98	11.52	
7,000.0	1.44	201.65	6,994.9	-44.7	139.9	53.2	0.39	-0.06	15.02	
7,100.0	2.33	249.57	7,094.8	-46.5	137.6	55.0	1.73	0.89	47.92	
7,200.0	2.14	300.13	7,194.7	-46.3	134.0	54.5	1.92	-0.19	50.56	
7,300.0	2.13	307.44	7,294.7	-44.3	131.0	52.3	0.27	-0.01	7.31	
7,400.0	1.31	311.91	7,394.6	-42.4	128.6	50.2	0.83	-0.82	4.47	
7,500.0	1.28	315.06	7,494.6	-40.8	127.0	48.6	0.08	-0.03	3.15	
7,600.0	1.33	301.98	7,594.6	-39.4	125.2	47.1	0.30	0.05	-13.08	
7,700.0	0.91	324.93	7,694.5	-38.1	123.8	45.7	0.61	-0.42	22.95	
7,800.0	1.24	19.92	7,794.5	-36.5	123.7	44.0	1.03	0.33	54.99	
7,900.0	2.46	43.05	7,894.5	-33.9	125.5	41.6	1.41	1.22	23.13	
8,000.0	1.44	24.07	7,994.4	-31.2	127.5	39.0	1.19	-1.02	-18.98	
8,100.0	1.30	18.95	8,094.4	-28.9	128.4	36.8	0.19	-0.14	-5.12	
8,200.0	0.76	40.35	8,194.4	-27.4	129.2	35.3	0.65	-0.54	21.40	
8,300.0	0.28	340.75	8,294.4	-26.6	129.5	34.6	0.66	-0.48	-59.60	
8,400.0	0.32	239.29	8,394.4	-26.5	129.2	34.5	0.47	0.04	-101.46	
8,500.0	2.86	220.04	8,494.3	-28.6	127.4	36.4	2.56	2.54	-19.25	
8,600.0	2.06	213.18	8,594.2	-32.0	124.8	39.7	0.85	-0.80	-6.86	
8,700.0	2.24	201.08	8,694.2	-35.3	123.1	42.9	0.49	0.18	-12.10	
8,800.0	1.87	195.92	8,794.1	-38.7	121.9	46.2	0.41	-0.37	-5.16	
8,900.0	1.28	183.00	8,894.1	-41.4	121.4	48.8	0.69	-0.59	-12.92	
9,000.0	1.05	192.17	8,994.0	-43.4	121.2	50.8	0.30	-0.23	9.17	
9,100.0	0.68	212.56	9,094.0	-44.8	120.7	52.2	0.48	-0.37	20.39	
9,200.0	0.90	223.42	9,194.0	-45.9	119.8	53.2	0.27	0.22	10.86	
9,300.0	0.76	224.95	9,294.0	-46.9	118.8	54.2	0.14	-0.14	1.53	
9,400.0	0.69	197.07	9,394.0	-48.0	118.2	55.2	0.36	-0.07	-27.88	
9,500.0	0.73	174.58	9,494.0	-49.2	118.0	56.4	0.28	0.04	-22.49	

DDC
Survey Report



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Site:	Sec 2, T25S, R28E	MD Reference:	WELL @ 2991.0usft (Patterson UTI)
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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)
9,600.0	0.51	189.83	9,594.0	-50.3	118.0	57.5	0.27	-0.22	15.25
9,700.0	0.60	171.32	9,694.0	-51.2	118.0	58.4	0.20	0.09	-18.51
9,800.0	0.84	227.16	9,794.0	-52.2	117.6	59.4	0.71	0.24	55.84
9,900.0	2.07	248.88	9,893.9	-53.4	115.3	60.4	1.33	1.23	21.72
TIE IN @ 9940' MD / 9940' TVD									
9,940.0	2.04	246.03	9,933.9	-53.9	114.0	60.9	0.27	-0.08	-7.13
10,018.0	1.60	238.50	10,011.9	-55.1	111.8	61.9	0.64	-0.56	-9.66
10,049.0	2.90	251.70	10,042.8	-55.5	110.7	62.3	4.49	4.19	42.58
10,081.0	4.80	262.90	10,074.8	-56.0	108.6	62.6	6.36	5.94	35.00
10,113.0	6.20	259.00	10,106.6	-56.4	105.6	62.9	4.53	4.38	-12.19
10,144.0	8.20	250.00	10,137.4	-57.5	101.9	63.7	7.39	6.45	-29.03
10,176.0	10.40	251.10	10,168.9	-59.2	97.0	65.1	6.90	6.88	3.44
10,207.0	13.40	253.20	10,199.3	-61.2	90.9	66.7	9.78	9.68	6.77
10,239.0	16.40	256.00	10,230.2	-63.4	83.0	68.4	9.64	9.38	8.75
10,271.0	20.10	259.10	10,260.6	-65.5	73.2	69.9	11.95	11.56	9.69
10,304.0	22.70	252.60	10,291.3	-68.5	61.5	72.1	10.65	7.88	-19.70
10,335.0	25.60	245.70	10,319.6	-73.0	49.7	75.9	13.04	9.35	-22.26
10,367.0	29.00	239.80	10,348.0	-79.8	36.7	81.9	13.57	10.63	-18.44
10,398.0	32.20	235.40	10,374.7	-88.2	23.4	89.5	12.59	10.32	-14.19
10,430.0	35.00	230.60	10,401.4	-98.9	9.3	99.3	12.06	8.75	-15.00
10,461.0	38.00	226.60	10,426.3	-111.1	-4.5	110.6	12.35	9.68	-12.90
10,493.0	40.60	222.90	10,451.1	-125.5	-18.8	124.1	10.94	8.13	-11.56
10,525.0	42.10	216.40	10,475.1	-141.8	-32.2	139.5	14.21	4.69	-20.31
10,556.0	44.80	211.30	10,497.6	-159.5	-44.1	156.5	14.27	8.71	-16.45
10,588.0	47.20	207.80	10,519.8	-179.5	-55.4	175.7	10.87	7.50	-10.94
CROSSED HARD LINE @ 10590' MD / 10521' TVD									
10,589.7	47.39	207.62	10,521.0	-180.6	-56.0	176.8	13.44	11.17	-10.18
10,619.0	50.70	204.80	10,540.2	-200.5	-65.7	196.0	13.44	11.30	-9.65
10,650.0	53.80	200.00	10,559.2	-223.1	-75.1	218.1	15.80	10.00	-15.48
10,682.0	56.40	195.50	10,577.5	-248.1	-83.0	242.5	14.11	8.13	-14.06
10,714.0	58.00	190.50	10,594.8	-274.3	-89.1	268.3	14.05	5.00	-15.63
10,746.0	60.40	184.40	10,611.2	-301.5	-92.6	295.2	18.01	7.50	-19.06
10,778.0	62.80	180.00	10,626.4	-329.7	-93.7	323.2	14.23	7.50	-13.75
10,790.0	64.30	179.50	10,631.8	-340.4	-93.6	334.0	13.04	12.50	-4.17
10,864.0	69.60	176.30	10,660.8	-408.4	-91.1	402.0	8.19	7.16	-4.32
10,895.0	69.60	175.40	10,671.6	-437.4	-89.0	431.1	2.72	0.00	-2.90
10,927.0	71.40	173.30	10,682.3	-467.4	-86.0	461.2	8.36	5.63	-6.56
10,958.0	72.70	174.50	10,691.8	-496.7	-82.9	490.7	5.58	4.19	3.87
10,990.0	74.30	174.50	10,700.9	-527.3	-80.0	521.3	5.00	5.00	0.00
11,022.0	79.10	175.10	10,708.3	-558.3	-77.1	552.4	15.11	15.00	1.88
11,053.0	82.00	174.50	10,713.3	-588.7	-74.4	583.0	9.55	9.35	-1.94
11,085.0	84.00	175.10	10,717.2	-620.3	-71.5	614.8	6.52	6.25	1.88
11,116.0	88.40	176.10	10,719.3	-651.2	-69.1	645.7	14.55	14.19	3.23
11,148.0	94.40	176.30	10,718.5	-683.1	-67.0	677.6	18.76	18.75	0.63

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson UTI)
Site:	Sec 2, T25S, R28E	MD Reference:	WELL @ 2991.0usft (Patterson UTI)
Well:	Salt Draw 2 CN Fee #2H	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)
11,180.0	95.80	174.70	10,715.7	-714.9	-64.5	709.5	6.63	4.38	-5.00
11,211.0	95.10	174.50	10,712.7	-745.6	-61.6	740.4	2.35	-2.26	-0.65
11,243.0	92.00	175.20	10,710.7	-777.4	-58.7	772.3	9.93	-9.69	2.19
11,275.0	91.60	175.60	10,709.7	-809.3	-56.2	804.3	1.77	-1.25	1.25
11,306.0	92.20	174.70	10,708.7	-840.1	-53.5	835.2	3.49	1.94	-2.90
11,370.0	89.80	172.40	10,707.6	-903.7	-46.4	899.1	5.19	-3.75	-3.59
11,433.0	89.10	172.60	10,708.2	-966.2	-38.1	962.0	1.16	-1.11	0.32
11,496.0	89.00	171.40	10,709.2	-1,028.6	-29.4	1,024.8	1.91	-0.16	-1.90
11,560.0	89.30	171.50	10,710.2	-1,091.8	-19.9	1,088.5	0.49	0.47	0.16
11,623.0	90.00	173.10	10,710.6	-1,154.3	-11.4	1,151.4	2.77	1.11	2.54
11,686.0	90.20	173.30	10,710.5	-1,216.8	-4.0	1,214.3	0.45	0.32	0.32
11,749.0	89.00	172.40	10,710.9	-1,279.3	3.9	1,277.1	2.38	-1.90	-1.43
11,812.0	89.10	170.80	10,712.0	-1,341.6	13.1	1,339.9	2.54	0.16	-2.54
11,876.0	88.50	170.30	10,713.3	-1,404.8	23.6	1,403.5	1.22	-0.94	-0.78
11,939.0	90.00	171.20	10,714.1	-1,466.9	33.7	1,466.2	2.78	2.38	1.43
12,002.0	89.10	169.80	10,714.6	-1,529.1	44.1	1,528.9	2.64	-1.43	-2.22
12,065.0	91.70	171.50	10,714.2	-1,591.2	54.3	1,591.5	4.93	4.13	2.70
12,128.0	91.90	172.10	10,712.2	-1,653.5	63.3	1,654.3	1.00	0.32	0.95
12,191.0	91.50	172.10	10,710.3	-1,715.9	72.0	1,717.1	0.63	-0.63	0.00
12,255.0	92.00	171.70	10,708.4	-1,779.2	81.0	1,780.9	1.00	0.78	-0.63
12,318.0	89.70	172.60	10,707.4	-1,841.6	89.6	1,843.7	3.92	-3.65	1.43
12,381.0	89.30	173.50	10,708.0	-1,904.2	97.2	1,906.5	1.56	-0.63	1.43
12,444.0	88.40	174.50	10,709.2	-1,966.8	103.8	1,969.5	2.14	-1.43	1.59
12,507.0	88.70	174.40	10,710.8	-2,029.5	109.9	2,032.4	0.50	0.48	-0.16
12,571.0	88.50	175.20	10,712.4	-2,093.2	115.7	2,096.4	1.29	-0.31	1.25
12,602.0	87.30	174.90	10,713.5	-2,124.1	118.4	2,127.3	3.99	-3.87	-0.97
12,634.0	86.70	173.70	10,715.2	-2,155.9	121.5	2,159.3	4.19	-1.88	-3.75
12,665.0	90.00	175.10	10,716.1	-2,186.7	124.6	2,190.2	11.56	10.65	4.52
12,729.0	93.90	174.20	10,713.9	-2,250.4	130.5	2,254.1	6.25	6.09	-1.41
12,760.0	93.30	174.90	10,712.0	-2,281.2	133.5	2,285.1	2.97	-1.94	2.26
12,792.0	92.60	175.40	10,710.3	-2,313.0	136.2	2,317.0	2.69	-2.19	1.56
12,824.0	93.80	177.00	10,708.6	-2,344.9	138.3	2,349.0	6.24	3.75	5.00
12,855.0	92.50	177.00	10,706.8	-2,375.8	139.9	2,379.9	4.19	-4.19	0.00
12,887.0	90.80	177.40	10,705.9	-2,407.8	141.5	2,411.9	5.46	-5.31	1.25
12,919.0	89.50	177.20	10,705.8	-2,439.7	143.0	2,443.9	4.11	-4.06	-0.63
12,950.0	89.30	178.20	10,706.2	-2,470.7	144.2	2,474.9	3.29	-0.65	3.23
12,982.0	89.70	178.40	10,706.4	-2,502.7	145.2	2,506.9	1.40	1.25	0.63
13,013.0	91.30	178.80	10,706.2	-2,533.7	145.9	2,537.8	5.32	5.16	1.29
13,045.0	91.90	179.80	10,705.3	-2,565.7	146.3	2,569.8	3.64	1.88	3.13
13,077.0	90.70	180.00	10,704.6	-2,597.6	146.4	2,601.7	3.80	-3.75	0.63
13,108.0	89.70	180.30	10,704.5	-2,628.6	146.3	2,632.7	3.37	-3.23	0.97
13,171.0	88.90	179.80	10,705.2	-2,691.6	146.2	2,695.5	1.50	-1.27	-0.79
13,235.0	90.10	181.60	10,705.8	-2,755.6	145.5	2,759.4	3.38	1.88	2.81

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Salt Draw 2 CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson UTI)
Site:	Sec 2, T25S, R28E	MD Reference:	WELL @ 2991.0usft (Patterson UTI)
Well:	Salt Draw 2 CN Fee #2H	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)
14,658.0	90.10	171.50	10,702.8	-4,172.9	186.0	4,176.4	7.02	-6.56	-2.50
14,689.0	90.00	171.70	10,702.8	-4,203.6	190.6	4,207.3	0.72	-0.32	0.65
14,721.0	89.80	171.50	10,702.9	-4,235.2	195.3	4,239.2	0.88	-0.63	-0.63
14,752.0	89.50	170.80	10,703.1	-4,265.9	200.0	4,270.1	2.46	-0.97	-2.26
14,784.0	88.90	170.50	10,703.5	-4,297.4	205.2	4,301.9	2.10	-1.88	-0.94
14,815.0	89.00	170.70	10,704.1	-4,328.0	210.3	4,332.7	0.72	0.32	0.65
14,847.0	90.70	171.90	10,704.2	-4,359.7	215.1	4,364.6	6.50	5.31	3.75
14,879.0	92.40	173.50	10,703.3	-4,391.4	219.2	4,396.5	7.29	5.31	5.00
14,910.0	92.90	173.50	10,701.9	-4,422.1	222.7	4,427.5	1.61	1.61	0.00
14,942.0	93.30	173.80	10,700.1	-4,453.9	226.2	4,459.4	1.56	1.25	0.94
14,973.0	91.80	174.20	10,698.8	-4,484.7	229.5	4,490.3	5.01	-4.84	1.29
15,005.0	91.60	174.40	10,697.8	-4,516.5	232.6	4,522.3	0.88	-0.63	0.63
15,037.0	92.20	174.20	10,696.7	-4,548.4	235.8	4,554.2	1.98	1.88	-0.63
15,068.0	91.10	175.10	10,695.9	-4,579.2	238.7	4,585.2	4.58	-3.55	2.90
15,100.0	90.00	175.80	10,695.5	-4,611.1	241.2	4,617.2	4.07	-3.44	2.19
15,131.0	88.50	176.10	10,696.0	-4,642.0	243.4	4,648.2	4.93	-4.84	0.97
15,163.0	87.80	176.60	10,697.0	-4,673.9	245.5	4,680.2	2.69	-2.19	1.56
15,195.0	88.10	177.40	10,698.1	-4,705.9	247.1	4,712.2	2.67	0.94	2.50
15,230.0	87.70	177.20	10,699.4	-4,740.8	248.8	4,747.1	1.28	-1.14	-0.57
15,280.0	87.70	177.20	10,701.4	-4,790.7	251.2	4,797.1	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,940.0	9,933.9	-53.9	114.0	TIE IN @ 9940' MD / 9940' TVD
10,589.7	10,521.0	-180.6	-56.0	CROSSED HARD LINE @ 10590' MD / 10521' TVD
15,280.0	10,701.4	-4,790.7	251.2	TD @ 15280' MD / 10701' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Salt Draw 2 CN Fee #2H
Eddy County, New Mexico
Rig: Patterson #187
Created By: James Dawson
Date: 01/31/2014

Salt Draw 2 CN Fee #2H
Eddy County, New Mexico
Q130936 & WT-140030
Design #2

Mewbourne Oil Company



Azimuths to Grid North
Magnetic North: 7.35°

Magnetic Field
Strength: 48274.9snT
Dip Angle: 59.99°
Date: 1/7/2014
Model: IGRF2010



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

WELL DETAILS: Salt Draw 2 CN Fee #2H

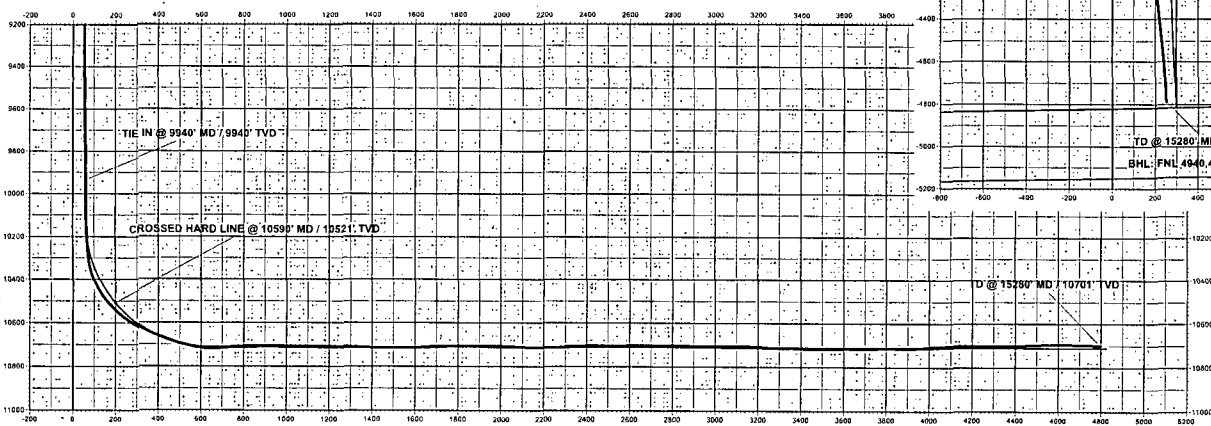
Ground Level: 2971.0
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 424213.50 556394.50 32° 9' 57.549 N 104° 3' 36.146 W

DESIGN TARGET DETAILS

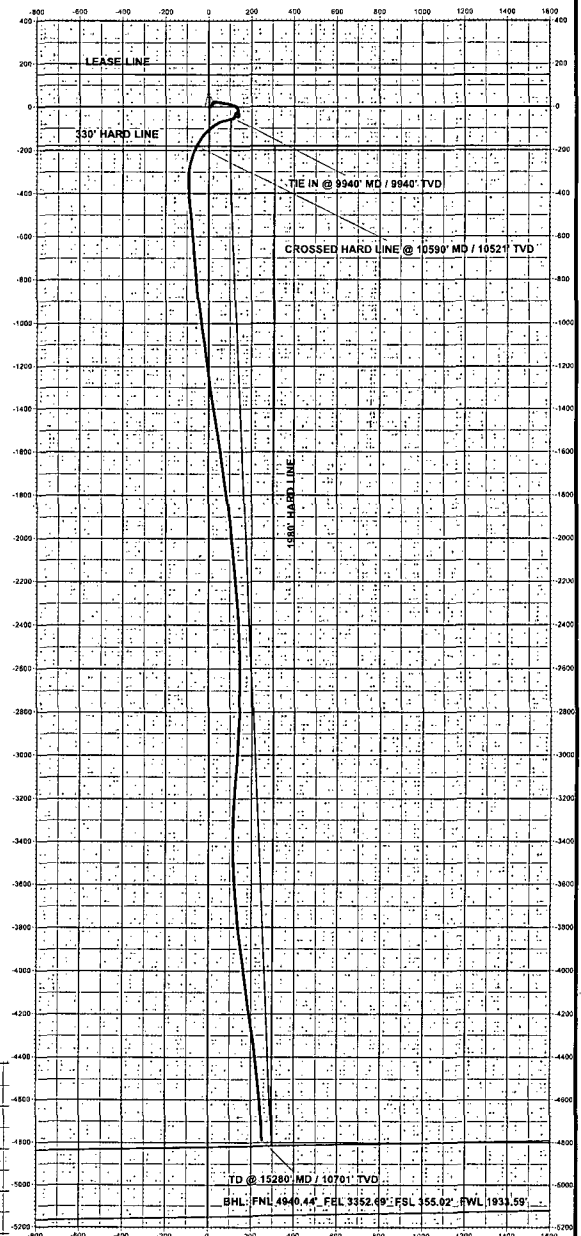
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PSML Salt Draw 1 CN Fee #2H - plan hits target center	10711.0	-4814.8	297.6	419598.69	584692.15	32° 9' 9.892 N	104° 3' 34.826 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
9940.0	2.04	246.03	9933.9	-53.9	114.0	60.9	261.5	TIE IN @ 9940' MD / 9940' TVD
10588.7	47.39	207.62	10521.0	-189.6	-56.0	176.8	482.5	CROSSED HARD LINE @ 10599' MD / 10521' TVD
15280.0	87.70	177.20	10701.4	-4790.7	251.2	4787.1	5122.4	TD @ 15280' MD / 10701' TVD



Vertical Section at 176.46° (200 usft/in)



Operating Company Mewbourne Oil Co.
Well Name & Number Salt Draw 2 CN Fee #2H
Sales Ticket Number 0006127440-1
Date 1/31/2014

Company Rep Travis Mann
Field 0
BOT Service Rep John Davis
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse		
Casing	7.000	26.00	P-110	6.276	6.151	LTC / 8RD	0.03826	10,785.00	9,960	6,230		
Top Liner	4.500	13.50	P-110	3.920	3.795	LTC / 8RD	0.01492	4,679.61	12,410	10,680		
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-		
TVD		10697.00		KOP		10038.00		Open Hole		6.125	Casing Vol. (bbl)	386.5
Carry Fluid Weight (ppg)			12.8		Propan 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		10102.39							

Zone Length									
30	JR Sleeve_S3 Hyd Set Packer	10102.39	9.55	5.313	3.875				
	4-1/2-13.5 LTC Nipple	10111.94	8.08	5.000	3.920				
29	8 Joints of 4-1/2-13.5 LTC Casing	10120.02	317.27	5.000	3.920				
	3.500" EXC Sleeve (Zone 30)	10437.29	2.40	5.750		3.448	2286		
28	2 Joint of 4-1/2-13.5 LTC Casing	10439.69	75.74	5.000	3.920				
	Baker Open Hole Packer	10515.43	3.89	5.820	3.875		2154		
27	1 Joints of 4-1/2-13.5 LTC Casing	10519.32	38.95	5.000	3.920				
	3.438" EXC Sleeve (Zone 29)	10558.27	2.40	5.750		3.385	2286		
26	2 Joint of 4-1/2-13.5 LTC Casing	10560.67	79.32	5.000	3.920				
	Baker Open Hole Packer	10639.99	3.89	5.820	3.875		2154		
25	2 Joints of 4-1/2-13.5 LTC Casing	10643.88	79.95	5.000	3.920				
	3.375" EXC Sleeve (Zone 28)	10723.83	2.40	5.750		3.323	2286		
24	2 Joint of 4-1/2-13.5 LTC Casing	10726.23	79.65	5.000	3.920				
	Baker Open Hole Packer	10805.88	3.89	5.820	3.875		2154		
23	1 Joints of 4-1/2-13.5 LTC Casing	10809.77	39.27	5.000	3.920				
	3.313" EXC Sleeve (Zone 27)	10849.04	2.40	5.750		3.260	2286		
22	2 Joint of 4-1/2-13.5 LTC Casing	10851.44	78.92	5.000	3.920				
	Baker Open Hole Packer	10930.36	3.89	5.820	3.875		2154		
21	2 Joints of 4-1/2-13.5 LTC Casing	10934.25	80.26	5.000	3.920				
	3.250" EXC Sleeve (Zone 26)	11014.51	2.40	5.750		3.198	2286		
20	2 Joints of 4-1/2-13.5 LTC Casing	11016.91	82.18	5.000	3.920				
	Baker Open Hole Packer	11099.09	3.89	5.820	3.875		2154		
19	1 Joints of 4-1/2-13.5 LTC Casing	11102.98	39.95	5.000	3.920				
	3.188" EXC Sleeve (Zone 25)	11142.93	2.40	5.750		3.135	2286		
18	2 Joint of 4-1/2-13.5 LTC Casing	11145.33	80.48	5.000	3.920				
	Baker Open Hole Packer	11225.81	3.89	5.820	3.875		2154		
17	2 Joints of 4-1/2-13.5 LTC Casing	11229.70	80.76	5.000	3.920				
	3.125" EXC Sleeve (Zone 24)	11310.46	2.40	5.750		3.073	2286		
16	2 Joints of 4-1/2-13.5 LTC Casing	11312.86	80.05	5.000	3.920				
	Baker Open Hole Packer	11392.91	3.89	5.820	3.875		2154		
15	1 Joints of 4-1/2-13.5 LTC Casing	11396.80	40.51	5.000	3.920				
	3.063" EXC Sleeve (Zone 23)	11437.31	2.40	5.750		3.010	2286		
14	2 Joint of 4-1/2-13.5 LTC Casing	11439.71	80.99	5.000	3.920				
	Baker Open Hole Packer	11520.70	3.89	5.820	3.875		2154		

Operating Company Mewbourne Oil Co.
Well Name & Number Salt Draw 2 CN Fee #2H
Sales Ticket Number 0006127440-1
Date 1/31/2014

Company Rep Travis Mann
Field 0
BOT Service Rep John Davis
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LTC / 8RD	0.03826	10,785.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LTC / 8RD	0.01492	4,679.61	12,410	10,680
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10697.00	KOP	10038.00	Open Hole	6.125	Casing Vol. (bbl)	386.5
Carry Fluid Weight (ppg)	12.8	Propan Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
22		2 Joints of 4-1/2-13.5 LTC Casing	11524.59	77.22	5.000	3.920				
		3.000" EXC Sleeve (Zone 22)	11601.81	2.40	5.750		2.948	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	11604.21	78.53	5.000	3.920				
21		Baker Open Hole Packer	11682.74	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11686.63	79.70	5.000	3.920				
		2.938" EXC Sleeve (Zone 21)	11766.33	2.40	5.750		2.885	2286		
20		2 Joint of 4-1/2-13.5 LTC Casing	11768.73	78.82	5.000	3.920				
		Baker Open Hole Packer	11847.55	3.89	5.820	3.875		2154		
		1 Joints of 4-1/2-13.5 LTC Casing	11851.44	41.38	5.000	3.920				
19		2.875" EXC Sleeve (Zone 20)	11892.82	2.40	5.750		2.823	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	11895.22	80.23	5.000	3.920				
		Baker Open Hole Packer	11975.45	3.89	5.820	3.875		2154		
18		2 Joint of 4-1/2-13.5 LTC Casing	11979.34	80.03	5.000	3.920				
		2.813" EXC Sleeve (Zone 19)	12059.37	2.40	5.750		2.760	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	12061.77	80.03	5.000	3.920				
17		Baker Open Hole Packer	12141.80	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12145.69	82.32	5.000	3.920				
		2.750" EXC Sleeve (Zone 18)	12228.01	2.40	5.750		2.698	2286		
16		2 Joints of 4-1/2-13.5 LTC Casing	12230.41	79.02	5.000	3.920				
		Baker Open Hole Packer	12309.43	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12313.32	76.13	5.000	3.920				
15		2.688" EXC Sleeve (Zone 17)	12389.45	2.40	5.750		2.635	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	12391.85	79.38	5.000	3.920				
		Baker Open Hole Packer	12471.23	3.89	5.820	3.875		2154		
14		1 Joint of 4-1/2-13.5 LTC Casing	12475.12	39.44	5.000	3.920				
		2.625" EXC Sleeve (Zone 16)	12514.56	2.40	5.750		2.573	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	12516.96	79.68	5.000	3.920				
13		Baker Open Hole Packer	12596.64	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12600.53	79.74	5.000	3.920				
		2.563" EXC Sleeve (Zone 15)	12680.27	2.40	5.750		2.510	2286		
12		2 Joint of 4-1/2-13.5 LTC Casing	12682.67	79.82	5.000	3.920				
		Baker Open Hole Packer	12762.49	3.89	5.820	3.875		2154		
		1 Joints of 4-1/2-13.5 LTC Casing	12766.38	38.50	5.000	3.920				
11		2.500" EXC Sleeve (Zone 14)	12804.88	2.40	5.750		2.448	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	12807.28	80.11	5.000	3.920				
		Baker Open Hole Packer	12887.39	3.89	5.820	3.875		2154		
10		2 Joints of 4-1/2-13.5 LTC Casing	12891.28	76.06	5.000	3.920				
		2.438" EXC Sleeve (Zone 13)	12967.34	2.40	5.750		2.386	2286		

Operating Company Mewbourne Oil Co.
 Well Name & Number Salt Draw 2 CN Fee #2H
 Sales Ticket Number 0006127440-1
 Date 1/31/2014

Company Rep Travis Mann
 Field 0
 BOT Service Rep John Davis
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151	LTC / 8RD	0.03826	10,785.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LTC / 8RD	0.01492	4,679.61	12,410	10,680
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10697.00	KOP	10038.00	Open Hole	6.125	Casing Vol. (bbl)	386.5
Carry Fluid Weight (ppg)	12.8	Propan Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
12		2 Joint of 4-1/2-13.5 LTC Casing	12969.74	80.46	5.000	3.920				
		Baker Open Hole Packer	13050.20	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13054.09	79.10	5.000	3.920				
11		2.375" EXC Sleeve (Zone 12)	13133.19	2.40	5.750		2.323	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	13135.59	78.36	5.000	3.920				
		Baker Open Hole Packer	13213.95	3.89	5.820	3.875		2154		
10		1 Joints of 4-1/2-13.5 LTC Casing	13217.84	39.20	5.000	3.920				
		2.313" EXC Sleeve (Zone 11)	13257.04	2.40	5.750		2.261	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	13259.44	78.91	5.000	3.920				
9			13338.35	3.89	5.820			2154		
		1 Joints of 4-1/2-13.5 LTC Casing	13342.24	40.47	5.000	3.920				
		2.250" EXC Sleeve (Zone 10)	13382.71	2.40	5.750		2.198	2286		
8		2 Joints of 4-1/2-13.5 LTC Casing	13385.11	79.46	5.000	3.920				
			13464.57	3.89	5.820			2154		
		1 Joints of 4-1/2-13.5 LTC Casing	13468.46	38.53	5.000	3.920				
7		2.188" EXC Sleeve (Zone 9)	13506.99	2.40	5.750		2.136	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	13509.39	79.81	5.000	3.920				
			13589.20	3.89	5.820			2154		
6		2 Joints of 4-1/2-13.5 LTC Casing	13593.09	80.25	5.000	3.920				
		2.125" EXC Sleeve (Zone 8)	13673.34	2.40	5.750		2.073	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	13675.74	78.92	5.000	3.920				
5			13754.66	3.89	5.820			2154		
		1 Joints of 4-1/2-13.5 LTC Casing	13758.55	39.21	5.000	3.920				
		2.063" EXC Sleeve (Zone 7)	13797.76	2.40	5.750		2.110	2286		
4		2 Joints of 4-1/2-13.5 LTC Casing	13800.16	78.35	5.000	3.920				
			13878.51	3.89	5.820			2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13882.40	80.55	5.000	3.920				
		2.000" EXC Sleeve (Zone 6)	13962.95	2.40	5.750		1.948	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	13965.35	81.46	5.000	3.920				
			14046.81	3.89	5.820			2154		
		2 Joints of 4-1/2-13.5 LTC Casing	14050.70	79.76	5.000	3.920				
		1.938" EXC Sleeve (Zone 5)	14130.46	2.40	5.750		1.886	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	14132.86	80.13	5.000	3.920				
			14212.99	3.89	5.820			2154		
		1 Joints of 4-1/2-13.5 LTC Casing	14216.88	40.56	5.000	3.920				
		1.875" EXC Sleeve (Zone 4)	14257.44	2.40	5.750		1.823	2286		
		2 Joints of 4-1/2-13.5 LTC Casing	14259.84	80.49	5.000	3.920				
			14340.33	3.89	5.820			2154		

Company Rep	Travis Mann
Field	0
BOT Service Rep	John Davis
District Location	Odessa, TX

[illegible]