



HOBBS OCD
FEB 23 2017
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Mewbourne Oil Company

Lea County N.M.

Section 13-22S-34E El Nino 13 B3DM St Com #1H

El Nino 13 B3DM St Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

14 November, 2016





Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well El Nino 13 B3DM St Com #1H
Project:	Lea County N.M.	TVD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Site:	Section 13-22S-34E El Nino 13 B3DM St Com #1H	MD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Well:	El Nino 13 B3DM St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
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 13-22S-34E El Nino 13 B3DM St Com #1H				
Site Position:	Northing:	509,804.30 usft	Latitude:	32° 23' 53.990 N	
From:	Map	Easting:	778,746.00 usft	Longitude:	103° 25' 48.818 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	El Nino 13 B3DM St Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	509,804.30 usft	Latitude:	32° 23' 53.990 N
	+E/-W	0.0 usft	Easting:	778,746.00 usft	Longitude:	103° 25' 48.818 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,499.0 usft	

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/5/2016	6.98	60.26	48,128.22328531

Design	Original Hole		
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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	84.71

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	11/14/2016	100.0	9,880.0	Phoenix Tech Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
		9,999.0	16,000.0	Survey #3 (Original Hole)	MWD	MWD v3:standard declination

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	0.27	229.17	100.0	-0.2	-0.2	-0.2	0.27	0.27	0.00
200.0	0.40	182.85	200.0	-0.7	-0.4	-0.4	0.29	0.13	-46.32
300.0	0.22	137.32	300.0	-1.1	-0.3	-0.4	0.29	-0.18	-45.53
400.0	0.39	246.09	400.0	-1.4	-0.4	-0.6	0.51	0.17	108.77
500.0	0.32	50.11	500.0	-1.4	-0.5	-0.7	0.70	-0.07	164.02
600.0	0.57	253.18	600.0	-1.3	-0.8	-0.9	0.87	0.25	-156.93
700.0	0.34	355.01	700.0	-1.2	-1.3	-1.4	0.72	-0.23	101.83
800.0	0.35	265.89	800.0	-0.9	-1.6	-1.7	0.48	0.01	-89.12



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Site:	Section 13-22S-34E El Nino 13 B3DM St Com #1H	MD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Well:	El Nino 13 B3DM St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
900.0	0.42	253.89	900.0	-1.0	-2.3	-2.4	0.11	0.07	-12.00
1,000.0	0.59	255.02	1,000.0	-1.3	-3.1	-3.2	0.17	0.17	1.13
1,100.0	0.36	216.59	1,100.0	-1.7	-3.8	-4.0	0.38	-0.23	-38.43
1,200.0	0.61	38.79	1,200.0	-1.5	-3.7	-3.8	0.97	0.25	-177.80
1,300.0	0.62	43.85	1,300.0	-0.7	-3.0	-3.0	0.06	0.01	5.06
1,400.0	0.62	256.99	1,400.0	-0.4	-3.1	-3.1	1.19	0.00	-146.86
1,500.0	0.55	173.81	1,500.0	-1.0	-3.6	-3.7	0.78	-0.07	-83.18
1,600.0	0.47	308.17	1,600.0	-1.3	-3.9	-4.0	0.94	-0.08	134.36
1,700.0	0.48	341.32	1,700.0	-0.6	-4.3	-4.4	0.27	0.01	33.15
1,800.0	0.89	281.65	1,800.0	-0.1	-5.2	-5.2	0.77	0.41	-59.67
1,900.0	0.78	291.42	1,899.9	0.4	-6.6	-6.6	0.18	-0.11	9.77
2,000.0	0.82	302.44	1,999.9	1.0	-7.9	-7.7	0.16	0.04	11.02
2,100.0	0.71	319.81	2,099.9	1.8	-8.9	-8.6	0.26	-0.11	17.37
2,200.0	0.73	342.62	2,199.9	2.9	-9.4	-9.1	0.29	0.02	22.81
2,300.0	0.67	349.25	2,299.9	4.1	-9.7	-9.3	0.10	-0.06	6.63
2,400.0	0.62	7.16	2,399.9	5.2	-9.8	-9.3	0.21	-0.05	17.91
2,500.0	0.56	18.88	2,499.9	6.2	-9.6	-8.9	0.13	-0.06	11.72
2,600.0	0.33	344.22	2,599.9	7.0	-9.5	-8.8	0.34	-0.23	-34.66
2,700.0	0.46	319.19	2,699.9	7.5	-9.8	-9.1	0.21	0.13	-25.03
2,800.0	0.75	8.01	2,799.9	8.5	-10.0	-9.2	0.57	0.29	48.82
2,900.0	2.23	37.11	2,899.9	10.7	-8.7	-7.7	1.62	1.48	29.10
3,000.0	3.49	50.43	2,999.7	14.2	-5.2	-3.9	1.42	1.26	13.32
3,100.0	4.23	45.57	3,099.5	18.7	-0.2	1.5	0.81	0.74	-4.86
3,200.0	4.56	49.31	3,199.2	23.9	5.4	7.6	0.44	0.33	3.74
3,300.0	4.76	51.61	3,298.9	29.0	11.7	14.3	0.27	0.20	2.30
3,400.0	4.90	59.82	3,398.5	33.8	18.6	21.7	0.70	0.14	8.21
3,500.0	4.99	63.72	3,498.2	37.8	26.2	29.6	0.35	0.09	3.90
3,600.0	4.29	66.39	3,597.8	41.3	33.5	37.2	0.73	-0.70	2.67
3,700.0	3.75	73.62	3,697.6	43.7	40.1	44.0	0.74	-0.54	7.23
3,800.0	3.21	63.01	3,797.4	45.9	45.7	49.8	0.84	-0.54	-10.61
3,900.0	2.96	66.09	3,897.2	48.2	50.6	54.8	0.30	-0.25	3.08
4,000.0	2.85	70.00	3,997.1	50.1	55.3	59.7	0.23	-0.11	3.91
4,100.0	2.99	71.14	4,097.0	51.8	60.1	64.6	0.15	0.14	1.14
4,200.0	3.31	79.00	4,196.8	53.2	65.4	70.0	0.54	0.32	7.86
4,300.0	3.86	80.75	4,296.6	54.3	71.6	76.3	0.56	0.55	1.75
4,400.0	4.27	78.35	4,396.4	55.6	78.5	83.3	0.44	0.41	-2.40
4,500.0	4.81	80.58	4,496.1	57.0	86.3	91.2	0.57	0.54	2.23
4,600.0	5.86	83.35	4,595.6	58.3	95.5	100.5	1.08	1.05	2.77
4,700.0	6.62	85.13	4,695.1	59.4	106.3	111.4	0.78	0.76	1.78
4,800.0	6.84	87.34	4,794.4	60.1	118.0	123.1	0.34	0.22	2.21
4,900.0	6.98	85.94	4,893.6	60.8	130.0	135.1	0.22	0.14	-1.40
5,000.0	7.30	84.42	4,992.9	61.9	142.4	147.5	0.37	0.32	-1.52



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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)
5,100.0	7.97	82.90	5,092.0	63.4	155.6	160.8	0.70	0.67	-1.52
5,200.0	8.94	85.34	5,190.9	64.8	170.2	175.5	1.03	0.97	2.44
5,300.0	9.53	86.99	5,289.6	65.9	186.3	191.5	0.65	0.59	1.65
5,400.0	10.99	86.57	5,388.0	66.9	204.0	209.3	1.46	1.46	-0.42
5,500.0	12.65	89.24	5,485.9	67.6	224.5	229.8	1.75	1.66	2.67
5,600.0	14.60	90.96	5,583.0	67.6	248.1	253.2	1.99	1.95	1.72
5,700.0	16.02	92.06	5,679.5	66.9	274.4	279.4	1.45	1.42	1.10
5,800.0	13.50	91.77	5,776.2	66.0	299.9	304.7	2.52	-2.52	-0.29
5,900.0	7.77	94.73	5,874.4	65.1	318.3	323.0	5.75	-5.73	2.96
6,000.0	5.35	88.46	5,973.8	64.6	329.7	334.3	2.52	-2.42	-6.27
6,100.0	3.40	68.39	6,073.5	65.9	337.1	341.8	2.45	-1.95	-20.07
6,200.0	2.75	62.50	6,173.3	68.1	342.0	346.9	0.72	-0.65	-5.89
6,300.0	2.39	63.59	6,273.2	70.1	346.0	351.0	0.36	-0.36	1.09
6,400.0	2.00	50.41	6,373.2	72.1	349.2	354.4	0.64	-0.39	-13.18
6,500.0	1.78	60.12	6,473.1	74.0	351.9	357.3	0.39	-0.22	9.71
6,600.0	1.93	47.51	6,573.1	75.9	354.5	360.0	0.43	0.15	-12.61
6,700.0	1.79	56.36	6,673.0	77.9	357.1	362.7	0.32	-0.14	8.85
6,800.0	1.69	58.01	6,773.0	79.6	359.6	365.4	0.11	-0.10	1.65
6,900.0	1.66	61.43	6,872.9	81.1	362.1	368.1	0.10	-0.03	3.42
7,000.0	1.44	64.85	6,972.9	82.3	364.5	370.6	0.24	-0.22	3.42
7,100.0	1.17	65.15	7,072.8	83.2	366.6	372.7	0.27	-0.27	0.30
7,200.0	1.35	62.18	7,172.8	84.2	368.6	374.8	0.19	0.18	-2.97
7,300.0	1.23	67.58	7,272.8	85.2	370.6	376.9	0.17	-0.12	5.40
7,400.0	1.14	77.73	7,372.8	85.8	372.6	378.9	0.23	-0.09	10.15
7,500.0	1.12	86.32	7,472.8	86.1	374.5	380.9	0.17	-0.02	8.59
7,600.0	1.08	81.26	7,572.7	86.3	376.4	382.8	0.11	-0.04	-5.06
7,700.0	1.20	91.31	7,672.7	86.4	378.4	384.8	0.23	0.12	10.05
7,800.0	1.32	89.68	7,772.7	86.4	380.6	387.0	0.13	0.12	-1.63
7,900.0	1.11	93.11	7,872.7	86.3	382.7	389.1	0.22	-0.21	3.43
8,000.0	1.28	89.23	7,972.7	86.3	384.8	391.1	0.19	0.17	-3.88
8,100.0	1.14	95.27	8,072.6	86.2	386.9	393.2	0.19	-0.14	6.04
8,200.0	1.30	90.95	8,172.6	86.1	389.0	395.3	0.18	0.16	-4.32
8,300.0	1.02	88.18	8,272.6	86.1	391.1	397.3	0.29	-0.28	-2.77
8,400.0	0.61	118.82	8,372.6	85.9	392.4	398.7	0.58	-0.41	30.64
8,500.0	0.39	147.44	8,472.6	85.4	393.1	399.3	0.33	-0.22	28.62
8,600.0	0.39	330.96	8,572.6	85.4	393.1	399.3	0.78	0.00	-176.48
8,700.0	0.75	306.65	8,672.6	86.1	392.4	398.7	0.43	0.36	-24.31
8,800.0	1.71	236.16	8,772.5	85.6	390.6	396.9	1.62	0.96	-70.49
8,900.0	2.19	231.09	8,872.5	83.6	387.9	394.0	0.51	0.48	-5.07
9,000.0	1.69	258.13	8,972.4	82.1	385.0	390.9	1.03	-0.50	27.04
9,100.0	2.48	260.85	9,072.4	81.4	381.4	387.3	0.80	0.79	2.72
9,200.0	2.29	270.18	9,172.3	81.1	377.3	383.1	0.43	-0.19	9.33
9,300.0	2.14	289.09	9,272.2	81.7	373.5	379.4	0.74	-0.15	18.91



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Survey Report



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Well:	El Nino 13 B3DM St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
9,400.0	2.87	304.50	9,372.1	83.7	369.7	375.8	0.99	0.73	15.41
9,500.0	1.84	294.20	9,472.0	85.8	366.1	372.5	1.11	-1.03	-10.30
9,600.0	1.17	288.77	9,572.0	86.8	363.7	370.2	0.68	-0.67	-5.43
9,700.0	2.03	272.69	9,672.0	87.2	361.0	367.5	0.96	0.86	-16.08
9,800.0	2.07	278.50	9,771.9	87.6	357.4	364.0	0.21	0.04	5.81
9,880.0	2.19	265.42	9,851.8	87.7	354.5	361.0	0.62	0.15	-16.35
9880' MD Phoenix Tech Gyro Tie-In									
9,999.0	2.00	281.50	9,970.8	87.9	350.2	356.8	0.52	-0.16	13.51
10,092.0	2.20	258.90	10,063.7	87.9	346.8	353.5	0.91	0.22	-24.30
10,186.0	2.40	286.90	10,157.6	88.1	343.2	349.8	1.20	0.21	29.79
10,279.0	2.60	296.10	10,250.5	89.6	339.4	346.2	0.48	0.22	9.89
10,373.0	2.90	298.80	10,344.4	91.7	335.4	342.4	0.35	0.32	2.87
10,467.0	3.20	299.60	10,438.3	94.1	331.1	338.3	0.32	0.32	0.85
10,560.0	3.60	300.00	10,531.1	96.9	326.3	333.8	0.43	0.43	0.43
10,653.0	4.00	282.40	10,623.9	99.0	320.6	328.3	1.32	0.43	-18.92
10,685.0	5.60	264.90	10,655.8	99.1	317.9	325.7	6.72	5.00	-54.69
10,716.0	7.80	248.30	10,686.6	98.2	314.5	322.2	9.39	7.10	-53.55
10,747.0	11.10	237.20	10,717.2	95.8	310.0	317.5	12.11	10.65	-35.81
10,778.0	16.00	234.70	10,747.3	91.7	304.0	311.2	15.92	15.81	-8.06
10,809.0	19.30	236.80	10,776.8	86.4	296.2	302.9	10.84	10.65	6.77
10,841.0	20.70	234.60	10,806.9	80.3	287.2	293.4	4.97	4.38	-6.88
10,872.0	23.00	230.90	10,835.7	73.3	278.0	283.6	8.64	7.42	-11.94
10,903.0	25.30	229.70	10,864.0	65.2	268.3	273.1	7.59	7.42	-3.87
10,934.0	27.00	229.00	10,891.8	56.3	257.9	262.0	5.57	5.48	-2.26
10,964.0	30.10	229.60	10,918.1	46.9	247.0	250.3	10.38	10.33	2.00
10,996.0	32.70	231.10	10,945.5	36.3	234.2	236.5	8.48	8.13	4.69
11,028.0	35.50	229.30	10,972.0	24.8	220.4	221.8	9.30	8.75	-5.63
11,059.0	39.30	231.10	10,996.6	12.8	205.9	206.2	12.75	12.26	5.81
11,090.0	42.10	230.70	11,020.1	0.0	190.3	189.5	9.07	9.03	-1.29
11,121.0	44.50	228.50	11,042.6	-13.8	174.1	172.1	9.14	7.74	-7.10
11,152.0	48.50	228.20	11,064.0	-28.7	157.3	154.0	12.92	12.90	-0.97
11,183.0	52.20	228.90	11,083.8	-44.5	139.4	134.7	12.06	11.94	2.26
11,215.0	54.80	228.40	11,102.8	-61.5	120.1	113.9	8.22	8.13	-1.56
11,246.0	58.40	226.40	11,119.8	-79.0	101.0	93.3	12.80	11.61	-6.45
11,277.0	61.60	223.30	11,135.3	-98.1	82.1	72.7	13.47	10.32	-10.00
11,308.0	64.10	220.50	11,149.5	-118.6	63.7	52.5	11.38	8.06	-9.03
11,339.0	66.20	215.70	11,162.5	-140.7	46.4	33.2	15.60	6.77	-15.48
11,371.0	68.50	211.50	11,174.9	-165.3	30.0	14.7	14.08	7.19	-13.13
11,402.0	70.60	207.50	11,185.7	-190.6	15.8	-1.9	13.86	6.77	-12.90
11,417.0	72.60	204.90	11,190.4	-203.4	9.5	-9.3	21.17	13.33	-17.33
11,488.0	78.90	199.10	11,207.9	-267.1	-16.2	-40.8	11.89	8.87	-8.17
11,519.0	79.60	198.60	11,213.7	-295.9	-26.1	-53.3	2.76	2.26	-1.61



Microsoft
Survey Report



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Project:	Lea County N.M.	TVD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Site:	Section 13-22S-34E El Nino 13 B3DM St Com #1H	MD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Well:	El Nino 13 B3DM St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
11,551.0	81.00	196.90	11,219.1	-326.0	-35.7	-65.6	6.82	4.38	-5.31
11,582.0	82.80	195.30	11,223.5	-355.5	-44.2	-76.8	7.73	5.81	-5.16
11,613.0	84.90	194.80	11,226.8	-385.2	-52.2	-87.5	6.96	6.77	-1.61
11,644.0	86.70	194.60	11,229.0	-415.1	-60.0	-98.1	5.84	5.81	-0.65
11,675.0	90.00	194.00	11,229.9	-445.2	-67.7	-108.5	10.82	10.65	-1.94
11,707.0	91.80	191.90	11,229.4	-476.3	-74.9	-118.5	8.64	5.63	-6.56
11,738.0	93.70	189.00	11,227.9	-506.8	-80.5	-126.9	11.17	6.13	-9.35
11,769.0	95.00	186.00	11,225.6	-537.4	-84.5	-133.8	10.52	4.19	-9.68
11,800.0	94.40	183.10	11,223.1	-568.2	-87.0	-139.0	9.52	-1.94	-9.35
11,831.0	94.00	179.90	11,220.8	-599.1	-87.8	-142.7	10.38	-1.29	-10.32
11,862.0	93.20	177.30	11,218.8	-630.0	-87.0	-144.8	8.76	-2.58	-8.39
11,894.0	91.60	174.70	11,217.5	-661.9	-84.8	-145.5	9.53	-5.00	-8.13
11,925.0	90.10	174.40	11,217.0	-692.8	-81.8	-145.4	4.93	-4.84	-0.97
12,018.0	87.60	173.70	11,218.9	-785.3	-72.2	-144.4	2.79	-2.69	-0.75
12,112.0	89.60	174.90	11,221.2	-878.8	-62.9	-143.7	2.48	2.13	1.28
12,205.0	90.50	174.90	11,221.1	-971.4	-54.6	-144.0	0.97	0.97	0.00
12,299.0	86.40	174.50	11,223.7	-1,064.9	-45.9	-144.0	4.38	-4.36	-0.43
12,392.0	90.80	176.70	11,225.9	-1,157.6	-38.8	-145.5	5.29	4.73	2.37
12,486.0	95.30	178.50	11,220.9	-1,251.4	-34.9	-150.2	5.15	4.79	1.91
12,579.0	93.50	177.60	11,213.8	-1,344.0	-31.7	-155.6	2.16	-1.94	-0.97
12,673.0	90.40	177.60	11,210.6	-1,437.9	-27.8	-160.3	3.30	-3.30	0.00
12,766.0	90.80	177.60	11,209.6	-1,530.8	-23.9	-165.0	0.43	0.43	0.00
12,860.0	91.40	178.90	11,207.8	-1,624.7	-21.0	-170.9	1.52	0.64	1.38
12,953.0	93.50	179.40	11,203.8	-1,717.6	-19.6	-178.1	2.32	2.26	0.54
13,047.0	96.80	179.70	11,195.4	-1,811.2	-18.9	-186.0	3.52	3.51	0.32
13,140.0	93.40	180.00	11,187.1	-1,903.9	-18.7	-194.3	3.67	-3.66	0.32
13,233.0	93.10	181.60	11,181.9	-1,996.7	-20.0	-204.1	1.75	-0.32	1.72
13,327.0	92.00	182.20	11,177.7	-2,090.5	-23.1	-215.9	1.33	-1.17	0.64
13,420.0	91.30	181.50	11,175.0	-2,183.5	-26.1	-227.4	1.06	-0.75	-0.75
13,514.0	90.30	179.00	11,173.7	-2,277.4	-26.5	-236.5	2.86	-1.06	-2.66
13,607.0	89.10	178.10	11,174.2	-2,370.4	-24.1	-242.8	1.61	-1.29	-0.97
13,701.0	90.60	177.40	11,174.4	-2,464.3	-20.4	-247.8	1.76	1.60	-0.74
13,795.0	87.20	175.50	11,176.2	-2,558.1	-14.6	-250.6	4.14	-3.62	-2.02
13,888.0	88.90	173.70	11,179.4	-2,650.6	-5.9	-250.4	2.66	1.83	-1.94
13,982.0	91.90	175.40	11,178.7	-2,744.2	3.0	-250.2	3.67	3.19	1.81
14,075.0	92.00	175.80	11,175.6	-2,836.9	10.2	-251.6	0.44	0.11	0.43
14,169.0	90.00	174.40	11,173.9	-2,930.5	18.2	-252.3	2.60	-2.13	-1.49
14,262.0	90.30	176.00	11,173.7	-3,023.2	26.0	-253.1	1.75	0.32	1.72
14,356.0	90.50	178.60	11,173.0	-3,117.1	30.4	-257.3	2.77	0.21	2.77
14,449.0	85.80	175.80	11,176.0	-3,209.9	35.0	-261.4	5.88	-5.05	-3.01
14,543.0	88.70	174.30	11,180.5	-3,303.4	43.1	-261.9	3.47	3.09	-1.60
14,637.0	89.50	175.10	11,182.0	-3,397.0	51.7	-261.9	1.20	0.85	0.85
14,730.0	89.10	177.50	11,183.2	-3,489.8	57.7	-264.5	2.62	-0.43	2.58



Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well El Nino 13 B3DM St Com #1H
Project:	Lea County N.M.	TVD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Site:	Section 13-22S-34E El Nino 13 B3DM St Com #1H	MD Reference:	3499 + 27 @ 3526.0usft (Patterson 250)
Well:	El Nino 13 B3DM St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
14,824.0	89.00	177.40	11,184.7	-3,583.7	61.9	-269.0	0.15	-0.11	-0.11
14,917.0	89.20	180.00	11,186.2	-3,676.6	64.0	-275.5	2.80	0.22	2.80
15,011.0	90.50	181.70	11,186.4	-3,770.6	62.6	-285.6	2.28	1.38	1.81
15,104.0	88.70	182.70	11,187.1	-3,863.5	59.1	-297.7	2.21	-1.94	1.08
15,198.0	86.00	182.40	11,191.4	-3,957.3	54.9	-310.5	2.89	-2.87	-0.32
15,291.0	86.30	181.70	11,197.7	-4,050.1	51.6	-322.4	0.82	0.32	-0.75
15,385.0	90.10	182.40	11,200.6	-4,143.9	48.2	-334.4	4.11	4.04	0.74
15,478.0	88.90	182.30	11,201.4	-4,236.9	44.4	-346.8	1.29	-1.29	-0.11
15,571.0	89.80	183.00	11,202.5	-4,329.7	40.1	-359.6	1.23	0.97	0.75
15,665.0	88.90	182.80	11,203.6	-4,423.6	35.3	-373.0	0.98	-0.96	-0.21
15,758.0	87.90	183.10	11,206.1	-4,516.5	30.6	-386.3	1.12	-1.08	0.32
15,852.0	91.20	185.40	11,206.9	-4,610.2	23.6	-401.9	4.28	3.51	2.45
15,948.0	88.90	184.60	11,206.8	-4,705.8	15.2	-419.1	2.54	-2.40	-0.83
16,000.0	88.90	184.60	11,207.8	-4,757.6	11.1	-428.0	0.00	0.00	0.00

16000' MD Projected to Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,880.0	9,851.8	87.7	354.5	9880' MD Phoenix Tech Gyro Tie-In
16,000.0	11,207.8	-4,757.6	11.1	16000' MD Projected to Bit



PHOENIX

TECHNOLOGY SERVICES USA INC.

Celebrating 20 Years of Focused Solutions

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

November 7, 2016

Mewbourne Oil
Attention: Regulatory Department
701 S Cecil St
Hobbs, New Mexico 88240

Re: Mewbourne Oil
El Nino 13 B3DM State Com 1H
Lea County, New Mexico
API #30-025-43394
Job No. 60491

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 1 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	1H	0	9880	11/3/16	11/3/16	Gyro

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

Received

NOV 18 2016

Mewbourne Oil Company
Hobbs

SURVEY CERTIFICATION FORM



3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

Company: Mewbourne Oil

Job #: 60491

Well Name: El Nino 13 B3DM State Com 1H

County/State: Lea/ New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43394

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-11-03	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-11-03	9880	2.19	265.42

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.48

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 11-3-16

Print Name: Andy Askew

Signature:



Company: Mewbourne Oil
 Well: El Nino 13 B3DM State Com 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 250

Job Number: 60491
 Grid Corr.: -0.48
 Lat: 32.39
 Long: -103.43

Date: 11-03-16
 Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 26.6
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.27	229.17	100	100.00	-0.15	0.15 S	0.18 W	0.24	229.17	0.27	0.27	229.17
	200.00	0.40	182.85	100	200.00	-0.66	0.66 S	0.37 W	0.76	209.66	0.29	0.13	-46.32
	300.00	0.22	137.32	100	300.00	-1.15	1.15 S	0.26 W	1.18	192.83	0.29	-0.18	-45.53
	400.00	0.39	246.09	100	400.00	-1.43	1.43 S	0.44 W	1.49	197.23	0.51	0.17	108.77
	500.00	0.32	50.11	100	500.00	-1.38	1.38 S	0.54 W	1.49	201.27	0.70	-0.07	-195.98
	600.00	0.57	253.18	100	599.99	-1.35	1.35 S	0.80 W	1.57	210.69	0.87	0.25	203.07
	700.00	0.34	355.01	100	699.99	-1.20	1.20 S	1.30 W	1.77	227.41	0.72	-0.23	101.83
	800.00	0.35	265.89	100	799.99	-0.92	0.92 S	1.63 W	1.88	240.50	0.48	0.01	-89.12
	900.00	0.42	253.89	100	899.99	-1.05	1.05 S	2.29 W	2.52	245.42	0.11	0.07	-12.00
	1000.00	0.59	255.02	100	999.98	-1.28	1.28 S	3.14 W	3.39	247.78	0.17	0.17	1.13
	1100.00	0.36	216.59	100	1099.98	-1.67	1.67 S	3.82 W	4.17	246.44	0.38	-0.23	-38.43
	1200.00	0.61	38.79	100	1199.98	-1.50	1.50 S	3.68 W	3.97	247.75	0.97	0.25	-177.80
	1300.00	0.62	43.85	100	1299.97	-0.70	0.70 S	2.97 W	3.05	256.74	0.06	0.01	5.06
	1400.00	0.62	256.99	100	1399.97	-0.43	0.43 S	3.12 W	3.15	262.13	1.19	0.00	213.14
	1500.00	0.55	173.81	100	1499.97	-1.03	1.03 S	3.60 W	3.74	254.02	0.78	-0.07	-83.18
	1600.00	0.47	308.17	100	1599.97	-1.25	1.25 S	3.87 W	4.07	252.04	0.94	-0.08	134.36
	1700.00	0.48	341.32	100	1699.96	-0.60	0.60 S	4.32 W	4.37	262.05	0.27	0.01	33.15
	1800.00	0.89	281.65	100	1799.96	-0.05	0.05 S	5.22 W	5.22	269.45	0.77	0.41	-59.67
	1900.00	0.78	291.42	100	1899.95	0.36	0.36 N	6.61 W	6.62	273.07	0.18	-0.11	9.77
	2000.00	0.82	302.44	100	1999.94	0.99	0.99 N	7.85 W	7.91	277.17	0.16	0.04	11.02
	2100.00	0.71	319.81	100	2099.93	1.84	1.84 N	8.86 W	9.05	281.77	0.26	-0.11	17.37
	2200.00	0.73	342.62	100	2199.92	2.93	2.93 N	9.45 W	9.89	287.21	0.29	0.02	22.81
	2300.00	0.67	349.25	100	2299.91	4.11	4.11 N	9.74 W	10.58	292.86	0.10	-0.06	6.63
	2400.00	0.62	7.16	100	2399.91	5.22	5.22 N	9.79 W	11.09	298.07	0.21	-0.05	-342.09
	2500.00	0.56	18.88	100	2499.90	6.22	6.22 N	9.56 W	11.41	303.04	0.13	-0.06	11.72
	2600.00	0.33	344.22	100	2599.90	6.96	6.96 N	9.48 W	11.76	306.28	0.34	-0.23	325.34
	2700.00	0.46	319.19	100	2699.90	7.54	7.54 N	9.82 W	12.38	307.51	0.21	0.13	-25.03



Company: Mewbourne Oil
 Well: El Nino 13 B3DM State Com 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 250

Job Number: 60491
 Grid Corr.: -0.48
 Lat: 32.39
 Long: -103.43

Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 26.6
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2800.00	0.75	8.01	100	2799.89	8.49	8.49 N	9.99 W	13.11	310.36	0.57	0.29	-311.18
	2900.00	2.23	37.11	100	2899.85	10.69	10.69 N	8.73 W	13.80	320.77	1.62	1.48	29.10
	3000.00	3.49	50.43	100	2999.73	14.18	14.18 N	5.21 W	15.11	339.84	1.42	1.26	13.32
	3100.00	4.23	45.57	100	3099.50	18.70	18.70 N	0.23 W	18.70	359.30	0.81	0.74	-4.86
	3200.00	4.56	49.31	100	3199.21	23.88	23.88 N	5.42 E	24.48	12.79	0.44	0.33	3.74
	3300.00	4.76	51.61	100	3298.88	29.04	29.04 N	11.69 E	31.31	21.92	0.27	0.20	2.30
	3400.00	4.90	59.82	100	3398.52	33.77	33.77 N	18.63 E	38.57	28.89	0.70	0.14	8.21
	3500.00	4.99	63.72	100	3498.15	37.84	37.84 N	26.22 E	46.04	34.72	0.35	0.09	3.90
	3600.00	4.29	66.39	100	3597.82	41.26	41.26 N	33.55 E	53.18	39.11	0.73	-0.70	2.67
	3700.00	3.75	73.62	100	3697.58	43.68	43.68 N	40.11 E	59.31	42.56	0.74	-0.54	7.23
	3800.00	3.21	63.01	100	3797.39	45.88	45.88 N	45.75 E	64.79	44.92	0.84	-0.54	-10.61
	3900.00	2.96	66.09	100	3897.25	48.19	48.19 N	50.60 E	69.88	46.40	0.30	-0.25	3.08
	4000.00	2.85	70.00	100	3997.12	50.09	50.09 N	55.30 E	74.61	47.83	0.23	-0.11	3.91
	4100.00	2.99	71.14	100	4096.99	51.78	51.78 N	60.10 E	79.33	49.25	0.15	0.14	1.14
	4200.00	3.31	79.00	100	4196.84	53.18	53.18 N	65.40 E	84.30	50.89	0.54	0.32	7.86
	4300.00	3.86	80.75	100	4296.64	54.27	54.27 N	71.56 E	89.81	52.82	0.56	0.55	1.75
	4400.00	4.27	78.35	100	4396.39	55.56	55.56 N	78.53 E	96.20	54.72	0.44	0.41	-2.40
	4500.00	4.81	80.58	100	4496.08	57.00	57.00 N	86.31 E	103.43	56.56	0.57	0.54	2.23
	4600.00	5.86	83.35	100	4595.64	58.28	58.28 N	95.52 E	111.89	58.61	1.08	1.05	2.77
	4700.00	6.62	85.13	100	4695.05	59.36	59.36 N	106.33 E	121.78	60.83	0.78	0.76	1.78
	4800.00	6.84	87.34	100	4794.36	60.12	60.12 N	118.02 E	132.46	63.00	0.34	0.22	2.21
	4900.00	6.98	85.94	100	4893.63	60.83	60.83 N	130.03 E	143.56	64.93	0.22	0.14	-1.40
	5000.00	7.30	84.42	100	4992.86	61.88	61.88 N	142.42 E	155.28	66.52	0.37	0.32	-1.52
	5100.00	7.97	82.90	100	5091.97	63.35	63.35 N	155.62 E	168.02	67.85	0.70	0.67	-1.52
	5200.00	8.94	85.34	100	5190.88	64.84	64.84 N	170.24 E	182.17	69.15	1.03	0.97	2.44
	5300.00	9.53	86.99	100	5289.59	65.91	65.91 N	186.26 E	197.57	70.51	0.65	0.59	1.65
	5400.00	10.99	86.57	100	5387.99	66.91	66.91 N	204.04 E	214.73	71.84	1.46	1.46	-0.42
	5500.00	12.65	89.24	100	5485.86	67.63	67.63 N	224.50 E	234.47	73.24	1.75	1.66	2.67
	5600.00	14.60	90.96	100	5583.05	67.56	67.56 N	248.06 E	257.09	74.76	1.99	1.95	1.72
	5700.00	16.02	92.06	100	5679.49	66.86	66.86 N	274.45 E	282.47	76.31	1.45	1.42	1.10



Company: Mewbourne Oil
 Well: El Nino 13 B3DM State Com 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 250

Job Number: 60491
 Grid Corr.: -0.48
 Lat: 32.39
 Long: -103.43

Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 26.6
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	5800.00	13.50	91.77	100	5776.19	66.00	66.00 N	299.91 E	307.09	77.59	2.52	-2.52	-0.29
	5900.00	7.77	94.73	100	5874.43	65.08	65.08 N	318.33 E	324.91	78.45	5.75	-5.73	2.96
	6000.00	5.35	88.46	100	5973.77	64.65	64.65 N	329.73 E	336.01	78.91	2.52	-2.42	-6.27
	6100.00	3.40	68.39	100	6073.48	65.87	65.87 N	337.15 E	343.52	78.95	2.45	-1.95	-20.07
	6200.00	2.75	62.50	100	6173.33	68.07	68.07 N	342.03 E	348.74	78.74	0.72	-0.65	-5.89
	6300.00	2.39	63.59	100	6273.23	70.10	70.10 N	346.03 E	353.06	78.55	0.36	-0.36	1.09
	6400.00	2.00	50.41	100	6373.16	72.14	72.14 N	349.24 E	356.61	78.33	0.64	-0.39	-13.18
	6500.00	1.78	60.12	100	6473.10	74.03	74.03 N	351.93 E	359.63	78.12	0.39	-0.22	9.71
	6600.00	1.93	47.51	100	6573.05	75.94	75.94 N	354.52 E	362.56	77.91	0.43	0.15	-12.61
	6700.00	1.79	56.36	100	6673.00	77.94	77.94 N	357.06 E	365.47	77.69	0.32	-0.14	8.85
	6800.00	1.69	58.01	100	6772.95	79.59	79.59 N	359.61 E	368.31	77.52	0.11	-0.10	1.65
	6900.00	1.66	61.43	100	6872.91	81.06	81.06 N	362.13 E	371.09	77.38	0.10	-0.03	3.42
	7000.00	1.44	64.85	100	6972.87	82.29	82.29 N	364.54 E	373.71	77.28	0.24	-0.22	3.42
	7100.00	1.17	65.15	100	7072.85	83.25	83.25 N	366.61 E	375.94	77.21	0.27	-0.27	0.30
	7200.00	1.35	62.18	100	7172.82	84.23	84.23 N	368.58 E	378.08	77.13	0.19	0.18	-2.97
	7300.00	1.23	67.58	100	7272.80	85.19	85.19 N	370.61 E	380.27	77.05	0.17	-0.12	5.40
	7400.00	1.14	77.73	100	7372.78	85.81	85.81 N	372.57 E	382.33	77.03	0.23	-0.09	10.15
	7500.00	1.12	86.32	100	7472.76	86.08	86.08 N	374.52 E	384.29	77.06	0.17	-0.02	8.59
	7600.00	1.08	81.26	100	7572.74	86.29	86.29 N	376.43 E	386.19	77.09	0.11	-0.04	-5.06
	7700.00	1.20	91.31	100	7672.72	86.41	86.41 N	378.41 E	388.15	77.14	0.23	0.12	10.05
	7800.00	1.32	89.68	100	7772.70	86.39	86.39 N	380.60 E	390.29	77.21	0.13	0.12	-1.63
	7900.00	1.11	93.11	100	7872.67	86.34	86.34 N	382.72 E	392.34	77.29	0.22	-0.21	3.43
	8000.00	1.28	89.23	100	7972.65	86.31	86.31 N	384.81 E	394.37	77.36	0.19	0.17	-3.88
	8100.00	1.14	95.27	100	8072.63	86.23	86.23 N	386.91 E	396.41	77.44	0.19	-0.14	6.04
	8200.00	1.30	90.95	100	8172.61	86.12	86.12 N	389.04 E	398.46	77.52	0.18	0.16	-4.32
	8300.00	1.02	88.18	100	8272.59	86.13	86.13 N	391.06 E	400.44	77.58	0.29	-0.28	-2.77
	8400.00	0.61	118.82	100	8372.58	85.90	85.90 N	392.42 E	401.71	77.65	0.58	-0.41	30.64
	8500.00	0.39	147.44	100	8472.57	85.36	85.36 N	393.07 E	402.23	77.75	0.33	-0.22	28.62
	8600.00	0.39	330.96	100	8572.57	85.37	85.37 N	393.09 E	402.25	77.75	0.78	0.00	183.52
	8700.00	0.75	306.65	100	8672.57	86.06	86.06 N	392.40 E	401.72	77.63	0.43	0.36	-24.31



Company: Mewbourne Oil
 Well: El Nino 13 B3DM State Com 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 250

Job Number: 60491
 Grid Corr.: -0.48
 Lat: 32.39
 Long: -103.43

Calculation Method: Minimum Curvature
 Proposed Azimuth: _____
 RKB - MSL in feet: 26.6
 Tie Into: _____ Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	8800.00	1.71	236.16	100	8772.55	85.62	85.62 N	390.63 E	399.90	77.64	1.62	0.96	-70.49
	8900.00	2.19	231.09	100	8872.49	83.59	83.59 N	387.91 E	396.81	77.84	0.51	0.48	-5.07
	9000.00	1.69	258.13	100	8972.43	82.08	82.08 N	384.98 E	393.63	77.96	1.03	-0.50	27.04
	9100.00	2.48	260.85	100	9072.37	81.43	81.43 N	381.40 E	389.99	77.95	0.80	0.79	2.72
	9200.00	2.29	270.18	100	9172.28	81.10	81.10 N	377.26 E	385.88	77.87	0.43	-0.19	9.33
	9300.00	2.14	289.09	100	9272.21	81.71	81.71 N	373.50 E	382.33	77.66	0.74	-0.15	18.91
	9400.00	2.87	304.50	100	9372.11	83.74	83.74 N	369.67 E	379.04	77.24	0.99	0.73	15.41
	9500.00	1.84	294.20	100	9472.03	85.82	85.82 N	366.15 E	376.07	76.81	1.11	-1.03	-10.30
	9600.00	1.17	288.77	100	9571.99	86.81	86.81 N	363.71 E	373.93	76.58	0.68	-0.67	-5.43
	9700.00	2.03	272.69	100	9671.95	87.22	87.22 N	360.98 E	371.37	76.42	0.96	0.86	-16.08
	9800.00	2.07	278.50	100	9771.89	87.57	87.57 N	357.42 E	367.99	76.23	0.21	0.04	5.81
	9880.00	2.19	265.42	80	9851.83	87.66	87.66 N	354.47 E	365.15	76.11	0.62	0.15	-16.35



COMPANY: Mewbourne Oil Company
 WELL: El Nino 13 B3DM St Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 250
 GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.49°

HOBBS OGD
 FEB 23 2017
 RECEIVED
 OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001 3499 + 27 @ 3526.0usft (Patterson 250) GROUND ELEVATION: 3499.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.0	0.0	509804.30	778746.00	32° 23' 53.990 N	103° 25' 48.818 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	10778.0	16.00	234.70	10747.3	91.7	304.0	0.00	0.00	-89.9	
2	11055.3	45.67	232.78	10982.7	7.8	191.3	10.70	-2.78	-6.6	
3	11652.8	89.20	179.66	11221.0	-471.0	2.9	10.70	-62.90	471.0	LP El Nino 13 B3DM ST Com 1H
4	15947.3	89.20	179.66	11281.0	-4765.0	28.7	0.00	0.00	4765.1	PBHL El Nino 13 B3DM St Com 1H

SHL- 185' FNL & 450' FWL
 Section 13-22S-34E
 PBHL- 330' FSL & 450' FWL
 Section 13-22S-34E

