

HOBBS OCD

OCT 02 2014

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Mewbourne Oil Co

Lea County, New Mexico

Sec 28-18S-32E

Querecho 28 OB Federal Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

27 August, 2014

Oil Conservation Division

Case No. 8

Exhibit No. 8



Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well: Querecho 28 OB Federal Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3734.0usft (Patterson #75)
Site:	Sec 28-18S-32E	MD Reference:	Well @ 3734.0usft (Patterson #75)
Well:	Querecho 28 OB Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

Project: Lea 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 28-18S-32E					
Site Position:		Northing:	627,657.52 usft	Latitude:	32° 43' 27.238 N
From:	Map	Easting:	675,165.03 usft	Longitude:	103° 45' 49.524 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.31 °

Well: Querecho 28 OB Federal Com #1H						
Well Position	+N-S	0.0 usft	Northing:	623,049.32 usft	Latitude:	32° 42' 41.689 N
	+E-W	0.0 usft	Easting:	674,236.12 usft	Longitude:	103° 46' 0.686 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,714.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(T)	(T)	(nT)
	IGRF2010	7/24/2014	7.33	60.53	48,575

Design:		Wellbore #1			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	N/S	E/W	Direction	
	(usft)	(usft)	(usft)	(T)	
	0.0	0.0	0.0	349.13	

Survey Program		Date: 8/27/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,815.0	Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro
8,875.0	14,070.0	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	0.25	31.71	100.0	0.2	0.1	0.2	0.25	0.25	0.00
200.0	0.46	8.69	200.0	0.8	0.3	0.7	0.25	0.21	-23.02
300.0	0.62	7.64	300.0	1.7	0.4	1.6	0.16	0.16	-1.05
400.0	0.61	340.55	400.0	2.7	0.3	2.6	0.29	-0.01	-27.09
500.0	0.69	343.18	500.0	3.8	0.0	3.8	0.09	0.08	2.63
600.0	0.74	347.82	600.0	5.0	-0.3	5.0	0.08	0.05	4.64
700.0	1.06	9.41	700.0	6.6	-0.3	6.5	0.46	0.32	21.59
800.0	1.52	4.63	799.9	8.8	-0.1	8.7	0.47	0.46	-4.78
900.0	1.40	336.35	899.9	11.2	-0.5	11.1	0.72	-0.12	-28.28

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

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	1.40	335.25	999.9	13.5	-1.5	13.5	0.03	0.00	-1.10
1,100.0	1.80	317.53	1,099.8	15.7	-3.0	16.0	0.63	0.40	-17.72
1,200.0	1.34	309.96	1,199.8	17.7	-5.0	18.3	0.50	-0.46	-7.57
1,300.0	1.44	307.09	1,299.8	19.2	-6.9	20.1	0.12	0.10	-2.87
1,400.0	0.75	315.58	1,399.8	20.4	-8.3	21.6	0.71	-0.69	8.49
1,500.0	0.55	334.45	1,499.7	21.3	-9.0	22.6	0.29	-0.20	18.87
1,600.0	0.77	326.11	1,599.7	22.3	-9.6	23.7	0.24	0.22	-8.34
1,700.0	0.71	341.89	1,699.7	23.4	-10.2	24.9	0.21	-0.06	15.78
1,800.0	0.55	358.20	1,799.7	24.5	-10.4	26.0	0.24	-0.16	16.31
1,900.0	0.57	26.57	1,899.7	25.4	-10.2	26.9	0.28	0.02	28.37
2,000.0	1.05	32.22	1,999.7	26.8	-9.4	27.9	0.49	0.48	5.65
2,100.0	1.87	25.27	2,099.7	28.9	-8.3	29.9	0.84	0.82	-6.95
2,200.0	2.85	30.25	2,199.6	32.5	-6.3	33.1	1.00	0.98	4.98
2,300.0	2.99	28.51	2,299.5	36.9	-3.8	37.0	0.17	0.14	-1.74
2,400.0	2.94	35.86	2,399.3	41.3	-1.1	40.8	0.38	-0.05	7.35
2,500.0	3.13	41.24	2,499.2	45.4	2.2	44.2	0.34	0.19	5.38
2,600.0	2.78	32.76	2,599.1	49.5	5.3	47.6	0.56	-0.35	-8.48
2,700.0	2.33	41.33	2,699.0	53.1	8.0	50.6	0.59	-0.45	8.57
2,800.0	1.96	29.56	2,798.9	56.1	10.2	53.2	0.57	-0.37	-11.77
2,900.0	1.60	28.01	2,898.8	58.8	11.7	55.6	0.36	-0.36	-1.55
3,000.0	1.74	42.31	2,998.8	61.2	13.4	57.6	0.44	0.14	14.30
3,100.0	1.86	35.66	3,098.7	63.6	15.3	59.6	0.24	0.12	-6.65
3,200.0	1.53	31.02	3,198.7	66.1	17.0	61.7	0.36	-0.33	-4.64
3,300.0	1.18	36.83	3,298.7	68.1	18.3	63.4	0.38	-0.35	5.81
3,400.0	0.98	28.78	3,398.7	69.6	19.3	64.8	0.25	-0.20	-8.05
3,500.0	0.77	16.90	3,498.6	71.0	19.9	66.0	0.28	-0.21	-11.88
3,600.0	1.09	7.34	3,598.6	72.6	20.2	67.5	0.35	0.32	-9.56
3,700.0	0.66	3.44	3,698.6	74.1	20.4	69.0	0.43	-0.43	-3.90
3,800.0	0.93	19.25	3,798.6	75.5	20.7	70.2	0.35	0.27	15.81
3,900.0	0.91	20.00	3,898.6	77.0	21.2	71.6	0.02	-0.02	0.75
4,000.0	1.00	14.52	3,998.6	78.6	21.7	73.1	0.13	0.09	-5.48
4,100.0	1.12	1.70	4,098.6	80.4	22.0	74.8	0.27	0.12	-12.82
4,200.0	0.95	350.10	4,198.5	82.2	21.8	76.6	0.27	-0.17	-11.60
4,300.0	0.58	343.61	4,298.5	83.5	21.6	77.9	0.38	-0.37	-6.49
4,400.0	0.51	354.51	4,398.5	84.4	21.4	78.9	0.12	-0.07	10.90
4,500.0	0.61	5.50	4,498.5	85.4	21.4	79.8	0.15	0.10	10.99
4,600.0	0.83	357.05	4,598.5	86.7	21.4	81.1	0.24	0.22	-8.45
4,700.0	0.78	350.29	4,698.5	88.1	21.2	82.5	0.11	-0.05	-6.76
4,800.0	0.54	324.99	4,798.5	89.1	20.9	83.6	0.37	-0.24	-25.30
4,900.0	0.49	333.96	4,898.5	89.9	20.4	84.4	0.09	-0.05	8.97
5,000.0	0.64	345.12	4,998.5	90.8	20.1	85.4	0.19	0.15	11.16
5,100.0	0.70	349.75	5,098.5	91.9	19.8	86.6	0.08	0.06	4.63
5,200.0	0.84	346.97	5,198.5	93.3	19.5	87.9	0.14	0.14	-2.78

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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	0.93	333.33	5,298.5	94.7	19.0	89.4	0.23	0.09	-13.64
5,400.0	1.01	333.62	5,398.5	96.2	18.3	91.0	0.08	0.08	0.29
5,500.0	0.84	320.08	5,498.4	97.6	17.4	92.5	0.28	-0.17	-13.54
5,600.0	0.75	315.49	5,598.4	98.6	16.5	93.7	0.11	-0.09	-4.59
5,700.0	0.99	342.05	5,698.4	99.9	15.7	95.1	0.46	0.24	26.56
5,800.0	1.01	334.57	5,798.4	101.5	15.1	96.8	0.13	0.02	-7.48
5,900.0	1.68	288.85	5,898.4	102.8	13.3	98.4	1.21	0.67	-45.72
6,000.0	1.95	253.91	5,998.3	102.8	10.3	99.0	1.12	0.27	-34.94
6,100.0	2.30	248.77	6,098.3	101.6	6.8	98.5	0.40	0.35	-5.14
6,200.0	2.91	244.59	6,198.2	99.8	2.6	97.5	0.64	0.61	-4.18
6,300.0	3.43	241.04	6,298.0	97.2	-2.3	95.9	0.56	0.52	-3.55
6,400.0	3.43	236.71	6,397.8	94.1	-7.4	93.8	0.26	0.00	-4.33
6,500.0	3.24	228.86	6,497.7	90.6	-12.0	91.3	0.49	-0.19	-7.85
6,600.0	3.14	223.85	6,597.5	86.8	-16.0	88.3	0.30	-0.10	-5.01
6,700.0	2.60	212.95	6,697.4	82.9	-19.2	85.0	0.77	-0.54	-10.90
6,800.0	1.40	221.87	6,797.3	80.1	-21.2	82.7	1.24	-1.20	8.92
6,900.0	0.92	235.58	6,897.3	78.7	-22.7	81.6	0.55	-0.48	13.71
7,000.0	1.59	249.42	6,997.3	77.8	-24.7	81.1	0.73	0.67	13.64
7,100.0	0.93	275.85	7,097.2	77.4	-26.8	81.1	0.86	-0.66	26.43
7,200.0	1.10	272.73	7,197.2	77.5	-28.5	81.5	0.18	0.17	-3.12
7,300.0	1.04	268.23	7,297.2	77.5	-30.4	81.9	0.10	-0.06	-4.50
7,400.0	0.87	256.19	7,397.2	77.3	-32.0	82.0	0.26	-0.17	-12.04
7,500.0	2.01	228.82	7,497.2	76.0	-34.1	81.1	1.30	1.14	-27.37
7,600.0	2.54	215.36	7,597.1	73.0	-36.7	78.6	0.75	0.53	-13.46
7,700.0	2.71	207.29	7,697.0	69.1	-39.1	75.3	0.41	0.17	-8.07
7,800.0	2.93	172.58	7,796.9	64.5	-39.8	70.8	1.69	0.22	-34.71
7,900.0	1.90	158.14	7,896.8	60.4	-38.9	66.7	1.19	-1.03	-14.44
8,000.0	0.92	167.72	7,996.8	58.1	-38.1	64.2	1.00	-0.98	9.58
8,100.0	1.05	132.45	8,096.7	56.7	-37.2	62.7	0.61	0.13	-35.27
8,200.0	1.29	141.75	8,196.7	55.2	-35.9	61.0	0.31	0.24	9.30
8,300.0	1.42	150.91	8,296.7	53.2	-34.6	58.8	0.25	0.13	9.16
8,400.0	1.86	143.83	8,396.6	50.8	-33.0	56.1	0.48	0.44	-7.08
8,500.0	2.47	140.94	8,496.6	47.8	-30.7	52.8	0.62	0.61	-2.89
8,600.0	2.22	143.31	8,596.5	44.6	-28.2	49.1	0.27	-0.25	2.37
8,700.0	1.89	152.48	8,696.4	41.6	-26.3	45.8	0.46	-0.33	9.17
8,800.0	2.56	158.01	8,796.4	38.1	-24.7	42.0	0.70	0.67	5.53
8,815.0	2.75	159.51	8,811.3	37.4	-24.4	41.4	1.35	1.27	10.00
8,875.0	4.00	187.20	8,871.2	34.0	-24.2	37.9	3.37	2.08	46.15
8,907.0	4.40	221.80	8,903.2	32.0	-25.1	36.1	7.89	1.25	108.13
8,939.0	6.10	251.20	8,935.0	30.5	-27.6	35.2	9.78	5.31	91.88
8,970.0	8.80	271.60	8,965.8	30.0	-31.5	35.4	12.06	8.71	65.81
9,002.0	12.30	283.20	8,997.2	30.9	-37.3	37.4	12.74	10.94	36.25

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Design:	Wellbore #1	Database:	EDM Compass

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)
9,034.0	15.90	291.60	9,028.3	33.3	-44.6	41.1	12.91	11.25	26.25
9,065.0	19.40	300.80	9,057.8	37.5	-53.0	46.8	14.41	11.29	29.68
9,097.0	22.90	308.10	9,087.6	44.1	-62.5	55.0	13.67	10.94	22.81
9,129.0	25.90	314.30	9,116.8	52.8	-72.4	65.5	12.32	9.38	19.38
9,161.0	28.80	321.30	9,145.2	63.7	-82.2	78.0	13.52	9.06	21.88
9,192.0	31.70	328.00	9,172.0	76.4	-91.2	92.3	14.34	9.35	21.61
9,224.0	34.90	328.50	9,198.7	91.4	-100.5	108.7	10.04	10.00	1.56
9,256.0	37.80	327.30	9,224.5	107.4	-110.5	126.3	9.33	9.06	-3.75
9,288.0	41.40	326.90	9,249.2	124.5	-121.6	145.2	11.28	11.25	-1.25
9,320.0	44.80	329.80	9,272.5	143.2	-133.1	165.7	12.30	10.63	9.06
9,351.0	46.80	333.30	9,294.1	162.7	-143.6	186.9	10.35	6.45	11.29
9,383.0	50.20	335.20	9,315.3	184.3	-154.0	210.0	11.52	10.63	5.94
9,414.0	53.80	335.20	9,334.4	206.5	-164.3	233.7	11.61	11.61	0.00
9,446.0	56.50	335.90	9,352.7	230.4	-175.2	259.3	8.63	8.44	2.19
9,478.0	59.20	337.70	9,369.7	255.3	-185.8	285.7	9.69	8.44	5.63
9,509.0	62.20	338.40	9,384.9	280.3	-195.9	312.3	9.88	9.68	2.26
9,541.0	64.60	339.30	9,399.2	307.0	-206.2	340.4	7.91	7.50	2.81
9,573.0	67.00	339.40	9,412.4	334.3	-216.5	369.2	7.51	7.50	0.31
9,605.0	70.30	340.00	9,424.0	362.3	-226.9	398.6	10.46	10.31	1.88
CROSSED 330 HARD LINE @ 9618 MD 7,9428 TVD 3734									
9,617.5	71.67	340.57	9,428.1	373.4	-230.9	410.2	11.78	10.96	4.57
9,636.0	73.70	341.40	9,433.6	390.1	-236.6	427.7	11.78	10.97	4.48
9,668.0	75.50	342.60	9,442.1	419.4	-246.1	458.3	6.69	5.63	3.75
9,700.0	77.80	345.20	9,449.5	449.3	-254.8	489.3	10.68	7.19	8.13
9,731.0	81.90	347.00	9,454.9	479.0	-262.1	519.8	14.41	13.23	5.81
9,752.0	84.60	346.80	9,457.4	499.3	-266.8	540.6	12.89	12.86	-0.95
9,816.0	89.00	349.10	9,461.0	561.7	-280.2	604.5	7.75	6.88	3.59
9,880.0	90.20	348.30	9,461.4	624.3	-293.8	668.5	4.76	1.88	-4.38
9,943.0	92.20	345.40	9,460.1	685.3	-309.2	731.4	3.48	3.17	-1.43
10,006.0	93.10	346.10	9,457.2	746.3	-324.7	794.2	1.81	1.43	1.11
10,069.0	93.10	347.70	9,453.8	807.6	-338.9	857.0	2.54	0.00	2.54
10,133.0	93.00	349.10	9,450.4	870.2	-351.8	920.9	2.19	-0.16	2.19
10,196.0	92.30	350.50	9,447.5	932.1	-362.9	983.9	2.48	-1.11	2.22
10,259.0	93.20	349.30	9,444.4	994.1	-374.0	1,046.8	2.38	1.43	-1.90
10,323.0	91.80	349.80	9,441.6	1,057.0	-385.6	1,110.7	2.32	-2.19	0.78
10,386.0	89.80	351.20	9,440.8	1,119.1	-396.0	1,173.7	3.87	-3.17	2.22
10,450.0	88.60	351.00	9,441.7	1,182.3	-405.9	1,237.6	1.90	-1.88	-0.31
10,513.0	88.80	352.40	9,443.1	1,244.6	-414.9	1,300.6	2.24	0.32	2.22
10,576.0	90.10	352.80	9,443.7	1,307.1	-423.1	1,363.4	2.16	2.06	0.63
10,639.0	91.30	352.10	9,442.9	1,369.6	-431.3	1,426.3	2.21	1.90	-1.11
10,703.0	91.60	351.50	9,441.3	1,432.9	-440.5	1,490.2	1.05	0.47	-0.94
10,766.0	91.80	352.60	9,439.4	1,495.2	-449.2	1,553.1	1.77	0.32	1.75
10,829.0	91.10	352.10	9,437.8	1,557.7	-457.6	1,616.0	1.37	-1.11	-0.79
10,892.0	90.90	350.90	9,436.7	1,620.0	-466.9	1,678.9	1.93	-0.32	-1.90

Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well: Querecho 28 OB Federal Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3734.0usft (Patterson #75)
Site:	Sec 28-185-32E	MD Reference:	Well @ 3734.0usft (Patterson #75)
Well:	Querecho 28 OB Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM/Compass

Measured	Vertical	Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	Rate	Rate
(usft)	(°)	(°)	(usft)	(°/100usft)	(°/100usft)
10,956.0	90.80	351.70	9,435.8	1,683.2	-476.5
11,019.0	90.40	351.50	9,435.1	1,745.5	-485.8
11,082.0	89.40	350.50	9,435.2	1,807.8	-495.6
11,146.0	89.80	351.20	9,435.7	1,870.9	-505.8
11,209.0	90.20	351.40	9,435.7	1,933.2	-515.3
11,272.0	91.20	350.90	9,434.9	1,995.5	-525.0
11,335.0	92.40	349.80	9,432.9	2,057.5	-535.6
11,399.0	91.60	350.50	9,430.7	2,120.6	-546.5
11,462.0	91.40	351.00	9,429.1	2,182.7	-556.6
11,526.0	90.10	351.20	9,428.2	2,245.9	-566.5
11,589.0	88.20	352.60	9,429.2	2,308.3	-575.4
11,652.0	87.70	353.10	9,431.4	2,370.8	-583.2
11,716.0	87.10	355.20	9,434.3	2,434.4	-589.8
11,779.0	85.90	356.00	9,438.2	2,497.1	-594.6
11,842.0	86.50	356.00	9,442.3	2,559.8	-599.0
11,905.0	87.80	355.20	9,445.5	2,622.5	-603.8
11,969.0	93.90	353.00	9,444.5	2,686.1	-610.4
12,032.0	94.00	353.50	9,440.2	2,748.5	-617.8
12,095.0	93.60	354.20	9,436.0	2,811.0	-624.5
12,159.0	93.00	354.70	9,432.3	2,874.6	-630.7
12,222.0	91.80	355.20	9,429.7	2,937.3	-636.2
12,285.0	91.10	355.40	9,428.1	3,000.1	-641.4
12,349.0	90.00	356.00	9,427.5	3,063.9	-646.2
12,412.0	89.70	355.80	9,427.6	3,126.8	-650.7
12,476.0	89.20	354.50	9,428.2	3,190.5	-656.1
12,539.0	89.00	354.50	9,429.2	3,253.2	-662.1
12,602.0	89.00	354.00	9,430.3	3,315.9	-668.4
12,665.0	89.10	353.30	9,431.4	3,378.5	-675.4
12,728.0	90.00	353.00	9,431.9	3,441.1	-682.9
12,791.0	90.80	353.00	9,431.4	3,503.6	-690.6
12,854.0	91.20	353.70	9,430.3	3,566.1	-697.9
12,917.0	91.20	352.40	9,429.0	3,628.7	-705.5
12,980.0	91.40	352.40	9,427.6	3,691.1	-713.8
13,043.0	91.10	352.80	9,426.2	3,753.6	-721.9
13,106.0	90.70	353.00	9,425.2	3,816.1	-729.7
13,169.0	90.40	353.50	9,424.6	3,878.6	-737.1
13,232.0	90.20	353.30	9,424.3	3,941.2	-744.4
13,264.0	90.20	353.30	9,424.2	3,973.0	-748.1
13,296.0	90.50	353.00	9,424.0	4,004.8	-751.9
13,327.0	89.90	353.10	9,423.9	4,035.5	-755.7
13,359.0	89.70	354.00	9,424.0	4,067.3	-759.3
13,390.0	89.70	353.80	9,424.1	4,098.2	-762.6
13,422.0	89.80	353.70	9,424.3	4,130.0	-766.0

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Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Querecho 28 OB Federal Com #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3734.0usft (Patterson #75)
Site:	Sec 28 18S-32E	MD Reference:	Well @ 3734.0usft (Patterson #75)
Well:	Querecho 28 OB Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM Compass

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)
13,454.0	90.00	354.40	9,424.3	4,161.8	-769.4	4,232.2	2.28	0.63	2.19
13,485.0	89.60	353.70	9,424.5	4,192.6	-772.6	4,263.1	2.60	-1.29	-2.26
13,517.0	89.90	353.30	9,424.6	4,224.4	-776.2	4,295.0	1.56	0.94	-1.25
13,549.0	89.30	353.50	9,424.8	4,256.2	-779.9	4,326.9	1.98	-1.88	0.63
13,580.0	89.30	353.80	9,425.2	4,287.0	-783.3	4,357.8	0.97	0.00	0.97
13,612.0	89.20	353.70	9,425.6	4,318.8	-786.8	4,389.7	0.44	-0.31	-0.31
13,643.0	89.00	353.80	9,426.1	4,349.6	-790.2	4,420.6	0.72	-0.65	0.32
13,675.0	88.90	354.00	9,426.7	4,381.4	-793.6	4,452.5	0.70	-0.31	0.63
13,707.0	89.40	354.00	9,427.2	4,413.3	-796.9	4,484.4	1.56	1.56	0.00
13,738.0	90.00	353.80	9,427.3	4,444.1	-800.2	4,515.3	2.04	1.94	-0.65
13,770.0	90.00	354.20	9,427.3	4,475.9	-803.5	4,547.1	1.25	0.00	1.25
13,801.0	89.90	353.70	9,427.3	4,506.7	-806.8	4,578.0	1.64	-0.32	-1.61
13,833.0	89.90	354.50	9,427.4	4,538.6	-810.1	4,609.9	2.50	0.00	2.50
13,864.0	90.00	354.00	9,427.4	4,569.4	-813.2	4,640.8	1.64	0.32	-1.61
13,896.0	90.30	353.70	9,427.3	4,601.2	-816.6	4,672.7	1.33	0.94	-0.94
13,928.0	90.90	353.50	9,427.0	4,633.0	-820.2	4,704.6	1.98	1.68	-0.63
13,959.0	91.30	353.10	9,426.4	4,663.8	-823.8	4,735.5	1.82	1.29	-1.29
13,991.0	91.30	353.00	9,425.7	4,695.6	-827.7	4,767.4	0.31	0.00	-0.31
14,017.0	91.30	352.40	9,425.1	4,721.4	-831.0	4,793.3	2.31	0.00	-2.31
TIE @ 14070' MD / 9424' TVD									
14,070.0	91.30	352.40	9,423.9	4,773.9	-838.0	4,846.2	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Comment
8,815.0	8,811.3	37.4	-24.4	TIE IN @ 8815' MD / 8811' TVD
9,617.5	9,428.1	373.4	-230.9	CROSSED 330' HARD LINE @ 9618' MD / 9428' TVD
14,070.0	9,423.9	4,773.9	-838.0	TD @ 14070' MD / 9424' TVD

Checked By: _____

Approved By: _____

Date: _____

Company Name: Newbourn Oil Co
Querecho 28 OB Federal Con #1H
Los County, New Mexico
Rig: Patterson #75
Created By: James Dawson
Date: 08/27/2014

Mewbourne Oil Company

