



HOBBS OCD

SEP 16 2015

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Mewbourne Oil Company

Lea County, NM

Cabra Loca 11 B3PA State No. 1H

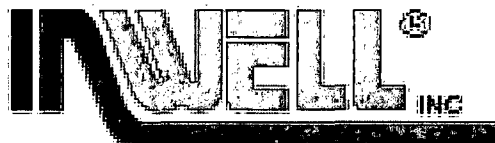
No. 1H

Original Hole

Design: Original Hole

EOW Report

14 August, 2015



SEP 21 2015



Mewbourne Oil Company
Project: Lea County, NM
Site: Cabra Loca 11 B3PA State No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: Plan #2
Lat: 32° 23' 57.686 N
Long: 103° 26' 1.800 W
Pad GL: 3502.00
KB: Well @ 3522.00usft (Patterson 250)

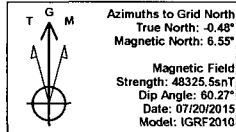


SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	
10468.00	0.77	310.53	10456.02	168.42	139.98	0.00	0.00	167.51	
10738.50	0.77	310.53	10726.50	170.78	137.21	0.00	0.00	169.89	
11486.20	90.24	357.96	11199.60	649.80	115.48	12.00	47.43	649.03	
15603.46	90.24	357.96	11182.00	4764.41	-31.00	0.00	0.00	4764.51	

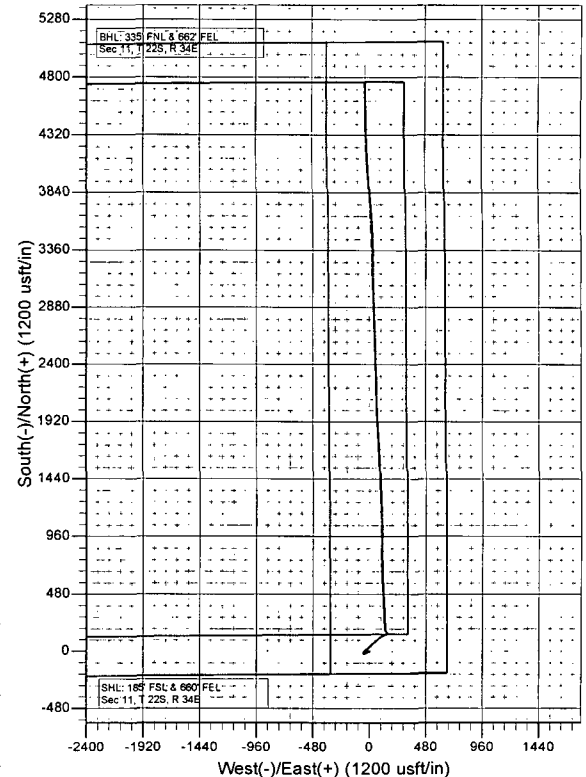
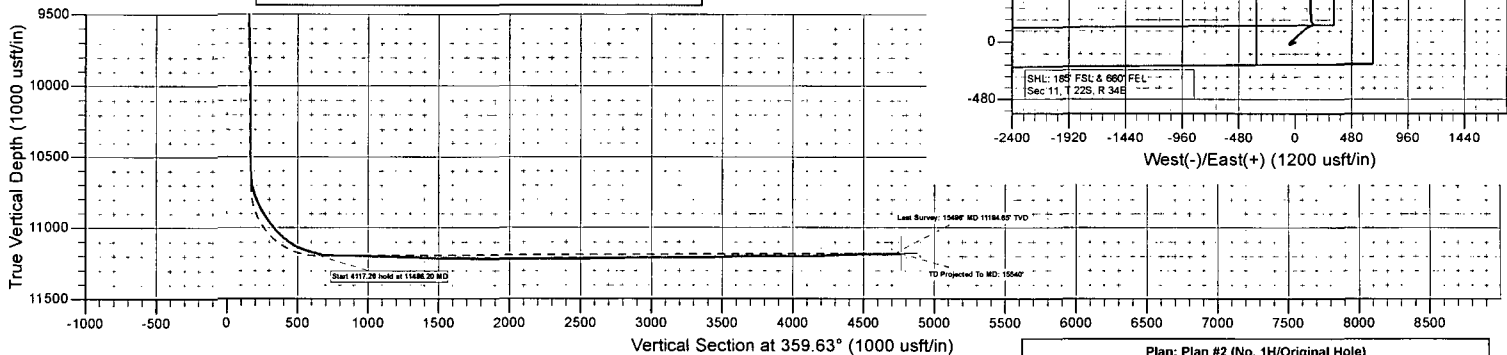
WELL DETAILS: No. 1H									
+N/-S	+E/-W	Northing	Ground Level	3502.00	Latitude	32° 23' 57.686 N	Longitude	103° 26' 1.800 W	
0.00	0.00	510168.40	Easting	777629.80					

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
Cabra Loca No. 1H TD/PBHL	11182.00	4764.41	-31.00	514932.80	777598.80	32° 24' 44.831 N	103° 26' 1.694 W		

PROJECT DETAILS: Lea County, NM
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



NOTE: All Lease lines and Hard lines are estimates only and are subject to the customers' approval.



Plan: Plan #2 (No. 1H/Original Hole)
Created By: Chris LeMaster Date: 10:41, August 14 2015

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 1H
Project:	Lea County, NM	TVD Reference:	Well @ 3522.00usft (Patterson 250)
Site:	Cabra Loca 11 B3PA State No. 1H	MD Reference:	Well @ 3522.00usft (Patterson 250)
Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Project	Lea County, NM		
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		Using geodetic scale factor

Site	Cabra Loca 11 B3PA State No. 1H				
Site Position:		Northing:	510,168.40 usft	Latitude:	32° 23' 57.686 N
From:	Map	Easting:	777,629.80 usft	Longitude:	103° 26' 1.800 W
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.48 °

Well	No. 1H					
Well Position	+N/-S	0.00 usft	Northing:	510,168.40 usft	Latitude:	32° 23' 57.686 N
	+E/-W	0.00 usft	Easting:	777,629.80 usft	Longitude:	103° 26' 1.800 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,502.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/20/15	7.03	60.27	48,325

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.63	

Survey Program	Date 08/14/15				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	10,468.00	Stryker Gyro (Original Hole)	CB-GYRO-MS	Camera based gyro multishot	
10,602.00	15,540.00	MWD (Original Hole)	MWD	MWD - Standard	

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)		
0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00
100.00	0.14	109.75	100.00	-0.04	-0.04	0.11	0.14		
200.00	0.24	98.41	200.00	-0.12	-0.11	0.44	0.11		
300.00	0.21	36.71	300.00	0.00	0.00	0.75	0.23		
400.00	0.13	18.28	400.00	0.25	0.26	0.90	0.10		
500.00	0.12	348.04	500.00	0.46	0.47	0.91	0.07		
600.00	0.21	350.65	600.00	0.75	0.75	0.86	0.09		
700.00	0.15	319.00	700.00	1.03	1.03	0.75	0.11		
800.00	0.32	311.38	800.00	1.31	1.31	0.45	0.17		
900.00	0.22	294.71	900.00	1.58	1.58	0.07	0.13		
1,000.00	0.24	258.55	999.99	1.62	1.62	-0.31	0.14		

Company: Mewbourne Oil Company
Project: Lea County, NM
Site: Cabra Loca 11 B3PA State No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3522.00usft (Patterson 250)
MD Reference: Well @ 3522.00usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
1,100.00	0.40	233.23	1,099.99	1.37	1.37	-0.80	0.21
1,200.00	0.51	237.05	1,199.99	0.93	0.92	-1.45	0.11
1,300.00	0.48	229.23	1,299.99	0.41	0.40	-2.14	0.07
1,400.00	0.76	227.31	1,399.98	-0.30	-0.32	-2.95	0.28
1,500.00	1.31	232.74	1,499.96	-1.44	-1.46	-4.34	0.56
1,600.00	1.52	232.83	1,599.93	-2.92	-2.96	-6.31	0.21
1,700.00	1.69	239.23	1,699.89	-4.46	-4.51	-8.63	0.25
1,800.00	1.78	249.32	1,799.85	-5.74	-5.82	-11.35	0.32
1,900.00	2.00	254.77	1,899.79	-6.73	-6.82	-14.49	0.28
2,000.00	2.27	260.26	1,999.72	-7.50	-7.62	-18.13	0.34
2,100.00	2.44	246.03	2,099.64	-8.67	-8.82	-22.02	0.61
2,200.00	2.83	234.37	2,199.54	-10.95	-11.12	-25.98	0.66
2,300.00	2.76	231.43	2,299.42	-13.87	-14.06	-29.86	0.16
2,400.00	2.27	240.36	2,399.32	-16.32	-16.54	-33.47	0.63
2,500.00	2.25	241.33	2,499.24	-18.22	-18.46	-36.91	0.04
2,600.00	2.51	266.90	2,599.16	-19.26	-19.52	-40.82	1.08
2,700.00	2.38	280.42	2,699.07	-18.97	-19.26	-45.05	0.59
2,800.00	2.01	308.54	2,799.00	-17.48	-17.80	-48.46	1.13
2,900.00	2.20	350.59	2,898.94	-14.48	-14.81	-50.15	1.52
3,000.00	2.45	15.60	2,998.86	-10.53	-10.86	-49.89	1.04
3,100.00	3.22	30.52	3,098.73	-6.07	-6.38	-47.89	1.06
3,200.00	3.84	42.67	3,198.55	-1.21	-1.50	-44.19	0.97
3,300.00	3.74	44.45	3,298.33	3.55	3.29	-39.64	0.15
3,400.00	2.73	50.19	3,398.17	7.38	7.15	-35.52	1.06
3,500.00	2.33	56.55	3,498.07	10.00	9.79	-32.00	0.49
3,600.00	1.88	55.14	3,598.00	12.04	11.85	-28.96	0.45
3,700.00	2.13	56.20	3,697.94	13.99	13.82	-26.07	0.25
3,800.00	1.80	61.20	3,797.88	15.76	15.61	-23.15	0.37
3,900.00	1.95	69.89	3,897.83	17.08	16.95	-20.17	0.32
4,000.00	1.28	71.72	3,997.79	18.00	17.89	-17.51	0.67
4,100.00	1.74	36.02	4,097.75	19.57	19.47	-15.56	1.02
4,200.00	2.32	41.98	4,197.69	22.28	22.20	-13.31	0.62
4,300.00	2.28	36.31	4,297.61	25.38	25.31	-10.78	0.23
4,400.00	1.78	32.75	4,397.55	28.27	28.22	-8.76	0.52
4,500.00	1.10	35.68	4,497.52	30.35	30.30	-7.36	0.68
4,600.00	2.04	58.84	4,597.48	32.04	32.00	-5.28	1.12
4,700.00	2.70	55.46	4,697.39	34.27	34.26	-1.82	0.67
4,800.00	3.42	55.19	4,797.25	37.28	37.30	2.57	0.72
4,900.00	3.29	48.09	4,897.08	40.87	40.92	7.16	0.44
5,000.00	3.79	32.01	4,996.89	45.56	45.64	11.04	1.11
5,100.00	4.92	37.39	5,096.60	51.75	51.85	15.40	1.20
5,200.00	5.81	42.53	5,196.16	58.84	58.98	21.43	1.01
5,300.00	5.78	51.92	5,295.65	65.63	65.82	28.81	0.95
5,400.00	6.09	53.90	5,395.12	71.81	72.05	37.06	0.37

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Site: Cabra Loca 11 B3PA State No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3522.00usft (Patterson 250)
MD Reference: Well @ 3522.00usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
5,500.00	6.71	50.74	5,494.49	78.57	78.87	45.87	0.71
5,600.00	7.38	47.71	5,593.74	86.53	86.89	55.14	0.77
5,700.00	7.34	45.82	5,692.91	95.25	95.66	64.48	0.25
5,800.00	7.31	47.51	5,792.10	103.94	104.41	73.75	0.22
5,900.00	6.69	52.38	5,891.35	111.73	112.27	83.05	0.86
6,000.00	6.21	55.02	5,990.72	118.33	118.92	92.10	0.56
6,100.00	5.43	56.94	6,090.20	123.95	124.61	100.50	0.80
6,200.00	4.77	57.98	6,189.81	128.69	129.39	107.99	0.67
6,300.00	4.50	61.30	6,289.48	132.73	133.48	114.95	0.38
6,400.00	3.81	59.06	6,389.22	136.29	137.07	121.24	0.71
6,500.00	3.50	63.88	6,489.01	139.30	140.12	126.84	0.44
6,600.00	3.02	62.00	6,588.85	141.85	142.70	131.90	0.49
6,700.00	2.34	67.20	6,688.74	143.85	144.73	136.11	0.72
6,800.00	2.22	75.44	6,788.66	145.10	146.01	139.87	0.35
6,900.00	1.79	78.46	6,888.60	145.88	146.81	143.27	0.44
7,000.00	1.47	74.77	6,988.56	146.51	147.46	146.04	0.34
7,100.00	1.32	85.82	7,088.53	146.92	147.88	148.43	0.31
7,200.00	1.07	75.13	7,188.51	147.23	148.20	150.48	0.33
7,300.00	0.55	67.63	7,288.50	147.64	148.63	151.82	0.53
7,400.00	0.48	38.62	7,388.50	148.15	149.14	152.53	0.27
7,500.00	0.08	51.21	7,488.49	148.52	149.51	152.84	0.40
7,600.00	0.21	49.31	7,588.49	148.68	149.67	153.04	0.13
7,700.00	0.14	42.93	7,688.49	148.89	149.88	153.26	0.07
7,800.00	0.08	31.60	7,788.49	149.03	150.03	153.38	0.06
7,900.00	0.12	41.36	7,888.49	149.17	150.17	153.49	0.04
8,000.00	0.05	111.88	7,988.49	149.23	150.23	153.59	0.11
8,100.00	0.14	45.84	8,088.49	149.30	150.30	153.72	0.13
8,200.00	0.39	77.92	8,188.49	149.45	150.45	154.14	0.28
8,300.00	0.35	52.01	8,288.49	149.71	150.71	154.72	0.17
8,400.00	0.70	64.96	8,388.49	150.15	151.16	155.51	0.37
8,500.00	0.90	72.23	8,488.48	150.64	151.66	156.81	0.22
8,600.00	0.81	90.15	8,588.46	150.87	151.89	158.27	0.28
8,700.00	0.32	89.48	8,688.46	150.86	151.90	159.25	0.49
8,800.00	0.32	348.23	8,788.46	151.14	152.17	159.48	0.49
8,900.00	0.18	249.99	8,888.46	151.36	152.39	159.27	0.39
9,000.00	0.29	202.24	8,988.46	151.07	152.10	159.03	0.22
9,100.00	0.37	167.56	9,088.46	150.52	151.55	159.00	0.21
9,200.00	0.25	152.47	9,188.45	150.01	151.04	159.17	0.14
9,300.00	0.83	304.87	9,288.45	150.24	151.27	158.68	1.06
9,400.00	2.23	301.41	9,388.41	151.68	152.69	156.42	1.40
9,500.00	2.61	313.46	9,488.32	154.28	155.27	153.11	0.63
9,600.00	2.51	312.21	9,588.22	157.34	158.31	149.84	0.11
9,700.00	2.25	322.76	9,688.14	160.39	161.34	147.03	0.51
9,800.00	1.66	316.84	9,788.08	163.03	163.96	144.85	0.62
9,900.00	1.19	323.59	9,888.05	164.93	165.86	143.24	0.50

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well No. 1H
Project:	Lea County, NM	TVD Reference:	Well @ 3522.00usft (Patterson 250)
Site:	Cabra Loca 11 B3PA State No. 1H	MD Reference:	Well @ 3522.00usft (Patterson 250)
Well:	No. 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Inwell

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
10,000.00	0.75	328.78	9,988.03	166.33	167.25	142.28	0.45
10,100.00	0.34	336.77	10,088.03	167.16	168.08	141.83	0.42
10,200.00	0.01	229.65	10,188.03	167.43	168.35	141.70	0.34
10,300.00	0.37	224.34	10,288.03	167.20	168.11	141.47	0.36
10,400.00	0.65	284.58	10,388.02	167.11	168.03	140.70	0.57
10,468.00	0.77	310.53	10,456.02	167.51	168.42	139.98	0.50
10,602.00	2.50	316.00	10,589.96	170.22	171.11	137.26	1.29
10,633.00	3.60	334.60	10,620.92	171.59	172.47	136.38	4.73
10,665.00	6.00	350.10	10,652.80	174.15	175.03	135.66	8.46
10,697.00	8.90	353.80	10,684.53	178.26	179.14	135.10	9.18
10,728.00	12.60	354.20	10,714.98	184.02	184.89	134.50	11.94
10,760.00	16.50	353.90	10,745.95	192.02	192.88	133.66	12.19
10,792.00	19.80	354.80	10,776.35	201.94	202.80	132.69	10.35
10,823.00	22.90	355.60	10,805.22	213.19	214.05	131.75	10.04
10,855.00	25.40	356.40	10,834.42	226.26	227.11	130.84	7.88
10,887.00	27.20	356.90	10,863.10	240.41	241.26	130.02	5.67
10,918.00	30.50	357.20	10,890.25	255.36	256.20	129.25	10.66
10,950.00	33.50	357.40	10,917.39	272.30	273.13	128.45	9.38
10,982.00	35.70	357.00	10,943.73	290.45	291.28	127.56	6.91
11,013.00	38.20	357.20	10,968.50	309.07	309.89	126.62	8.07
11,045.00	40.00	357.20	10,993.33	329.23	330.05	125.63	5.62
11,077.00	42.50	358.00	11,017.39	350.31	351.12	124.75	7.98
11,108.00	46.20	359.30	11,039.55	371.97	372.78	124.25	12.29
11,140.00	48.70	0.50	11,061.19	395.55	396.36	124.22	8.29
11,172.00	51.10	359.70	11,081.80	420.02	420.83	124.26	7.74
11,203.00	54.20	356.40	11,100.61	444.64	445.45	123.40	13.10
11,235.00	59.30	353.50	11,118.15	471.30	472.09	121.03	17.65
11,266.00	62.60	353.80	11,133.20	498.25	499.02	118.03	10.68
11,298.00	67.30	355.40	11,146.75	527.12	527.88	115.31	15.37
11,329.00	71.90	356.40	11,157.55	556.11	556.85	113.24	15.14
11,361.00	73.70	357.80	11,167.01	586.64	587.38	111.70	7.01
11,393.00	75.40	358.30	11,175.54	617.47	618.20	110.65	5.52
11,424.00	78.10	358.50	11,182.64	647.64	648.36	109.80	8.73
11,471.00	83.10	358.50	11,190.32	693.98	694.70	108.59	10.64
11,511.00	86.90	359.70	11,193.80	733.82	734.53	107.97	9.96
11,543.00	89.20	0.70	11,194.89	765.80	766.51	108.08	7.84
11,575.00	90.10	1.00	11,195.09	797.79	798.51	108.55	2.96
11,606.00	90.00	1.00	11,195.06	828.78	829.50	109.09	0.32
11,701.00	88.70	359.30	11,196.14	923.77	924.49	109.34	2.25
11,796.00	87.80	358.80	11,199.04	1,018.72	1,019.43	107.77	1.08
11,891.00	88.10	358.20	11,202.44	1,113.64	1,114.34	105.28	0.71
11,986.00	87.70	357.30	11,205.92	1,208.52	1,209.20	101.56	1.04
12,081.00	88.80	357.60	11,208.82	1,303.41	1,304.06	97.33	1.20
12,176.00	88.20	357.80	11,211.31	1,398.32	1,398.95	93.52	0.67

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Project: Lea County, NM
Site: Cabra Loca 11 B3PA State No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3522.00usft (Patterson 250)
MD Reference: Well @ 3522.00usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
12,271.00	88.00	358.50	11,214.46	1,493.23	1,493.85	90.46	0.77
12,366.00	89.60	357.80	11,216.45	1,588.18	1,588.78	87.39	1.84
12,461.00	90.50	356.80	11,216.36	1,683.10	1,683.67	82.91	1.42
12,555.00	89.10	356.80	11,216.69	1,776.98	1,777.52	77.67	1.49
12,650.00	88.80	356.60	11,218.43	1,871.84	1,872.34	72.20	0.38
12,745.00	89.10	356.70	11,220.17	1,966.70	1,967.17	66.65	0.33
12,840.00	90.20	358.70	11,220.75	2,061.63	2,062.08	62.84	2.40
12,935.00	91.00	359.40	11,219.76	2,156.62	2,157.06	61.26	1.12
13,029.00	90.60	358.10	11,218.45	2,250.60	2,251.03	59.21	1.45
13,124.00	90.20	358.50	11,217.78	2,345.57	2,345.98	56.39	0.60
13,219.00	90.60	358.20	11,217.12	2,440.54	2,440.94	53.66	0.53
13,314.00	90.00	357.50	11,216.62	2,535.50	2,535.87	50.09	0.97
13,409.00	89.60	358.00	11,216.95	2,630.44	2,630.80	46.36	0.67
13,504.00	92.30	358.00	11,215.38	2,725.38	2,725.72	43.05	2.84
13,599.00	91.70	358.00	11,212.06	2,820.29	2,820.60	39.74	0.63
13,694.00	90.90	358.50	11,209.91	2,915.23	2,915.53	36.84	0.99
13,789.00	90.00	358.40	11,209.16	3,010.21	3,010.49	34.27	0.95
13,884.00	89.60	358.40	11,209.49	3,105.19	3,105.46	31.61	0.42
13,979.00	90.40	359.10	11,209.49	3,200.17	3,200.43	29.54	1.12
14,074.00	90.60	359.20	11,208.66	3,295.17	3,295.42	28.13	0.24
14,169.00	89.80	358.50	11,208.33	3,390.16	3,390.40	26.23	1.12
14,263.00	92.40	358.40	11,206.53	3,484.11	3,484.34	23.68	2.77
14,358.00	92.70	357.00	11,202.30	3,578.96	3,579.16	19.88	1.51
14,453.00	90.30	356.90	11,199.81	3,673.82	3,673.99	14.82	2.53
14,548.00	90.10	356.30	11,199.48	3,768.68	3,768.82	9.19	0.67
14,643.00	89.60	355.60	11,199.73	3,863.49	3,863.58	2.48	0.91
14,738.00	89.40	356.20	11,200.56	3,958.28	3,958.34	-4.31	0.67
14,833.00	89.80	356.40	11,201.22	4,053.12	4,053.14	-10.44	0.47
14,928.00	92.10	358.30	11,199.65	4,148.02	4,148.01	-14.84	3.14
15,023.00	94.10	358.20	11,194.51	4,242.85	4,242.82	-17.73	2.11
15,117.00	92.30	358.30	11,189.26	4,336.67	4,336.63	-20.60	1.92
15,212.00	90.90	358.50	11,186.61	4,431.61	4,431.55	-23.25	1.49
15,307.00	88.80	358.30	11,186.86	4,526.58	4,526.51	-25.90	2.22
15,402.00	91.10	358.30	11,186.94	4,621.55	4,621.46	-28.72	2.42
15,496.00	91.70	358.20	11,184.65	4,715.49	4,715.39	-31.59	0.65
Last Survey: 15496' MD 11184.65' TVD							
15,540.00	91.70	358.20	11,183.34	4,759.46	4,759.35	-32.97	0.00
TD Projected To MD: 15540' - Cabra Loca No. 1H TD/PBHL							



Inwell
EOW Report



Company: Mewbourne Oil Company
Project: Lea County, NM
Site: Cabra Loca 11 B3PA State No. 1H
Well: No. 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3522.00usft (Patterson 250)
MD Reference: Well @ 3522.00usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Inwell

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,496.00	11,184.65	4,715.39	-31.59	Last Survey: 15496' MD 11184.65' TVD
15,540.00	11,183.34	4,759.35	-32.97	TD Projected To MD: 15540'

Checked By: _____ Approved By: _____ Date: _____