

HOBBSD

MAR 02 2015

30-025-42288

RECEIVED

Company Name: Mewbourne Oil Co
Perro Loco 22 B30B Federal #1H
Lea County, New Mexico
Rlg: Patterson #75
Created By: Kaleigh DeCordova
Date: 01/15/2015

Mewbourne Oil Company



Perro Loco 22 B30B Federal #1H
Lea County, New Mexico
Q141357 & WT-141281
Design #3 - Tie In

PROJECT DETAILS: Lea 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: Perro Loco 22 B30B Federal #1H

Ground Level: 3420.0
+N/S +E/W Northing Easting Latitude Longitude
0.0 0.0 49552.45 771095.40 32° 22' 13.179 N 103° 27' 15.024 W



Azimuths to Grid North

Correction: 6.64°

Magnetic Field
Strength: 48362.05nT
Dip Angle: 60.25°
Date: 12/30/2014
Model: IGRF2010

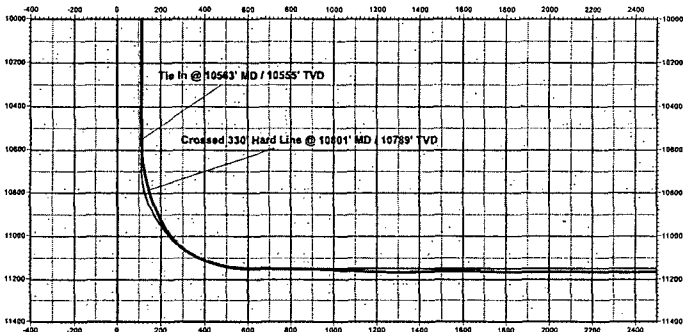
DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
PBHL PL 22 B30B Fed #1H	11150.0	4768.6	-28.4	504321.07	771067.01	32° 23' 0.366 N	103° 27' 16.899 W

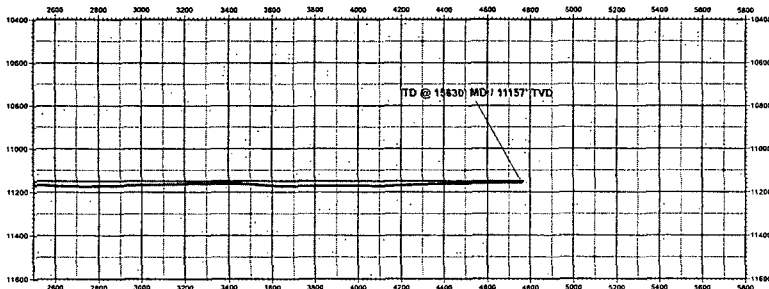
- plan hits target center

ANNOTATIONS

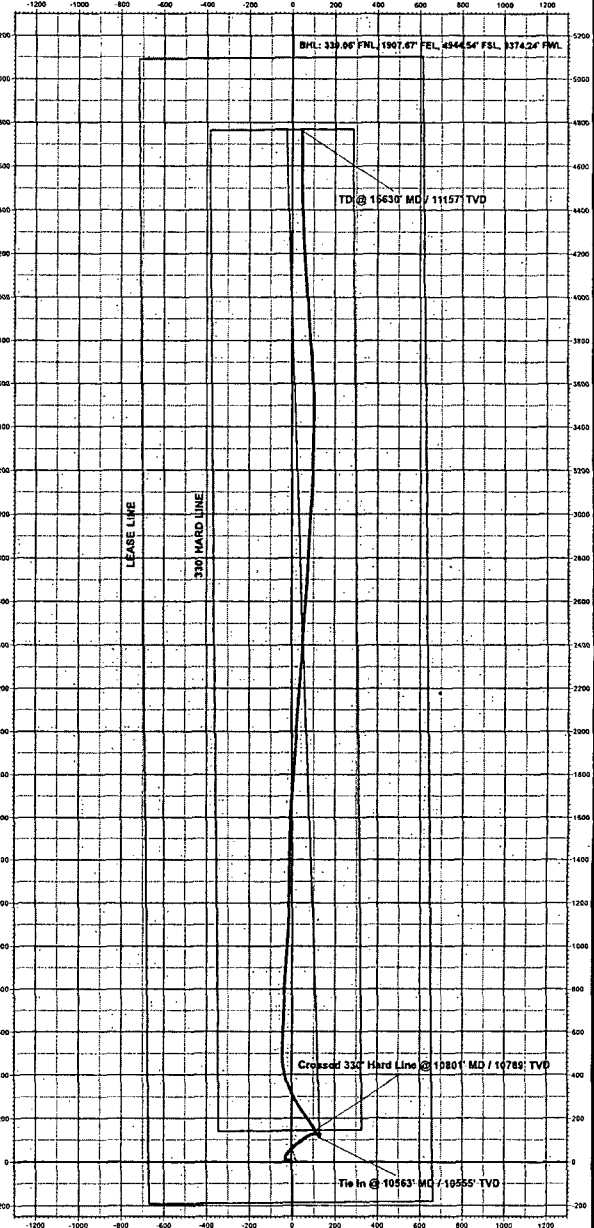
MD	Inc	Azi	TVD	+N/S	+E/W	V/Sect	Departure	Annotation
10563.0	0.46	175.96	10555.0	112.2	131.0	111.4	278.7	Tie In @ 10563' MD / 10555' TVD
10801.3	15.41	326.48	10788.8	146.3	110.4	145.6	319.0	Crossed 330' Hard Line @ 10801' MD / 10789' TVD
15630.0	90.60	358.60	11155.8	4760.2	44.0	4759.9	4979.4	TD @ 15630' MD / 11157' TVD



Vertical Section at 359.66° (200 usf/in)



Vertical Section at 359.66° (200 usf/in)



MAR 04 2015

Mewbourne Oil Co

Lea County, New Mexico

Sec 22, T22S, R34E

Perro Loco 22 B30B Federal #1H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

15 January, 2015



Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Perro Loco 22 B30B Federal #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3440.0usft (Patterson #75)
Site:	Sec 22, T2S, R34E	MD Reference:	Well @ 3440.0usft (Patterson #75)
Well:	Perro Loco 22 B30B Federal #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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 22, T2S, R34E		
Site Position:		Northing:	499,552.50 usft
From:	Map	Easting:	771,095.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 13.179 N
		Longitude:	103° 27' 19.024 W
		Grid Convergence:	0.47 °

Well:	Perro Loco 22 B30B Federal #1H		
Well Position	+N/-S	0.0 usft	Northing: 499,552.49 usft
	+E/-W	0.0 usft	Easting: 771,095.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 22' 13.179 N
		Longitude:	103° 27' 19.024 W
		Ground Level:	3,420.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	12/30/2014	(°)
			7.10
			Dip Angle
			(°)
			60.25
			Field Strength
			(nT)
			48,362

Design:	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.66

Survey Program	Date:	1/15/2015		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	10,563.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
10,587.0	15,630.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	499,552.49	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
100.0	0.30	122.19	100.0	-0.1	0.2	499,552.35	771,095.62	32° 22' 13.178 N	103° 27' 19.021 W
200.0	0.45	191.51	200.0	-0.7	0.4	499,551.83	771,095.76	32° 22' 13.172 N	103° 27' 19.020 W
300.0	0.44	177.96	300.0	-1.4	0.3	499,551.06	771,095.70	32° 22' 13.165 N	103° 27' 19.021 W
400.0	0.37	184.91	400.0	-2.1	0.3	499,550.36	771,095.68	32° 22' 13.158 N	103° 27' 19.021 W
500.0	0.40	212.07	500.0	-2.8	0.1	499,549.74	771,095.47	32° 22' 13.152 N	103° 27' 19.023 W
600.0	0.48	224.17	600.0	-3.4	-0.4	499,549.14	771,094.99	32° 22' 13.146 N	103° 27' 19.029 W
700.0	0.54	248.77	700.0	-3.8	-1.1	499,548.67	771,094.26	32° 22' 13.141 N	103° 27' 19.038 W
800.0	0.52	275.13	800.0	-4.0	-2.0	499,548.54	771,093.37	32° 22' 13.140 N	103° 27' 19.048 W
900.0	0.47	290.77	900.0	-3.8	-2.9	499,548.73	771,092.54	32° 22' 13.142 N	103° 27' 19.058 W
1,000.0	1.14	319.55	1,000.0	-2.9	-3.9	499,549.63	771,091.51	32° 22' 13.151 N	103° 27' 19.070 W

Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Perro Loco 22 B30B Federal #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3440.0usft (Patterson #75)
Site:	Sec 22, T22S, R34E	MD Reference:	Well @ 3440.0usft (Patterson #75)
Well:	Perro Loco 22 B30B Federal #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	1.39	310.75	1,099.9	-1.3	-5.5	499,551.18	771,089.94	32° 22' 13.166 N	103° 27' 19.088 W
1,200.0	1.48	293.17	1,199.9	0.0	-7.6	499,552.48	771,087.84	32° 22' 13.180 N	103° 27' 19.112 W
1,300.0	1.59	283.55	1,299.9	0.8	-10.1	499,553.31	771,085.30	32° 22' 13.188 N	103° 27' 19.142 W
1,400.0	2.12	294.43	1,399.8	1.9	-13.1	499,554.40	771,082.27	32° 22' 13.199 N	103° 27' 19.177 W
1,500.0	1.81	293.25	1,499.8	3.3	-16.3	499,555.79	771,079.13	32° 22' 13.213 N	103° 27' 19.213 W
1,600.0	1.69	261.19	1,599.7	3.7	-19.2	499,556.19	771,076.22	32° 22' 13.217 N	103° 27' 19.247 W
1,700.0	1.77	265.09	1,699.7	3.3	-22.2	499,555.83	771,073.23	32° 22' 13.214 N	103° 27' 19.282 W
1,800.0	0.99	294.27	1,799.6	3.6	-24.5	499,556.05	771,070.90	32° 22' 13.216 N	103° 27' 19.309 W
1,900.0	0.88	330.26	1,899.6	4.6	-25.7	499,557.07	771,069.73	32° 22' 13.226 N	103° 27' 19.323 W
2,000.0	1.14	336.24	1,999.6	6.2	-26.4	499,558.65	771,068.95	32° 22' 13.242 N	103° 27' 19.332 W
2,100.0	0.69	331.75	2,099.6	7.6	-27.1	499,560.09	771,068.27	32° 22' 13.256 N	103° 27' 19.340 W
2,200.0	1.38	329.79	2,199.6	9.2	-28.0	499,561.66	771,067.37	32° 22' 13.272 N	103° 27' 19.350 W
2,300.0	0.98	349.74	2,299.6	11.1	-28.8	499,563.55	771,066.62	32° 22' 13.291 N	103° 27' 19.359 W
2,400.0	1.10	355.25	2,399.5	12.8	-29.0	499,565.34	771,066.38	32° 22' 13.309 N	103° 27' 19.361 W
2,500.0	1.21	343.47	2,499.5	14.8	-29.4	499,567.31	771,066.01	32° 22' 13.328 N	103° 27' 19.365 W
2,600.0	1.46	7.15	2,599.5	17.1	-29.5	499,569.59	771,065.86	32° 22' 13.351 N	103° 27' 19.367 W
2,700.0	1.64	5.79	2,699.5	19.8	-29.2	499,572.28	771,066.17	32° 22' 13.377 N	103° 27' 19.363 W
2,800.0	1.78	14.84	2,799.4	22.7	-28.7	499,575.20	771,066.71	32° 22' 13.406 N	103° 27' 19.356 W
2,900.0	2.36	21.64	2,899.4	26.1	-27.5	499,578.62	771,067.87	32° 22' 13.440 N	103° 27' 19.343 W
3,000.0	2.86	22.17	2,999.3	30.3	-25.8	499,582.84	771,069.57	32° 22' 13.481 N	103° 27' 19.322 W
3,100.0	3.68	36.90	3,099.1	35.2	-23.0	499,587.72	771,072.43	32° 22' 13.529 N	103° 27' 19.288 W
3,200.0	4.26	42.97	3,198.8	40.5	-18.5	499,593.00	771,076.89	32° 22' 13.581 N	103° 27' 19.236 W
3,300.0	4.56	40.59	3,298.6	46.2	-13.4	499,598.74	771,082.01	32° 22' 13.638 N	103° 27' 19.176 W
3,400.0	5.25	42.88	3,398.2	52.6	-7.7	499,605.11	771,087.71	32° 22' 13.700 N	103° 27' 19.109 W
3,500.0	5.26	44.96	3,497.8	59.2	-1.3	499,611.71	771,094.06	32° 22' 13.765 N	103° 27' 19.034 W
3,600.0	5.00	46.94	3,597.4	65.4	5.1	499,617.92	771,100.49	32° 22' 13.826 N	103° 27' 18.958 W
3,700.0	4.83	49.33	3,697.0	71.1	11.5	499,623.64	771,106.86	32° 22' 13.882 N	103° 27' 18.884 W
3,800.0	4.73	49.74	3,796.7	76.6	17.8	499,629.05	771,113.20	32° 22' 13.935 N	103° 27' 18.809 W
3,900.0	3.65	53.75	3,896.4	81.1	23.5	499,633.60	771,118.92	32° 22' 13.980 N	103° 27' 18.742 W
4,000.0	3.79	59.09	3,996.2	84.7	28.9	499,637.18	771,124.32	32° 22' 14.015 N	103° 27' 18.679 W
4,100.0	3.70	59.89	4,096.0	88.0	34.5	499,640.49	771,129.95	32° 22' 14.047 N	103° 27' 18.613 W
4,200.0	4.92	51.56	4,195.7	92.3	40.7	499,644.78	771,136.10	32° 22' 14.089 N	103° 27' 18.541 W
4,300.0	5.32	50.56	4,295.3	97.9	47.6	499,650.39	771,143.03	32° 22' 14.144 N	103° 27' 18.459 W
4,400.0	5.24	54.68	4,394.9	103.5	54.9	499,655.98	771,150.34	32° 22' 14.199 N	103° 27' 18.374 W
4,500.0	4.18	47.90	4,494.5	108.6	61.4	499,661.06	771,156.77	32° 22' 14.248 N	103° 27' 18.298 W
4,600.0	4.70	53.57	4,594.2	113.4	67.4	499,665.94	771,162.77	32° 22' 14.296 N	103° 27' 18.228 W
4,700.0	4.77	61.34	4,693.9	117.9	74.3	499,670.36	771,169.72	32° 22' 14.339 N	103° 27' 18.146 W
4,800.0	4.13	66.52	4,793.6	121.3	81.3	499,673.79	771,176.67	32° 22' 14.373 N	103° 27' 18.065 W
4,900.0	3.78	69.94	4,893.3	123.9	87.7	499,676.36	771,183.07	32° 22' 14.398 N	103° 27' 17.990 W
5,000.0	3.27	66.91	4,993.1	126.1	93.4	499,678.61	771,188.79	32° 22' 14.419 N	103° 27' 17.923 W
5,100.0	2.99	72.84	5,093.0	128.0	98.5	499,680.49	771,193.90	32° 22' 14.438 N	103° 27' 17.863 W
5,200.0	2.71	86.30	5,192.9	128.9	103.4	499,681.42	771,198.75	32° 22' 14.446 N	103° 27' 17.807 W
5,300.0	3.43	95.13	5,292.7	128.8	108.7	499,681.30	771,204.09	32° 22' 14.445 N	103° 27' 17.744 W
5,400.0	3.99	103.29	5,392.5	127.7	115.1	499,680.23	771,210.46	32° 22' 14.434 N	103° 27' 17.670 W
5,500.0	3.18	102.92	5,492.3	126.3	121.1	499,678.81	771,216.55	32° 22' 14.419 N	103° 27' 17.599 W
5,600.0	2.32	93.63	5,592.2	125.6	125.9	499,678.07	771,221.27	32° 22' 14.411 N	103° 27' 17.544 W
5,700.0	1.31	91.19	5,692.2	125.4	129.0	499,677.91	771,224.43	32° 22' 14.410 N	103° 27' 17.508 W
5,800.0	1.24	87.58	5,792.1	125.4	131.3	499,677.94	771,226.66	32° 22' 14.410 N	103° 27' 17.482 W
5,900.0	0.51	25.51	5,892.1	125.9	132.5	499,678.38	771,227.93	32° 22' 14.414 N	103° 27' 17.467 W
6,000.0	0.17	39.61	5,992.1	126.4	132.8	499,678.90	771,228.22	32° 22' 14.419 N	103° 27' 17.463 W
6,100.0	0.20	345.72	6,092.1	126.7	132.9	499,679.18	771,228.27	32° 22' 14.422 N	103° 27' 17.463 W
6,200.0	0.19	258.78	6,192.1	126.8	132.7	499,679.32	771,228.06	32° 22' 14.423 N	103° 27' 17.465 W
6,300.0	0.19	179.24	6,292.1	126.6	132.5	499,679.12	771,227.90	32° 22' 14.421 N	103° 27' 17.467 W
6,400.0	0.51	203.42	6,392.1	126.1	132.3	499,678.55	771,227.73	32° 22' 14.416 N	103° 27' 17.469 W
6,500.0	0.34	164.13	6,492.1	125.4	132.2	499,677.85	771,227.63	32° 22' 14.409 N	103° 27' 17.470 W

Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Perro Loco 22 B30B Federal #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3440.0usft (Patterson #75)
Site:	Sec 22, T22S, R34E	MD Reference:	Well @ 3440.0usft (Patterson #75)
Well:	Perro Loco 22 B30B Federal #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.0	0.24	170.81	6,592.1	124.9	132.3	499,677.36	771,227.75	32° 22' 14.404 N	103° 27' 17.469 W
6,700.0	0.29	61.02	6,692.1	124.8	132.6	499,677.28	771,228.00	32° 22' 14.403 N	103° 27' 17.466 W
6,800.0	0.20	58.07	6,792.1	125.0	133.0	499,677.49	771,228.37	32° 22' 14.405 N	103° 27' 17.462 W
6,900.0	0.07	269.76	6,892.1	125.1	133.1	499,677.58	771,228.46	32° 22' 14.406 N	103° 27' 17.461 W
7,000.0	0.17	299.08	6,992.1	125.2	132.9	499,677.66	771,228.27	32° 22' 14.407 N	103° 27' 17.463 W
7,100.0	0.12	247.92	7,092.1	125.2	132.6	499,677.69	771,228.04	32° 22' 14.407 N	103° 27' 17.466 W
7,200.0	0.28	55.50	7,192.1	125.3	132.7	499,677.79	771,228.14	32° 22' 14.408 N	103° 27' 17.464 W
7,300.0	0.13	163.74	7,292.1	125.3	133.0	499,677.82	771,228.38	32° 22' 14.408 N	103° 27' 17.462 W
7,400.0	0.15	356.56	7,392.1	125.3	133.0	499,677.84	771,228.40	32° 22' 14.409 N	103° 27' 17.461 W
7,500.0	0.09	336.75	7,492.1	125.5	133.0	499,678.04	771,228.36	32° 22' 14.411 N	103° 27' 17.462 W
7,600.0	0.26	177.02	7,592.1	125.4	132.9	499,677.89	771,228.34	32° 22' 14.409 N	103° 27' 17.462 W
7,700.0	0.22	207.00	7,692.1	125.0	132.9	499,677.49	771,228.27	32° 22' 14.405 N	103° 27' 17.463 W
7,800.0	0.18	236.22	7,792.1	124.7	132.7	499,677.23	771,228.05	32° 22' 14.403 N	103° 27' 17.466 W
7,900.0	0.16	232.06	7,892.1	124.6	132.4	499,677.06	771,227.81	32° 22' 14.401 N	103° 27' 17.468 W
8,000.0	0.14	158.80	7,992.1	124.4	132.3	499,676.86	771,227.74	32° 22' 14.399 N	103° 27' 17.469 W
8,100.0	0.13	174.06	8,092.1	124.1	132.4	499,676.63	771,227.80	32° 22' 14.397 N	103° 27' 17.468 W
8,200.0	0.26	204.61	8,192.1	123.8	132.3	499,676.31	771,227.72	32° 22' 14.394 N	103° 27' 17.469 W
8,300.0	0.30	164.01	8,292.1	123.4	132.3	499,675.85	771,227.69	32° 22' 14.389 N	103° 27' 17.470 W
8,400.0	0.07	99.29	8,392.1	123.1	132.4	499,675.59	771,227.83	32° 22' 14.386 N	103° 27' 17.468 W
8,500.0	0.03	14.00	8,492.1	123.1	132.5	499,675.61	771,227.89	32° 22' 14.387 N	103° 27' 17.467 W
8,600.0	0.10	178.76	8,592.1	123.1	132.5	499,675.55	771,227.90	32° 22' 14.386 N	103° 27' 17.467 W
8,700.0	0.59	208.28	8,692.1	122.5	132.3	499,675.01	771,227.66	32° 22' 14.381 N	103° 27' 17.470 W
8,800.0	0.29	193.89	8,792.1	121.8	132.0	499,674.31	771,227.36	32° 22' 14.374 N	103° 27' 17.474 W
8,900.0	0.59	227.14	8,892.1	121.2	131.5	499,673.71	771,226.92	32° 22' 14.368 N	103° 27' 17.479 W
9,000.0	0.51	225.50	8,992.1	120.6	130.8	499,673.05	771,226.22	32° 22' 14.361 N	103° 27' 17.487 W
9,100.0	0.45	228.23	9,092.1	120.0	130.2	499,672.48	771,225.61	32° 22' 14.356 N	103° 27' 17.494 W
9,200.0	0.73	214.42	9,192.1	119.2	129.6	499,671.69	771,224.96	32° 22' 14.348 N	103° 27' 17.502 W
9,300.0	0.43	225.39	9,292.1	118.4	128.9	499,670.90	771,224.33	32° 22' 14.340 N	103° 27' 17.509 W
9,400.0	0.47	165.22	9,392.1	117.7	128.8	499,670.24	771,224.17	32° 22' 14.334 N	103° 27' 17.511 W
9,500.0	0.34	195.64	9,492.1	117.1	128.8	499,669.56	771,224.19	32° 22' 14.327 N	103° 27' 17.511 W
9,600.0	1.04	176.65	9,592.1	115.9	128.8	499,668.36	771,224.17	32° 22' 14.315 N	103° 27' 17.512 W
9,700.0	0.87	177.04	9,692.0	114.2	128.9	499,666.70	771,224.26	32° 22' 14.299 N	103° 27' 17.511 W
9,800.0	0.37	69.43	9,792.0	113.6	129.2	499,666.06	771,224.60	32° 22' 14.292 N	103° 27' 17.507 W
9,900.0	0.07	4.84	9,892.0	113.7	129.5	499,666.23	771,224.91	32° 22' 14.294 N	103° 27' 17.503 W
10,000.0	0.20	88.70	9,992.0	113.8	129.7	499,666.30	771,225.09	32° 22' 14.295 N	103° 27' 17.501 W
10,100.0	0.20	47.34	10,092.0	113.9	130.0	499,666.42	771,225.39	32° 22' 14.296 N	103° 27' 17.498 W
10,200.0	0.01	260.85	10,192.0	114.0	130.1	499,666.53	771,225.51	32° 22' 14.297 N	103° 27' 17.496 W
10,300.0	0.24	198.96	10,292.0	113.8	130.0	499,666.33	771,225.43	32° 22' 14.295 N	103° 27' 17.497 W
10,400.0	0.50	143.33	10,392.0	113.3	130.2	499,665.79	771,225.63	32° 22' 14.290 N	103° 27' 17.495 W
10,500.0	0.50	137.32	10,492.0	112.6	130.8	499,665.12	771,226.18	32° 22' 14.283 N	103° 27' 17.488 W
10,563.0	0.46	175.96	10,555.0	112.2	131.0	499,664.66	771,226.39	32° 22' 14.278 N	103° 27' 17.486 W
Tie In @ 10563' MD / 10555' TVD									
10,587.0	1.40	307.80	10,579.0	112.3	130.8	499,664.75	771,226.16	32° 22' 14.279 N	103° 27' 17.489 W
10,619.0	4.80	318.50	10,611.0	113.5	129.6	499,665.99	771,224.97	32° 22' 14.292 N	103° 27' 17.503 W
10,650.0	7.80	326.20	10,641.8	116.2	127.5	499,668.71	771,222.94	32° 22' 14.319 N	103° 27' 17.526 W
10,682.0	9.90	333.60	10,673.4	120.5	125.1	499,672.98	771,220.50	32° 22' 14.361 N	103° 27' 17.554 W
10,713.0	12.00	333.60	10,703.8	125.8	122.5	499,678.25	771,217.89	32° 22' 14.413 N	103° 27' 17.584 W
10,745.0	14.70	330.40	10,735.0	132.3	119.0	499,684.76	771,214.40	32° 22' 14.478 N	103° 27' 17.624 W
10,777.0	17.30	328.50	10,765.7	139.9	114.5	499,692.35	771,209.91	32° 22' 14.554 N	103° 27' 17.676 W
10,801.3	19.41	326.48	10,788.8	146.3	110.4	499,698.80	771,205.79	32° 22' 14.618 N	103° 27' 17.723 W
Crossed 330' Hard Line @ 10801' MD / 10789' TVD									
10,808.0	20.00	326.00	10,795.1	148.2	109.1	499,700.68	771,204.53	32° 22' 14.636 N	103° 27' 17.737 W
10,840.0	23.30	323.90	10,824.8	157.8	102.3	499,710.33	771,197.74	32° 22' 14.733 N	103° 27' 17.816 W
10,872.0	24.90	323.60	10,854.1	168.4	94.6	499,720.87	771,190.02	32° 22' 14.837 N	103° 27' 17.905 W
10,904.0	27.10	324.30	10,882.8	179.7	86.4	499,732.21	771,181.76	32° 22' 14.950 N	103° 27' 18.000 W

Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Perro Loco 22 B30B Federal #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3440.0usft (Patterson #75)
Site:	Sec 22, T22S, R34E	MD Reference:	Well @ 3440.0usft (Patterson #75)
Well:	Perro Loco 22 B30B Federal #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,936.0	28.00	323.80	10,911.2	191.7	77.7	499,744.19	771,173.07	32° 22' 15.070 N	103° 27' 18.100 W
10,967.0	30.50	328.00	10,938.2	204.2	69.2	499,756.74	771,164.61	32° 22' 15.194 N	103° 27' 18.198 W
10,999.0	35.30	326.00	10,965.1	218.8	59.7	499,771.30	771,155.13	32° 22' 15.339 N	103° 27' 18.307 W
11,031.0	40.20	324.80	10,990.4	234.9	48.6	499,787.41	771,144.00	32° 22' 15.500 N	103° 27' 18.435 W
11,062.0	44.90	324.50	11,013.2	252.0	36.5	499,804.50	771,131.87	32° 22' 15.670 N	103° 27' 18.575 W
11,093.0	49.70	327.50	11,034.2	270.9	23.8	499,823.40	771,119.15	32° 22' 15.858 N	103° 27' 18.721 W
11,125.0	53.90	330.30	11,054.0	292.4	10.8	499,844.93	771,106.19	32° 22' 16.072 N	103° 27' 18.870 W
11,157.0	58.00	333.60	11,071.9	315.8	-1.7	499,868.33	771,093.74	32° 22' 16.304 N	103° 27' 19.013 W
11,188.0	62.30	337.60	11,087.4	340.3	-12.7	499,892.81	771,082.66	32° 22' 16.548 N	103° 27' 19.140 W
11,219.0	66.70	340.30	11,100.7	366.4	-22.8	499,918.91	771,072.62	32° 22' 16.807 N	103° 27' 19.255 W
11,251.0	69.80	346.30	11,112.6	394.9	-31.3	499,947.37	771,064.10	32° 22' 17.089 N	103° 27' 19.351 W
11,283.0	72.60	350.60	11,122.9	424.5	-37.3	499,977.04	771,058.05	32° 22' 17.383 N	103° 27' 19.419 W
11,314.0	74.70	353.60	11,131.6	454.0	-41.4	500,006.50	771,053.97	32° 22' 17.675 N	103° 27' 19.464 W
11,346.0	76.90	357.70	11,139.5	484.9	-43.8	500,037.42	771,051.62	32° 22' 17.981 N	103° 27' 19.488 W
11,378.0	81.60	359.60	11,145.4	516.3	-44.5	500,068.84	771,050.88	32° 22' 18.292 N	103° 27' 19.494 W
11,468.0	90.00	2.60	11,152.0	606.0	-42.8	500,158.49	771,052.62	32° 22' 19.179 N	103° 27' 19.465 W
11,500.0	89.60	2.10	11,152.1	638.0	-41.5	500,190.46	771,053.93	32° 22' 19.495 N	103° 27' 19.446 W
11,531.0	89.80	1.70	11,152.3	669.0	-40.4	500,221.45	771,054.96	32° 22' 19.802 N	103° 27' 19.432 W
11,595.0	89.20	2.40	11,152.9	732.9	-38.2	500,285.40	771,057.25	32° 22' 20.434 N	103° 27' 19.399 W
11,658.0	90.00	2.80	11,153.3	795.8	-35.3	500,348.34	771,060.10	32° 22' 21.057 N	103° 27' 19.359 W
11,721.0	89.70	2.60	11,153.5	858.8	-32.3	500,411.26	771,063.07	32° 22' 21.679 N	103° 27' 19.319 W
11,816.0	86.10	3.80	11,157.0	953.5	-27.0	500,506.04	771,068.37	32° 22' 22.617 N	103° 27' 19.248 W
11,879.0	87.00	3.70	11,160.7	1,016.3	-22.9	500,568.79	771,072.48	32° 22' 23.237 N	103° 27' 19.194 W
11,942.0	87.60	2.80	11,163.7	1,079.1	-19.3	500,631.61	771,076.05	32° 22' 23.859 N	103° 27' 19.146 W
12,005.0	88.10	2.10	11,166.1	1,142.0	-16.7	500,694.51	771,078.74	32° 22' 24.481 N	103° 27' 19.109 W
12,069.0	87.80	1.20	11,168.4	1,205.9	-14.8	500,758.44	771,080.58	32° 22' 25.113 N	103° 27' 19.081 W
12,132.0	89.80	1.00	11,169.7	1,268.9	-13.6	500,821.41	771,081.79	32° 22' 25.736 N	103° 27' 19.061 W
12,195.0	91.00	0.50	11,169.2	1,331.9	-12.8	500,884.41	771,082.62	32° 22' 26.359 N	103° 27' 19.046 W
12,259.0	91.70	0.00	11,167.7	1,395.9	-12.5	500,948.39	771,082.89	32° 22' 26.992 N	103° 27' 19.036 W
12,354.0	91.40	1.50	11,165.2	1,490.8	-11.3	501,043.34	771,084.14	32° 22' 27.932 N	103° 27' 19.013 W
12,449.0	89.70	3.50	11,164.3	1,585.7	-7.1	501,138.24	771,088.28	32° 22' 28.871 N	103° 27' 18.955 W
12,480.0	90.00	3.30	11,164.3	1,616.7	-5.3	501,169.18	771,090.12	32° 22' 29.177 N	103° 27' 18.931 W
12,575.0	88.20	4.50	11,165.8	1,711.5	1.2	501,263.95	771,096.58	32° 22' 30.114 N	103° 27' 18.846 W
12,639.0	88.90	4.40	11,167.4	1,775.2	6.1	501,327.73	771,101.54	32° 22' 30.745 N	103° 27' 18.783 W
12,702.0	89.30	3.80	11,168.4	1,838.1	10.7	501,390.56	771,106.05	32° 22' 31.366 N	103° 27' 18.724 W
12,765.0	90.00	3.70	11,168.8	1,900.9	14.8	501,453.43	771,110.17	32° 22' 31.988 N	103° 27' 18.670 W
12,828.0	91.40	3.70	11,168.1	1,963.8	18.8	501,516.29	771,114.23	32° 22' 32.609 N	103° 27' 18.617 W
12,892.0	90.80	4.00	11,166.8	2,027.6	23.1	501,580.13	771,118.53	32° 22' 33.241 N	103° 27' 18.560 W
12,987.0	89.40	3.80	11,166.7	2,122.4	29.6	501,674.91	771,124.99	32° 22' 34.178 N	103° 27' 18.476 W
13,050.0	89.20	4.40	11,167.4	2,185.3	34.1	501,737.74	771,129.49	32° 22' 34.799 N	103° 27' 18.417 W
13,113.0	90.10	4.50	11,167.8	2,248.1	39.0	501,800.55	771,134.38	32° 22' 35.420 N	103° 27' 18.354 W
13,208.0	88.20	4.20	11,169.2	2,342.8	46.2	501,895.26	771,141.59	32° 22' 36.357 N	103° 27' 18.261 W
13,272.0	91.90	4.40	11,169.2	2,406.6	51.0	501,959.07	771,146.39	32° 22' 36.988 N	103° 27' 18.199 W
13,303.0	91.90	4.40	11,168.1	2,437.5	53.4	501,989.96	771,148.76	32° 22' 37.293 N	103° 27' 18.169 W
13,399.0	86.40	4.20	11,169.6	2,533.2	60.6	502,085.65	771,155.96	32° 22' 38.240 N	103° 27' 18.076 W
13,462.0	87.10	3.80	11,173.1	2,595.9	64.9	502,148.39	771,160.34	32° 22' 38.860 N	103° 27' 18.018 W
13,556.0	89.10	2.30	11,176.2	2,689.7	69.9	502,242.20	771,165.34	32° 22' 39.788 N	103° 27' 17.951 W
13,620.0	91.50	3.00	11,175.9	2,753.6	72.9	502,306.13	771,168.30	32° 22' 40.420 N	103° 27' 17.911 W
13,683.0	91.50	2.80	11,174.3	2,816.5	76.1	502,369.02	771,171.49	32° 22' 41.042 N	103° 27' 17.867 W
13,746.0	91.00	3.70	11,172.9	2,879.4	79.7	502,431.91	771,175.06	32° 22' 41.664 N	103° 27' 17.820 W
13,809.0	92.20	3.70	11,171.1	2,942.3	83.7	502,494.75	771,179.12	32° 22' 42.286 N	103° 27' 17.766 W
13,873.0	91.40	3.50	11,169.1	3,006.1	87.7	502,558.59	771,183.14	32° 22' 42.917 N	103° 27' 17.713 W
13,936.0	91.30	3.30	11,167.6	3,069.0	91.5	502,621.46	771,186.87	32° 22' 43.539 N	103° 27' 17.664 W
13,999.0	91.50	3.50	11,166.1	3,131.8	95.2	502,684.33	771,190.61	32° 22' 44.161 N	103° 27' 17.614 W
14,063.0	91.50	2.10	11,164.4	3,195.7	98.3	502,748.23	771,193.73	32° 22' 44.793 N	103° 27' 17.572 W

Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Perro Loco 22 B30B Federal #1H
Project:	Lea County, New Mexico	TVD Reference:	Well @ 3440.0usft (Patterson #75)
Site:	Sec 22, T22S, R34E	MD Reference:	Well @ 3440.0usft (Patterson #75)
Well:	Perro Loco 22 B30B Federal #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,094.0	90.90	1.40	11,163.8	3,226.7	99.3	502,779.21	771,194.68	32° 22' 45.099 N	103° 27' 17.558 W
14,126.0	90.10	1.00	11,163.5	3,258.7	100.0	502,811.20	771,195.35	32° 22' 45.416 N	103° 27' 17.547 W
14,189.0	90.50	0.90	11,163.2	3,321.7	101.0	502,874.19	771,196.39	32° 22' 46.039 N	103° 27' 17.529 W
14,253.0	89.60	1.00	11,163.1	3,385.7	102.1	502,938.18	771,197.46	32° 22' 46.672 N	103° 27' 17.510 W
14,284.0	89.50	0.90	11,163.4	3,416.7	102.6	502,969.18	771,197.97	32° 22' 46.979 N	103° 27' 17.501 W
14,347.0	86.80	359.10	11,165.4	3,479.6	102.6	503,032.14	771,197.97	32° 22' 47.602 N	103° 27' 17.495 W
14,409.0	86.50	358.40	11,169.0	3,541.5	101.2	503,094.02	771,196.62	32° 22' 48.214 N	103° 27' 17.505 W
14,473.0	86.70	358.00	11,172.8	3,605.4	99.2	503,157.87	771,194.61	32° 22' 48.846 N	103° 27' 17.522 W
14,568.0	90.40	356.10	11,175.2	3,700.2	94.3	503,252.69	771,189.73	32° 22' 49.785 N	103° 27' 17.570 W
14,631.0	90.70	355.40	11,174.6	3,763.0	89.7	503,315.52	771,185.06	32° 22' 50.407 N	103° 27' 17.618 W
14,694.0	91.10	355.00	11,173.6	3,825.8	84.4	503,378.29	771,179.79	32° 22' 51.028 N	103° 27' 17.674 W
14,758.0	92.00	356.60	11,171.9	3,889.6	79.7	503,442.09	771,175.10	32° 22' 51.660 N	103° 27' 17.722 W
14,821.0	89.10	356.50	11,171.3	3,952.5	75.9	503,504.97	771,171.31	32° 22' 52.283 N	103° 27' 17.761 W
14,884.0	89.50	356.50	11,172.0	4,015.4	72.1	503,567.84	771,167.46	32° 22' 52.905 N	103° 27' 17.799 W
14,948.0	88.00	355.80	11,173.4	4,079.2	67.8	503,631.68	771,163.17	32° 22' 53.537 N	103° 27' 17.843 W
15,011.0	91.30	355.80	11,173.8	4,142.0	63.2	503,694.50	771,158.56	32° 22' 54.159 N	103° 27' 17.891 W
15,074.0	93.70	355.90	11,171.1	4,204.8	58.6	503,757.27	771,154.00	32° 22' 54.781 N	103° 27' 17.938 W
15,169.0	92.40	357.20	11,166.0	4,299.5	52.9	503,851.96	771,148.29	32° 22' 55.718 N	103° 27' 17.996 W
15,264.0	90.60	358.70	11,163.5	4,394.4	49.5	503,946.86	771,144.90	32° 22' 56.657 N	103° 27' 18.026 W
15,295.0	90.90	358.70	11,163.1	4,425.4	48.8	503,977.85	771,144.19	32° 22' 56.964 N	103° 27' 18.032 W
15,359.0	91.80	359.40	11,161.6	4,489.3	47.7	504,041.83	771,143.13	32° 22' 57.597 N	103° 27' 18.038 W
15,422.0	91.10	359.80	11,160.0	4,552.3	47.3	504,104.80	771,142.69	32° 22' 58.220 N	103° 27' 18.037 W
15,485.0	91.20	359.40	11,158.8	4,615.3	46.9	504,167.79	771,142.25	32° 22' 58.843 N	103° 27' 18.036 W
15,578.0	90.60	358.60	11,157.3	4,708.3	45.2	504,260.76	771,140.63	32° 22' 59.764 N	103° 27' 18.046 W
15,630.0	90.60	358.60	11,156.8	4,760.2	44.0	504,312.74	771,139.36	32° 23' 0.278 N	103° 27' 18.056 W

TD @ 15630' MD / 11157' TVD

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
10,563.0	10,555.0	112.2	131.0	Tie In @ 10563' MD / 10555' TVD
10,801.3	10,788.8	146.3	110.4	Crossed 330' Hard Line @ 10801' MD / 10789' TVD
15,630.0	11,156.8	4,760.2	44.0	TD @ 15630' MD / 11157' TVD

Checked By: _____ Approved By: _____ Date: _____