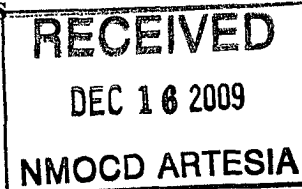


District II

1301 W. Grand Ave., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Permit 107014

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1 Operator Name and Address MEWBOURNE OIL CO PO BOX 5270 HOBBS, NM 88241		2 OGRID Number 14744
		3 API Number 30-015-37482
4 Property Code 37977	5 Property Name FOUR MILE DRAW 21 ST COM	6 Well No 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	21	18S	23E	M	720	S	700	W	EDDY

8. Pool Information

FOUR MILE DRAW; WOLFCAMP(G)	97415
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Additional Well Information

9 Work Type New Well	10 Well Type Oil Gas	11 Cable/Rotary	12 Lease Type State /	13 Ground Level Elevation 3999
14 Multiple N	15 Proposed Depth 8250	16 Formation Wolfcamp	17 Contractor	18 Spud Date 1/1/2010
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit ☐ Liner Synthetic ☐ Closed Loop System ☐ mls thick Clay ☐ Pit Volume bbls Drilling Method Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1400	650	0
Int1	8.75	7	26	4850	700	0
Prod	6.125	4.5	11.6	8250	0	0

Casing/Cement Program: Additional Comments

MOC proposes to drill & test the Wolfcamp/Abo formation. H2S rule 118 does not apply because MOC has researched this area & no high concentrations were found. Will have on location & working all H2S safety equipment before drilling below the surface casing for safety & insurance purposes. If commercial, a production liner will be run & will utilize a packer/port system. No cmt is required. Will stimulate as needed for production.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	Schaffer
DoubleRam	3000	3000	Schaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief
I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

OIL CONSERVATION DIVISION

Printed Name: Jackie Lathan
Title: Hobbs Regulatory
Email Address: jlathan@mewbourne.com
Date: 12/18/09 Phone: 575-393-5905

Approved By:

Title:

Approved Date: 1/11/2010 Expiration Date: 1/11/2012

District I

1625 N French Dr , Hobbs, NM 88240

District II

1301 W Grand Ave , Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

District IV

1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
 Permit 107014

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-37482	2 Pool Code 97415	3 Pool Name FOUR MILE DRAW; WOLFCAMP(G)
4 Property Code 37977	5 Property Name FOUR MILE DRAW 21 ST COM	6 Well No 001H
7 OGRID No 14744	8 Operator Name MEWBOURNE OIL CO	9 Elevation 3999

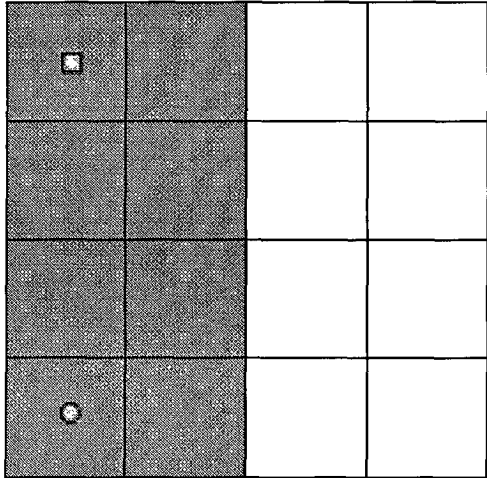
10. Surface Location

UL - Lot M	Section 21	Township 18S	Range 23E	Lot Idn	Feet From 720	N/S Line S	Feet From 700	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot D	Section 21	Township 18S	Range 23E	Lot Idn	Feet From 660	N/S Line N	Feet From 700	E/W Line W	County EDDY
12 Dedicated Acres 320.00		13 Joint or Infill		14 Consolidation Code		15 Order No			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: Title: Date: SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i> Surveyed By: Gary Jones Date of Survey: 10/2/2009 Certificate Number: 7977
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Permit Comments

Operator: MEWBOURNE OIL CO , 14744

Well: FOUR MILE DRAW 21 ST COM #001H

API:

Created By	Comment	Comment Date
NMYOUNG	Mud Program: 0-1400' FW/spud mud w/lime for pH control & LCM. 1400' - 4500' FW w/lime for pH. 4500' - TD cut brine & polymer w/caustic for pH.	12/18/2009

Planned Wellpath Report

Plan #2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Four) Sec 21, T18S, R23E	Wellbore	No. 1H PWB
Facility	Four Mile Draw 21 State Com #1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999924	Report Generated	12/4/2009 at 5:10:52 PM
Convergence at slot	0.20° West	Database/Source file	WA_Midland/No. 1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	386589.78	628744.23	32°43'40.697"N	104°42'07.637"W
Facility Reference Pt			386589.78	628744.23	32°43'40.697"N	104°42'07.637"W
Field Reference Pt			386589.78	628744.23	32°43'40.697"N	104°42'07.637"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig Patterson 47 on No. 1H SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Rig Patterson 47 on No. 1H SHL (RT) to Mean Sea Level	4017.00ft
Vertical Reference Pt	Rig Patterson 47 on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig Patterson 47 on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	1.37°

Planned Wellpath Report

 Mewbourne Oil Company

Plan #2
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**BAKER
HUGHES**

INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Four) Sec 21, T18S, R23E	Wellbore	No. 1H PWB
Facility	Four Mile Draw 21 State Com #1H		

WELLPATH DATA (85 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
0.00	0.000	1.374	0.00	0.00	0.00	0.00	386589.78	628744.23	0.00	Tie On
100.00†	0.000	1.374	100.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
200.00†	0.000	1.374	200.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
300.00†	0.000	1.374	300.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
400.00†	0.000	1.374	400.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
500.00†	0.000	1.374	500.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
600.00†	0.000	1.374	600.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
700.00†	0.000	1.374	700.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
800.00†	0.000	1.374	800.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
900.00†	0.000	1.374	900.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1000.00†	0.000	1.374	1000.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1100.00†	0.000	1.374	1100.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1200.00†	0.000	1.374	1200.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1300.00†	0.000	1.374	1300.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1400.00†	0.000	1.374	1400.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1500.00†	0.000	1.374	1500.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1600.00†	0.000	1.374	1600.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1700.00†	0.000	1.374	1700.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1800.00†	0.000	1.374	1800.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
1900.00†	0.000	1.374	1900.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2000.00†	0.000	1.374	2000.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2100.00†	0.000	1.374	2100.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2200.00†	0.000	1.374	2200.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2300.00†	0.000	1.374	2300.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2400.00†	0.000	1.374	2400.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2500.00†	0.000	1.374	2500.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2600.00†	0.000	1.374	2600.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2700.00†	0.000	1.374	2700.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2800.00†	0.000	1.374	2800.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
2900.00†	0.000	1.374	2900.00	0.00	0.00	0.00	386589.78	628744.23	0.00	

Planned Wellpath Report

Mewbourne Oil Company

Plan #2
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**BAKER
HUGHES**

INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Four) Sec 21, T18S, R23E	Wellbore	No. 1H PWB
Facility	Four Mile Draw 21 State Com #1H		

WELLPATH DATA (85 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
3000.00†	0.000	1.374	3000.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3100.00†	0.000	1.374	3100.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3200.00†	0.000	1.374	3200.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3300.00†	0.000	1.374	3300.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3400.00†	0.000	1.374	3400.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3500.00†	0.000	1.374	3500.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3600.00†	0.000	1.374	3600.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3700.00†	0.000	1.374	3700.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3800.00†	0.000	1.374	3800.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3900.00†	0.000	1.374	3900.00	0.00	0.00	0.00	386589.78	628744.23	0.00	
3951.05	0.000	1.374	3951.05	0.00	0.00	0.00	386589.78	628744.23	0.00	EST. KOP
4000.00†	4.895	1.374	3999.94	2.09	2.09	0.05	386589.83	628746.32	10.00	
4100.00†	14.895	1.374	4098.33	19.25	19.25	0.46	386590.24	628763.48	10.00	
4200.00†	24.895	1.374	4192.24	53.24	53.22	1.28	386591.06	628797.45	10.00	
4300.00†	34.895	1.374	4278.82	103.02	102.99	2.47	386592.25	628847.21	10.00	
4400.00†	44.895	1.374	4355.45	167.07	167.03	4.01	386593.79	628911.24	10.00	
4500.00†	54.895	1.374	4419.79	243.46	243.39	5.84	386595.62	628987.60	10.00	
4600.00†	64.895	1.374	4469.88	329.86	329.77	7.91	386597.69	629073.97	10.00	
4700.00†	74.895	1.374	4504.21	423.65	423.53	10.16	386599.94	629167.73	10.00	
4800.00†	84.895	1.374	4521.74	521.98	521.83	12.51	386602.29	629266.01	10.00	
4853.62	90.257	1.374	4524.00	575.53	575.36	13.80	386603.58	629319.55	10.00	END OF CURVE
4900.00†	90.257	1.374	4523.79	621.91	621.73	14.91	386604.69	629365.91	0.00	
5000.00†	90.257	1.374	4523.35	721.91	721.70	17.31	386607.09	629465.87	0.00	
5100.00†	90.257	1.374	4522.90	821.91	821.67	19.70	386609.48	629565.83	0.00	
5200.00†	90.257	1.374	4522.45	921.90	921.64	22.10	386611.88	629665.80	0.00	
5300.00†	90.257	1.374	4522.00	1021.90	1021.61	24.50	386614.28	629765.76	0.00	
5400.00†	90.257	1.374	4521.55	1121.90	1121.58	26.90	386616.67	629865.72	0.00	
5500.00†	90.257	1.374	4521.10	1221.90	1221.55	29.29	386619.07	629965.68	0.00	
5600.00†	90.257	1.374	4520.65	1321.90	1321.52	31.69	386621.47	630065.65	0.00	
5700.00†	90.257	1.374	4520.20	1421.90	1421.49	34.09	386623.87	630165.61	0.00	

Planned Wellpath Report

Plan #2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Four) Sec 21, T18S, R23E	Wellbore	No. 1H PWB
Facility	Four Mile Draw 21 State Com #1H		

WELLPATH DATA (85 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]	Comments
5800.00†	90.257	1.374	4519.76	1521.90	1521.46	36.49	386626.26	630265.57	0.00	
5900.00†	90.257	1.374	4519.31	1621.90	1621.43	38.88	386628.66	630365.53	0.00	
6000.00†	90.257	1.374	4518.86	1721.90	1721.40	41.28	386631.06	630465.50	0.00	
6100.00†	90.257	1.374	4518.41	1821.90	1821.37	43.68	386633.46	630565.46	0.00	
6200.00†	90.257	1.374	4517.96	1921.89	1921.34	46.08	386635.85	630665.42	0.00	
6300.00†	90.257	1.374	4517.51	2021.89	2021.31	48.47	386638.25	630765.38	0.00	
6400.00†	90.257	1.374	4517.06	2121.89	2121.28	50.87	386640.65	630865.35	0.00	
6500.00†	90.257	1.374	4516.62	2221.89	2221.25	53.27	386643.04	630965.31	0.00	
6600.00†	90.257	1.374	4516.17	2321.89	2321.22	55.67	386645.44	631065.27	0.00	
6700.00†	90.257	1.374	4515.72	2421.89	2421.19	58.06	386647.84	631165.23	0.00	
6800.00†	90.257	1.374	4515.27	2521.89	2521.16	60.46	386650.24	631265.20	0.00	
6900.00†	90.257	1.374	4514.82	2621.89	2621.13	62.86	386652.63	631365.16	0.00	
7000.00†	90.257	1.374	4514.37	2721.89	2721.10	65.26	386655.03	631465.12	0.00	
7100.00†	90.257	1.374	4513.92	2821.89	2821.07	67.65	386657.43	631565.08	0.00	
7200.00†	90.257	1.374	4513.47	2921.88	2921.04	70.05	386659.82	631665.05	0.00	
7300.00†	90.257	1.374	4513.03	3021.88	3021.01	72.45	386662.22	631765.01	0.00	
7400.00†	90.257	1.374	4512.58	3121.88	3120.98	74.85	386664.62	631864.97	0.00	
7500.00†	90.257	1.374	4512.13	3221.88	3220.96	77.24	386667.02	631964.93	0.00	
7600.00†	90.257	1.374	4511.68	3321.88	3320.93	79.64	386669.41	632064.90	0.00	
7700.00†	90.257	1.374	4511.23	3421.88	3420.90	82.04	386671.81	632164.86	0.00	
7800.00†	90.257	1.374	4510.78	3521.88	3520.87	84.43	386674.21	632264.82	0.00	
7900.00†	90.257	1.374	4510.33	3621.88	3620.84	86.83	386676.61	632364.78	0.00	
8000.00†	90.257	1.374	4509.89	3721.88	3720.81	89.23	386679.00	632464.75	0.00	
8100.00†	90.257	1.374	4509.44	3821.88	3820.78	91.63	386681.40	632564.71	0.00	
8197.33	90.257	1.374	4509.00 ¹	3919.21	3918.08	93.96	386683.73	632662.00	0.00	No. 1H PBHL

Planned Wellpath Report

Plan #2
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Four) Sec 21, T18S, R23E	Wellbore	No. 1H PWB
Facility	Four Mile Draw 21 State Com #1H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	8197.33	4509.00	3918.08	93.96	386683.73	632662.00	32°44'19.468"N	104°42'06.696"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	8197.33	NaviTrak (Standard)		No. 1H PWB