

8-17-12 DATE IN	NA SUSPENSE	DB ENGINEER	8-17-12 LOGGED IN	NSL TYPE	PD/B1223050928 APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



Memorandum
Querecho 28 MD Fed #1
6672

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

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[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce

Print or Type Name

Signature

Attorney

Title

Date

jamesbruc@aol.com

e-mail Address

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

August 17, 2012

David Brooks
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Brooks:

Pursuant to NMAC 19.15.15.13, Mewbourne Oil Company applies for approval of an unorthodox oil well location for the following well:

<u>Well:</u>	Querecho 28 MD Fed. Well No. 1
<u>Surface location:</u>	80 feet FSL & 1310 feet FWL
<u>Bottom hole location:</u>	330 feet FNL & 360 feet FWL
<u>Well unit (project area):</u>	W $\frac{1}{2}$ W $\frac{1}{2}$ of Section 28, Township 18 South, Range 32 East, N.M.P.M., Lea County, New Mexico

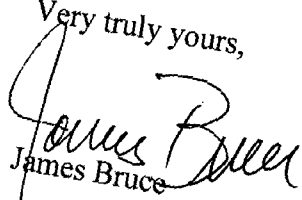
The target zone of the well is the Second Bone Spring Sand interval of the Bone Spring formation. The formation is spaced on statewide rules, with 40 acre spacing, and wells to be located no closer than 330 feet to a quarter-quarter section line. An APD, with a C-102, is attached as *Exhibit A*. **The beginning of the producing interval in the Second Bone Spring Sand interval will be 547 feet FSL & 1215 feet FWL.** *Exhibit B*.

Applicant originally staked the well at an orthodox location 330 feet FSL & 380 feet FWL of Section 28, but the BLM required the well to be moved to the requested location due to sand dunes and prairie chicken habitat.

The location encroaches on the E $\frac{1}{2}$ W $\frac{1}{2}$ of Section 28. *Exhibit C*. That tract is subject to Federal Lease NM 113412. *Exhibit D*. That lease is owned 100% by applicant, and the only royalty owner is the federal government. (The W $\frac{1}{2}$ W $\frac{1}{2}$ well unit is also comprised solely of federal lands.) Therefore, notice has not been given to anyone.

Please contact me if you need any further information on this application.

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

5. Lease Serial No.
NM 9020

6. If Indian, Allottee or Tribe Name:

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator: Mewbourne Oil Company

3a. Address: PO Box 5270
Hobbs, NM 88240

3b. Phone No. (include area code)
(575) 393-5905

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
Querecho "28" MD Fed #1H

9. API Well No.

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface: 80' FSL & 1310' FWL (Unit M)

At proposed prod. zone: 330' FNL & 360' FWL (Unit D)

10. Field and Pool, or Exploratory
Querecho Plains Bone Spring

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 28, T18S, R32E

14. Distance in miles and direction from nearest town or post office*
37.4 miles West of Hobbs, NM

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any)
80'

16. No. of acres in lease
320

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
320' East of the Scott E Fed #1

19. Proposed Depth
14129' MD
9376' TVD

20. BLM/BIA Bond No. on file
NM 1693, Nationwide

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3711' GL

22. Approximate date work will start*
08/15/2012

23. Estimated duration
40 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

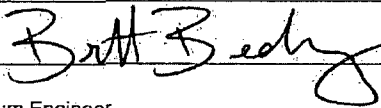
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature



Name (Printed/Typed)
Brett Bednarz

Date
04/09/2012

Title

Petroleum Engineer

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

EXHIBIT

A

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1820 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised October 15, 2009

Submit one copy to appropriate
District Office.

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 50480	Pool Name Querecho Plains Bone Spring
Property Code 50510	Property Name QUERECHO 28, MD FEDERAL	Well Number 1H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3711'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	18 S	32 E		80	SOUTH	1310	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	18 S	32 E		330	North	360	West	Lea

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

Project Area Producing Area Well Path BHL SL SURFACE LOCATION Lat - N 32°42'40.87" Long - W 103°46'30.45" NMSRCE - N 622952.859 E 671693.162 (NAD-27)	OPERATOR CERTIFICATION 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 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>Brett Bednarz</i> 4-9-12 Signature Date Brett Bednarz Printed Name SURVEYOR CERTIFICATION 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. MARCH 20, 2012 Date Surveyed Signature of Professional Surveyor GARY L. JONES Certificate No. 7977 BASIN SURVEYS
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Drilling Program
Mewbourne Oil Company
 Querecho "28" MD Fed #1H
 80' FSL & 1310' FWL (SHL)
 Sec 28-T18S-R32E
 Lea County, New Mexico

1. The estimated tops of geological markers are as follows:

Rustler	1125'
Top of Salt	1290'
Base of Salt	2490'
Yates	2725'
Seven Rivers	3180'
*Queen	3780'
*Grayburg	3970'
*Delaware	4575'
*Bone Springs	6960'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated @ 325' and will be protected by setting surface casing at 1150' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP annular BOP will be installed after running 13 3/4" casing. A 3000# WP double ram BOP and 3000# WP annular will be installed after running 9 5/8" and 7" casing strings. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 9 5/8" and 7" BOPE to 3000# and Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. Drilling Program:

MOC proposes to drill a vertical wellbore to 8889' & kick off to horizontal @ 9366' TVD. The well will be drilled to 14129' MD (9376' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-1150'	ST&C
12 1/4"	9 5/8" (new)	36#	K55	0'-2825'	ST&C
8 3/4"	7" (new)	26#	P110	0-8889' MD	LT&C
8 3/4"	7" (new)	26#	P110	8889'-9637' MD	BT&C
6 1/8"	4 1/2" (new)	11.63	P110	9437'-14129' MD	LT&C



Mewbourne Oil Company

Mewbourne Oil Company

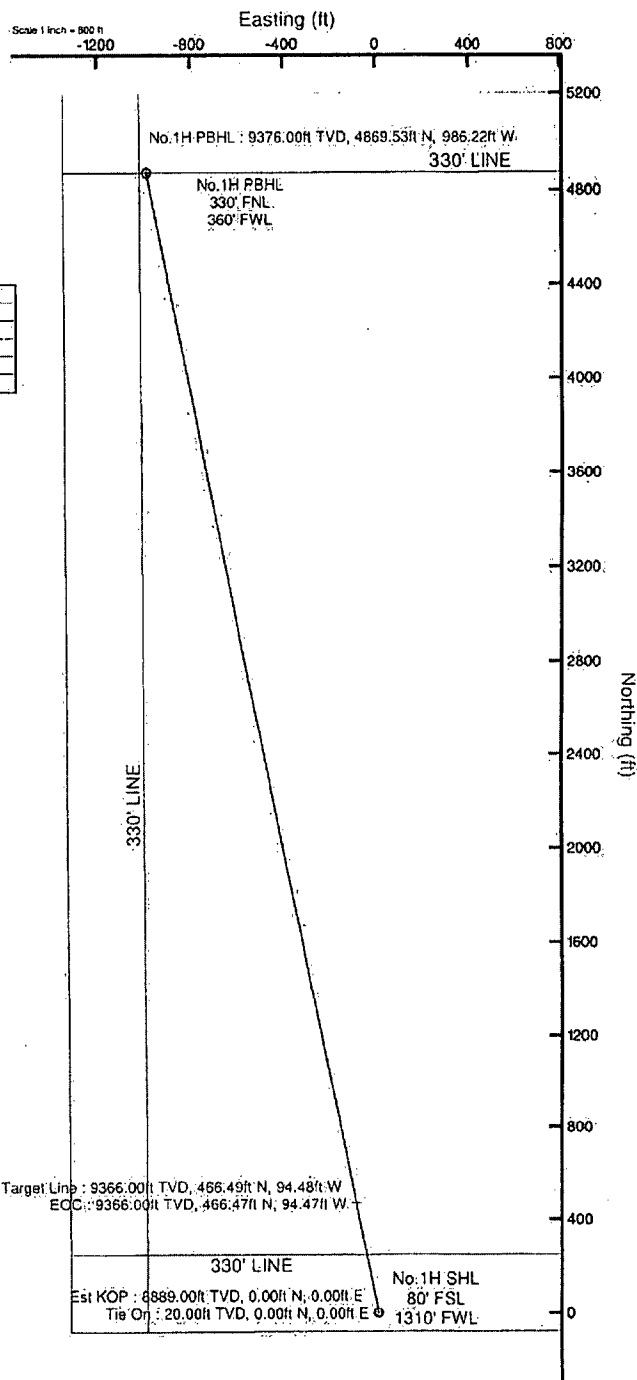
Location: Lea County, NM
Field: (Querocho) Sec 28, T18S, R32E
Facility: Quercho 28 MD Federal No.1H

Slot: No.1H SHL
Well: No.1H
Wellbore: No.1H.PWB

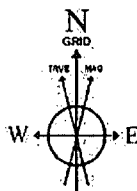


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	20.00	0.000	348.551	20.00	0.00	0.00	0.00	0.00
Est KOP	8889.00	0.000	348.551	8889.00	0.00	0.00	0.00	0.00
EOC	9637.21	89.872	348.551	9366.00	466.47	-94.47	12.01	475.94
Target Line	9637.23	89.872	348.551	9366.00	466.49	-94.48	2.00	475.96
No.1H PBHL	14129.67	89.872	348.551	9376.00	4669.53	-986.22	0.00	4968.39



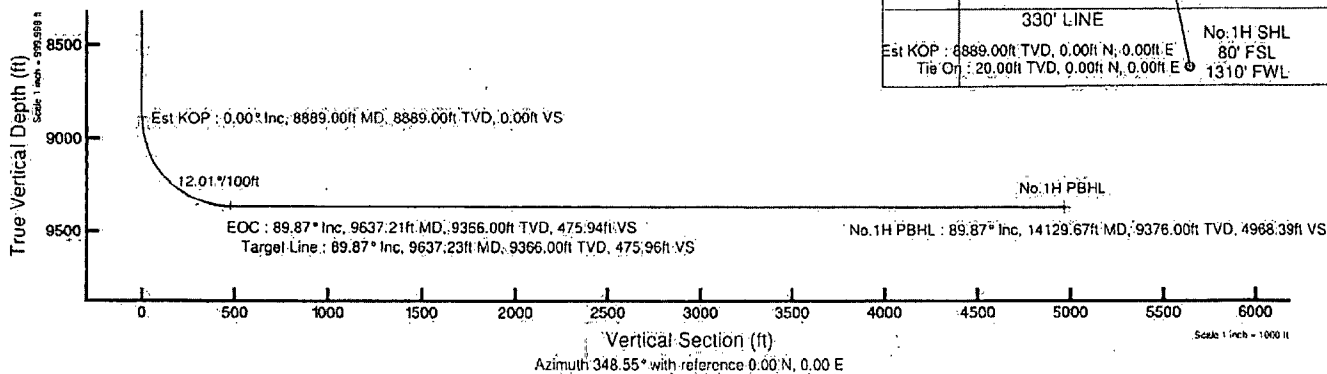
Plot reference wellpath is Prev-A-D	
True vertical depths are referenced to Rig on No.1H SHL (KB)	Grid System: NAD27 / TM New Mexico SP Eastern Zone (3091), US feet
Measured depths are referenced to Rig on No.1H SHL (KB)	North Reference: Grid north
Rig on No.1H SHL (KB) to Mean Sea Level: 3731 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.1H SHL): -3711 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: jgentry on 3/27/2012



BGGM (1945.0 to 2013.0) Dip: 60.55° Field: 48812.4 nT
Magnetic North is 7.71 degrees East of True North (at 3/27/2012)
Grid North is 0.30 degrees East of True North
To correct azimuth from True to Grid subtract 0.30 degrees
To correct azimuth from Magnetic to Grid add 7.40 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.40 = 97.40

EXHIBIT

B



Planned Wellpath Report

Rev-A.0
Page 1 of 5

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 28, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 28 MD Federal No.1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999943	Report Generated	3/27/2012 at 1:10:07 PM
Convergence at slot	0.30° East	Database/Source file	WA Midland/No.1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W
Facility Reference Pt			671693.16	622952.86	32°42'40.868"N	103°46'30.454"W
Field Reference Pt			671693.16	622952.86	32°42'40.868"N	103°46'30.454"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.1H SHL (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (KB) to Mean Sea Level	3731.00ft
Vertical Reference Pt	Rig on No.1H SHL (KB)	Rig on No.1H SHL (KB) to Mud Line at Slot (No.1H SHL)	20.00ft
MD Reference Pt	Rig on No.1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	348.55°

Planned Wellpath Report

Mewbourne Oil Company

Rev-A.0
Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 28, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho.28 MD Federal No.1H		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	348.551	0.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
20.00	0.000	348.551	20.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	Tie On
120.00†	0.000	348.551	120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
220.00†	0.000	348.551	220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
320.00†	0.000	348.551	320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
420.00†	0.000	348.551	420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
520.00†	0.000	348.551	520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
620.00†	0.000	348.551	620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
720.00†	0.000	348.551	720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
820.00†	0.000	348.551	820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
920.00†	0.000	348.551	920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1020.00†	0.000	348.551	1020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1120.00†	0.000	348.551	1120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1220.00†	0.000	348.551	1220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1320.00†	0.000	348.551	1320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1420.00†	0.000	348.551	1420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1520.00†	0.000	348.551	1520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1620.00†	0.000	348.551	1620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1720.00†	0.000	348.551	1720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1820.00†	0.000	348.551	1820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
1920.00†	0.000	348.551	1920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2020.00†	0.000	348.551	2020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2120.00†	0.000	348.551	2120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2220.00†	0.000	348.551	2220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2320.00†	0.000	348.551	2320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2420.00†	0.000	348.551	2420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2520.00†	0.000	348.551	2520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2620.00†	0.000	348.551	2620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2720.00†	0.000	348.551	2720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2820.00†	0.000	348.551	2820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
2920.00†	0.000	348.551	2920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3020.00†	0.000	348.551	3020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3120.00†	0.000	348.551	3120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3220.00†	0.000	348.551	3220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3320.00†	0.000	348.551	3320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3420.00†	0.000	348.551	3420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3520.00†	0.000	348.551	3520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3620.00†	0.000	348.551	3620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3720.00†	0.000	348.551	3720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3820.00†	0.000	348.551	3820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
3920.00†	0.000	348.551	3920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4020.00†	0.000	348.551	4020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4120.00†	0.000	348.551	4120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4220.00†	0.000	348.551	4220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4320.00†	0.000	348.551	4320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 28, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 28 MD Federal No.1H		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4420.00†	0.000	348.551	4420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4520.00†	0.000	348.551	4520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4620.00†	0.000	348.551	4620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4720.00†	0.000	348.551	4720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4820.00†	0.000	348.551	4820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
4920.00†	0.000	348.551	4920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5020.00†	0.000	348.551	5020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5120.00†	0.000	348.551	5120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5220.00†	0.000	348.551	5220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5320.00†	0.000	348.551	5320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5420.00†	0.000	348.551	5420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5520.00†	0.000	348.551	5520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5620.00†	0.000	348.551	5620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5720.00†	0.000	348.551	5720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5820.00†	0.000	348.551	5820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
5920.00†	0.000	348.551	5920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6020.00†	0.000	348.551	6020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6120.00†	0.000	348.551	6120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6220.00†	0.000	348.551	6220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6320.00†	0.000	348.551	6320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6420.00†	0.000	348.551	6420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6520.00†	0.000	348.551	6520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6620.00†	0.000	348.551	6620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6720.00†	0.000	348.551	6720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6820.00†	0.000	348.551	6820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
6920.00†	0.000	348.551	6920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7020.00†	0.000	348.551	7020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7120.00†	0.000	348.551	7120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7220.00†	0.000	348.551	7220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7320.00†	0.000	348.551	7320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7420.00†	0.000	348.551	7420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7520.00†	0.000	348.551	7520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7620.00†	0.000	348.551	7620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7720.00†	0.000	348.551	7720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7820.00†	0.000	348.551	7820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
7920.00†	0.000	348.551	7920.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8020.00†	0.000	348.551	8020.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8120.00†	0.000	348.551	8120.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8220.00†	0.000	348.551	8220.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8320.00†	0.000	348.551	8320.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8420.00†	0.000	348.551	8420.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8520.00†	0.000	348.551	8520.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8620.00†	0.000	348.551	8620.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8720.00†	0.000	348.551	8720.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	
8820.00†	0.000	348.551	8820.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H.SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 28, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 28 MD Federal No.1H		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8889.00	0.000	348.551	8889.00	0.00	0.00	0.00	671693.16	622952.86	32°42'40.868"N	103°46'30.454"W	0.00	Est KOP
8920.00†	3.724	348.551	8919.98	1.01	0.99	-0.20	671692.96	622953.85	32°42'40.877"N	103°46'30.457"W	12.01	
9020.00†	15.735	348.551	9018.36	17.88	17.52	-3.55	671689.61	622970.38	32°42'41.041"N	103°46'30.495"W	12.01	
9120.00†	27.747	348.551	9111.08	54.85	53.76	-10.89	671682.27	623006.61	32°42'41.400"N	103°46'30.578"W	12.01	
9220.00†	39.759	348.551	9194.07	110.51	108.11	-21.90	671671.27	623060.97	32°42'41.958"N	103°46'30.704"W	12.01	
9320.00†	51.770	348.551	9263.70	181.83	178.21	-36.09	671657.07	623131.06	32°42'42.633"N	103°46'30.866"W	12.01	
9420.00†	63.782	348.551	9316.93	266.27	260.97	-52.85	671640.31	623213.81	32°42'43.452"N	103°46'31.057"W	12.01	
9520.00†	75.794	348.551	9351.41	359.94	352.78	-71.45	671621.72	623305.61	32°42'44.362"N	103°46'31.269"W	12.01	
9620.00†	87.805	348.551	9365.65	458.73	449.61	-91.06	671602.11	623402.44	32°42'45.321"N	103°46'31.492"W	12.01	
9637.21	89.872	348.551	9366.00	475.94	466.47	-94.47	671598.69	623419.30	32°42'45.488"N	103°46'31.531"W	12.01	EOC
9637.23	89.872	348.551	9366.00	475.96	466.49	-94.48	671598.69	623419.32	32°42'45.488"N	103°46'31.531"W	2.00	Target Line
9720.00†	89.872	348.551	9366.18	558.73	547.61	-110.91	671582.26	623500.44	32°42'46.292"N	103°46'31.718"W	0.00	
9820.00†	89.872	348.551	9366.41	658.73	645.62	-130.76	671562.41	623598.44	32°42'47.262"N	103°46'31.945"W	0.00	
9920.00†	89.872	348.551	9366.63	758.73	743.63	-150.61	671542.56	623696.45	32°42'48.233"N	103°46'32.171"W	0.00	
10020.00†	89.872	348.551	9366.85	858.73	841.64	-170.46	671522.72	623794.45	32°42'49.204"N	103°46'32.397"W	0.00	
10120.00†	89.872	348.551	9367.07	958.73	939.65	-190.30	671502.87	623892.46	32°42'50.175"N	103°46'32.624"W	0.00	
10220.00†	89.872	348.551	9367.30	1058.73	1037.66	-210.15	671483.02	623990.46	32°42'51.146"N	103°46'32.850"W	0.00	
10320.00†	89.872	348.551	9367.52	1158.73	1135.67	-230.00	671463.17	624088.46	32°42'52.116"N	103°46'33.076"W	0.00	
10420.00†	89.872	348.551	9367.74	1258.73	1233.68	-249.85	671443.32	624186.47	32°42'53.087"N	103°46'33.302"W	0.00	
10520.00†	89.872	348.551	9367.97	1358.73	1331.69	-269.70	671423.47	624284.47	32°42'54.058"N	103°46'33.529"W	0.00	
10620.00†	89.872	348.551	9368.19	1458.73	1429.70	-289.55	671403.62	624382.48	32°42'55.029"N	103°46'33.755"W	0.00	
10720.00†	89.872	348.551	9368.41	1558.73	1527.71	-309.40	671383.77	624480.48	32°42'56.000"N	103°46'33.981"W	0.00	
10820.00†	89.872	348.551	9368.63	1658.73	1625.72	-329.25	671363.93	624578.48	32°42'56.970"N	103°46'34.208"W	0.00	
10920.00†	89.872	348.551	9368.86	1758.73	1723.73	-349.10	671344.08	624676.49	32°42'57.941"N	103°46'34.434"W	0.00	
11020.00†	89.872	348.551	9369.08	1858.73	1821.74	-368.95	671324.23	624774.49	32°42'58.912"N	103°46'34.660"W	0.00	
11120.00†	89.872	348.551	9369.30	1958.73	1919.75	-388.80	671304.38	624872.50	32°42'59.883"N	103°46'34.886"W	0.00	
11220.00†	89.872	348.551	9369.52	2058.73	2017.76	-408.65	671284.53	624970.50	32°43'00.854"N	103°46'35.113"W	0.00	
11320.00†	89.872	348.551	9369.75	2158.73	2115.77	-428.50	671264.68	625068.50	32°43'01.824"N	103°46'35.339"W	0.00	
11420.00†	89.872	348.551	9369.97	2258.73	2213.78	-448.35	671244.83	625166.51	32°43'02.795"N	103°46'35.565"W	0.00	
11520.00†	89.872	348.551	9370.19	2358.72	2311.79	-468.20	671224.99	625264.51	32°43'03.766"N	103°46'35.792"W	0.00	
11620.00†	89.872	348.551	9370.41	2458.72	2409.80	-488.05	671205.14	625362.52	32°43'04.737"N	103°46'36.018"W	0.00	
11720.00†	89.872	348.551	9370.64	2558.72	2507.81	-507.90	671185.29	625460.52	32°43'05.708"N	103°46'36.244"W	0.00	
11820.00†	89.872	348.551	9370.86	2658.72	2605.82	-527.75	671165.44	625558.52	32°43'06.678"N	103°46'36.470"W	0.00	
11920.00†	89.872	348.551	9371.08	2758.72	2703.83	-547.60	671145.59	625656.53	32°43'07.649"N	103°46'36.697"W	0.00	
12020.00†	89.872	348.551	9371.30	2858.72	2801.84	-567.45	671125.74	625754.53	32°43'08.620"N	103°46'36.923"W	0.00	
12120.00†	89.872	348.551	9371.53	2958.72	2899.85	-587.30	671105.89	625852.54	32°43'09.591"N	103°46'37.149"W	0.00	
12220.00†	89.872	348.551	9371.75	3058.72	2997.86	-607.15	671086.04	625950.54	32°43'10.562"N	103°46'37.376"W	0.00	
12320.00†	89.872	348.551	9371.97	3158.72	3095.87	-627.00	671066.20	626048.55	32°43'11.532"N	103°46'37.602"W	0.00	
12420.00†	89.872	348.551	9372.19	3258.72	3193.88	-646.85	671046.35	626146.55	32°43'12.503"N	103°46'37.828"W	0.00	
12520.00†	89.872	348.551	9372.42	3358.72	3291.89	-666.70	671026.50	626244.55	32°43'13.474"N	103°46'38.055"W	0.00	
12620.00†	89.872	348.551	9372.64	3458.72	3389.90	-686.55	671006.65	626342.56	32°43'14.445"N	103°46'38.281"W	0.00	
12720.00†	89.872	348.551	9372.86	3558.72	3487.91	-706.40	670986.80	626440.56	32°43'15.416"N	103°46'38.507"W	0.00	
12820.00†	89.872	348.551	9373.08	3658.72	3585.92	-726.25	670966.95	626538.57	32°43'16.386"N	103°46'38.734"W	0.00	
12920.00†	89.872	348.551	9373.31	3758.72	3683.93	-746.10	670947.10	626636.57	32°43'17.357"N	103°46'38.960"W	0.00	
13020.00†	89.872	348.551	9373.53	3858.72	3781.94	-765.95	670927.26	626734.57	32°43'18.328"N	103°46'39.186"W	0.00	

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 28, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 28 MD Federal No.1H		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13120.00†	89.872	348.551	9373.75	3958.72	3879.95	-785.80	670907.41	626832.58	32°43'19.299"N	103°46'39.413"W	0.00	
13220.00†	89.872	348.551	9373.98	4058.72	3977.96	-805.65	670887.56	626930.58	32°43'20.270"N	103°46'39.639"W	0.00	
13320.00†	89.872	348.551	9374.20	4158.72	4075.97	-825.50	670867.71	627028.59	32°43'21.240"N	103°46'39.865"W	0.00	
13420.00†	89.872	348.551	9374.42	4258.72	4173.98	-845.35	670847.86	627126.59	32°43'22.211"N	103°46'40.091"W	0.00	
13520.00†	89.872	348.551	9374.64	4358.72	4271.99	-865.20	670828.01	627224.59	32°43'23.182"N	103°46'40.318"W	0.00	
13620.00†	89.872	348.551	9374.87	4458.72	4370.00	-885.05	670808.16	627322.60	32°43'24.153"N	103°46'40.544"W	0.00	
13720.00†	89.872	348.551	9375.09	4558.72	4468.01	-904.90	670788.31	627420.60	32°43'25.123"N	103°46'40.770"W	0.00	
13820.00†	89.872	348.551	9375.31	4658.72	4566.02	-924.75	670768.47	627518.61	32°43'26.094"N	103°46'40.997"W	0.00	
13920.00†	89.872	348.551	9375.53	4758.72	4664.03	-944.60	670748.62	627616.61	32°43'27.065"N	103°46'41.223"W	0.00	
14020.00†	89.872	348.551	9375.76	4858.72	4762.04	-964.45	670728.77	627714.61	32°43'28.036"N	103°46'41.449"W	0.00	
14120.00†	89.872	348.551	9375.98	4958.72	4860.05	-984.30	670708.92	627812.62	32°43'29.007"N	103°46'41.676"W	0.00	
14129.67	89.872	348.551	9376.00	4968.39	4869.53	-986.22	670707.00	627822.10	32°43'29.101"N	103°46'41.698"W	0.00	No.1H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.1H PBHL	14129.67	9376.00	4869.53	-986.22	670707.00	627822.10	32°43'29.101"N	103°46'41.698"W	point

SURVEY PROGRAM - Ref Wellbore: No.1H PWB Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	14129.67	NaviTrak (Standard)		No.1H PWB

EDDY: East

T
18
S

EXHIBIT

31
MIDLAND
"Hudson" 31 Fed
U.S.

"Mary Nell"

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(MASS) Serial Register Page**

Run Time: 09:39 AM

Page 1 of 1

Run Date: 08/17/2012

01 12-22-1987;101STAT1330;30USC181 ET SE

Total Acres
160.000

Serial Number
NMNM-- 113412

Case Type 312021: O&G LSE COMP PD -1987
Commodity 459: OIL & GAS L

Case Disposition: AUTHORIZED

Serial Number: NMNM-- - 113412

Name & Address			Int Rel	% Interest
MEWBOURNE OIL CO	500 W TEXAS ST #1020	MIDLAND TX 79701	LESSEE	100.0000000

Serial Number: NMNM-- - 113412

Mer Twp Rng Sec	STyp	SNr Suff	Subdivision	District/Field Office	County	Mgmt Agency
23 0180S 0320E 028	ALIQ		E2W2;	CARLSBAD FIELD OFFICE	LEA	BUREAU OF LAND MGMT

Serial Number: NMNM-- - 113412

Act Date	Code	Action	Action Remark	Pending Office
01/18/2005	299	PROTEST FILED		
01/18/2005	387	CASE ESTABLISHED	200501033;	
01/19/2005	143	BONUS BID PAYMENT RECD	\$320.00;	
01/19/2005	191	SALE HELD		
01/19/2005	267	BID RECEIVED	\$212000.00;	
01/24/2005	143	BONUS BID PAYMENT RECD	\$211680.00;	
02/28/2005	237	LEASE ISSUED		
02/28/2005	298	PROTEST DISMISSED		
02/28/2005	974	AUTOMATED RECORD VERIF	LBO	
03/01/2005	496	FUND CODE	05;145003	
03/01/2005	530	RLTY RATE - 12 1/2%		
03/01/2005	868	EFFECTIVE DATE		
03/23/2005	140	ASGN FILED	GONZALES/MEWBOURNE;1	
04/19/2005	139	ASGN APPROVED	EFF 04/01/05;	
04/19/2005	974	AUTOMATED RECORD VERIF	MV	
06/20/2005	963	CASE MICROFILMED		
02/28/2015	763	EXPIRES		

Serial Number: NMNM-- - 113412

Line Nr	Remarks
0002	STIPULATIONS ATTACHED TO LEASE:
0003	NM-11-LN SPECIAL CULTURAL RESOURCE LEASE NOTICE
0004	SENM-S-22 PRAIRIE CHICKENS
0005	SENM-S-23 SAND DUNE LIZARD

EXHIBIT

D