

OCD-HOBBS

AUG 14 2012

RECEIVED

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, 20105 Lease Serial No.
NM 9020

6 If Indian, Allottee or Tribe Name

7 If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
Querecho "28" MD Fed #1H <39399>9. API Well No.
30-025-40731
10. Field and Pool, or Exploratory <41450>
Querecho Plains Bone Spring, NORTH11. Sec., T. R. M. or Blk. and Survey or Area
Sec 28, T18S, R32E12. County or Parish
Lea13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER1b. 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 882403b. Phone No. (include area code)
(575) 393-5905

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)

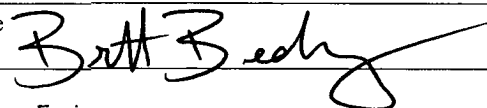
UNORTHODOX
LOCATION14 Distance in miles and direction from nearest town or post office*
37.4 miles West of Hobbs, NM15 Distance from proposed* 80'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)16 No. of acres in lease
320 16017 Spacing Unit dedicated to this well
16018 Distance from proposed location* 320' East of the
to nearest well, drilling, completed,
applied for, on this lease, ft Scott E Fed #119. Proposed Depth
14129' MD
9376' TVD20. BLM/BIA Bond No. on file
NM 1693, Nationwide21 Elevations (Show whether DF, KDB, RT, GL, etc.)
3711' GL22 Approximate date work will start*
08/15/201223. 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 04/09/2012Title
Petroleum Engineer

Approved by (Signature) /s/ Don Peterson

Name (Printed/Typed) /s/ Don Peterson

Date AUG 10 2012

Title
FIELD MANAGEROffice
CARLSBAD FIELD OFFICEApplication 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.

APPROVAL FOR TWO YEARS

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)

Capitan Controlled Water Basin

KZ 08/29/12 Approval Subject to General Requirements
& Special Stipulations AttachedOCD CONDITION OF APPROVAL for Drilling
Intent to drill ONLY--CANNOT produce until
the Non-Standard Location has been approved
by OCD Santa Fe Office.SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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 3/8" 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:						
<i>See CoA</i>	<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
	17 1/2"	13 3/8" (new)	48#	H40	0'- 1150' 1215'	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

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.
*Subject to availability of casing.

B. Cementing Program:

- See COA
- i. Surface Casing: 650 sks class "C" lite (35:65:4) cement w/salt and LCM additives. Yield at 2.05 cuft/sk. 200 sks class "C" w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
 - ii. Intermediate Casing: 270 sks class "C" lite (35:65:4) cement w/salt, fluid loss, and LCM additives. Yield at 2.05 cuft/sk. 400 sks class "C" w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
 - iii. Production Casing: 400 sks class "H" lite (35:65:4) cement w/ salt & LCM additives. Yield @ 2.12 cuft/sk. 400 sks class "H" cement. Yield @ 1.18 cuft/sk. Cmt will tie-back 200' inside Intermediate Csg w/25% excess.
 - iv. Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

*Referring to above blends of lite cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

6. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
0' - 1150' ¹²¹⁵	FW spud mud	8.6-9.0	32-34	NA
1150' - 2825'	Brine water	10.0	28-30	NA
2825' - 8889' (KOP)	Cut Brine	8.5-8.7	28-30	NA
8889' - TD	Cut Brine w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: See COA

Samples: 10' samples from surface casing to TD
Logging: CN, GR & Gyro from KOP -100' (9245') to surface. GR from 9245' to TD.

8. Downhole Conditions

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	120 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.



Mewbourne Oil Company

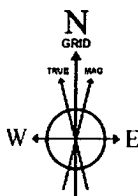
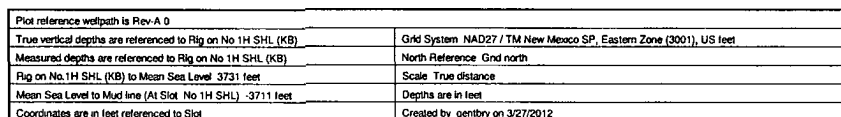
Location Lea County, NM
Field (Querecho) Sec 28, T18S, R32E
Facility Querecho 28 MD Federal No.1H

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

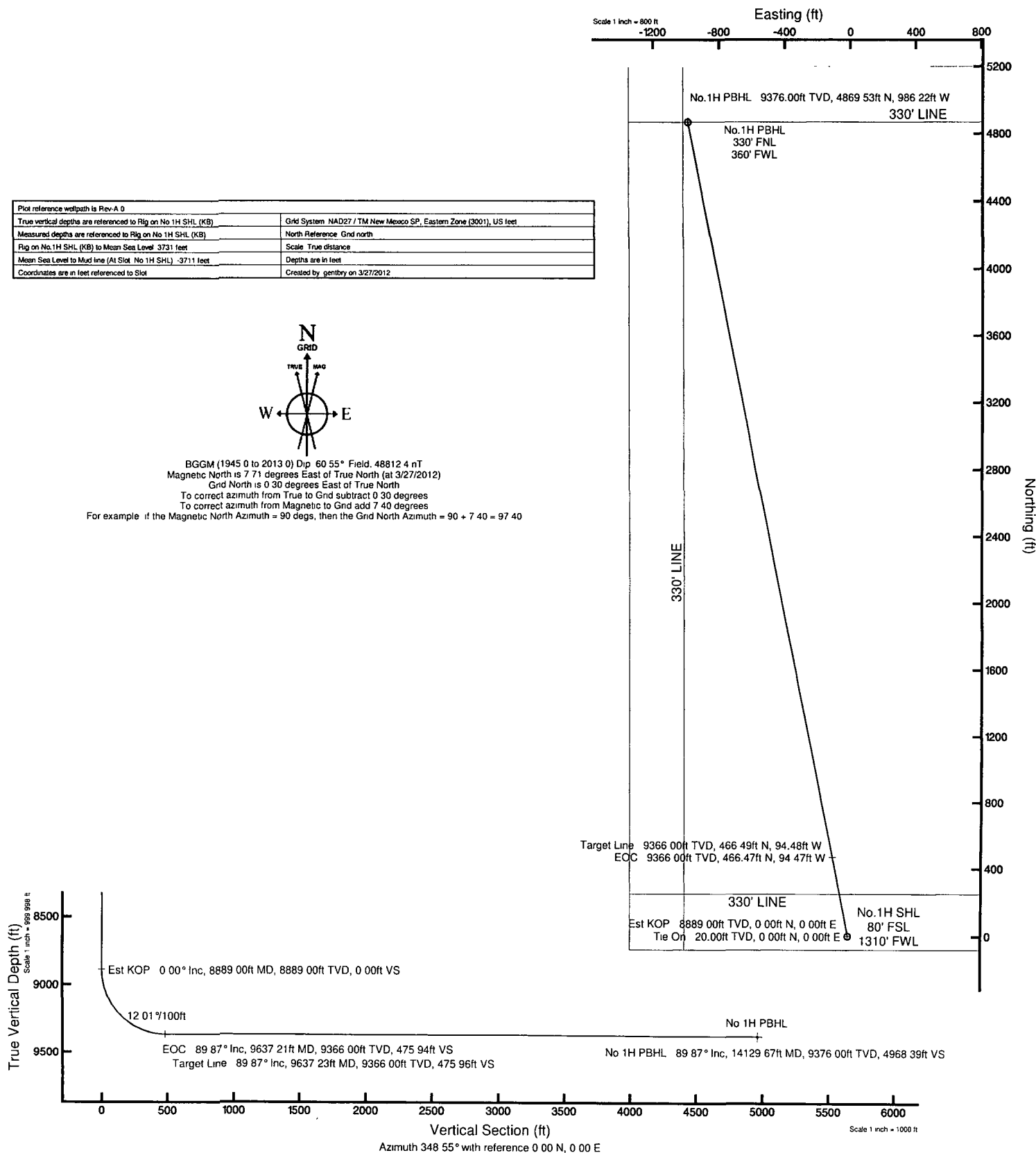


Well Profile Data

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	4869.53	-986.22	0.00	4968.39



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)
 Gnd North is 0 30 degrees East of True North
 To correct azimuth from True to Gnd subtract 0 30 degrees
 To correct azimuth from Magnetic to Gnd add 7 40 degrees
 For example if the Magnetic North Azimuth = 90 degs, then the Gnd North Azimuth = $90 + 7.40 = 97.40$



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	

Planned Wellpath Report

Mewbourne Oil Company

Rev-A.0
Page 3 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
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	

Planned Wellpath Report

Mewbourne Oil Company

Rev-A.0
Page 4 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
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	110.31	108.11	-21.90	671671.27	623060.97	32°42'41.938"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	2358.73	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	

Planned Wellpath Report

Mewbourne Oil Company

Rev-A.0
Page 5 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
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

Mewbourne Oil Company
BOP Schematic for
12 1/4" Hole

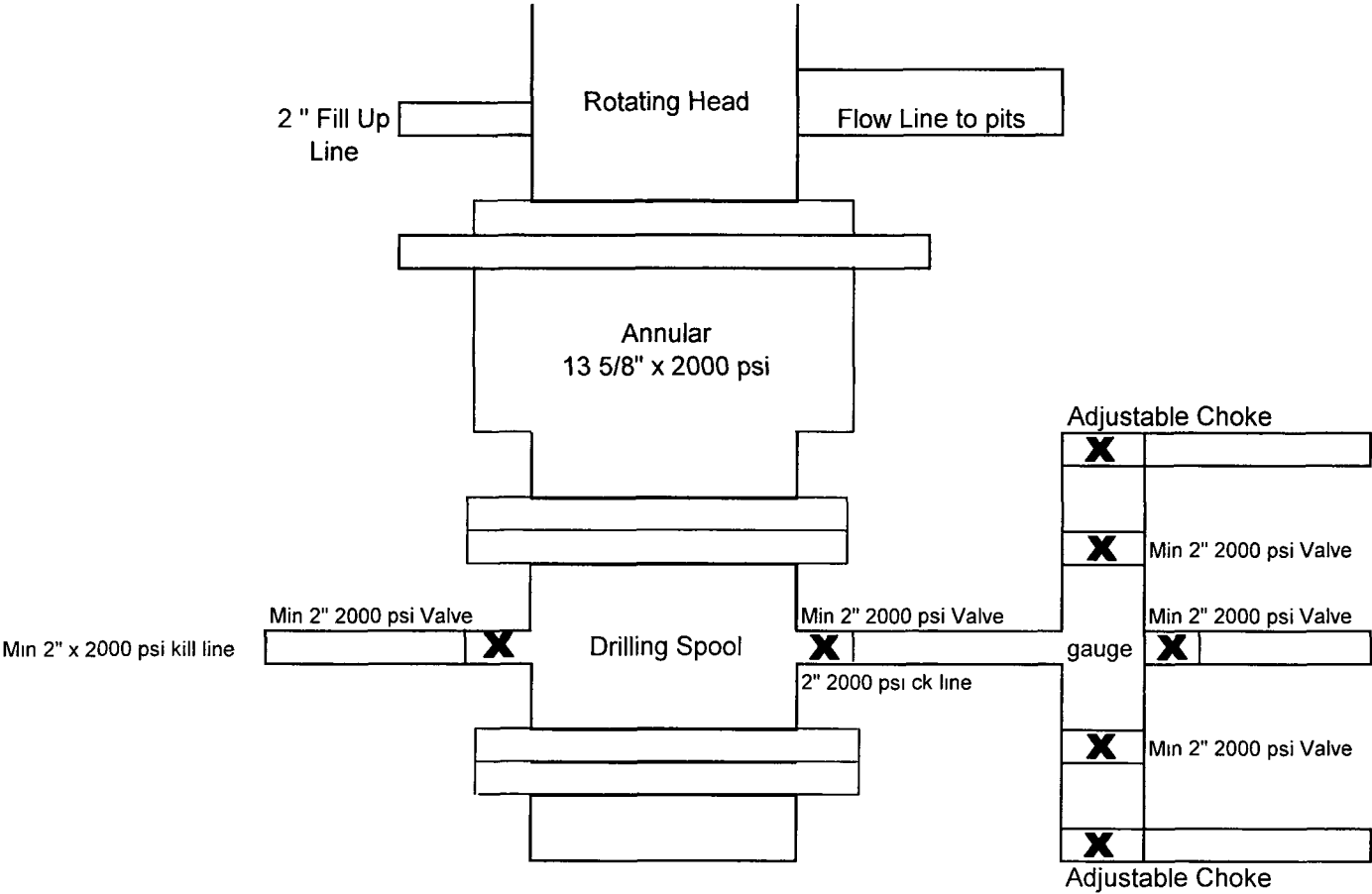


Exhibit #2

Querecho "28" MD Fed #1H
80' FSL & 1310' FWL
Sec 28-T18S-R32E
Lea, County
New Mexico

Mewbourne Oil Company
BOP Schematic for
8 3/4" & 6 1/8" Hole

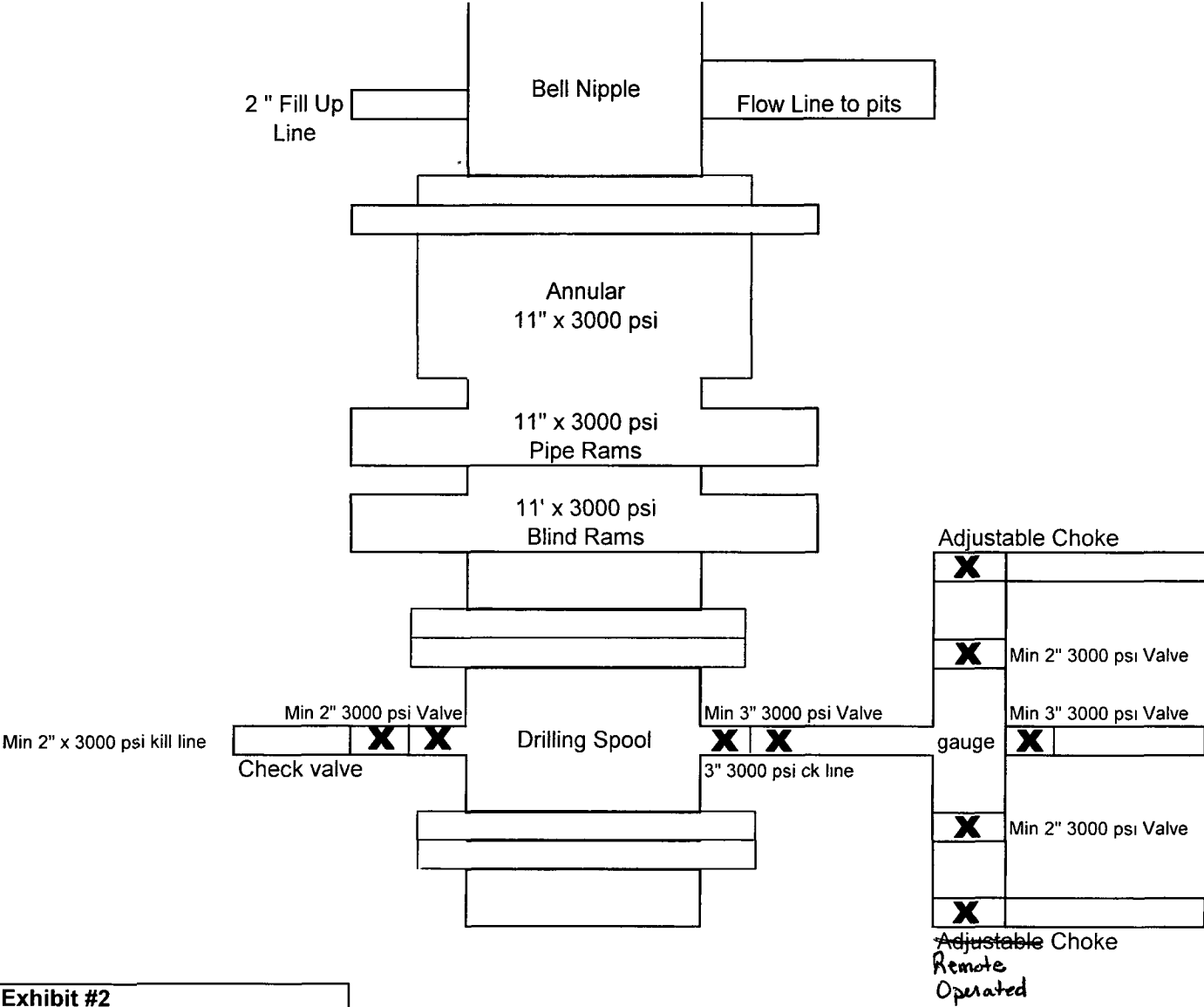


Exhibit #2

Querecho "28" MD Fed #1H
80' FSL & 1310' FWL
Sec 28-T18S-R32E
Lea, County
New Mexico

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Querecho "28" MD Fed #1H

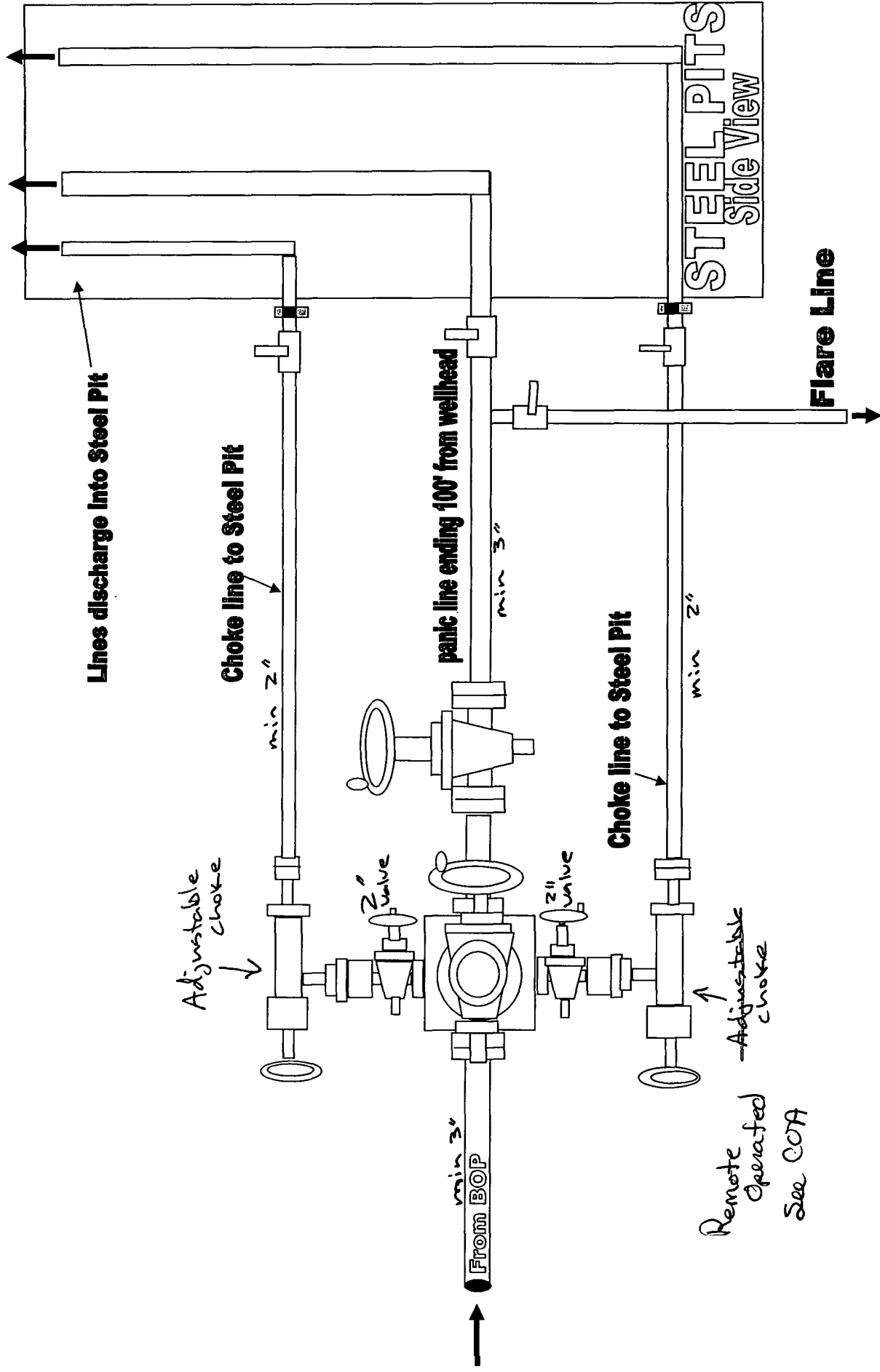
80' FSL & 1310' FWL (SHL)

Sec 28-T18S-R32E

Lea County, New Mexico

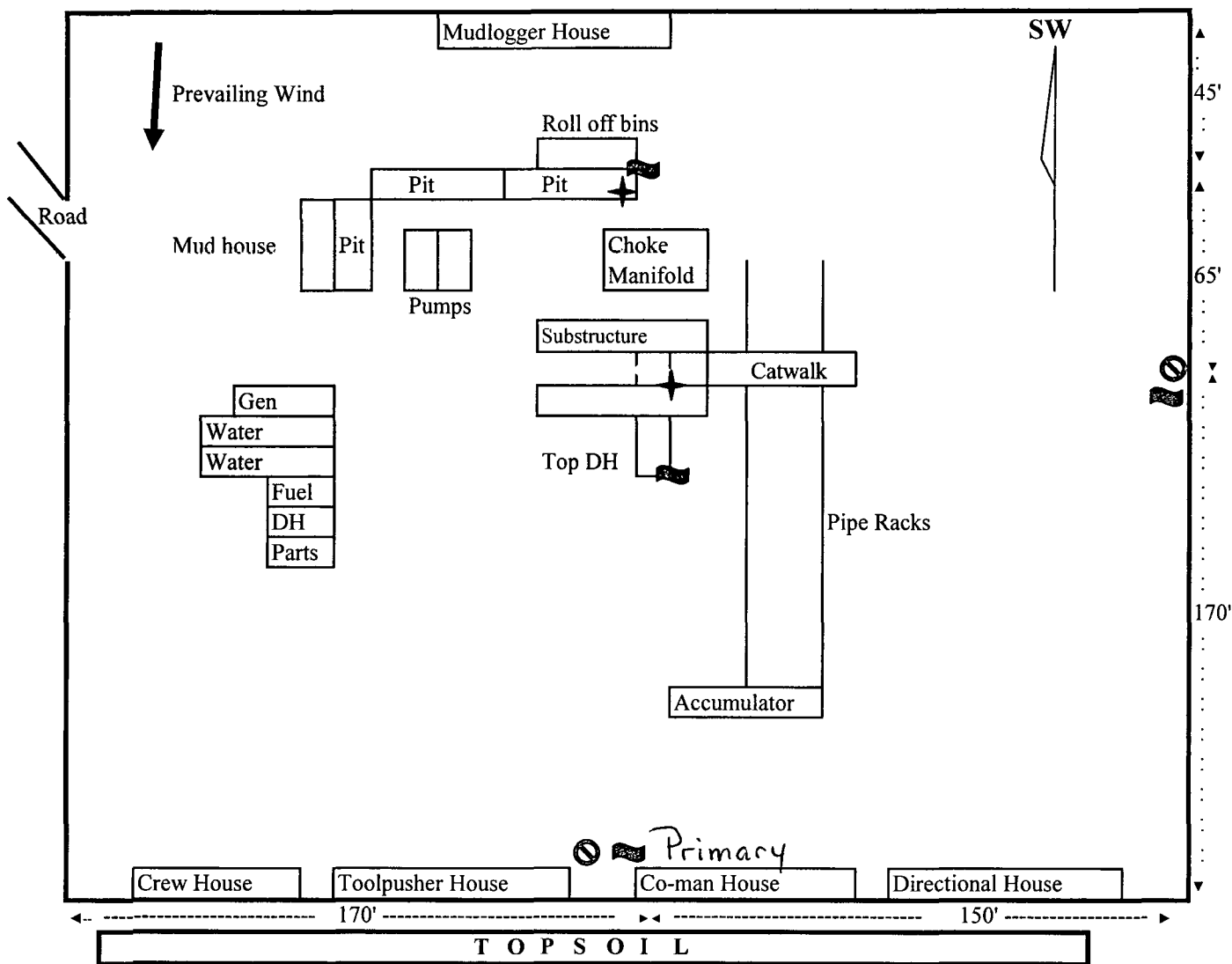
- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.



3000# BOP manifold system for Exhibit 2 & 2A

Closed Loop Pad Dimensions 280' x 320'
and H2S Plan



Legend

- Wellbore Location
- Briefing Area w/ SCBA
- H2S Sensors
- Windsocks

Mewbourne Oil Company
Querecho "28" MD Fed #1H
80' FSL & 1310' FWL
Sec 28-T18S-R32E
Lea County, NM