Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM025953

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.: EL JEFE 35/2 W1CN FED COM 2H

2. Name of Operator: MEWBOURNE OIL COMPANY

9. API Well No.:

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

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

10. Field and Pool, or Exploratory: PURPLE SAGE WOLFCAMP/ WOLFCAM

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

At surface: NWNW / 501 FNL / 1288 FWL / LAT 32.1798922 / LONG -104.0624397

At proposed prod. zone: SESW / 330 FNL / 1650 FWL / LAT 32.1528544 / LONG -104.0612325

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 35/T24S/R28E/NMP

14. Distance in miles and direction from nearest town or post office*: 7 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 330 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 480.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 60 feet

19. Proposed Depth: 9838 feet / 19953 feet

20. BLM/BIA Bond No. in file: FED: NM1693

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2960 feet

22. Approximate date work will start*: 01/06/2020

23. Estimated duration: 60 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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 requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	BRADLEY BISHOP / Ph: (575) 393-5905	05/21/2020

Title: Regulatory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	12/09/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field 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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 12/09/2020

Confidential

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
	98220	PURPLE SAGE; WOLFCAMP GAS POOL

4 Property Code	5 Property Name	6 Well Number
	EL JEFE 35/2 W1CN FED COM	2H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	2960'

10 Surface Location

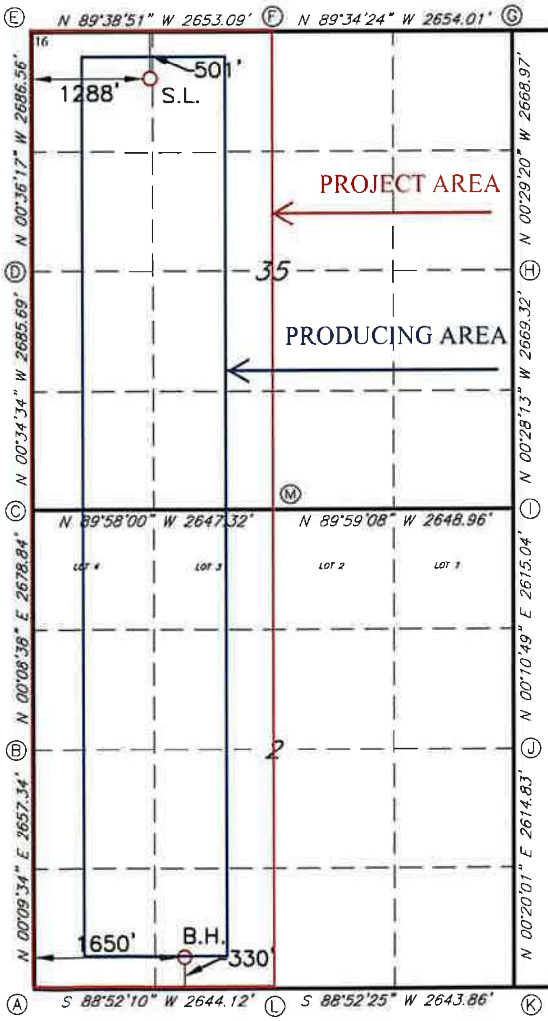
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
D	35	24S	28E		501	NORTH	1288	WEST	EDDY

11 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
N	2	25S	28E		330	SOUTH	1650	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N: 429285.0 – E: 625147.0
LAT: 32.1798922° N
LONG: 104.0624397° W

BOTTOM HOLE
N: 419450.2 – E: 625545.4
LAT: 32.1528544°N
LONG: 104.0612325°W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1940"
N: 419087.7 – E: 623895.2

B: FOUND BRASS CAP "1940"
N: 421744.4 – E: 623902.6

C: FOUND BRASS CAP "1940"
N: 424422.7 – E: 623909.3

D: FOUND BRASS CAP "1942"
N: 427107.6 – E: 623882.3

E: FOUND BRASS CAP "1942"
N: 429793.4 – E: 623853.9

F: FOUND BRASS CAP "1942"
N: 429777.1 – E: 626506.4

G: FOUND BRASS CAP "1942"
N: 429757.4 – E: 629159.7

H: FOUND BRASS CAP "1942"
N: 427089.1 – E: 629182.5

I: FOUND BRASS CAP "1940"
N: 424420.5 – E: 629204.4

J: FOUND BRASS CAP "1940"
N: 421806.0 – E: 629196.2

K: FOUND BRASS CAP "1940"
N: 419191.8 – E: 629181.0

L: FOUND BRASS CAP "1940"
N: 419139.9 – E: 626538.2

M: FOUND BRASS CAP "1940"
N: 424421.1 – E: 626556.0

17 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.

11-5-19
Signature Date

BRADLEY BISHOP
Printed Name

BBISHOP@MEWBOURNE.COM
E-mail Address

18 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.

10-03-2019
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

Job No.: LS19101006

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 11-5-19

☒ Original
☐ Amended - Reason for Amendment:

Operator & OGRID No.: Mewbourne Oil Company - 14744

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
El Jefe 35/2 W1CN Fed Com #2H		D 35- 24S - 28E	501' FNL & 1288' FWL	0	NA	ONLINE AFTER FRAC

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Western and will be connected to Western low/high pressure gathering system located in EDDY County, New Mexico. It will require 3,400' of pipeline to connect the facility to low/high pressure gathering system. Mewbourne Oil Company provides (periodically) to Western a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Mewbourne Oil Company and Western have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Western Processing Plant located in Sec. 36, Blk. 58 T1S, Culberson County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Western system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

12/09/2020

APD ID: 10400050727 **Submission Date:** 05/21/2020

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
582270	UNKNOWN	2960	28	28	OTHER : Topsoil	NONE	N
582282	TOP SALT	1860	1100	1100	SALT	NONE	N
582271	BOTTOM SALT	550	2410	2410	SALT	NONE	N
582275	LAMAR	350	2610	2610	LIMESTONE	NATURAL GAS, OIL	N
582276	BELL CANYON	320	2640	2640	SANDSTONE	NATURAL GAS, OIL	N
582277	CHERRY CANYON	-540	3500	3500	SANDSTONE	NATURAL GAS, OIL	N
582278	MANZANITA	-665	3625	3625	LIMESTONE	NATURAL GAS, OIL	N
582269	BONE SPRING LIME	-3380	6340	6340	LIMESTONE, SHALE	NATURAL GAS, OIL	N
582272	BONE SPRING 1ST	-4230	7190	7190	SANDSTONE	NATURAL GAS, OIL	N
582273	BONE SPRING 2ND	-5130	8090	8090	SANDSTONE	NATURAL GAS, OIL	N
582280	BONE SPRING 3RD	-6190	9150	9150	SANDSTONE	NATURAL GAS, OIL	N
582281	WOLFCAMP	-6560	9520	9520	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 19954

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. A multi-bowl wellhead is being used. See attached schematic.
Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

El_Jefe_35_2_W1CN_Fed_Com_2H_Flex_Line_Specs_20200520160937.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_5M_BOPE_Choke_Diagram_20200520160938.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_Flex_Line_Specs_API_16C_20200520160938.pdf

BOP Diagram Attachment:

El_Jefe_35_2_W1CN_Fed_Com_2H_Multi_Bowl_WH_20200520160953.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_5M_BOPE_Schematic_20200520160953.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	500	0	500	2960	2460	500	H-40	48	ST&C	3.37	7.56	DRY	13.42	DRY	22.54
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2535	0	2535	2996	425	2535	J-55	36	LT&C	1.53	2.67	DRY	4.96	DRY	6.18
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10000	0	9812	2996	-6852	10000	HCP-110	26	LT&C	1.58	2.12	DRY	2.67	DRY	3.19
4	LINER	6.125	4.5	NEW	API	N	9303	19954	9275	9848	-6315	-6888	10651	P-110	13.5	LT&C	1.6	1.86	DRY	2.35	DRY	2.93

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

El_Jefe_35_2_W1CN_Fed_Com_2H_Csg_Assumptions_20200520161100.doc

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

El_Jefe_35_2_W1CN_Fed_Com_2H_Csg_Assumptions_20200520161129.doc

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

El_Jefe_35_2_W1CN_Fed_Com_2H_Csg_Assumptions_20200520161253.doc

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Casing Attachments

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

El_Jefe_35_2_W1CN_Fed_Com_2H_Csg_Assumptions_20200520161326.doc

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	300	205	2.12	12.5	434.6	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		300	500	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1883	365	2.12	12.5	774	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1883	2535	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3625	2035	2947	85	2.12	12.5	180	25	Class C	Gel, Extender, Salt, LCM
PRODUCTION	Tail		2947	3625	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	3625	3625	7500	345	2.12	12.5	731	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7500	10000	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9303	19954	430	2.97	11.2	1277	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: Pason/PVT/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	SPUD MUD	8.6	8.8							
500	2535	SALT SATURATED	10	10							
2535	9812	WATER-BASED MUD	8.6	9.7							
9812	9848	OIL-BASED MUD	10	13							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL from KOP (9303') to surface.

List of open and cased hole logs run in the well:

COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6657 **Anticipated Surface Pressure:** 4490

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

El_Jefe_35_2_W1CN_Fed_Com_2H_H2S_Plan_20200520161928.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

El_Jefe_35_2_W1CN_Fed_Com_2H_Dir_Plot_20200520160857.pdf
El_Jefe_35_2_W1CN_Fed_Com_2H_Dir_Plan_20200520160857.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

El_Jefe_35_2_W1CN_Fed_Com_2H_Add_Info_20200520160909.pdf

Other Variance attachment:

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Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	500'	13.375"	48	H40	STC	3.37	7.56	13.42	22.54
12.25"	0'	2535'	9.625"	36	J55	LTC	1.53	2.67	4.96	6.18
8.75"	0'	10,000'	7"	26	P110	LTC	1.58	2.12	2.67	3.19
6.125"	9303'	19,954'	4.5"	13.5	P110	LTC	1.60	1.86	2.35	2.93
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet		1.6 Dry 1.8 Wet			

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	500'	13.375"	48	H40	STC	3.37	7.56	13.42	22.54
12.25"	0'	2535'	9.625"	36	J55	LTC	1.53	2.67	4.96	6.18
8.75"	0'	10,000'	7"	26	P110	LTC	1.58	2.12	2.67	3.19
6.125"	9303'	19,954'	4.5"	13.5	P110	LTC	1.60	1.86	2.35	2.93
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet		1.6 Dry 1.8 Wet			

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
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Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
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Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	500'	13.375"	48	H40	STC	3.37	7.56	13.42	22.54
12.25"	0'	2535'	9.625"	36	J55	LTC	1.53	2.67	4.96	6.18
8.75"	0'	10,000'	7"	26	P110	LTC	1.58	2.12	2.67	3.19
6.125"	9303'	19,954'	4.5"	13.5	P110	LTC	1.60	1.86	2.35	2.93
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet		1.6 Dry 1.8 Wet			

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Casing Program

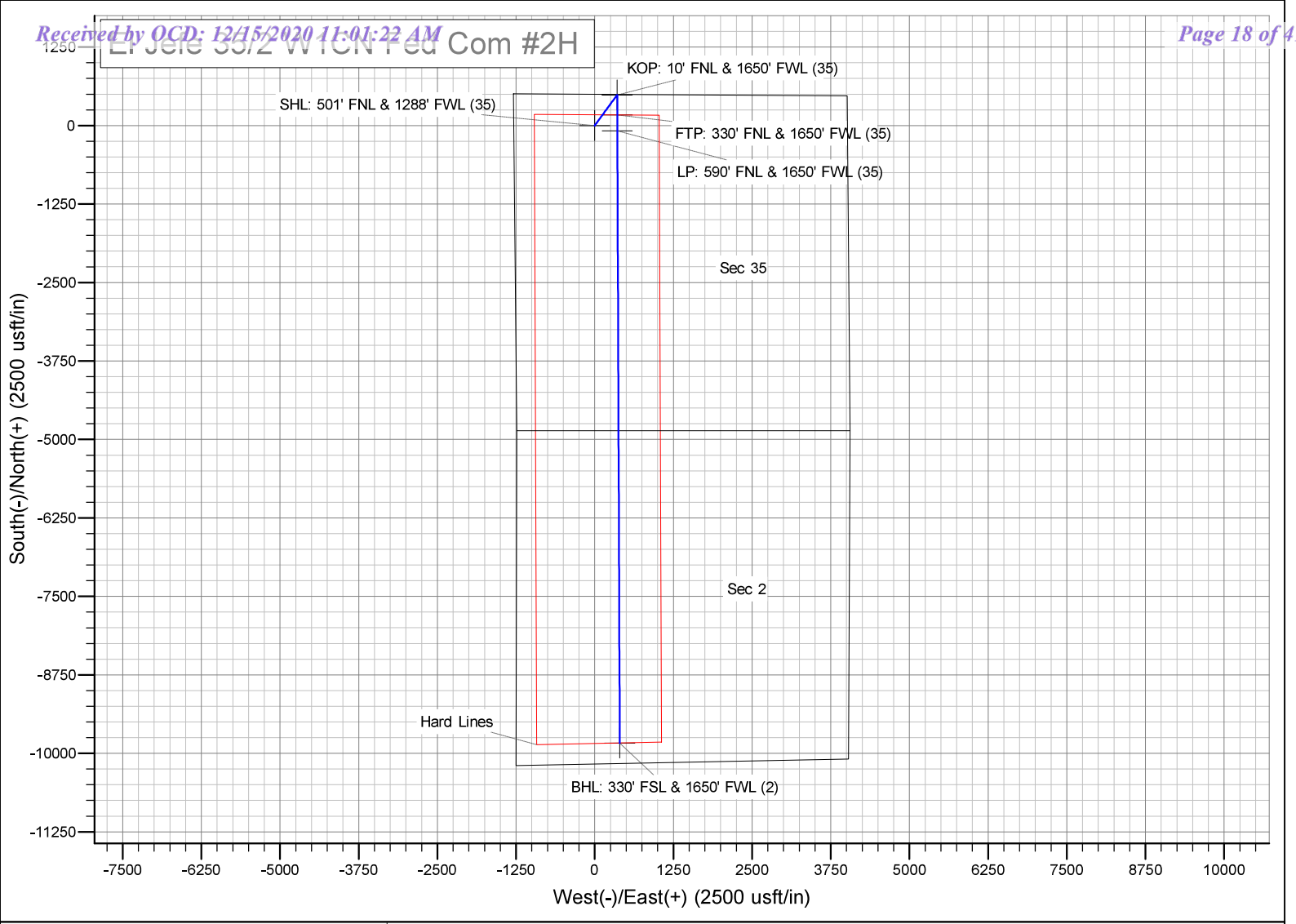
Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	500'	13.375"	48	H40	STC	3.37	7.56	13.42	22.54
12.25"	0'	2535'	9.625"	36	J55	LTC	1.53	2.67	4.96	6.18
8.75"	0'	10,000'	7"	26	P110	LTC	1.58	2.12	2.67	3.19
6.125"	9303'	19,954'	4.5"	13.5	P110	LTC	1.60	1.86	2.35	2.93
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet		1.6 Dry 1.8 Wet			

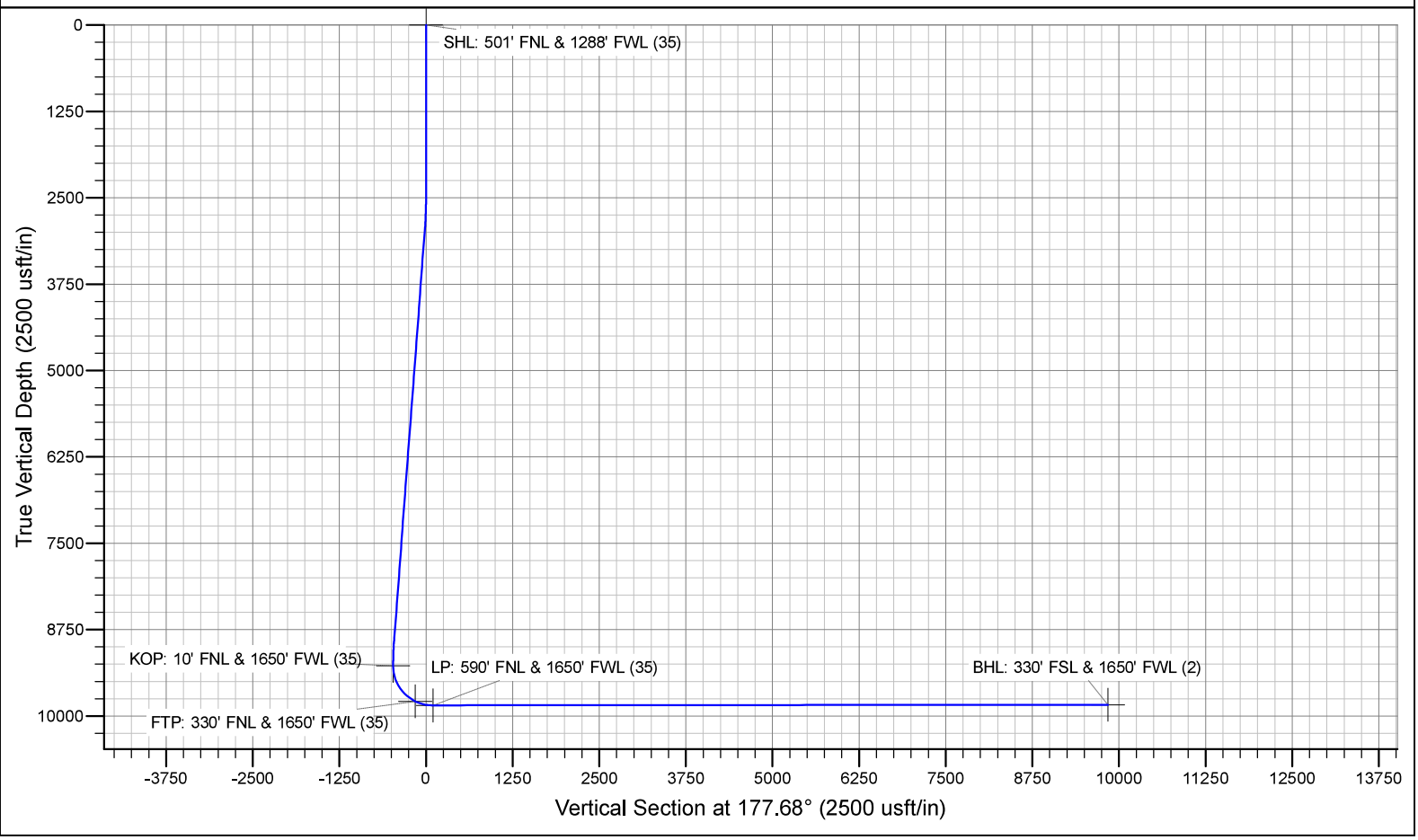
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2


EPJele 35/2 WTCN Fed Com #2H
KOP: 10' FNL & 1650' FWL (35)
SHL: 501' FNL & 1288' FWL (35)
FTP: 330' FNL & 1650' FWL (35)
LP: 590' FNL & 1650' FWL (35)
Sec 35
Sec 2
Hard Lines
BHL: 330' FSL & 1650' FWL (2)
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 501' FNL & 1288' FWL (35)
KOP: 10' FNL & 1650' FWL (35)
LP: 590' FNL & 1650' FWL (35)
BHL: 330' FSL & 1650' FWL (2)
FTP: 330' FNL & 1650' FWL (35)
True Vertical Depth (2500 usft/in)
Vertical Section at 177.68° (2500 usft/in)

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
El Jefe 35/2 W1CN Fed Com #2H
Sec 35, T24S, R28E
SHL: 501' FNL & 1288' FWL, Sec 35
BHL: 330' FSL & 1650' FWL, Sec 2

Plan: Design #1

Standard Planning Report

18 May, 2020

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	**System Datum:**	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	El Jefe 35/2 W1CN Fed Com #2H				
Site Position:		**Northing:**	429,285.00 usft	**Latitude:**	32.1798922
From:	Map	**Easting:**	625,147.00 usft	**Longitude:**	-104.0624399
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.14 °

Well	Sec 35, T24S, R28E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	429,285.00 usft	**Latitude:**	32.1798922
	+E/-W	0.0 usft	**Easting:**	625,147.00 usft	**Longitude:**	-104.0624399
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	2,988.0 usft	**Ground Level:**	2,960.0 usft

Wellbore	BHL: 330' FSL & 1650' FWL, Sec 2			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	12/31/2014	7.37	59.98	48,160

Design	Design #1			
Audit Notes:				
Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	177.68

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,575.0	0.00	0.00	2,575.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,938.4	5.45	36.19	2,937.8	13.9	10.2	1.50	1.50	0.00	36.19	
8,939.9	5.45	36.19	8,912.2	474.1	346.8	0.00	0.00	0.00	0.00	
9,303.3	0.00	0.01	9,275.0	488.0	357.0	1.50	-1.50	0.00	180.00	KOP: 10' FNL & 1650'
10,203.9	90.06	179.77	9,848.0	-85.5	359.3	10.00	10.00	0.00	179.77	
19,953.4	90.06	179.77	9,838.0	-9,835.0	398.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 165(

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 501' FNL & 1288' FWL (35)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,575.0	0.00	0.00	2,575.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.38	36.19	2,600.0	0.1	0.0	-0.1	1.50	1.50	0.00
2,700.0	1.88	36.19	2,700.0	1.7	1.2	-1.6	1.50	1.50	0.00
2,800.0	3.38	36.19	2,799.9	5.3	3.9	-5.2	1.50	1.50	0.00
2,900.0	4.88	36.19	2,899.6	11.2	8.2	-10.8	1.50	1.50	0.00
2,938.4	5.45	36.19	2,937.8	13.9	10.2	-13.5	1.50	1.50	0.00
3,000.0	5.45	36.19	2,999.2	18.7	13.7	-18.1	0.00	0.00	0.00
3,100.0	5.45	36.19	3,098.7	26.3	19.3	-25.5	0.00	0.00	0.00
3,200.0	5.45	36.19	3,198.3	34.0	24.9	-33.0	0.00	0.00	0.00
3,300.0	5.45	36.19	3,297.8	41.7	30.5	-40.4	0.00	0.00	0.00
3,400.0	5.45	36.19	3,397.4	49.3	36.1	-47.8	0.00	0.00	0.00
3,500.0	5.45	36.19	3,496.9	57.0	41.7	-55.3	0.00	0.00	0.00
3,600.0	5.45	36.19	3,596.5	64.7	47.3	-62.7	0.00	0.00	0.00
3,700.0	5.45	36.19	3,696.0	72.3	52.9	-70.1	0.00	0.00	0.00
3,800.0	5.45	36.19	3,795.6	80.0	58.5	-77.6	0.00	0.00	0.00
3,900.0	5.45	36.19	3,895.1	87.7	64.1	-85.0	0.00	0.00	0.00
4,000.0	5.45	36.19	3,994.7	95.3	69.7	-92.4	0.00	0.00	0.00
4,100.0	5.45	36.19	4,094.2	103.0	75.3	-99.9	0.00	0.00	0.00
4,200.0	5.45	36.19	4,193.7	110.7	81.0	-107.3	0.00	0.00	0.00
4,300.0	5.45	36.19	4,293.3	118.3	86.6	-114.7	0.00	0.00	0.00
4,400.0	5.45	36.19	4,392.8	126.0	92.2	-122.2	0.00	0.00	0.00
4,500.0	5.45	36.19	4,492.4	133.7	97.8	-129.6	0.00	0.00	0.00
4,600.0	5.45	36.19	4,591.9	141.3	103.4	-137.0	0.00	0.00	0.00
4,700.0	5.45	36.19	4,691.5	149.0	109.0	-144.5	0.00	0.00	0.00
4,800.0	5.45	36.19	4,791.0	156.7	114.6	-151.9	0.00	0.00	0.00
4,900.0	5.45	36.19	4,890.6	164.3	120.2	-159.3	0.00	0.00	0.00
5,000.0	5.45	36.19	4,990.1	172.0	125.8	-166.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	5.45	36.19	5,089.7	179.7	131.4	-174.2	0.00	0.00	0.00
5,200.0	5.45	36.19	5,189.2	187.3	137.0	-181.6	0.00	0.00	0.00
5,300.0	5.45	36.19	5,288.8	195.0	142.7	-189.1	0.00	0.00	0.00
5,400.0	5.45	36.19	5,388.3	202.7	148.3	-196.5	0.00	0.00	0.00
5,500.0	5.45	36.19	5,487.9	210.3	153.9	-203.9	0.00	0.00	0.00
5,600.0	5.45	36.19	5,587.4	218.0	159.5	-211.4	0.00	0.00	0.00
5,700.0	5.45	36.19	5,687.0	225.7	165.1	-218.8	0.00	0.00	0.00
5,800.0	5.45	36.19	5,786.5	233.3	170.7	-226.2	0.00	0.00	0.00
5,900.0	5.45	36.19	5,886.1	241.0	176.3	-233.7	0.00	0.00	0.00
6,000.0	5.45	36.19	5,985.6	248.7	181.9	-241.1	0.00	0.00	0.00
6,100.0	5.45	36.19	6,085.2	256.3	187.5	-248.5	0.00	0.00	0.00
6,200.0	5.45	36.19	6,184.7	264.0	193.1	-256.0	0.00	0.00	0.00
6,300.0	5.45	36.19	6,284.3	271.7	198.7	-263.4	0.00	0.00	0.00
6,400.0	5.45	36.19	6,383.8	279.3	204.3	-270.8	0.00	0.00	0.00
6,500.0	5.45	36.19	6,483.3	287.0	210.0	-278.3	0.00	0.00	0.00
6,600.0	5.45	36.19	6,582.9	294.7	215.6	-285.7	0.00	0.00	0.00
6,700.0	5.45	36.19	6,682.4	302.3	221.2	-293.1	0.00	0.00	0.00
6,800.0	5.45	36.19	6,782.0	310.0	226.8	-300.6	0.00	0.00	0.00
6,900.0	5.45	36.19	6,881.5	317.7	232.4	-308.0	0.00	0.00	0.00
7,000.0	5.45	36.19	6,981.1	325.3	238.0	-315.4	0.00	0.00	0.00
7,100.0	5.45	36.19	7,080.6	333.0	243.6	-322.9	0.00	0.00	0.00
7,200.0	5.45	36.19	7,180.2	340.7	249.2	-330.3	0.00	0.00	0.00
7,300.0	5.45	36.19	7,279.7	348.3	254.8	-337.7	0.00	0.00	0.00
7,400.0	5.45	36.19	7,379.3	356.0	260.4	-345.2	0.00	0.00	0.00
7,500.0	5.45	36.19	7,478.8	363.7	266.0	-352.6	0.00	0.00	0.00
7,600.0	5.45	36.19	7,578.4	371.3	271.7	-360.0	0.00	0.00	0.00
7,700.0	5.45	36.19	7,677.9	379.0	277.3	-367.5	0.00	0.00	0.00
7,800.0	5.45	36.19	7,777.5	386.7	282.9	-374.9	0.00	0.00	0.00
7,900.0	5.45	36.19	7,877.0	394.3	288.5	-382.3	0.00	0.00	0.00
8,000.0	5.45	36.19	7,976.6	402.0	294.1	-389.8	0.00	0.00	0.00
8,100.0	5.45	36.19	8,076.1	409.7	299.7	-397.2	0.00	0.00	0.00
8,200.0	5.45	36.19	8,175.7	417.3	305.3	-404.6	0.00	0.00	0.00
8,300.0	5.45	36.19	8,275.2	425.0	310.9	-412.1	0.00	0.00	0.00
8,400.0	5.45	36.19	8,374.8	432.7	316.5	-419.5	0.00	0.00	0.00
8,500.0	5.45	36.19	8,474.3	440.3	322.1	-426.9	0.00	0.00	0.00
8,600.0	5.45	36.19	8,573.9	448.0	327.7	-434.4	0.00	0.00	0.00
8,700.0	5.45	36.19	8,673.4	455.7	333.3	-441.8	0.00	0.00	0.00
8,800.0	5.45	36.19	8,772.9	463.3	339.0	-449.3	0.00	0.00	0.00
8,900.0	5.45	36.19	8,872.5	471.0	344.6	-456.7	0.00	0.00	0.00
8,939.9	5.45	36.19	8,912.2	474.1	346.8	-459.6	0.00	0.00	0.00
9,000.0	4.55	36.19	8,972.1	478.3	349.9	-463.7	1.50	-1.50	0.00
9,100.0	3.05	36.19	9,071.9	483.6	353.8	-468.9	1.50	-1.50	0.00
9,200.0	1.55	36.19	9,171.8	486.9	356.2	-472.1	1.50	-1.50	0.00
9,300.0	0.05	36.19	9,271.8	488.0	357.0	-473.2	1.50	-1.50	0.00
9,303.3	0.00	0.01	9,275.0	488.0	357.0	-473.2	1.50	-1.50	0.00
KOP: 10' FNL & 1650' FWL (35)									
9,400.0	9.67	179.77	9,371.3	479.9	357.0	-465.0	10.00	10.00	0.00
9,500.0	19.67	179.77	9,467.9	454.6	357.1	-439.7	10.00	10.00	0.00
9,600.0	29.67	179.77	9,558.7	412.9	357.3	-398.1	10.00	10.00	0.00
9,700.0	39.67	179.77	9,640.8	356.1	357.5	-341.3	10.00	10.00	0.00
9,800.0	49.67	179.77	9,711.8	285.8	357.8	-271.1	10.00	10.00	0.00
9,900.0	59.67	179.77	9,769.6	204.4	358.1	-189.7	10.00	10.00	0.00
9,941.3	63.80	179.77	9,789.1	168.0	358.3	-153.4	10.00	10.00	0.00
FTP: 330' FNL & 1650' FWL (35)									

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	69.67	179.77	9,812.3	114.1	358.5	-99.5	10.00	10.00	0.00
10,100.0	79.67	179.77	9,838.7	17.8	358.9	-3.2	10.00	10.00	0.00
10,200.0	89.67	179.77	9,848.0	-81.7	359.3	96.1	10.00	10.00	0.00
10,203.8	90.05	179.77	9,848.0	-85.5	359.3	100.0	10.00	10.00	0.00
LP: 590' FNL & 1650' FWL (35)									
10,300.0	90.06	179.77	9,847.9	-181.7	359.7	196.1	0.00	0.00	0.00
10,400.0	90.06	179.77	9,847.8	-281.7	360.1	296.0	0.00	0.00	0.00
10,500.0	90.06	179.77	9,847.7	-381.7	360.5	395.9	0.00	0.00	0.00
10,600.0	90.06	179.77	9,847.6	-481.7	360.9	495.9	0.00	0.00	0.00
10,700.0	90.06	179.77	9,847.5	-581.7	361.2	595.8	0.00	0.00	0.00
10,800.0	90.06	179.77	9,847.4	-681.7	361.6	695.7	0.00	0.00	0.00
10,900.0	90.06	179.77	9,847.3	-781.7	362.0	795.7	0.00	0.00	0.00
10,961.9	90.06	179.77	9,847.2	-843.6	362.3	857.6	0.00	0.00	0.00
PPP2: 1342' FNL & 1650' FWL (35)									
11,000.0	90.06	179.77	9,847.2	-881.7	362.4	895.6	0.00	0.00	0.00
11,100.0	90.06	179.77	9,847.1	-981.7	362.8	995.5	0.00	0.00	0.00
11,200.0	90.06	179.77	9,847.0	-1,081.7	363.2	1,095.5	0.00	0.00	0.00
11,300.0	90.06	179.77	9,846.9	-1,181.7	363.6	1,195.4	0.00	0.00	0.00
11,400.0	90.06	179.77	9,846.8	-1,281.7	364.0	1,295.3	0.00	0.00	0.00
11,500.0	90.06	179.77	9,846.7	-1,381.7	364.4	1,395.3	0.00	0.00	0.00
11,600.0	90.06	179.77	9,846.6	-1,481.7	364.8	1,495.2	0.00	0.00	0.00
11,700.0	90.06	179.77	9,846.5	-1,581.7	365.2	1,595.1	0.00	0.00	0.00
11,800.0	90.06	179.77	9,846.4	-1,681.7	365.6	1,695.1	0.00	0.00	0.00
11,900.0	90.06	179.77	9,846.3	-1,781.7	366.0	1,795.0	0.00	0.00	0.00
12,000.0	90.06	179.77	9,846.2	-1,881.7	366.4	1,894.9	0.00	0.00	0.00
12,100.0	90.06	179.77	9,846.1	-1,981.7	366.8	1,994.9	0.00	0.00	0.00
12,200.0	90.06	179.77	9,846.0	-2,081.7	367.2	2,094.8	0.00	0.00	0.00
12,300.0	90.06	179.77	9,845.8	-2,181.7	367.6	2,194.7	0.00	0.00	0.00
12,400.0	90.06	179.77	9,845.7	-2,281.7	368.0	2,294.7	0.00	0.00	0.00
12,500.0	90.06	179.77	9,845.6	-2,381.7	368.4	2,394.6	0.00	0.00	0.00
12,600.0	90.06	179.77	9,845.5	-2,481.7	368.8	2,494.5	0.00	0.00	0.00
12,700.0	90.06	179.77	9,845.4	-2,581.7	369.2	2,594.5	0.00	0.00	0.00
12,800.0	90.06	179.77	9,845.3	-2,681.7	369.6	2,694.4	0.00	0.00	0.00
12,900.0	90.06	179.77	9,845.2	-2,781.7	370.0	2,794.3	0.00	0.00	0.00
13,000.0	90.06	179.77	9,845.1	-2,881.7	370.4	2,894.3	0.00	0.00	0.00
13,100.0	90.06	179.77	9,845.0	-2,981.7	370.8	2,994.2	0.00	0.00	0.00
13,200.0	90.06	179.77	9,844.9	-3,081.7	371.2	3,094.1	0.00	0.00	0.00
13,300.0	90.06	179.77	9,844.8	-3,181.7	371.6	3,194.1	0.00	0.00	0.00
13,400.0	90.06	179.77	9,844.7	-3,281.7	372.0	3,294.0	0.00	0.00	0.00
13,500.0	90.06	179.77	9,844.6	-3,381.6	372.4	3,393.9	0.00	0.00	0.00
13,600.0	90.06	179.77	9,844.5	-3,481.6	372.8	3,493.9	0.00	0.00	0.00
13,700.0	90.06	179.77	9,844.4	-3,581.6	373.2	3,593.8	0.00	0.00	0.00
13,800.0	90.06	179.77	9,844.3	-3,681.6	373.6	3,693.7	0.00	0.00	0.00
13,900.0	90.06	179.77	9,844.2	-3,781.6	374.0	3,793.7	0.00	0.00	0.00
14,000.0	90.06	179.77	9,844.1	-3,881.6	374.4	3,893.6	0.00	0.00	0.00
14,100.0	90.06	179.77	9,844.0	-3,981.6	374.8	3,993.5	0.00	0.00	0.00
14,200.0	90.06	179.77	9,843.9	-4,081.6	375.1	4,093.5	0.00	0.00	0.00
14,300.0	90.06	179.77	9,843.8	-4,181.6	375.5	4,193.4	0.00	0.00	0.00
14,400.0	90.06	179.77	9,843.7	-4,281.6	375.9	4,293.3	0.00	0.00	0.00
14,500.0	90.06	179.77	9,843.6	-4,381.6	376.3	4,393.3	0.00	0.00	0.00
14,600.0	90.06	179.77	9,843.5	-4,481.6	376.7	4,493.2	0.00	0.00	0.00
14,700.0	90.06	179.77	9,843.4	-4,581.6	377.1	4,593.1	0.00	0.00	0.00
14,800.0	90.06	179.77	9,843.3	-4,681.6	377.5	4,693.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.0	90.06	179.77	9,843.2	-4,781.6	377.9	4,793.0	0.00	0.00	0.00
15,000.0	90.06	179.77	9,843.1	-4,881.6	378.3	4,892.9	0.00	0.00	0.00
15,100.0	90.06	179.77	9,843.0	-4,981.6	378.7	4,992.9	0.00	0.00	0.00
15,200.0	90.06	179.77	9,842.9	-5,081.6	379.1	5,092.8	0.00	0.00	0.00
15,300.0	90.06	179.77	9,842.8	-5,181.6	379.5	5,192.7	0.00	0.00	0.00
15,400.0	90.06	179.77	9,842.7	-5,281.6	379.9	5,292.7	0.00	0.00	0.00
15,500.0	90.06	179.77	9,842.6	-5,381.6	380.3	5,392.6	0.00	0.00	0.00
15,600.0	90.06	179.77	9,842.5	-5,481.6	380.7	5,492.5	0.00	0.00	0.00
15,700.0	90.06	179.77	9,842.4	-5,581.6	381.1	5,592.5	0.00	0.00	0.00
15,800.0	90.06	179.77	9,842.3	-5,681.6	381.5	5,692.4	0.00	0.00	0.00
15,900.0	90.06	179.77	9,842.2	-5,781.6	381.9	5,792.3	0.00	0.00	0.00
16,000.0	90.06	179.77	9,842.1	-5,881.6	382.3	5,892.3	0.00	0.00	0.00
16,100.0	90.06	179.77	9,842.0	-5,981.6	382.7	5,992.2	0.00	0.00	0.00
16,200.0	90.06	179.77	9,841.8	-6,081.6	383.1	6,092.1	0.00	0.00	0.00
16,300.0	90.06	179.77	9,841.7	-6,181.6	383.5	6,192.1	0.00	0.00	0.00
16,400.0	90.06	179.77	9,841.6	-6,281.6	383.9	6,292.0	0.00	0.00	0.00
16,500.0	90.06	179.77	9,841.5	-6,381.6	384.3	6,391.9	0.00	0.00	0.00
16,600.0	90.06	179.77	9,841.4	-6,481.6	384.7	6,491.9	0.00	0.00	0.00
16,700.0	90.06	179.77	9,841.3	-6,581.6	385.1	6,591.8	0.00	0.00	0.00
16,800.0	90.06	179.77	9,841.2	-6,681.6	385.5	6,691.7	0.00	0.00	0.00
16,900.0	90.06	179.77	9,841.1	-6,781.6	385.9	6,791.7	0.00	0.00	0.00
17,000.0	90.06	179.77	9,841.0	-6,881.6	386.3	6,891.6	0.00	0.00	0.00
17,100.0	90.06	179.77	9,840.9	-6,981.6	386.7	6,991.5	0.00	0.00	0.00
17,200.0	90.06	179.77	9,840.8	-7,081.6	387.1	7,091.5	0.00	0.00	0.00
17,300.0	90.06	179.77	9,840.7	-7,181.6	387.5	7,191.4	0.00	0.00	0.00
17,400.0	90.06	179.77	9,840.6	-7,281.6	387.9	7,291.3	0.00	0.00	0.00
17,500.0	90.06	179.77	9,840.5	-7,381.6	388.3	7,391.3	0.00	0.00	0.00
17,600.0	90.06	179.77	9,840.4	-7,481.6	388.7	7,491.2	0.00	0.00	0.00
17,700.0	90.06	179.77	9,840.3	-7,581.6	389.1	7,591.1	0.00	0.00	0.00
17,800.0	90.06	179.77	9,840.2	-7,681.6	389.4	7,691.1	0.00	0.00	0.00
17,900.0	90.06	179.77	9,840.1	-7,781.6	389.8	7,791.0	0.00	0.00	0.00
18,000.0	90.06	179.77	9,840.0	-7,881.6	390.2	7,890.9	0.00	0.00	0.00
18,100.0	90.06	179.77	9,839.9	-7,981.6	390.6	7,990.9	0.00	0.00	0.00
18,200.0	90.06	179.77	9,839.8	-8,081.6	391.0	8,090.8	0.00	0.00	0.00
18,300.0	90.06	179.77	9,839.7	-8,181.6	391.4	8,190.7	0.00	0.00	0.00
18,400.0	90.06	179.77	9,839.6	-8,281.6	391.8	8,290.7	0.00	0.00	0.00
18,500.0	90.06	179.77	9,839.5	-8,381.6	392.2	8,390.6	0.00	0.00	0.00
18,600.0	90.06	179.77	9,839.4	-8,481.6	392.6	8,490.5	0.00	0.00	0.00
18,700.0	90.06	179.77	9,839.3	-8,581.6	393.0	8,590.5	0.00	0.00	0.00
18,800.0	90.06	179.77	9,839.2	-8,681.6	393.4	8,690.4	0.00	0.00	0.00
18,900.0	90.06	179.77	9,839.1	-8,781.6	393.8	8,790.3	0.00	0.00	0.00
19,000.0	90.06	179.77	9,839.0	-8,881.6	394.2	8,890.3	0.00	0.00	0.00
19,100.0	90.06	179.77	9,838.9	-8,981.6	394.6	8,990.2	0.00	0.00	0.00
19,200.0	90.06	179.77	9,838.8	-9,081.6	395.0	9,090.1	0.00	0.00	0.00
19,300.0	90.06	179.77	9,838.7	-9,181.6	395.4	9,190.1	0.00	0.00	0.00
19,400.0	90.06	179.77	9,838.6	-9,281.6	395.8	9,290.0	0.00	0.00	0.00
19,500.0	90.06	179.77	9,838.5	-9,381.6	396.2	9,389.9	0.00	0.00	0.00
19,600.0	90.06	179.77	9,838.4	-9,481.6	396.6	9,489.9	0.00	0.00	0.00
19,700.0	90.06	179.77	9,838.3	-9,581.6	397.0	9,589.8	0.00	0.00	0.00
19,800.0	90.06	179.77	9,838.2	-9,681.6	397.4	9,689.7	0.00	0.00	0.00
19,900.0	90.06	179.77	9,838.1	-9,781.6	397.8	9,789.7	0.00	0.00	0.00
19,953.4	90.06	179.77	9,838.0	-9,835.0	398.0	9,843.0	0.00	0.00	0.00
BHL: 330' FSL & 1650' FWL (2)									

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site El Jefe 35/2 W1CN Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2988.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1CN Fed Com #2H	**North Reference:**	Grid
Well:	Sec 35, T24S, R28E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1650' FWL, Sec 2		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 501' FNL & 1288' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	429,285.00	625,147.00	32.1798922	-104.0624399
KOP: 10' FNL & 1650' F\ - plan hits target center - Point	0.00	0.01	9,275.0	488.0	357.0	429,773.00	625,504.00	32.1812312	-104.0612820
FTP: 330' FNL & 1650' F - plan hits target center - Point	0.00	0.00	9,789.1	168.0	358.3	429,453.00	625,505.27	32.1803515	-104.0612805
BHL: 330' FSL & 1650' F - plan hits target center - Point	0.00	0.00	9,838.0	-9,835.0	398.0	419,450.00	625,545.00	32.1528540	-104.0612338
PPP2: 1342' FNL & 165(- plan hits target center - Point	0.00	0.00	9,847.2	-843.6	362.3	428,441.40	625,509.29	32.1775707	-104.0612758
LP: 590' FNL & 1650' FV - plan hits target center - Point	0.00	0.00	9,848.0	-85.5	359.3	429,199.50	625,506.28	32.1796547	-104.0612793

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	El Jefe 35/2 W1CN Fed Com	2H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	35	24S	28E		10	N	1650	W	Eddy

Latitude	Longitude	NAD
32.1812312	-104.0612820	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	35	24S	28E		330	N	1650	W	Eddy

Latitude	Longitude	NAD
32.1803515	-104.0612805	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	2	25S	28E		330	S	1650	W	Eddy

Latitude	Longitude	NAD
32.1528544	-104.0612325	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [N]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

1. Well Control Equipment
   - A. Choke manifold with minimum of one adjustable choke/remote choke.
   - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
   - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel
   Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

3. Hydrogen Sulfide Protection and Monitoring Equipment
Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems
A. Wind direction indicators as indicated on the wellsite diagram.
B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

Eddy County Sheriff's Office	**911 or 575-887-7551**
Ambulance Service	**911 or 575-885-2111**
Carlsbad Fire Dept	**911 or 575-885-2111**
Loco Hills Volunteer Fire Dept.	**911 or 575-677-3266**
Closest Medical Facility - Columbia Medical Center of Carlsbad	**575-492-5000**

Mewbourne Oil Company	**Hobbs District Office**	**575-393-5905**
	Fax	**575-397-6252**
	2nd Fax	**575-393-7259**
District Manager	**Robin Terrell**	**575-390-4816**
Drilling Superintendent	**Frosty Lathan**	**575-390-4103**
	Bradley Bishop	**575-390-6838**
Drilling Foreman	**Wesley Noseff**	**575-441-0729**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE
Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE
Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE
Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

ElJefe35_2W1CNFedCom2H_wellsitelayout_20191106144257.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** EL JEFE 35/2 CN FED COMs

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

12/09/2020

APD ID: 10400050727 **Submission Date:** 05/21/2020

Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
582270	UNKNOWN	2960	28	28	OTHER : Topsoil	NONE	N
582282	TOP SALT	1860	1100	1100	SALT	NONE	N
582271	BOTTOM SALT	550	2410	2410	SALT	NONE	N
582275	LAMAR	350	2610	2610	LIMESTONE	NATURAL GAS, OIL	N
582276	BELL CANYON	320	2640	2640	SANDSTONE	NATURAL GAS, OIL	N
582277	CHERRY CANYON	-540	3500	3500	SANDSTONE	NATURAL GAS, OIL	N
582278	MANZANITA	-665	3625	3625	LIMESTONE	NATURAL GAS, OIL	N
582269	BONE SPRING LIME	-3380	6340	6340	LIMESTONE, SHALE	NATURAL GAS, OIL	N
582272	BONE SPRING 1ST	-4230	7190	7190	SANDSTONE	NATURAL GAS, OIL	N
582273	BONE SPRING 2ND	-5130	8090	8090	SANDSTONE	NATURAL GAS, OIL	N
582280	BONE SPRING 3RD	-6190	9150	9150	SANDSTONE	NATURAL GAS, OIL	N
582281	WOLFCAMP	-6560	9520	9520	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 19954

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. A multi-bowl wellhead is being used. See attached schematic.
Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

12/09/2020

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Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: EL JEFE 35/2 W1CN FED COM **Well Number:** 2H

tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

El_Jefe_35_2_W1CN_Fed_Com_2H_Flex_Line_Specs_20200520160937.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_5M_BOPE_Choke_Diagram_20200520160938.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_Flex_Line_Specs_API_16C_20200520160938.pdf

BOP Diagram Attachment:

El_Jefe_35_2_W1CN_Fed_Com_2H_Multi_Bowl_WH_20200520160953.pdf

El_Jefe_35_2_W1CN_Fed_Com_2H_5M_BOPE_Schematic_20200520160953.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	500	0	500	2960	2460	500	H-40	48	ST&C	3.37	7.56	DRY	13.42	DRY	22.54
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2535	0	2535	2996	425	2535	J-55	36	LT&C	1.53	2.67	DRY	4.96	DRY	6.18
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10000	0	9812	2996	-6852	10000	HCP-110	26	LT&C	1.58	2.12	DRY	2.67	DRY	3.19
4	LINER	6.125	4.5	NEW	API	N	9303	19954	9275	9848	-6315	-6888	10651	P-110	13.5	LT&C	1.6	1.86	DRY	2.35	DRY	2.93

Casing Attachments

CONFIDENTIAL

ENGINEERING & SERVICES

GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE

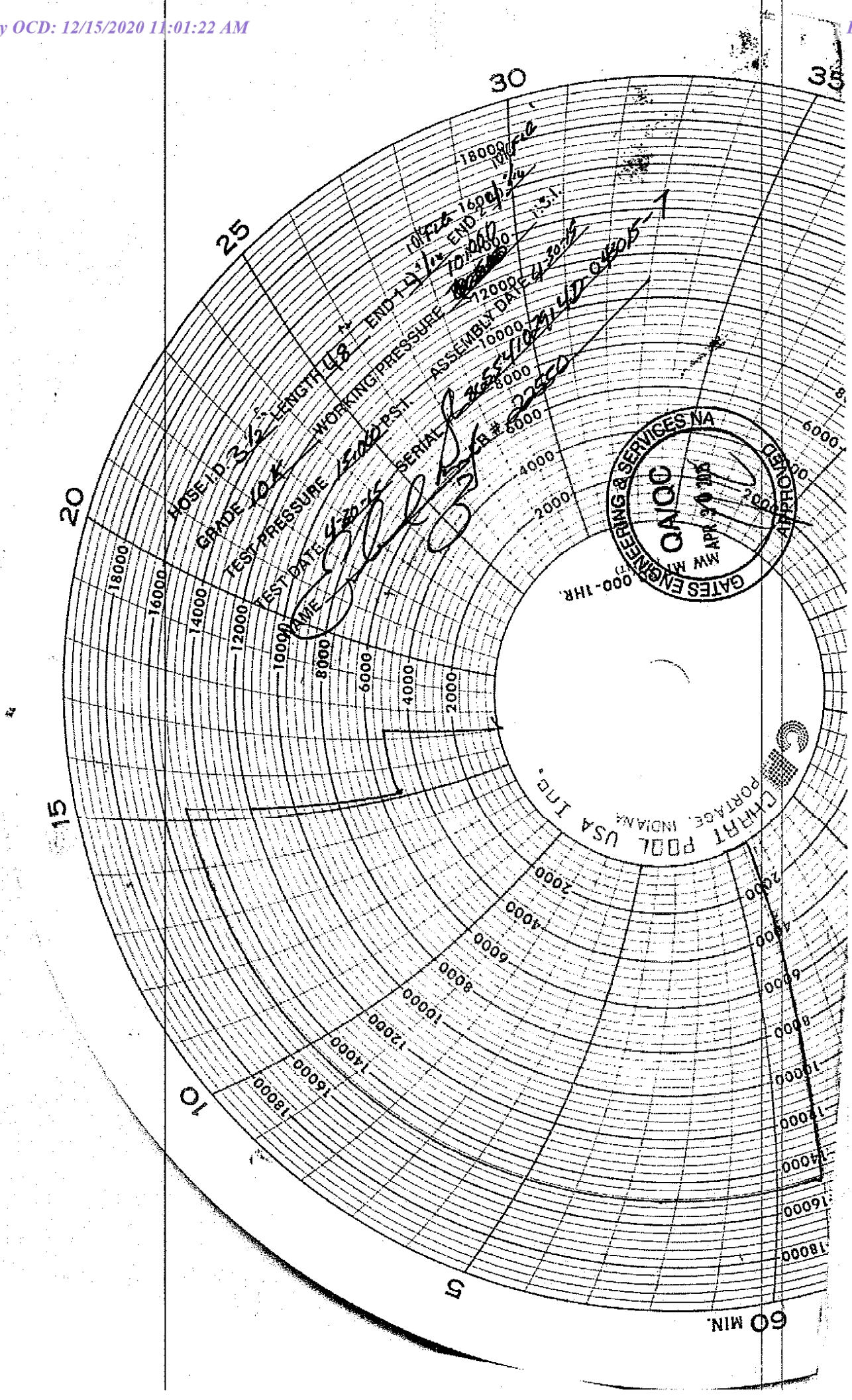
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :	QUALITY	Produciton:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :	Justin Cropper	Signature :	

Form-PTC - 01 Rev.0 2

Gates BLACK GOLD


HOSE I.D. 3 1/2"
LENGTH 48'
END 1 4 1/16" 10K FLG
GRADE 10K
WORKING PRESSURE 10,000 P.S.I.
END 2 4 1/16" 10K FLG
TEST PRESSURE 15,000 P.S.I.
ASSEMBLY DATE 4-30-15
TEST DATE 4-30-15
SERIAL # 365541015-0405-1
NAME
CR # 22560
GATES ENGINEERING & SERVICES NA
QAQC
APPROVED
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12000
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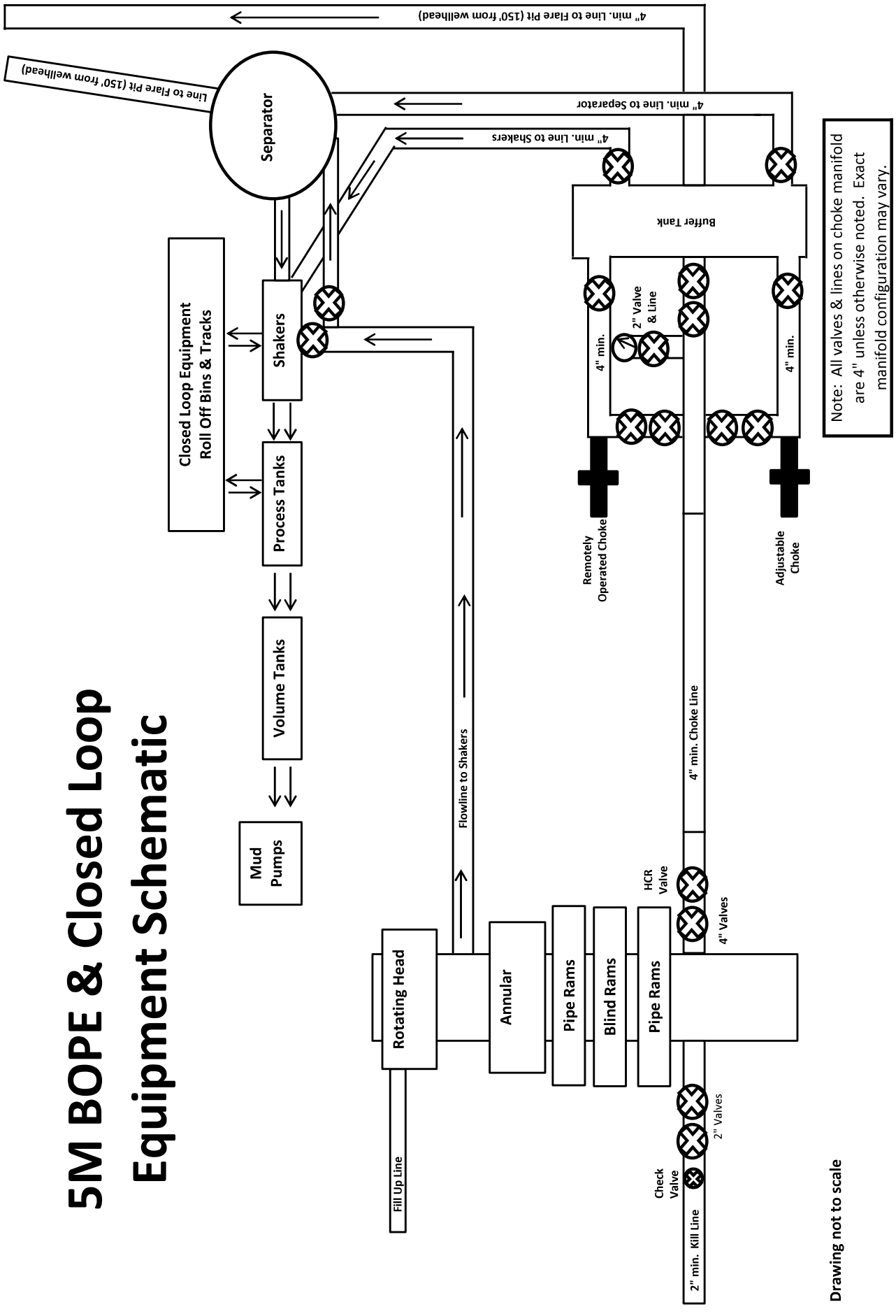
5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moosa Naqvi

Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E

End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

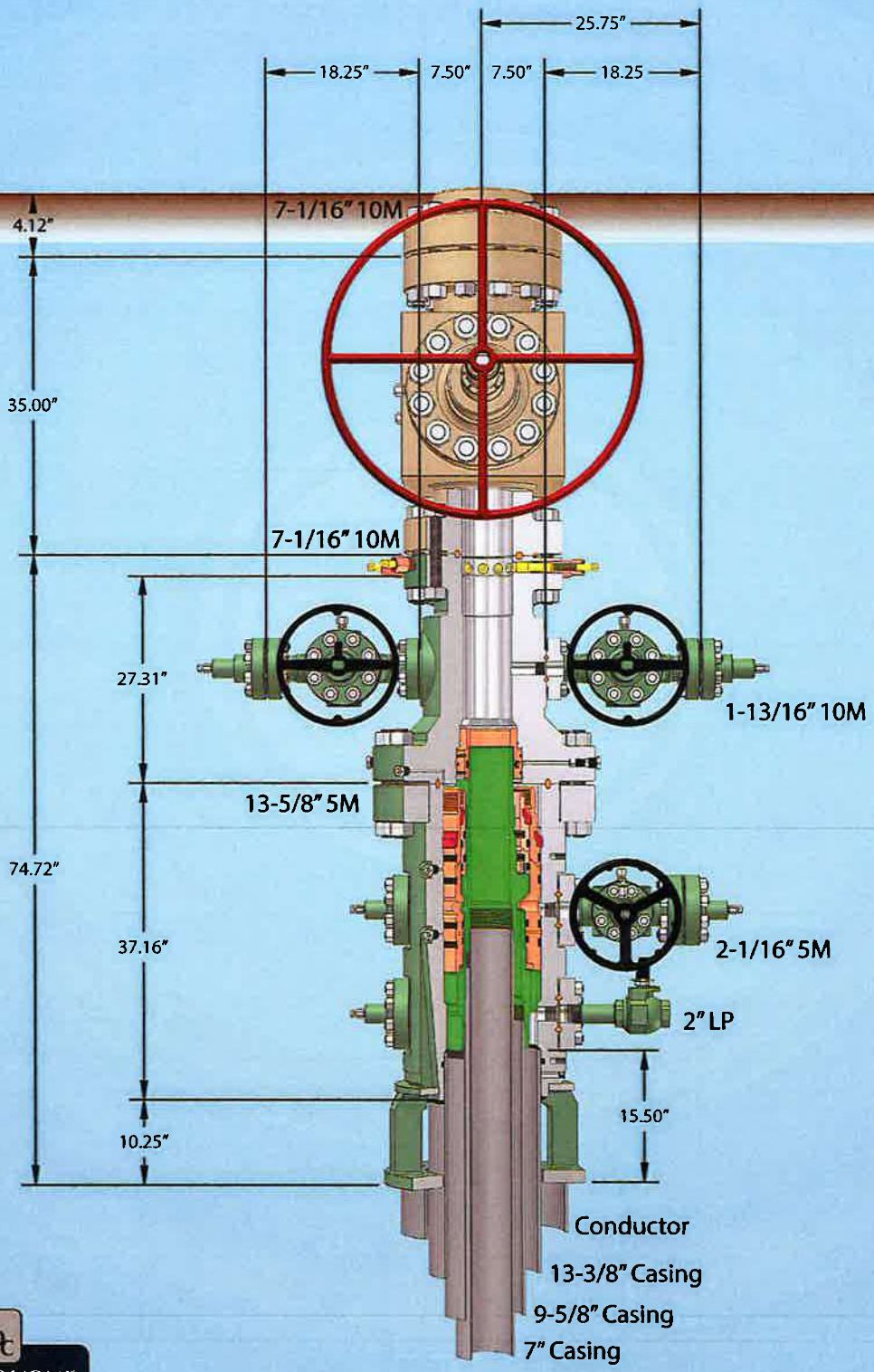
Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	Moosa Naqvi	Signature :	

Form PTC - 01 Rev.0 2

CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



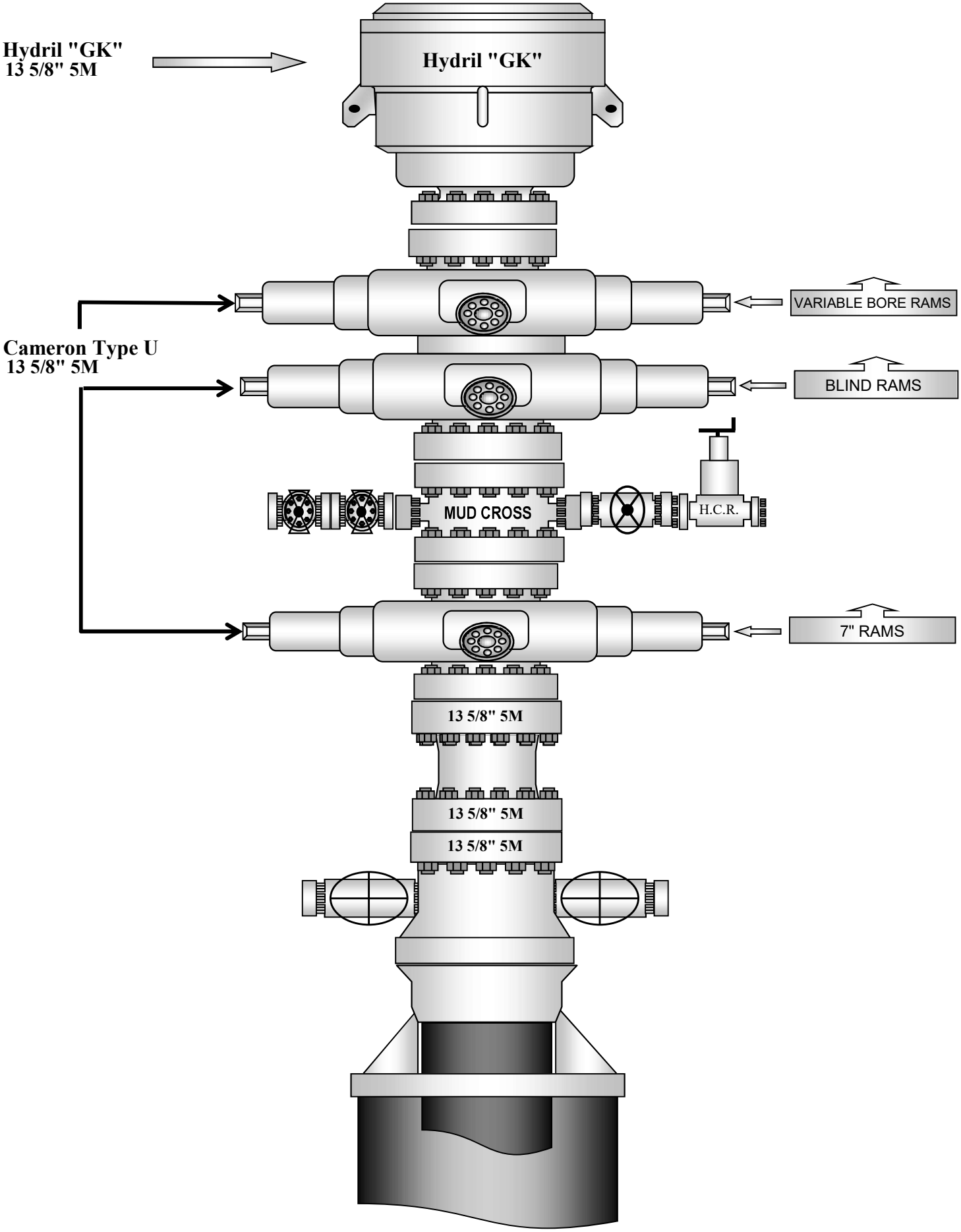
MEWBOURNE OIL COMPANY

C7585
Rev. 02
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Cupping flange 57" conductor cut-off

79

5M BOPE Schematic



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 11673

COMMENTS

Operator:	OGRID:	Action Number:	Action Type:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM88241	14744	11673	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 12/14/2020	12/14/2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11673

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM88241	14744	11673	FORM 3160-3

OCD Reviewer	Condition
kpickford	Will require a directional survey with the C-104
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water