Form 3160-3
(June 2015)

OCD Hobbs
HOBBS OCD
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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.
NMNM07484

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.
SAND CHUTE 9/16 B2KN FED COM 1H 322851

2. Name of Operator
MEWBOURNE OIL COMPANY 14744

9. API Well No.
30-025-45339

3a. Address
PO Box 5270 Hobbs NM 88240

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

10. Field and Pool, or Exploratory 24250
PEARL SOUTH / BONE SPRIING
FEATHERSTONE

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SENW / 2435 FNL / 1930 FWL / LAT 32.5882881 / LONG -103.4646243
At proposed prod. zone SESW / 330 FSL / 1980 FWL / LAT 32.5668276 / LONG -103.4644589

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 9 / T20S / R35E / NMP

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

12. County or Parish
LEA

13. State
NM

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

16. No of acres in lease

17. Spacing Unit dedicated to this well
240

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

19. Proposed Depth
10685 feet / 18213 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3693 feet

22. Approximate date work will start*
04/23/2018

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 | 02/23/2018 |

Title
Regulatory

| Approved by *(Signature)* | Name *(Printed/Typed)* | Date |
|---|---|---|
| (Electronic Submission) | Cody Layton / Ph: (575)234-5959 | 10/18/2018 |

| Title | Office |
|---|---|
| Assistant Field Manager Lands & Minerals | CARLSBAD |

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.

GCP Rec 11/07/18

APPROVED WITH CONDITIONS

KZ 11/07/18

(Continued on page 2)

*(Instructions on page 2)

**Approval Date: 10/18/2018**

Dobbs Sand

## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48( d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



(Continued on page 3)

## Additional Operator Remarks

### Location of Well

1. SHL: SENW / 2435 FNL / 1930 FWL / TWSP: 20S / RANGE: 35E / SECTION: 9 / LAT: 32.5882881 / LONG: -103.4646243 ( TVD: 0 feet, MD: 0 feet )
   PPP: NENW / 0 FNL / 1980 FWL / TWSP: 20S / RANGE: 35E / SECTION: 16 / LAT: 32.579926 / LONG: -103.464651 ( TVD: 10644 feet, MD: 13300 feet )
   PPP: NESW / 2313 FSL / 1980 FWL / TWSP: 20S / RANGE: 35E / SECTION: 9 / LAT: 32.586268 / LONG: -103.464604 ( TVD: 10627 feet, MD: 11200 feet )
   BHL: SESW / 330 FSL / 1980 FWL / TWSP: 20S / RANGE: 35E / SECTION: 16 / LAT: 32.5668276 / LONG: -103.4644589 ( TVD: 10685 feet, MD: 18213 feet )

## BLM Point of Contact

Name: Katrina Ponder
Title: Geologist
Phone: 5752345969
Email: kponder@blm.gov

## Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

AFMSS

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

# Application Data Report

10/23/2018

**APD ID:** 10400027638 **Submission Date:** 02/23/2018

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - General

**APD ID:** 10400027638 **Tie to previous NOS?** **Submission Date:** 02/23/2018

**BLM Office:** CARLSBAD **User:** Bradley Bishop **Title:** Regulatory

**Federal/Indian APD:** FED **Is the first lease penetrated for production Federal or Indian?** FED

**Lease number:** NMNM 7484 **Lease Acres:**

**Surface access agreement in place?** **Allotted?** **Reservation:**

**Agreement in place?** NO **Federal or Indian agreement:**

**Agreement number:**

**Agreement name:**

**Keep application confidential?** YES

**Permitting Agent?** NO **APD Operator:** MEWBOURNE OIL COMPANY

**Operator letter of designation:** SandChute9_16B2KNFedCom1H_operatorletterofdesignation_20180223094026.pdf

## Operator Info

**Operator Organization Name:** MEWBOURNE OIL COMPANY

**Operator Address:** PO Box 5270 **Zip:** 88240

**Operator PO Box:**

**Operator City:** Hobbs **State:** NM

**Operator Phone:** (575)393-5905

**Operator Internet Address:**

## Section 2 - Well Information

**Well in Master Development Plan?** NO **Mater Development Plan name:**

**Well in Master SUPO?** NO **Master SUPO name:**

**Well in Master Drilling Plan?** NO **Master Drilling Plan name:**

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H **Well API Number:**

**Field/Pool or Exploratory?** Field and Pool **Field Name:** PEARL SOUTH **Pool Name:** BONE SPRIING

**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,NATURAL GAS,OIL

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Describe other minerals:**

**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** NO **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL **Multiple Well Pad Name:** SAND CHUTE 9 **Number:** 2

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** APPRAISAL

**Describe sub-type:**

**Distance to town:** 20 Miles **Distance to nearest well:** 50 FT **Distance to lease line:** 208 FT

**Reservoir well spacing assigned acres Measurement:** 240 Acres

**Well plat:** SandChute9_16B2KNFedCom1H_wellplat_20180223094140.pdf

**Well work start Date:** 04/23/2018 **Duration:** 60 DAYS

## Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83 **Vertical Datum:** NAVD88

**Survey number:** 1

| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHL Leg #1 | 2435 | FNL | 1930 | FWL | 20S | 35E | 9 | Aliquot SENW | 32.588281 | -103.4646243 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 007484 | 3693 | 0 | 0 |
| KOP Leg #1 | 2435 | FNL | 1930 | FWL | 20S | 35E | 9 | Aliquot SENW | 32.588281 | -103.4646243 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 007484 | -6432 | 10125 | 10125 |
| PPP Leg #1 | 2313 | FSL | 1980 | FWL | 20S | 35E | 9 | Aliquot NESW | 32.586268 | -103.464604 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 132074 | -6934 | 11200 | 10627 |

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPP Leg #1 | 0 | FNL | 1980 | FWL | 20S | 35E | 16 | Aliquot NENW | 32.579926 | -103.464651 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -6951 | 13300 | 10644 |
| EXIT Leg #1 | 330 | FSL | 1980 | FWL | 20S | 35E | 16 | Aliquot SESW | 32.566826 | -103.464589 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -6992 | 18213 | 10685 |
| BHL Leg #1 | 330 | FSL | 1980 | FWL | 20S | 35E | 16 | Aliquot SESW | 32.566826 | -103.464589 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -6992 | 18213 | 10685 |

**United States Department of the Interior**
**Bureau of Land Management**
**Roswell Field Office**
**2909 West Second Street**
**Roswell, New Mexico 88201-1287**

## Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

| | |
|---|---|
| Lease Number: | NMNM 132074, NMNM 007484 & State |
| Legal Description of Land: | Section 9, T-20S, R-35E Lea County, New Mexico. Location @ 2435' FNL & 1930' FWL. |
| Formation (if applicable): | Bone Spring |
| Bond Coverage: | $150,000 |
| BLM Bond File: | NM1693 Nationwide, NMB 000919 |

Authorized Signature:_____
Name: Bradley Bishop
Title: Regulatory Manager
Date: 02-23-2018

Sand_Chute_9_16_B2KN_Fed_Com_1H_5M_BOPE_Choke_Diagram_20180223142625.pdf

Sand_Chute_9_16_B2KN_Fed_Com_1H_Flex_Line_Specs_20180223142628.pdf

**BOP Diagram Attachment:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_5M_BOPE_Schematic_20180223142645.pdf

Sand_Chute_9_16_B2KN_Fed_Com_1H_Multi_Bowl_WH_20180223142646.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 | Y | 0 | 2075 | 0 | 2075 | 3720 | | 2075 | J-55 | 54.5 | STC | 1.16 | 2.81 | DRY | 15.4 | DRY | 25.55 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | Y | 0 | 6395 | 0 | 6395 | 3720 | | 6395 | HCL-80 | 40 | LTC | 1.27 | 1.73 | DRY | 18.8 | DRY | 20.58 |
| 3 | PRODUCTION | 8.75 | 7.0 | NEW | API | N | 0 | 10943 | 0 | 10625 | 3720 | | 10943 | P-110 | 26 | LTC | 1.48 | 1.89 | DRY | 2.27 | DRY | 2.92 |
| 4 | LINER | 6.125 | 4.5 | NEW | API | N | 10125 | 18215 | 10125 | 10685 | | | 8090 | P-110 | 13.5 | LTC | 1.92 | 2.23 | DRY | 3.09 | DRY | 3.86 |

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_TaperedSurf_20180223144314.pdf

**Casing Design Assumptions and Worksheet(s):**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Csg_Assumptions_20180223144844.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_TaperedInter_20180223144432.pdf

**Casing Design Assumptions and Worksheet(s):**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Csg_Assumptions_20180223144854.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Csg_Assumptions_20180223144903.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Csg_Assumptions_20180223144911.pdf

## Section 4 - Cement

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Lead | | 0 | 1882 | 1235 | 2.12 | 12.5 | 2618 | 100 | Class C | Salt, Gel, Extender, LCM |
| SURFACE | Tail | | 1882 | 2075 | 200 | 1.34 | 14.8 | 268 | 100 | Class C | Retarder |
| INTERMEDIATE | Lead | | 0 | 5754 | 1135 | 2.12 | 12.5 | 2406 | 25 | Class C | Salt, Gel, Extender, LCM |
| INTERMEDIATE | Tail | | 5754 | 6395 | 200 | 1.34 | 14.8 | 268 | 25 | Class C | Retarder |
| PRODUCTION | Lead | | 6195 | 8471 | 205 | 2.12 | 12.5 | 435 | 25 | Class C | Gel, Retarder, Defoamer, Extender |
| PRODUCTION | Tail | | 8471 | 10943 | 400 | 1.18 | 15.6 | 472 | 25 | Class H | Retarder, Fluid Loss, Defoamer |
| LINER | Lead | | 10125 | 18215 | 330 | 2.97 | 11.2 | 980 | 25 | Class C | Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent |

## 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:** 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

| 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 | 2075 | SPUD MUD | 8.6 | 8.8 | | | | | | | |
| 2075 | 6395 | SALT SATURATED | 10 | 10 | | | | | | | |
| 6395 | 10125 | WATER-BASED MUD | 8.6 | 9.5 | | | | | | | |
| 10125 | 10685 | OIL-BASED MUD | 8.4 | 10 | | | | | | | |

## Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (10125') to surface

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

CNL,DS,GR,MWD,MUDLOG

**Coring operation description for the well:**

None

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5556 **Anticipated Surface Pressure:** 3205.3

**Anticipated Bottom Hole Temperature(F):** 150

**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:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_H2S_Plan_20180223145824.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Dir_Plot_20180223145845.pdf
Sand_Chute_9_16_B2KN_Fed_Com_1H_Dir_Plan_20180223145845.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Sand_Chute_9_16_B2KN_Fed_Com_1H_Drlg_Program_20180223145857.doc

**Other Variance attachment:**

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 |

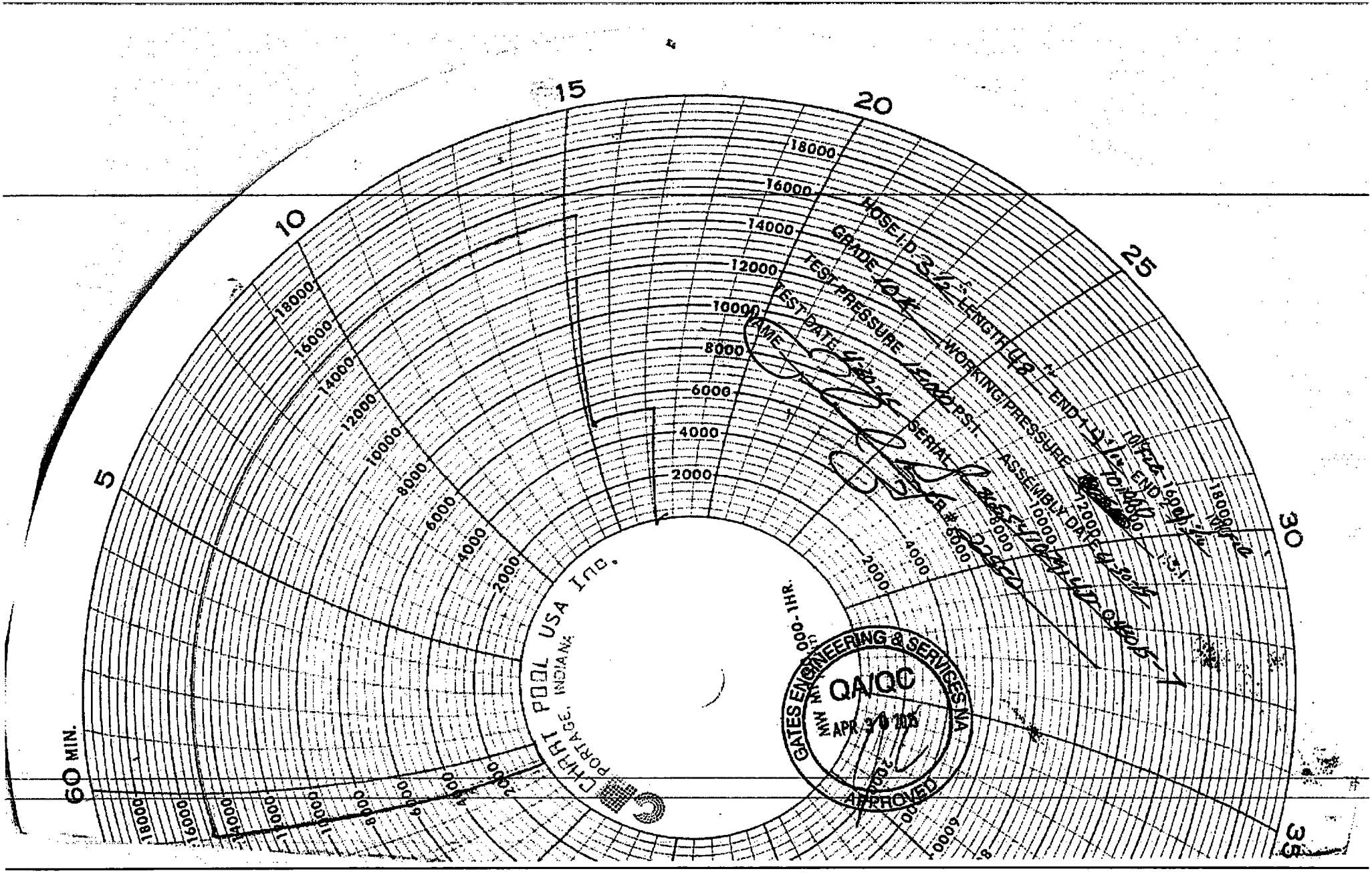
| | |
|---|---|
| Product Description: | 10K3.548.0CK4.1/1610KFLGE/E LE |

| | | | |
|---|---|---|---|
| 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 : | | Signature : | |

Form PTC - 01 Rev.0 2


5
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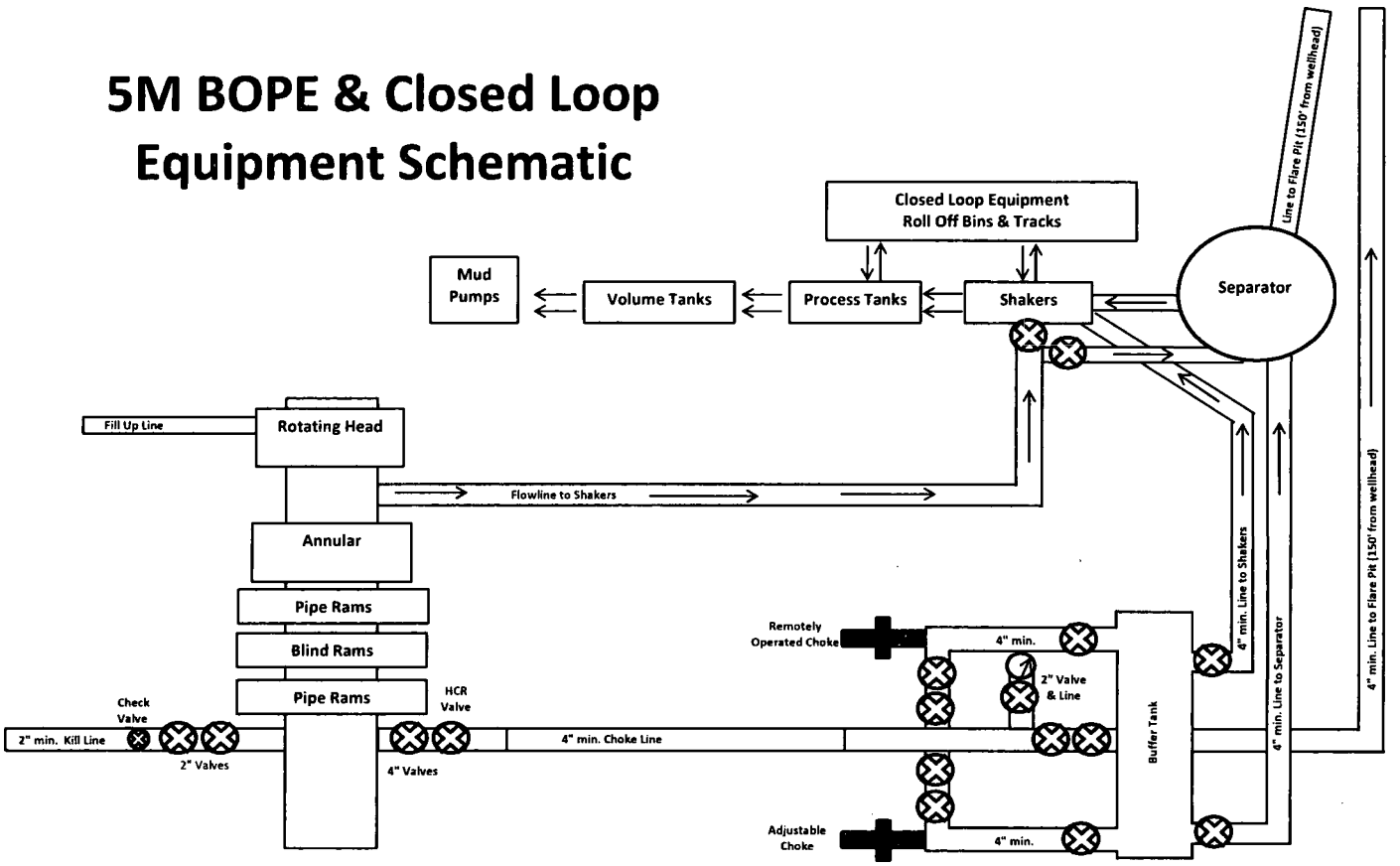
HOSE I.D. 3 1/2"
LENGTH 48"
GRADE 10K
WORKING PRESSURE 5000 P.S.I.
TEST PRESSURE 10000 P.S.I.
TEST DATE 4-20-17
NAME
SERIAL # 6000
ASSEMBLY DATE 4-20-17
END 1
END 2
CHART POOL USA Inc.
PORTAGE, INDIANA
GATES ENGINEERING & SERVICES NA
QA/QC
APPROVED

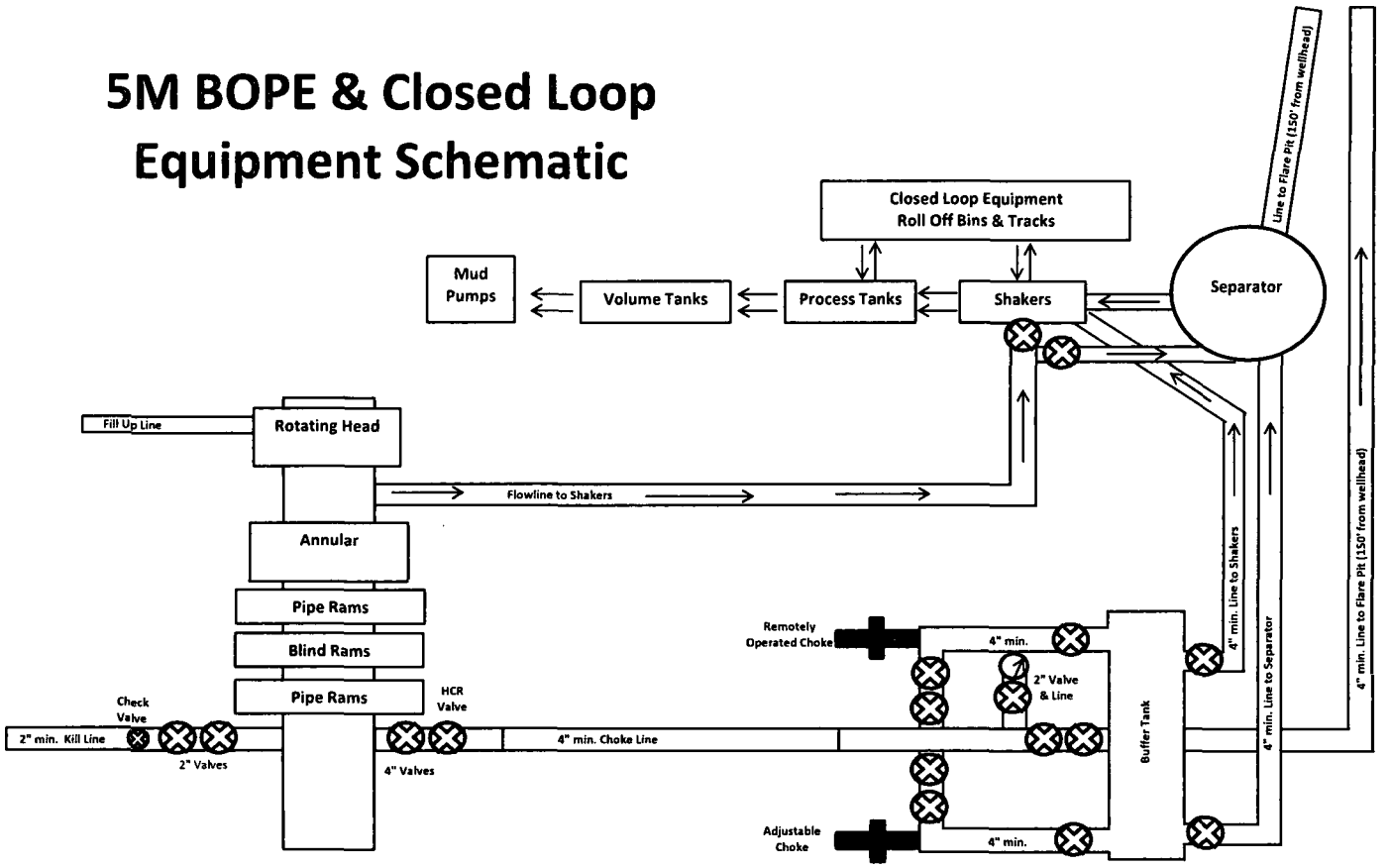
# 5M BOPE & Closed Loop Equipment Schematic




Drawing not to scale

Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

# 5M BOPE & Closed Loop Equipment Schematic




Drawing not to scale

Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.

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

CHART POOL USA INC.
PORTAGE, INDIANA
60 MIN.
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10000
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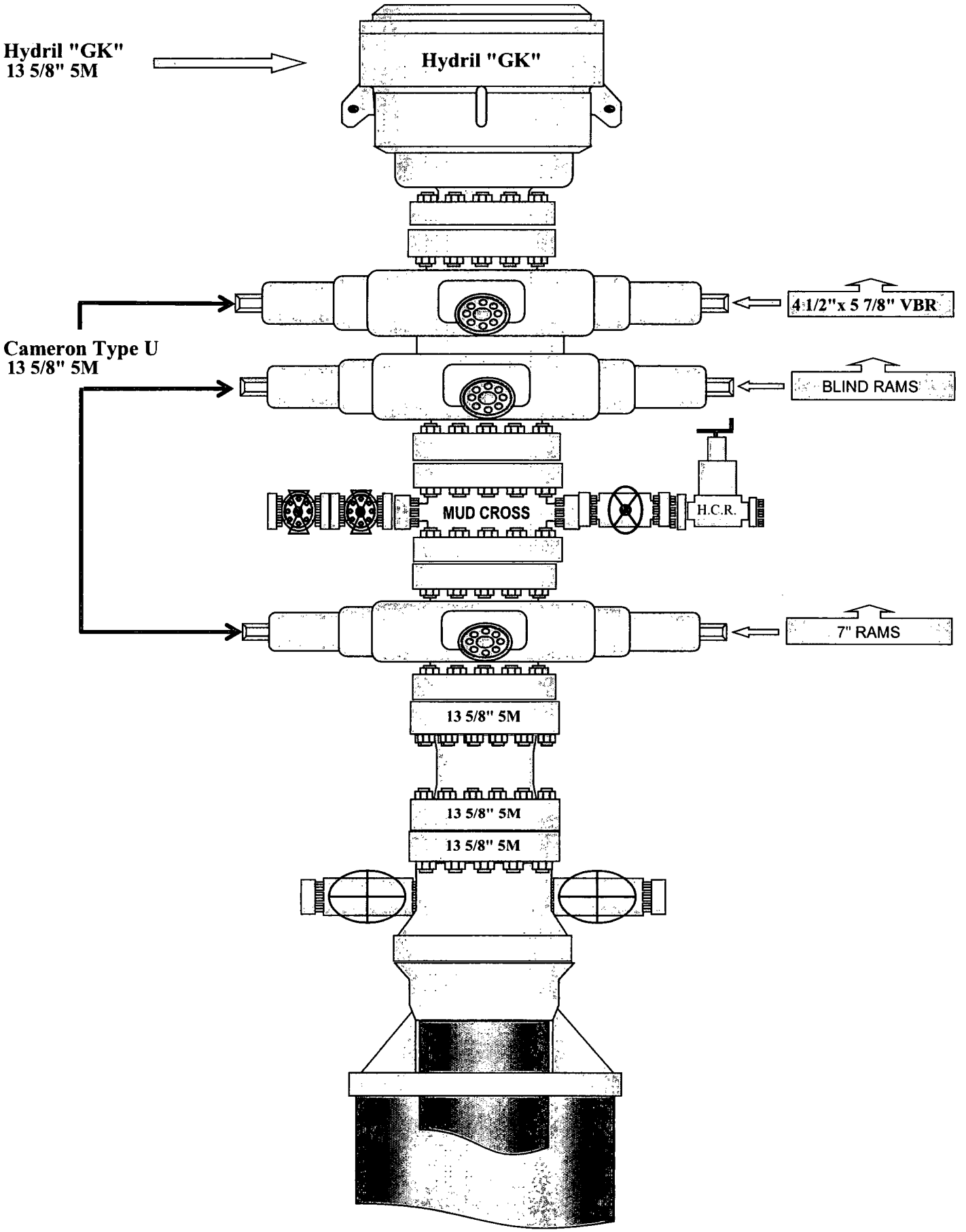
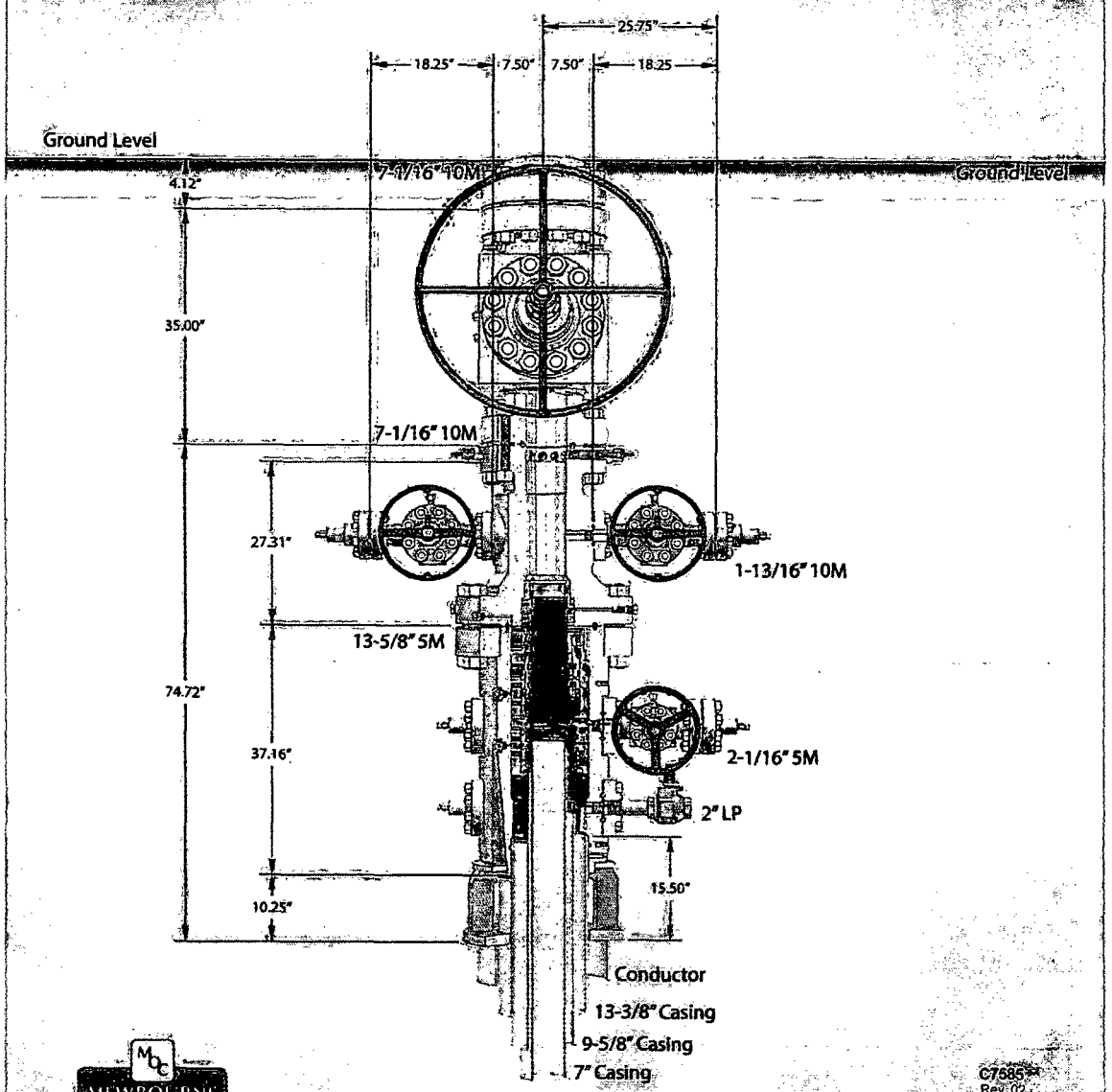
14000
16000
18000
GATES ENGINEERING & SERVICES VA
APPROVED
QAQCC
APR 30 '05
000-1HR.

**5M BOPE Schematic**



CAMERON
A Schlumberger Company

# 13-5/8" MN-DS Wellhead System

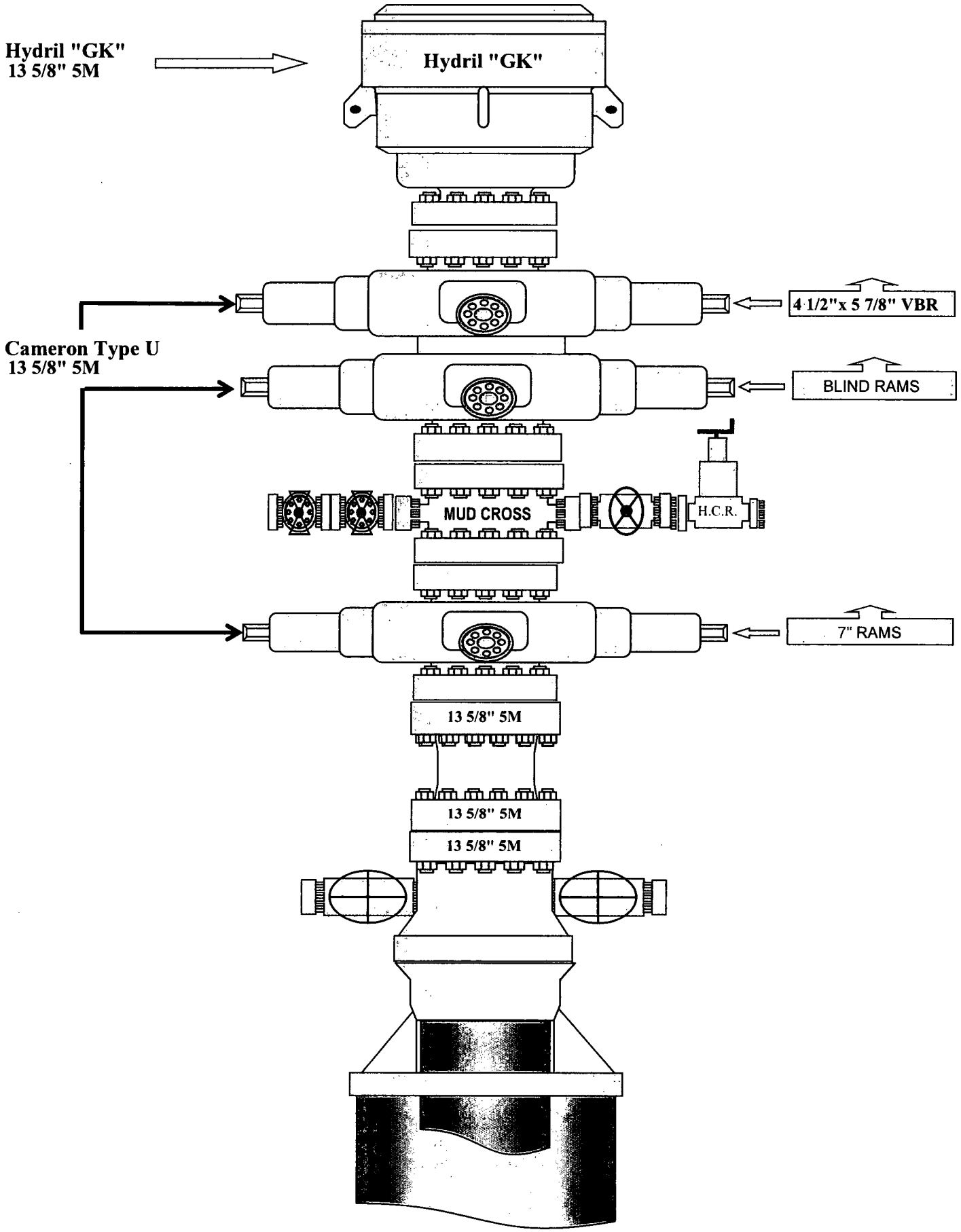



MEWBOURNE OIL COMPANY

C7585
Rev. 02

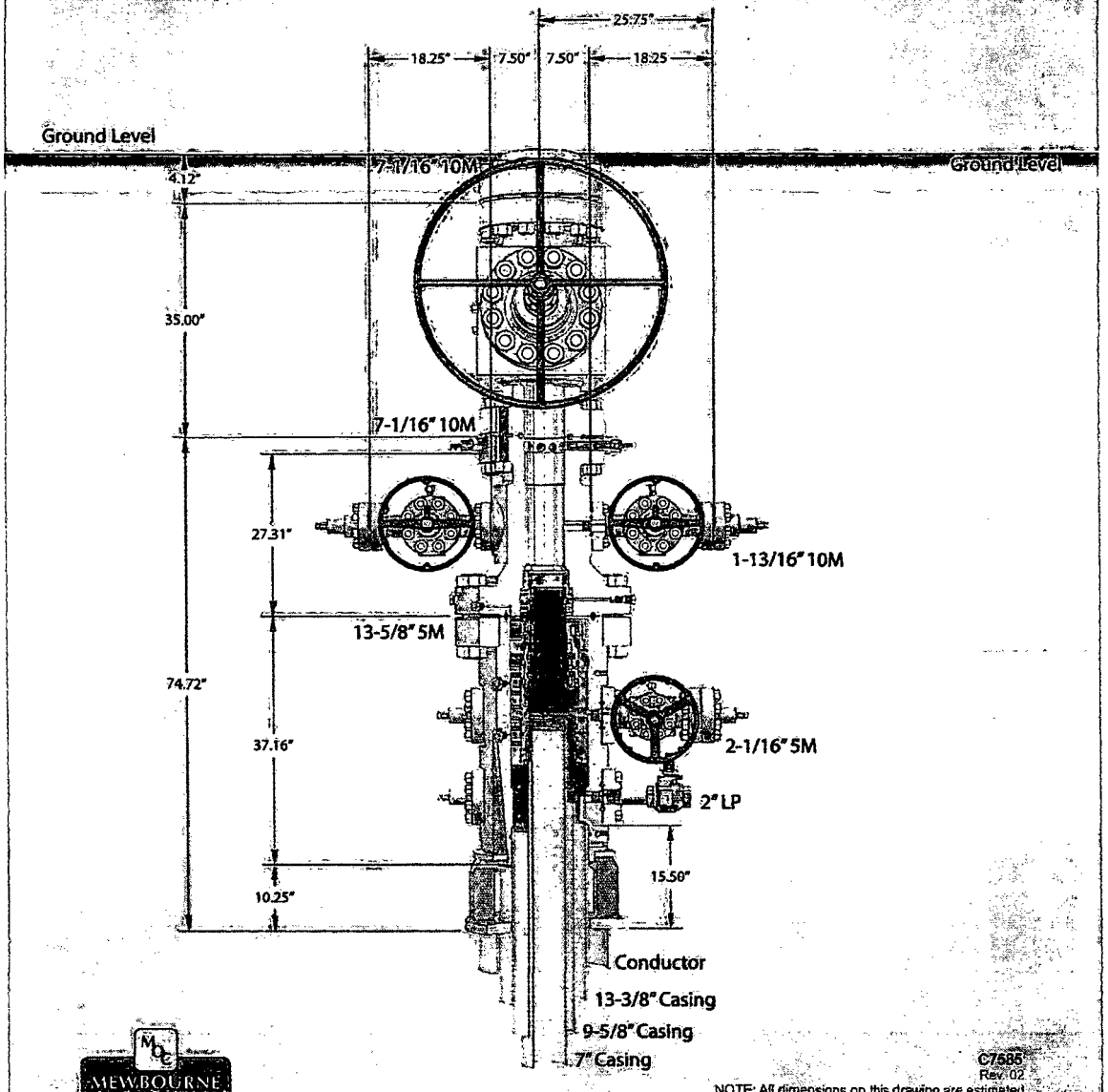
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Cutting Flange 57' conductor cut-off


Hydril "GK"
13 5/8" 5M
Hydril "GK"
4 1/2"x 5 7/8" VBR
Cameron Type U
13 5/8" 5M
BLIND RAMS
MUD CROSS
H.C.R.
7" RAMS
13 5/8" 5M
13 5/8" 5M
13 5/8" 5M

CAMERON
A Schlumberger Company

# 13-5/8" MN-DS Wellhead System




C7585
Rev. 02

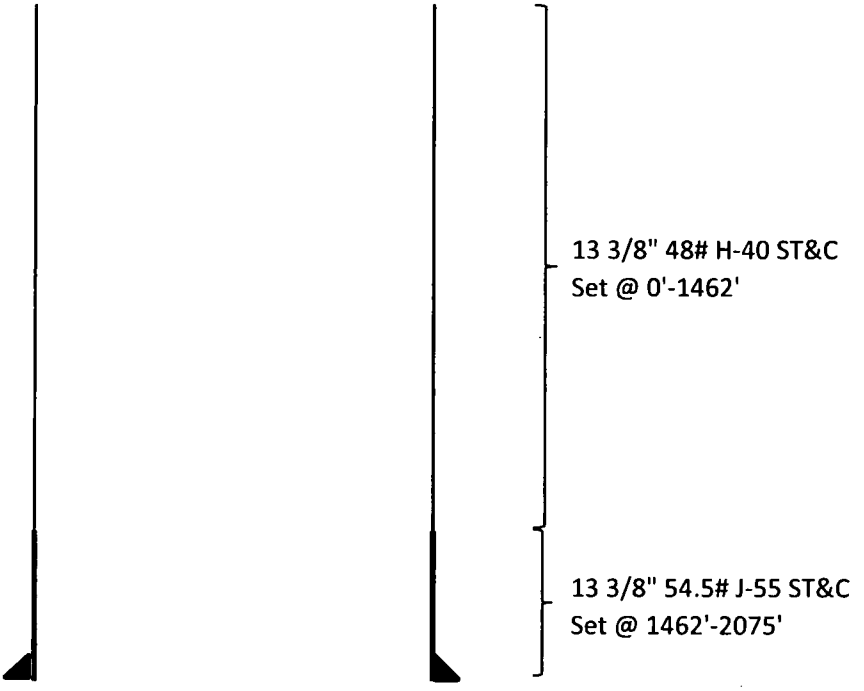
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

MEWBOURNE OIL COMPANY

Cap Pressure 57" conductor cw-cut

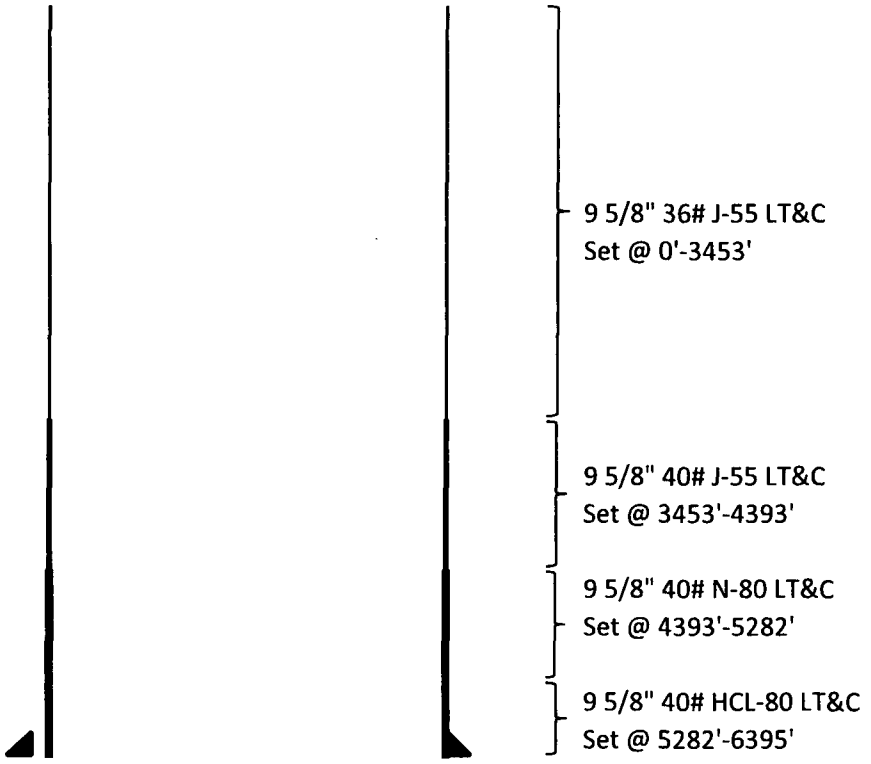
79

Sand Chute 9/16 B2KN Fed Com #1H
Surface Casing




| Casing | SF Collapse | SF Burst | SF Jt Tension | SF Body Tension |
|---|---|---|---|---|
| 48# H-40 | 1.13 | 2.53 | 3.11 | 7.71 |
| 54.5# J-55 | 1.16 | 2.81 | 15.4 | 25.55 |

Sand Chute 9/16 B2KN Fed Com #1H
Intermediate Casing




| Casing | SF Collapse | SF Burst | SF Jt Tension | SF Body Tension |
|---|---|---|---|---|
| 36# J-55 | 1.13 | 1.96 | 1.87 | 4.54 |
| 40# J-55 | 1.13 | 1.73 | 4.42 | 16.75 |
| 40# N-80 | 1.13 | 2.09 | 9.2 | 25.76 |
| 40# HCL-80 | 1.27 | 1.73 | 18.8 | 20.58 |

**Mewbourne Oil Company, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
**SL: 2435' FNL & 1930' FWL, Sec 9**
**BHL: 330' FSL & 1980' FWL, Sec 16**

**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' | 1462' | 13.375" | 48 | H40 | STC | 1.13 | 2.53 | 3.11 | 7.71 |
| 17.5" | 1462' | 2075' | 13.375" | 54.5 | J55 | STC | 1.16 | 2.81 | 15.40 | 25.55 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 1.87 | 4.54 |
| 12.25" | 3453' | 4393' | 9.625" | 40 | J55 | LTC | 1.13 | 1.73 | 4.42 | 16.75 |
| 12.25" | 4393' | 5282' | 9.625" | 40 | N80 | LTC | 1.13 | 2.09 | 9.20 | 25.76 |
| 12.25" | 5282' | 6395' | 9.625" | 40 | HCL80 | LTC | 1.27 | 1.73 | 18.80 | 20.58 |
| 8.75" | 0' | 10,943' | 7" | 26 | P110 | LTC | 1.48 | 1.89 | 2.27 | 2.92 |
| 6.125" | 7914' | 18,150' | 4.5" | 13.5 | P110 | LTC | 1.92 | 2.23 | 3.09 | 3.86 |
| | | | | BLM Minimum Safety Factor | | | 1.125 | 1 | 1.6 Dry<br>1.8 Wet | 1.6 Dry<br>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? | N |
| If yes, are there two strings cemented to surface? | |
| (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, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
**SL: 2435' FNL & 1930' FWL, Sec 9**
**BHL: 330' FSL & 1980' FWL, Sec 16**

**Casing Program**

| Hole Size | Casing Interval From | To | Csg. Size | Weight (lbs) | Grade | Conn. | SF Collapse | SF Burst | SF Jt Tension | SF Body Tension |
|---|---|---|---|---|---|---|---|---|---|---|
| 17.5" | 0' | 1462' | 13.375" | 48 | H40 | STC | 1.13 | 2.53 | 3.11 | 7.71 |
| 17.5" | 1462' | 2075' | 13.375" | 54.5 | J55 | STC | 1.16 | 2.81 | 15.40 | 25.55 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 1.87 | 4.54 |
| 12.25" | 3453' | 4393' | 9.625" | 40 | J55 | LTC | 1.13 | 1.73 | 4.42 | 16.75 |
| 12.25" | 4393' | 5282' | 9.625" | 40 | N80 | LTC | 1.13 | 2.09 | 9.20 | 25.76 |
| 12.25" | 5282' | 6395' | 9.625" | 40 | HCL80 | LTC | 1.27 | 1.73 | 18.80 | 20.58 |
| 8.75" | 0' | 10,943' | 7" | 26 | P110 | LTC | 1.48 | 1.89 | 2.27 | 2.92 |
| 6.125" | 7914' | 18,150' | 4.5" | 13.5 | P110 | LTC | 1.92 | 2.23 | 3.09 | 3.86 |
| | | | | BLM Minimum Safety Factor | | | 1.125 | 1 | 1.6 Dry<br>1.8 Wet | 1.6 Dry<br>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? | N |
| If yes, are there two strings cemented to surface? | |
| (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, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
**SL: 2435' FNL & 1930' FWL, Sec 9**
**BHL: 330' FSL & 1980' FWL, Sec 16**

## 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' | 1462' | 13.375" | 48 | H40 | STC | 1.13 | 2.53 | 3.11 | 7.71 |
| 17.5" | 1462' | 2075' | 13.375" | 54.5 | J55 | STC | 1.16 | 2.81 | 15.40 | 25.55 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 1.87 | 4.54 |
| 12.25" | 3453' | 4393' | 9.625" | 40 | J55 | LTC | 1.13 | 1.73 | 4.42 | 16.75 |
| 12.25" | 4393' | 5282' | 9.625" | 40 | N80 | LTC | 1.13 | 2.09 | 9.20 | 25.76 |
| 12.25" | 5282' | 6395' | 9.625" | 40 | HCL80 | LTC | 1.27 | 1.73 | 18.80 | 20.58 |
| 8.75" | 0' | 10,943' | 7" | 26 | P110 | LTC | 1.48 | 1.89 | 2.27 | 2.92 |
| 6.125" | 7914' | 18,150' | 4.5" | 13.5 | P110 | LTC | 1.92 | 2.23 | 3.09 | 3.86 |
| | | | | BLM Minimum Safety Factor | | | 1.125 | 1 | 1.6 Dry<br>1.8 Wet | 1.6 Dry<br>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? | N |
| If yes, are there two strings cemented to surface? | |
| (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? | |

AFMSS

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

# Bond Info Data Report

10/23/2018

## Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** NM1693

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

**Injection well type:**

**Injection well number:** **Injection well name:**

**Assigned injection well API number?** **Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

## Section 5 - Surface Discharge

**Would you like to utilize Surface Discharge PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

## Section 6 - Other

**Would you like to utilize Other PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

## Section 3 - Unlined Pits

**Would you like to utilize Unlined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule attachment:**

**Unlined pit reclamation description:**

**Unlined pit reclamation attachment:**

**Unlined pit Monitor description:**

**Unlined pit Monitor attachment:**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user confirmation:**

**Estimated depth of the shallowest aquifer (feet):**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic evidence:**

**State authorization:**

**Unlined Produced Water Pit Estimated percolation:**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information attachment:**

## Section 4 - Injection

**Would you like to utilize Injection PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

## Section 1 - General

**Would you like to address long-term produced water disposal?** NO

## Section 2 - Lined Pits

**Would you like to utilize Lined Pit PWD options?** NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit specifications:**

**Pit liner description:**

**Pit liner manufacturers information:**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule attachment:**

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

**Leak detection system description:**

**Leak detection system attachment:**

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Fee Owner:** Pearl Valley Limited Partnership **Fee Owner Address:** PO Box 1046, Eunice NM 88231

**Phone:** (575)390-2642 **Email:**

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** Agreement

**Surface Access Agreement Need description:** SUA in place

**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

## Section 12 - Other Information

**Right of Way needed?** NO **Use APD as ROW?**

**ROW Type(s):**

## ROW Applications

**SUPO Additional Information:** NONE

**Use a previously conducted onsite?** YES

**Previous Onsite information:** Met w/RRC Surveying & staked location @ 2435' FNL & 1930' FWL, Sec 9, T20S, R35E, Lea Co. NM. (Elevation @ 3693'). Pad size 450' x 450'. Topsoil to the S. Battery to the N. Reclaim 60' to the S, E, & W. Road enters NE side of location & will need upgraded. Cattle guard needed to access location.

## Other SUPO Attachment

SandChute9_16B2KNFedCom1H_GASCAPTUREPLAN_20180223100959.pdf

SandChute9_4B2FCFedCom1H_interimreclamation_20180223131807.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** NMSLO

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Seed use location:**

**PLS pounds per acre:** **Proposed seeding season:**

| Seed Summary | |
|---|---|
| **Seed Type** | **Pounds/Acre** |

**Total pounds/Acre:**

**Seed reclamation attachment:**

## Operator Contact/Responsible Official Contact Info

**First Name:** Bradley **Last Name:** Bishop

**Phone:** (575)393-5905 **Email:** bbishop@mewbourne.com

**Seedbed prep:** Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
**Seed BMP:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Seed method:** drilling or broadcasting seed over entire reclaimed area.

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** NA

**Weed treatment plan attachment:**

**Monitoring plan description:** vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.
**Monitoring plan attachment:**

**Success standards:** regrowth within 1 full growing season of reclamation.

**Pit closure description:** NA

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
**Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.
**Soil treatment:** NA

**Existing Vegetation at the well pad:** Various brush & grasses

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Various brush & grasses

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** NA

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** NA

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed Management

### Seed Table

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

## Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

## Section 9 - Well Site Layout

**Well Site Layout Diagram:**

SandChute9_4B2FCFedCom1H_wellsitelayout_20180223131748.pdf

**Comments:**

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** SAND CHUTE 9

**Multiple Well Pad Number:** 2

**Recontouring attachment:**

**Drainage/Erosion control construction:** None

**Drainage/Erosion control reclamation:** None

| | | |
|---|---|---|
| **Well pad proposed disturbance (acres):** 4.648 | **Well pad interim reclamation (acres):** 1.556 | **Well pad long term disturbance (acres):** 3.092 |
| **Road proposed disturbance (acres):** 0 | **Road interim reclamation (acres):** 0 | **Road long term disturbance (acres):** 0 |
| **Powerline proposed disturbance (acres):** 0 | **Powerline interim reclamation (acres):** 0 | **Powerline long term disturbance (acres):** 0 |
| **Pipeline proposed disturbance (acres):** 0 | **Pipeline interim reclamation (acres):** 2.9593663 | **Pipeline long term disturbance (acres):** 2.9593663 |
| **Other proposed disturbance (acres):** 0 | **Other interim reclamation (acres):** 0 | **Other long term disturbance (acres):** 0 |
| **Total proposed disturbance:** 4.648 | **Total interim reclamation:** 4.515366 | **Total long term disturbance:** 6.0513663 |

**Disturbance Comments:** In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.
**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is

**Safe containment description:** 2,000 gallon plastic container

**Safe containmant attachment:**

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

**Disposal location description:** City of Carlsbad Water Treatment facility

**Waste type:** GARBAGE

**Waste content description:** Garbage & trash

**Amount of waste:** 1500 pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** Enclosed trash trailer

**Safe containmant attachment:**

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

**Disposal location description:** Waste Management facility in Carlsbad.

## Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**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**

## Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** NO

**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?**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):** **Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):** **Well casing type:**

**Well casing outside diameter (in.):** **Well casing inside diameter (in.):**

**New water well casing?** **Used casing source:**

**Drilling method:** **Drill material:**

**Grout material:** **Grout depth:**

**Casing length (ft.):** **Casing top depth (ft.):**

**Well Production type:** **Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Construction Materials description:** Caliche

***Construction Materials source location attachment:***

SandChute9_16B2KNFedCom1H_calichesourceandtransmap_20180223095620.pdf

## Section 7 - Methods for Handling Waste

**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.

**Waste type:** SEWAGE

**Waste content description:** Human waste & grey water

**Amount of waste:** 1500 gallons

**Waste disposal frequency :** Weekly

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Existing Wells description:**

## Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer. b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location. c. Production from the proposed well will be located on the North edge of location. d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction. e. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

**Production Facilities map:**

SandChute9_4B2FCFedCom1H_productionfacilitylayout_20180223131738.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source use type:** DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

**Water source type:** IRRIGATION

**Describe type:**

**Source longitude:** -103.411835

**Source latitude:** 32.62459

**Source datum:** NAD83

**Water source permit type:** PRIVATE CONTRACT,WATER WELL

**Source land ownership:** PRIVATE

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 1940

**Source volume (acre-feet):** 0.2500526

**Source volume (gal):** 81480

**Water source and transportation map:**

SandChute9_16B2KNFedCom1H_watersourceandtransmap_20180223095429.pdf

**Water source comments:**

**New water well?** NO

### New Water Well Info

**Well latitude:** **Well Longitude:** **Well datum:**

**APD ID:** 10400027638 **Submission Date:** 02/23/2018

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

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## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

SandChute9_4B2FCFedCom1H_existingroadmap_20180223131718.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** NO

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

SandChute9_16B2KNFedCom1H_existingwellmap_20180223095228.pdf

## 7. Drilling Conditions

| Condition | Specify what type and where? |
|---|---|
| BH Pressure at deepest TVD | 5556 psi |
| Abnormal Temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

| | |
|---|---|
| Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. | |
| | H2S is present |
| X | H2S Plan attached |

## 8. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments
___ Directional Plan
___ Other, describe

**Mewbourne Oil Company, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
**SL: 2435' FNL & 1930' FWL, Sec 9**
**BHL: 330' FSL & 1980' FWL, Sec 16**

## 5. Mud Program

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|---|
| From | To | | | | |
| 0' | 2075' | Spud Mud | 8.6-8.8 | 28-34 | N/C |
| 2075' | 6395' | BW | 10.0 | 28-34 | N/C |
| 6395' | 10,125' | FW w/ Polymer | 8.6-9.7 | 28-34 | N/C |
| 10,125' | 18,215' | OBM | 8.6-10.0 | 30-40 | <10cc |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|---|
| What will be used to monitor the loss or gain of fluid? | Pason/PVT/Visual Monitoring |

## 6. Logging and Testing Procedures

| Logging, Coring and Testing. | |
|---|---|
| X | Will run GR/CNL from KOP (10,125') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No Logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain |
| | Coring? If yes, explain |

| Additional logs planned | | Interval |
|---|---|---|
| X | Gamma Ray | 10,125' (KOP) to TD |
| | Density | |
| | CBL | |
| | Mud log | |
| | PEX | |

**Mewbourne Oil Company, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
**SL: 2435' FNL & 1930' FWL, Sec 9**
**BHL: 330' FSL & 1980' FWL, Sec 16**

## 4. Pressure Control Equipment

| | |
|---|---|
| | Variance: None |

| BOP installed and tested before drilling which hole? | Size? | System Rated WP | Type | ✓ | Tested to: |
|---|---|---|---|---|---|
| 12-1/4" | 13-5/8" | 5M | Annular | X | 2500# |
| | | | Blind Ram | X | 5000# |
| | | | Pipe Ram | X | |
| | | | Double Ram | | |
| | | | Other* | | |

*Specify if additional ram is utilized.

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 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. See attached schematics.

| | |
|---|---|
| X | Formation integrity test will be performed per Onshore Order #2.<br>On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. |
| Y | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. |
| | N Are anchors required by manufacturer? |
| Y | A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.<br>• Provide description here: See attached schematic. |

**Mewbourne Oil Company, Sand Chute 9/16 B2KN Fed Com #1H**
**Sec 9, T20S, R35E**
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## 3. Cementing Program

| Casing | # Sks | Wt. lb/ gal | Yld ft3/ sack | $H_2O$ gal/ sk | 500# Comp. Strength (hours) | Slurry Description |
|---|---|---|---|---|---|---|
| Surf. | 1235 | 12.5 | 2.12 | 11 | 10 | Lead: Class C + Salt + Gel + Extender + LCM |
| | 200 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Inter. | 1135 | 12.5 | 2.12 | 11 | 10 | Lead: Class C + Salt + Gel + Extender + LCM |
| | 200 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Prod. | 205 | 12.5 | 2.12 | 11 | 9 | Lead: Class C + Gel + Retarder + Defoamer + Extender |
| | 400 | 15.6 | 1.18 | 5.2 | 10 | Tail: Class H + Retarder + Fluid Loss + Defoamer |
| Liner | 330 | 11.2 | 2.97 | 17 | 16 | Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent |

A copy of cement test will be available on location at time of cement job providing pump times, compressive strengths, etc.

| Casing String | TOC | % Excess |
|---|---|---|
| Surface | 0' | 100% |
| Intermediate | 0' | 25% |
| Production | 6195' | 25% |
| Liner | 10125' | 25% |

**APD ID:** 10400027638 **Submission Date:** 02/23/2018

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SAND CHUTE 9/16 B2KN FED COM **Well Number:** 1H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

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## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|---|---|---|---|---|---|---|---|
| 1 | UNKNOWN | 3693 | 27 | 27 | | NONE | No |
| 2 | RUSTLER | 1693 | 2000 | 2000 | DOLOMITE,ANHYDRITE | NONE | No |
| 3 | BOTTOM SALT | 283 | 3410 | 3410 | SALT | NONE | No |
| 4 | YATES | -27 | 3720 | 3720 | SANDSTONE | NATURAL GAS,OIL | No |
| 5 | SEVEN RIVERS | -497 | 4190 | 4190 | DOLOMITE | NATURAL GAS,OIL | No |
| 6 | QUEEN | -917 | 4610 | 4610 | SANDSTONE,DOLOMITE | NATURAL GAS,OIL | No |
| 7 | LAMAR | -2777 | 6470 | 6470 | LIMESTONE | NATURAL GAS,OIL | No |
| 8 | BONE SPRING | -4527 | 8220 | 8220 | LIMESTONE,SHALE | NATURAL GAS,OIL | No |
| 9 | BONE SPRING 1ST | -5857 | 9550 | 9550 | SANDSTONE | NATURAL GAS,OIL | No |
| 10 | BONE SPRING 2ND | -6457 | 10150 | 10150 | SANDSTONE | NATURAL GAS,OIL | Yes |

## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M **Rating Depth:** 18215

**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 the choke manifold. Anchors are not required by manufacturer. A multi-bowl wellhead is being used. Please 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 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. See attached schematics.

**Choke Diagram Attachment:**

AFMSS

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

# Operator Certification Data Report

10/23/2018

## Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Bradley Bishop **Signed on:** 02/23/2018

**Title:** Regulatory

**Street Address:** PO Box 5270

**City:** Hobbs **State:** NM **Zip:** 88240

**Phone:** (575)393-5905

**Email address:** bbishop@mewbourne.com

## Field Representative

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**