HOBBS OCD
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Form 3160-3
(March 2012)

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM 86710

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.: (317279) BILBREY 34/27 B2OB FED COM 2H

2. Name of Operator: MEWBOURNE OIL COMPANY (14744)

9. API Well No.: 30-025-45009

3a. Address: PO Box 5270 Hobbs NM 88240

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

10. Field and Pool, or Exploratory: (5695) BILBREY BASIN / BONE SPRING

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

At surface: SWSE / 205 FSL / 1351 FEL / LAT 32.428563 / LONG -103.6584383

At proposed prod. zone: NWNE / 330 FNL / 1800 FEL / LAT 32.4561459 / LONG -103.6598732

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 34 / T21S / R32E / 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): 185 feet

16. No. of acres in lease:

17. Spacing Unit dedicated to this well: 320

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 1012 feet

19. Proposed Depth: 10684 feet / 20792 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3717 feet

22. Approximate date work will start*: 06/07/2018

23. Estimated duration: 60 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	Bradley Bishop / Ph: (575)393-5905	03/19/2018

Title: Regulatory

Approved by (Signature)	Name (Printed/Typed)	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	07/18/2018

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.

(Continued on page 2)

*(Instructions on page 2)

GCP Rec 07/18/18

APPROVED WITH CONDITIONS

KA 07/20/18

Approval Date: 07/18/2018

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 1: 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 well, 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 directionally 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.

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 well 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 will 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 collects this information to allow 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 Collection 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: SWSE / 205 FSL / 1351 FEL / TWSP: 21S / RANGE: 32E / SECTION: 34 / LAT: 32.428563 / LONG: -103.6584383 (TVD: 27 feet, MD: 27 feet)
   PPP: SWNE / 2648 FSL / 1800 FEL / TWSP: 21S / RANGE: 32E / SECTION: 27 / LAT: 32.4485677 / LONG: -103.6598798 (TVD: 10701 feet, MD: 18035 feet)
   PPP: SWSE / 0 FSL / 1800 FEL / TWSP: 21S / RANGE: 32E / SECTION: 27 / LAT: 32.4425343 / LONG: -103.659885 (TVD: 10714 feet, MD: 15840 feet)
   PPP: SWSE / 330 FSL / 1800 FEL / TWSP: 21S / RANGE: 32E / SECTION: 34 / LAT: 32.4289144 / LONG: -103.6598968 (TVD: 10718 feet, MD: 10882 feet)
   PPP: SWNE / 2643 FSL / 1800 FEL / TWSP: 21S / RANGE: 32E / SECTION: 34 / LAT: 32.4358356 / LONG: -103.6598908 (TVD: 10729 feet, MD: 13403 feet)
   BHL: NWNE / 330 FNL / 1800 FEL / TWSP: 21S / RANGE: 32E / SECTION: 27 / LAT: 32.4561459 / LONG: -103.6598732 (TVD: 10684 feet, MD: 20792 feet)

BLM Point of Contact

Name: Judith Yeager
Title: Legal Instruments Examiner
Phone: 5752345936
Email: jyeager@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

Operator Certification Data Report

07/18/2018

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:** 03/19/2018

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:

APD ID: 10400027884 **Submission Date:** 03/19/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400027884 **Tie to previous NOS?** **Submission Date:** 03/19/2018

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 86710 **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: Bilbrey34_27B20BFedCom2H_operatorletterofdesignation_20180308104229.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: BILBREY 34/27 B2OB FED COM **Well Number:** 2H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** BILBREY BASIN **Pool Name:** BONE SPRING

Is the proposed well in an area containing other mineral resources? POTASH

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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:** BILBREY 34/27 PA OB **Number:** 2

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

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:** 1012 FT **Distance to lease line:** 185 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Bilbrey34_27B20BFedCom2H_wellplat_20180308105033.pdf

Well work start Date: 06/07/2018 **Duration:** 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number:

	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	205	FSL	1351	FEL	21S	32E	34	Aliquot SWSE	32.428563	-103.6584383	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 086710	3717	27	27
KOP Leg #1	10	FSL	1800	FEL	21S	32E	34	Aliquot SWSE	32.428038	-103.6598975	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 086710	-6549	10288	10266
PPP Leg #1	330	FSL	1800	FEL	21S	32E	34	Aliquot SWSE	32.428914	-103.6598968	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 086710	-7001	10882	10718

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

	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	2643	FSL	1800	FEL	21S	32E	34	Aliquot SWNE	32.4358356	-103.6598908	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 083607	-7012	13403	10729
PPP Leg #1	2648	FSL	1800	FEL	21S	32E	27	Aliquot SWNE	32.4485677	-103.6598798	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 114819	-6984	18035	10701
PPP Leg #1	0	FSL	1800	FEL	21S	32E	27	Aliquot SWSE	32.4425343	-103.659885	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 063019	-6997	15840	10714
EXIT Leg #1	330	FNL	1800	FEL	21S	32E	27	Aliquot NWNE	32.4561459	-103.6598732	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 114819	-6967	20792	10684
BHL Leg #1	330	FNL	1800	FEL	21S	32E	27	Aliquot NWNE	32.4561459	-103.6598732	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 114819	-6967	20792	10684

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, 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 086710, NMNM 83607, NMNM 63019, NM NM 114819
Legal Description of Land:	Section 34, T21S, R32E Lea County, New Mexico. Location @ 185 FSL & 2190 FEL
Formation (if applicable):	Bone Spring
Bond Coverage:	$150,000
BLM Bond File:	NM1693 nationwide, NMB000919

Authorized Signature: Bradley C Bishop

Name: Bradley Bishop
Title: Regulatory Manager
Date: 3-2-18

APD ID: 10400027884 **Submission Date:** 03/19/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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	3717	27	27		NONE	No
2	RUSTLER	2877	840	840	DOLOMITE,ANHYDRITE	USEABLE WATER	No
3	TOP SALT	2537	1180	1180	SALT	NONE	No
4	BOTTOM SALT	-643	4360	4360	SALT	NONE	No
5	DELAWARE	-1053	4770	4770	LIMESTONE	NATURAL GAS,OIL	No
6	BONE SPRING LIME	-5033	8750	8750	LIMESTONE,SHALE	NATURAL GAS,OIL	No
7	BONE SPRING 1ST	-6123	9840	9840	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING 2ND	-6733	10450	10450	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 20792

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. Anchors are not required by the manufacturer. A variance is requested for the use of a multi-bowl wellhead. See attached schematics.
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:

Bilbrey_34_27_B2OB_Fed_Com_2H_Flex_Line_Specs_20180315142114.pdf

Bilbrey_34_27_B2OB_Fed_Com_2H_5M_BOPE_Choke_Diagram_20180315142214.pdf

BOP Diagram Attachment:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

Bilbrey_34_27_B2OB_Fed_Com_2H_Flex_Line_Specs_20180315142114.pdf

Bilbrey_34_27_B2OB_Fed_Com_2H_5M_BOPE_Choke_Diagram_20180315142214.pdf

Bilbrey_34_27_B2OB_Fed_Com_2H_5M_BOPE_Schematic_20180315142128.pdf

Bilbrey_34_27_B2OB_Fed_Com_2H_5M_Multi_Bowl_WH_20180315142145.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	915	0	915	3744	2829	915	H-40	48	STC	1.8	4.04	DRY	7.33	DRY	12.32
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	4700	0	4700	3744	-956	4700	J-55	36	LTC	1.46	1.87	DRY	2.26	DRY	2.89
3	PRODUCTION	8.75	7.0	NEW	API	N	0	11042	0	10744	3744	-7000	11042	P-110	26	LTC	1.46	1.87	DRY	2.26	DRY	2.89
4	LINER	6.125	4.5	NEW	API	N	10288	20792	10266	10684	-6522	-6940	10504	P-110	13.5	LTC	1.74	2.02	DRY	2.38	DRY	2.97

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B2OB_Fed_Com_2H_Csg_Assumptions_20180315151013.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Bilbrey_34_27_B2OB_Fed_Com_2H_Inter_Tapered_String_Diagram_20180315145127.pdf

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B2OB_Fed_Com_2H_Csg_Assumptions_20180315151022.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B2OB_Fed_Com_2H_Csg_Assumptions_20180315151033.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bilbrey_34_27_B2OB_Fed_Com_2H_Csg_Assumptions_20180315151042.pdf

Section 4 - Cement

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	725	480	2.12	12.5	1018	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		725	915	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4045	780	2.12	12.5	1654	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4045	4700	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	4750	0	4080	385	2.12	12.5	816	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4080	4750	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	4750	4750	8552	340	2.12	12.5	721	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8552	11042	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		10288	20792	425	2.97	11.2	1262	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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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	915	SPUD MUD	8.6	8.8							
915	4700	SALT SATURATED	10	10							
4700	10266	SALT SATURATED	8.6	9.5							
10266	10744	WATER-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (10266') 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: 5587 **Anticipated Surface Pressure:** 3234.54

Anticipated Bottom Hole Temperature(F): 140

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:

Bilbrey_34_27_B2OB_Fed_Com_2H_H2S_Plan_20180315154617.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bilbrey_34_27_B2OB_Fed_Com_2H_Dir_Plan_20180315154710.pdf

Bilbrey_34_27_B2OB_Fed_Com_2H_Dir_Plot_20180315154718.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Bilbrey_34_27_B2OB_Fed_Com_2H_Drlg_Program.doc_20180315154730.docx

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

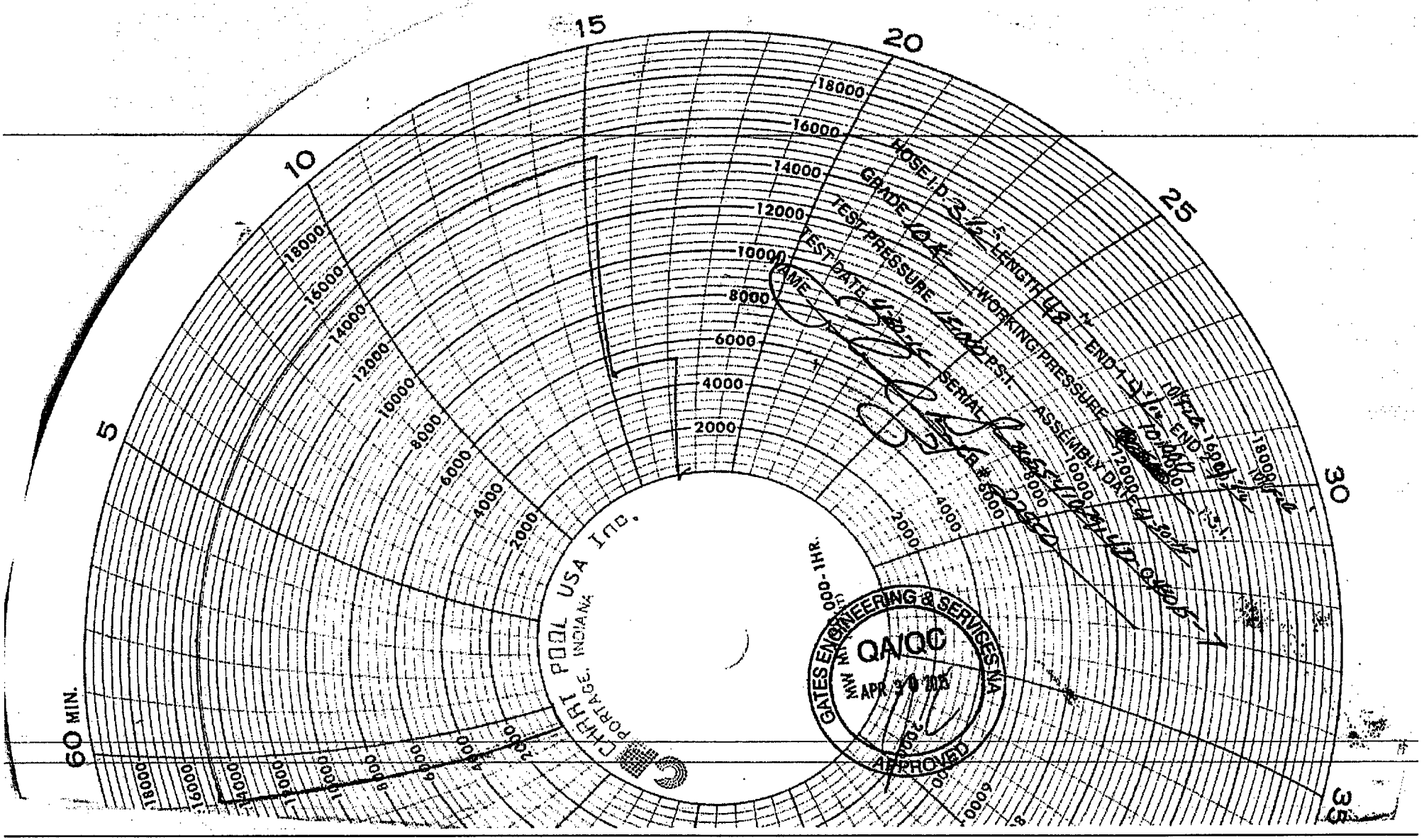
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

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 :	Justin Cropper	Signature :	


5
10
15
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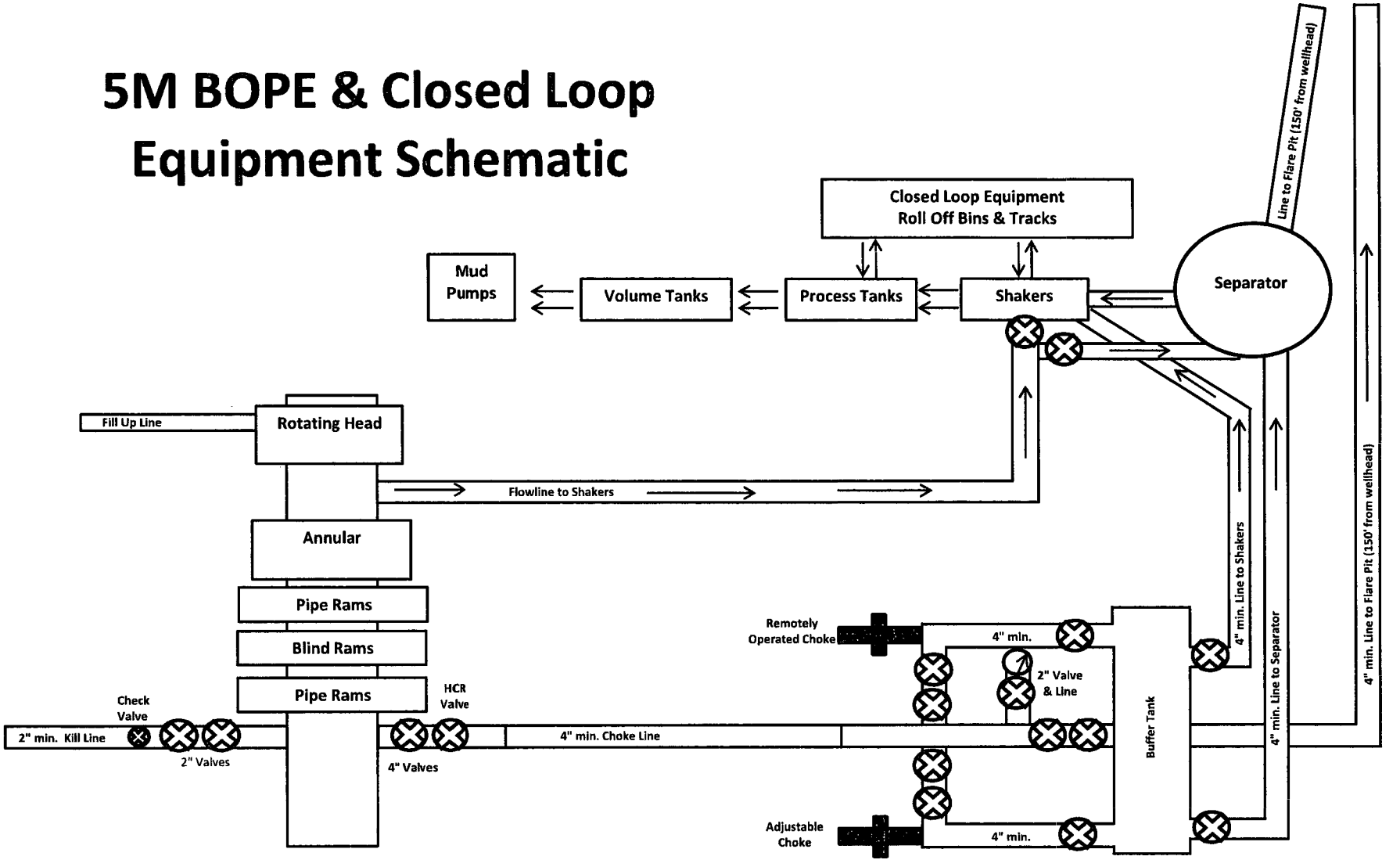
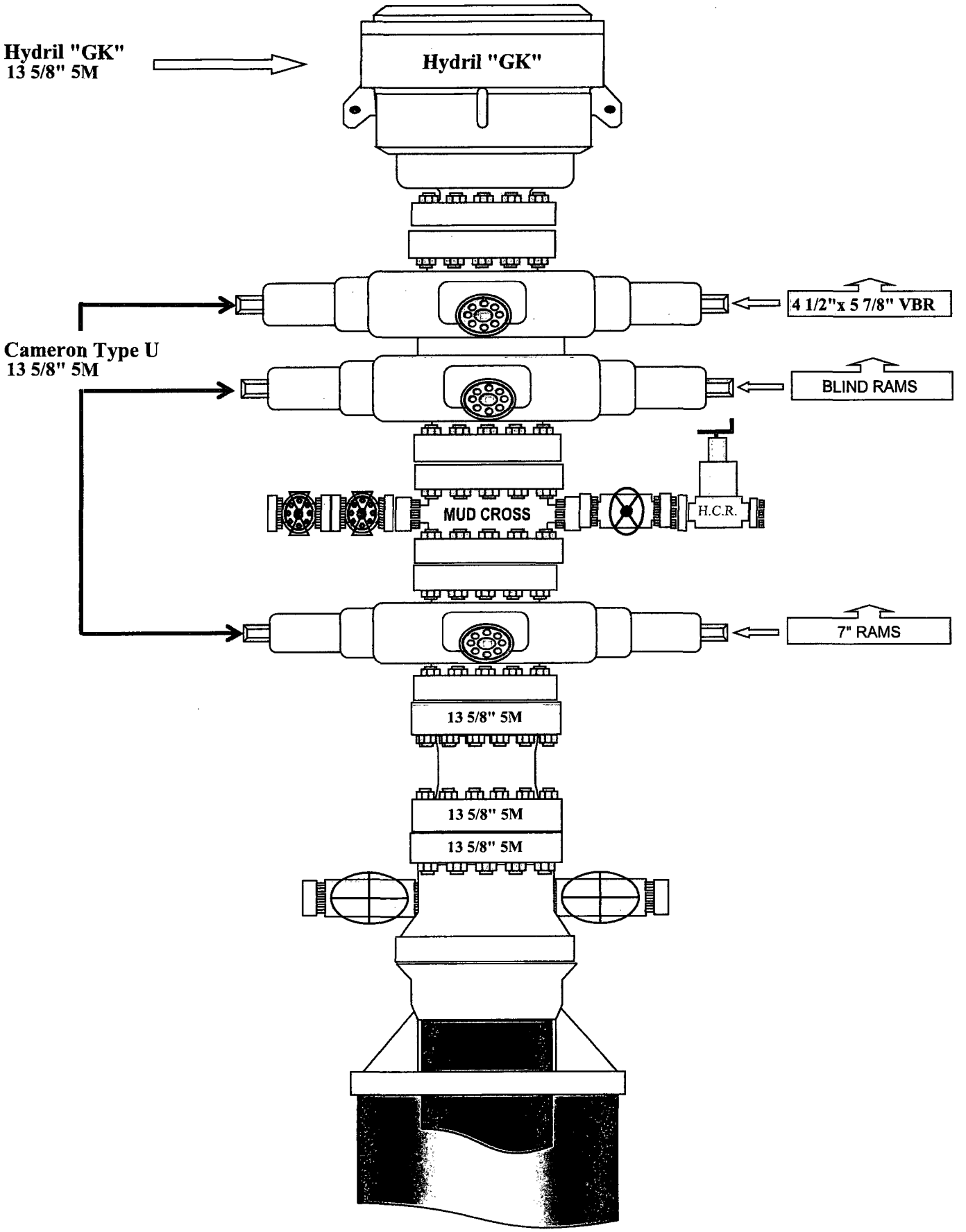
60 MIN.
18000
16000
14000
12000
10000
8000
6000
4000
2000
HOSE ID 3 1/2"
GRADE 10K
TEST PRESSURE 12000 PSI
TEST DATE 4-20-22
SERIAL # 5600
LENGTH 42'
END 1
END 2
WORKING PRESSURE 10000
ASSEMBLY DATE 4-20-22
CHART POOL USA Inc.
PORTAGE, INDIANA
GATES ENGINEERING & SERVICES NA
QA/QC
APR 20 2022
APPROVED
1000-1HR.

5M BOPE & Closed Loop Equipment Schematic



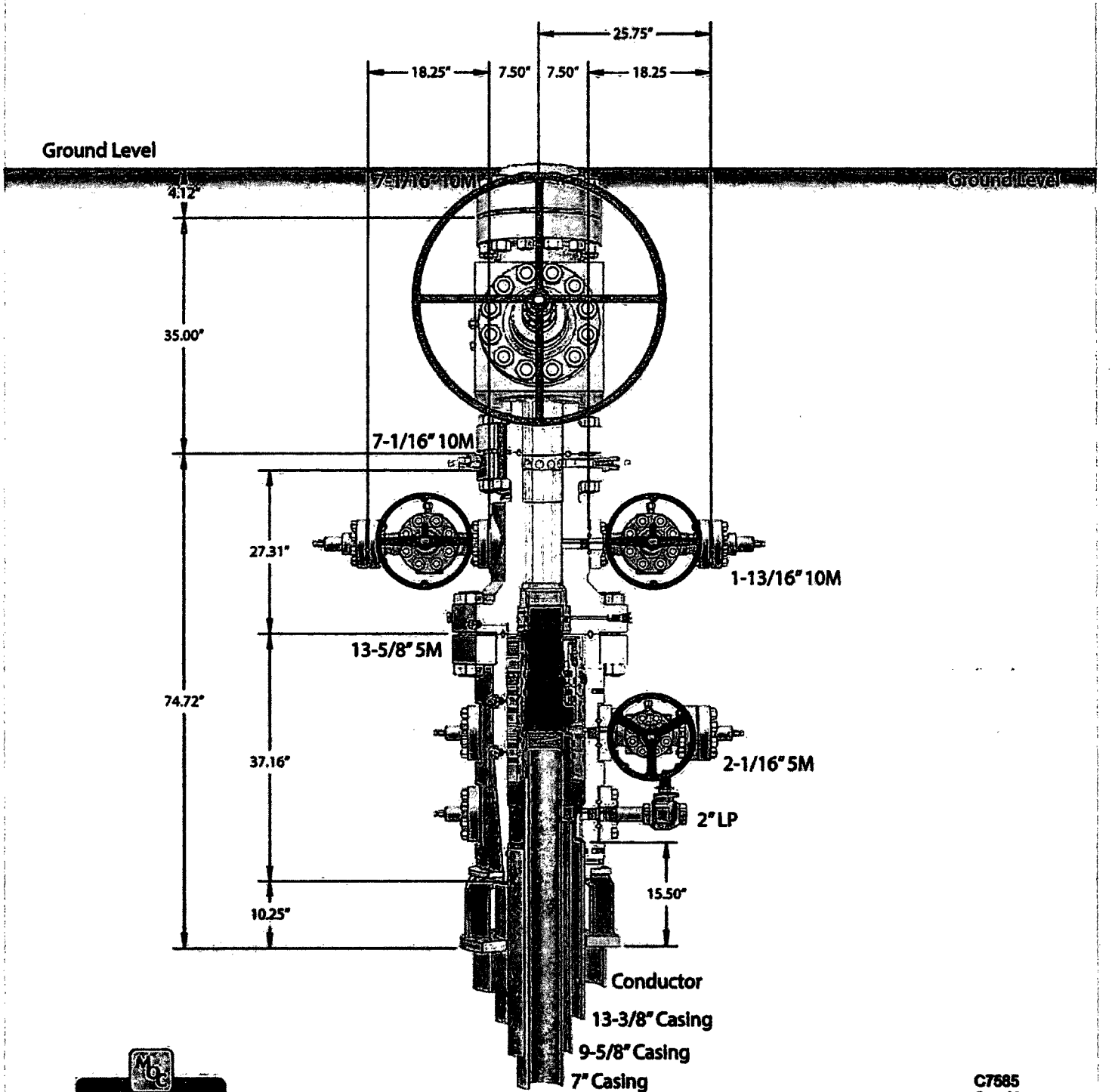
Drawing not to scale

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


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



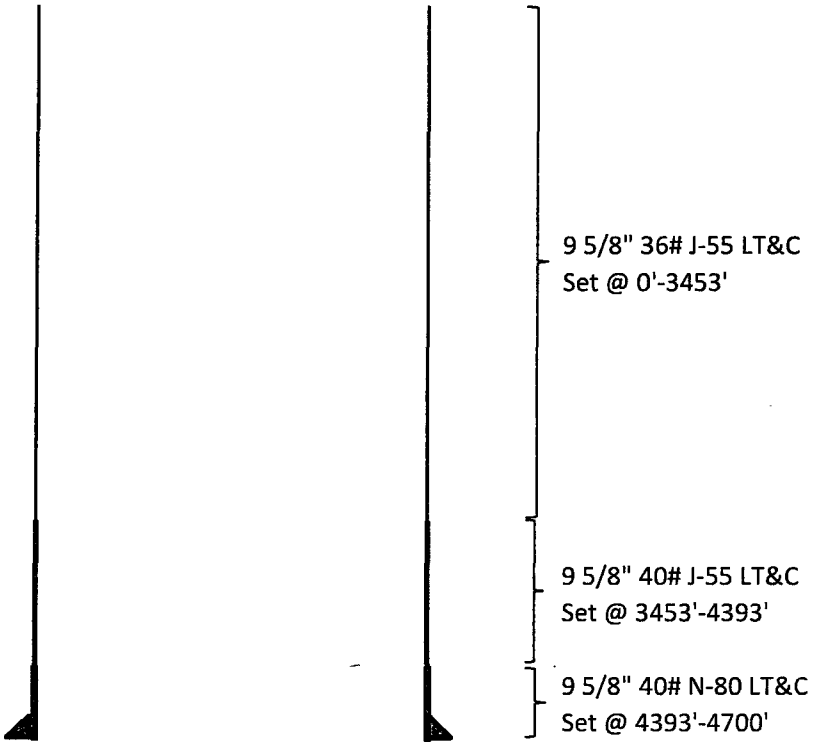
MEWBOURNE OIL COMPANY

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

Cuffing Lounge 57" conductor cut-off

79

Bilbrey 34/27 B2OB Fed Com #2H
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.6	4.54
40# J-55	1.13	1.73	10.42	16.75
40# N-80	1.26	2.35	60.05	74.63

Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
SL: 205' FSL & 1351' FEL
BHL: 330' FNL & 1800' FEL

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'	915'	13.375"	48	H40	STC	1.80	4.04	7.33	12.32
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.60	4.54
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	10.42	16.75
12.25"	4393'	4700'	9.625"	40	N80	LTC	1.26	2.35	60.05	74.63
8.75"	0'	11042'	7"	26	HCP110	LTC	1.46	1.87	2.26	2.89
6.125"	10266'	20792'	4.5"	13.5	P110	LTC	1.74	2.02	2.38	2.97
				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?	Y
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, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
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Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
SL: 205' FSL & 1351' FEL
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1. Geologic Formations

TVD of target	10744'	Pilot hole depth	NA
MD at TD:	20792'	Deepest expected fresh water:	250'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	840		
Top of Salt	1180		
Castile			
Base of Salt	4360		
Lamar	4770	Oil/Gas	
Bell Canyon			
Cherry Canyon			
Manzanita Marker			
Brushy Canyon			
Bone Spring	8750	Oil/Gas	
1st Bone Spring Sand	9840	Oil/Gas	
2nd Bone Spring Sand	10450	Target Zone	
3rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
SL: 205' FSL & 1351' FEL
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(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?	

3. **Cementing Program**

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	480	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.	780	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. Stg 1	340	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
ECP/DV Tool @ 4750'						
Prod. Stg 2	385	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	425	11.2	2.97	18	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.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	0'	25%
Liner	10266'	25%

Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
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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. 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. • Provide description here: See attached schematic.

Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
SL: 205' FSL & 1351' FEL
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	915	FW Gel	8.6-8.8	28-34	N/C
915	4700	Saturated Brine	10.0	28-34	N/C
4700	10266	Cut Brine	8.6-9.5	28-34	N/C
10266	20792	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?	Visual monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (10266') 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	10266' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Bilbrey 34/27 B2OB Fed Com #2H
Sec 34, T21S, R32E
SL: 205' FSL & 1351' FEL
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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5587 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

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

APD ID: 10400027884 **Submission Date:** 03/19/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Bilbrey34_27B20BFedCom2H_existingroadmap_20180308105125.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? YES

New Road Map:

Bilbrey34_27B20BFedCom2H_newroadmap_20180308105154.pdf

New road type: RESOURCE

Length: 439.03 Feet **Width (ft.):** 20

Max slope (%): 3 **Max grade (%):** 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: None

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: OFFSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth:

Offsite topsoil source description: Stored onsite, on edge of slope.

Onsite topsoil removal process:

Access other construction information: None

Access miscellaneous information: None

Number of access turnouts: 1 **Access turnout map:**

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Bilbrey34_27B20BFedCom2H_existingwellmap_20180308105225.pdf

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 Bilbrey 34/27 B2NC Fed Com #1H location. 1,719' of 2 7/8" steel flowline will be laid within 5' of proposed lease road to battery. 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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

Bilbrey34_27B2OBFedCom2H_productionfacilityandflowlinemap_20180319150920.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Water source type: IRRIGATION

Describe type:

Source longitude: -103.62513

Source latitude: 32.3991

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 3510

Source volume (acre-feet): 0.45241478

Source volume (gal): 147420

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

Water source type: IRRIGATION

Describe type:

Source longitude: -103.66579

Source latitude: 32.430565

Source datum: NAD83

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 3510

Source volume (acre-feet): 0.45241478

Source volume (gal): 147420

Water source and transportation map:

Bilbrey34_27B20BFedCom2H_watersourcetransmap_20180308105332.pdf

Water source comments: Both sources shown on one map

New water well? NO

New Water Well Info

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

Well target aquifer:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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 - both sources shown on one map

Construction Materials source location attachment:

Bilbrey34_27B20BFedCom2H_calichesourcetransmap_20180308105433.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 3510 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

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: 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 FACILITY **Disposal location ownership:** PRIVATE
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?

WCuttings area liner

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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:

Bilbrey34_27B20BFedCom2H_wellsitelayout_20180308105515.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: BILBREY 34/27 PA OB

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 4.04	**Well pad interim reclamation (acres):** 1.267	**Well pad long term disturbance (acres):** 2.773
Road proposed disturbance (acres): 0.202	**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):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 4.242	**Total interim reclamation:** 1.267	**Total long term disturbance:** 2.773

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 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:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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: NEW ACCESS ROAD

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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Fee Owner: Stacey Mills **Fee Owner Address:** PO Box 1358 Loving, NM 88256

Phone: (575)390-2779 **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:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

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:**

Fee Owner: Stacey Mills **Fee Owner Address:** PO Box 1358 Loving, NM 88256

Phone: (575)390-2779 **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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: BILBREY 34/27 B2OB FED COM **Well Number:** 2H

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

Previous Onsite information: FEB 28 2018 Met w/RRC surveying & staked location @ 205' FSL & 1351' FEL, Sec 34, T21S, R32E, Lea Co., NM. (Elev @ 3717'). Topsoil will be stockpiled 30' on W side. Pad will be 400' x 450'. Road will be off NE corner headed W to Bilbrey OB pad. Reclaim 60' S, E, & W. Location is in the Arch PA. Location will require BLM on-site approval

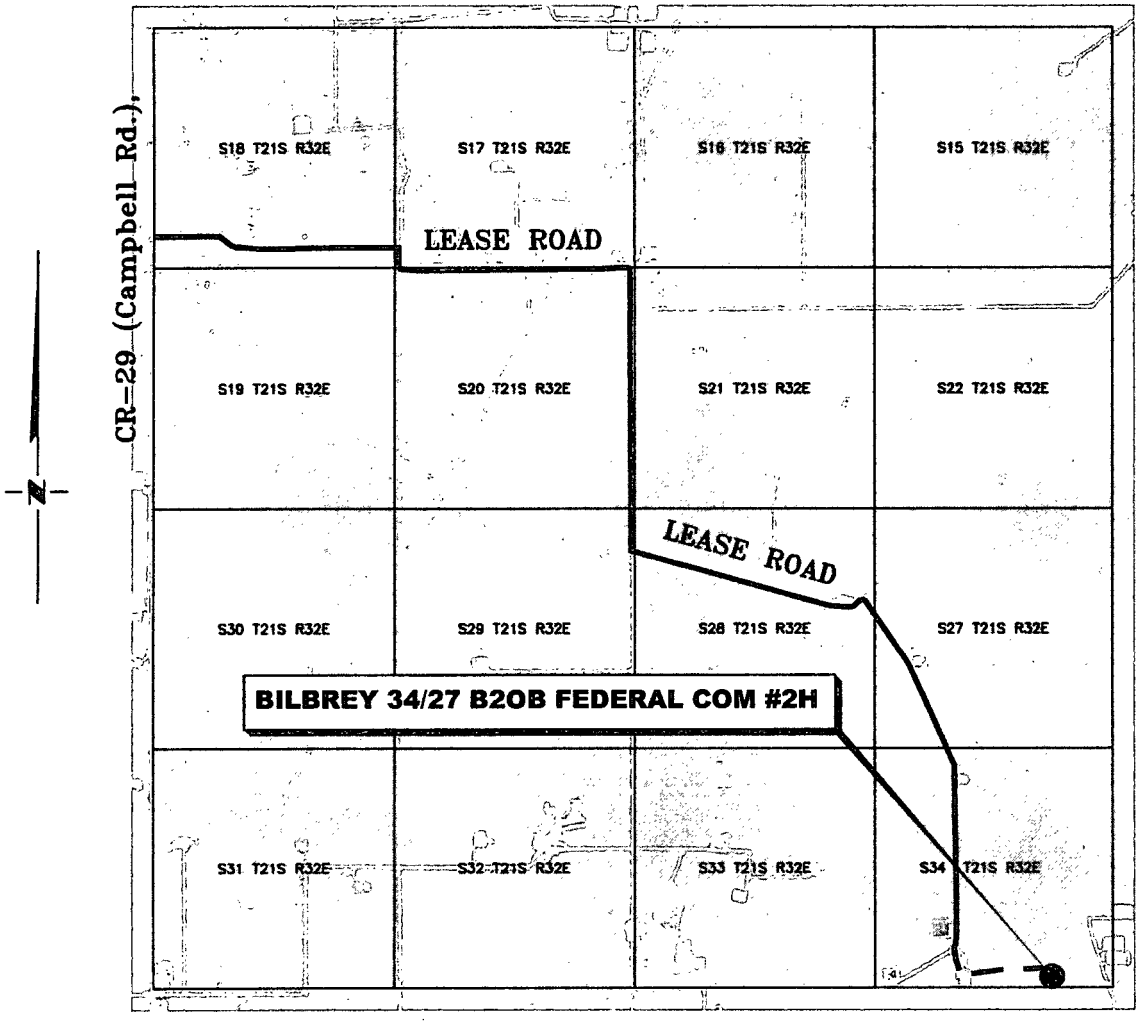
Other SUPO Attachment

Bilbrey34_27B2OBFedCom2H_gascaptureplan_20180308105628.pdf

Bilbrey34_27B20BFedCom2H_interimreclaimationdiagram_20180308105639.pdf

VICINITY MAP

NOT TO SCALE



SECTION 34, TWP. 21 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company
LEASE: Bilbrey 34/27 B2OB Federal Com
WELL NO.: 2H

LOCATION: 205' FSL & 1351' FEL
ELEVATION: 3717'

NO.	REVISION	DATE

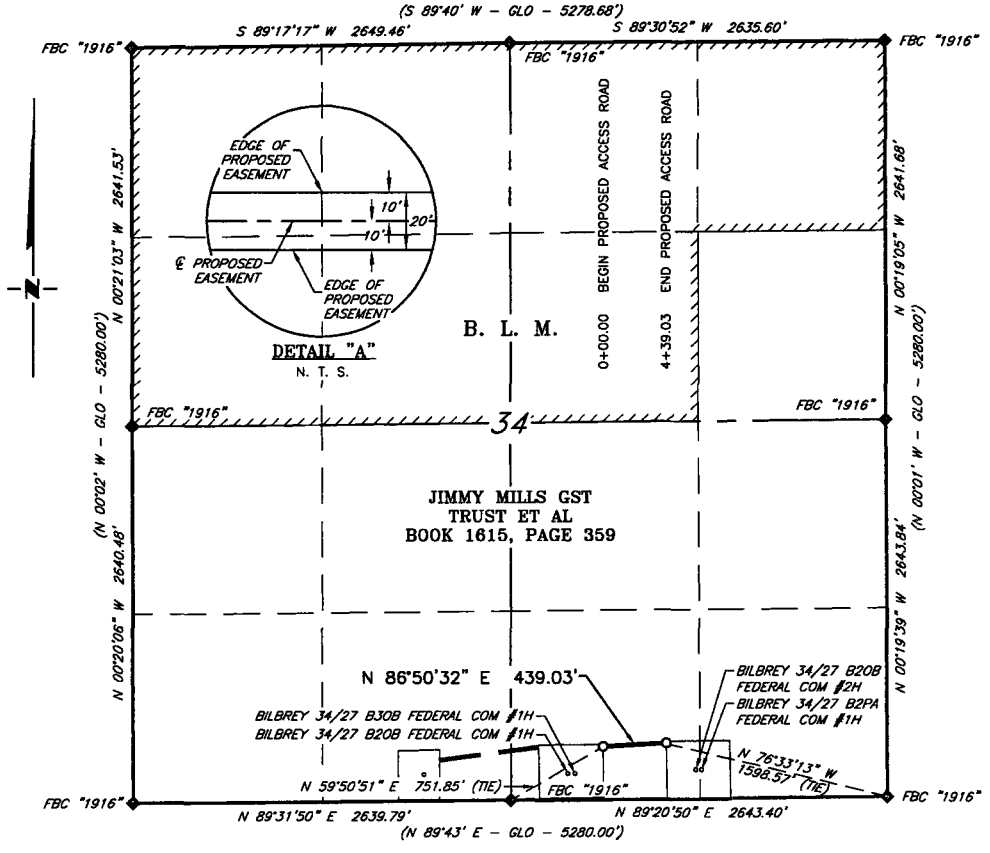
JOB NO.: LS1802203
DWG. NO.: 1802203VM

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N / A
DATE: 02-23-2018
SURVEYED BY: JF/BK
DRAWN BY: AiAC
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
PROPOSED ACCESS ROAD FOR THE
BILBREY 34/27 FEDERAL COM WELL LOCATIONS
SECTION 34, T21S, R32E
N. M. P. M., LEA COUNTY, NEW MEXICO



DESCRIPTION

A strip of land 20 feet wide, being 439.03 feet or 26.608 rods in length, lying in Section 34, Township 21 South, Range 32 East, N. M. P. M., Eddy County, New Mexico, being 10 feet left and 10 feet right of the following described survey of a centerline across the lands of Jimmy Mills GST Trust et al, according to a deed filed for record in Book 1615, Page 359, of the Deed Records of Lea County, New Mexico:

BEGINNING at Engr. Sta. 0+00, a point in the Southeast quarter of Section 34, which bears, N 59°50'51" E, 751.85 feet from a brass cap, stamped "1916", found for the South quarter corner of Section 34;

Thence, N 86°50'32" E, 439.03 feet, to Engr. Sta. 4+39.03, the End of Survey, a point in the Southeast quarter of Section 34, which bears, N 76°33'13" W, 1,598.57 feet from a brass cap, stamped "1916", found for the Southeast corner of Section 34.

Said strip of land contains 0.202 acres, more or less, and is allocated by forties as follows:

SW 1/4 SE 1/4	26.608 Rods	0.202 Acres

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND
( ) RECORD DATA - GLO
◆ FOUND MONUMENT AS NOTED
PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT NEW MEXICO 19680 3/1/18 PROFESSIONAL SURVEYOR

NO.	REVISION	DATE

JOB NO.: LS1802203
DWG. NO.: 1802203RD

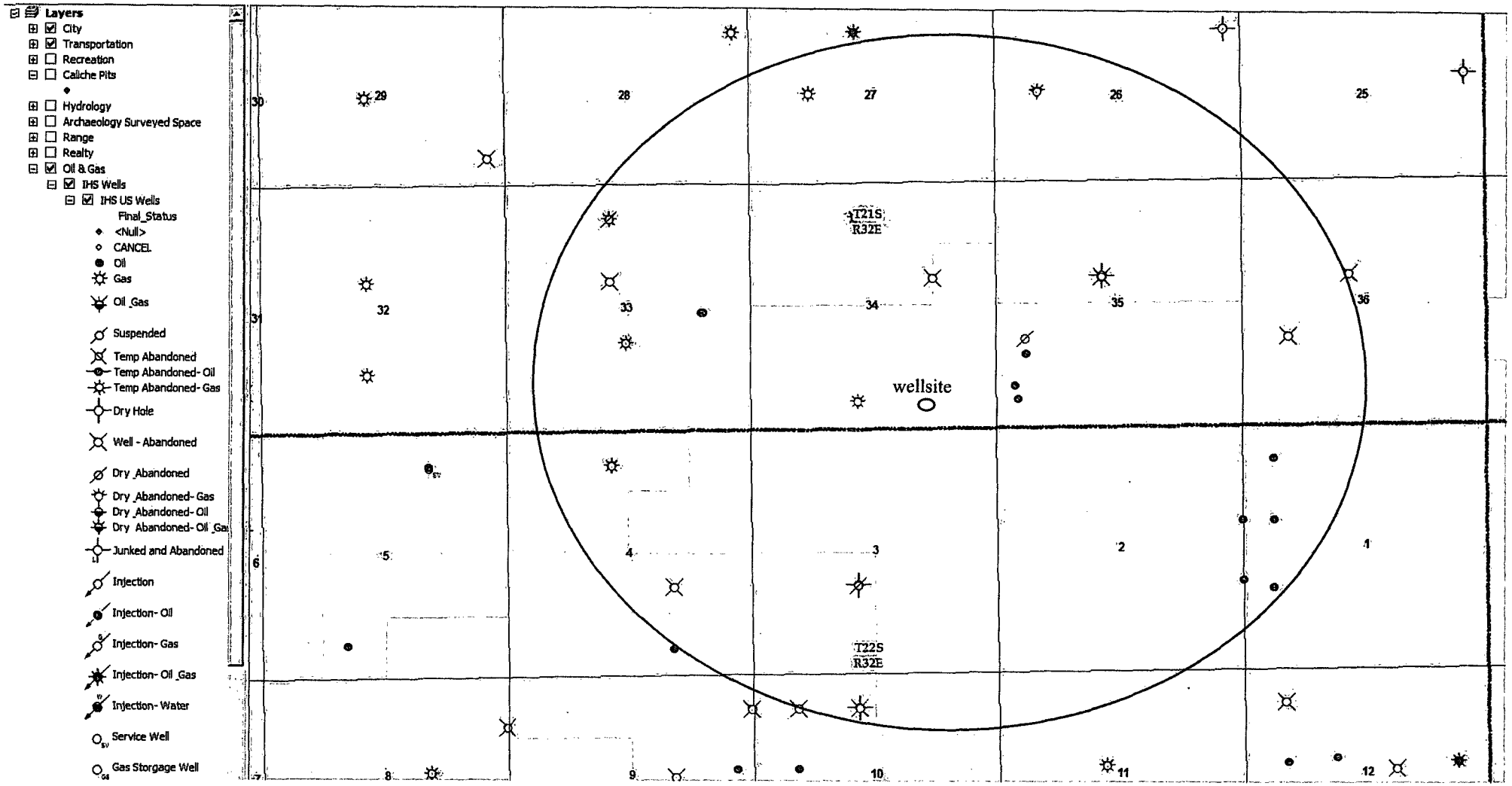
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

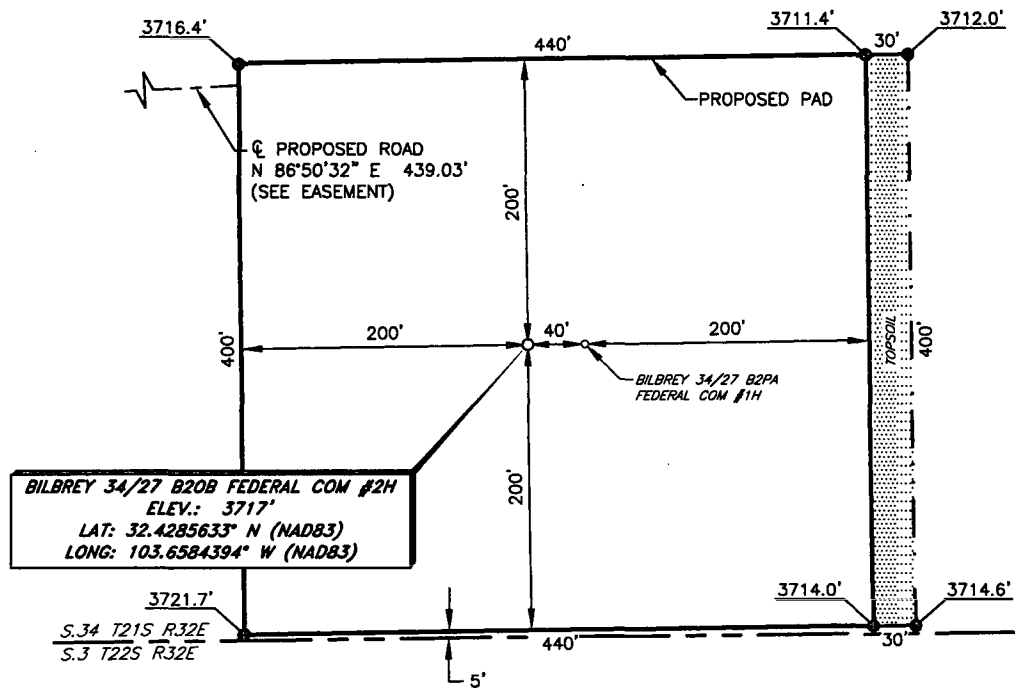
SCALE: 1" = 1000'
DATE: 02-23-2018
SURVEYED BY: JF/BK
DRAWN BY: AiAC
APPROVED BY: RMH
SHEET: 1 OF 1

Bilbrey 34/27 B2OB Fed Com #2H

Existing well map



MEWBOURNE OIL COMPANY
BILBREY 34/27 B2OB FEDERAL COM #2H
(205' FSL & 1351' FEL)
SECTION 34, T21S, R32E
N. M. P. M., LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of Hwy 62/180 and CR-29 (Campbell Rd.),
Go South on CR-29 approx. 5.8 miles to a lease road on the left;
Turn left and go East approx. 1.1 miles to a "T";
Turn right and go South on lease road, bending East and then South, approx. 2.3 miles to lease road on the left;
Turn left and go East bending South approx. 2.8 miles to "Y";
Turn left and go South approx. 490 feet to proposed road on the left on existing pad;
Turn left and go East approx. 0.4 miles to proposed location on the right.

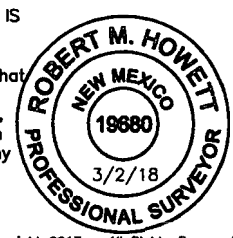
SCALE: 1" = 100'
0 50' 100'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY, BOUNDARY DATA IS SHOWN FROM A PREVIOUS SURVEY REFERENCED HEREON.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



NO.	REVISION	DATE

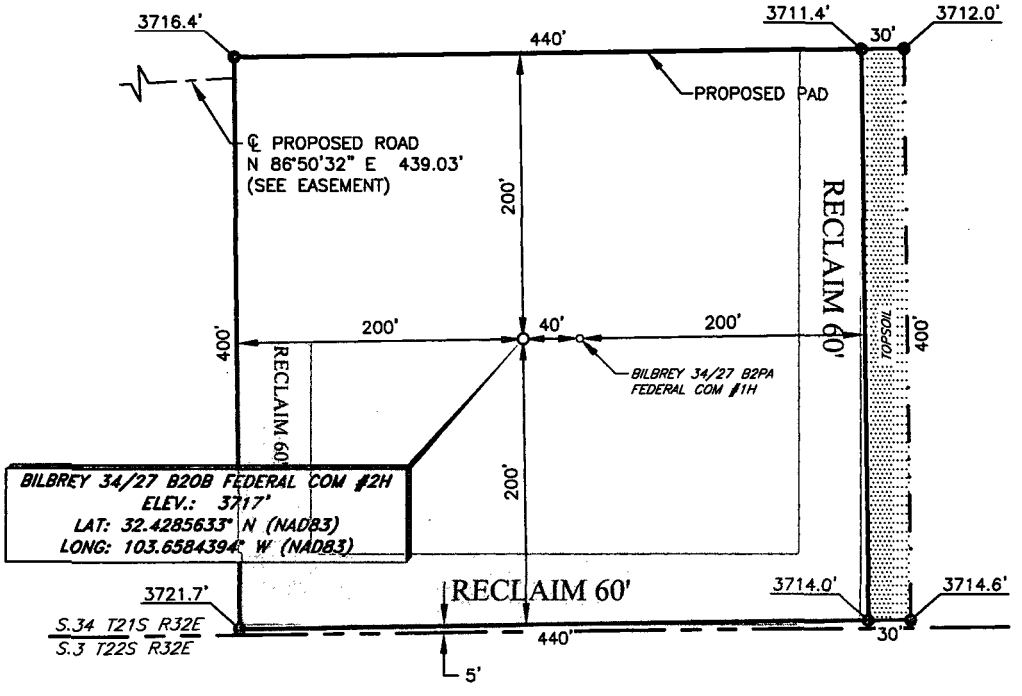
JOB NO.: LS1802203
DWG. NO.: 1802203PAD

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 02-23-2018
SURVEYED BY: JF/BK
DRAWN BY: AiAC
APPROVED BY: RMH
SHEET : 1 OF 1

MEWBOURNE OIL COMPANY
BILBREY 34/27 B2OB FEDERAL COM #2H
(205' FSL & 1351' FEL)
SECTION 34, T21S, R32E
N. M. P. M., LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of Hwy 62/180 and CR-29 (Campbell Rd.),
Go South on CR-29 approx. 5.8 miles to a lease road on the left;
Turn left and go East approx. 1.1 miles to a "T";
Turn right and go South on lease road, bending East and then South, approx. 2.3 miles to lease road on the left;
Turn left and go East bending South approx. 2.8 miles to "Y";
Turn left and go South approx. 490 feet to proposed road on the left on existing pad;
Turn left and go East approx. 0.4 miles to proposed location on the right.

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY, BOUNDARY DATA IS SHOWN FROM A PREVIOUS SURVEY REFERENCED HEREON.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT
NEW MEXICO
19680
3/2/18
PROFESSIONAL SURVEYOR

SCALE: 1" = 100'
0 50' 100'

BEARINGS ARE GRID NAD 83 NM EAST
DISTANCES ARE HORIZ. GROUND.

NO.	REVISION	DATE

JOB NO.: LS1802203
DWG. NO.: 1802203PAD

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 02-23-2018
SURVEYED BY: JF/BK
DRAWN BY: AiAC
APPROVED BY: RMH
SHEET : 1 OF 1

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:

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:

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:

AFMSS

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

Bond Info Data Report

07/18/2018

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: