

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD  
JUL 02 2018

RECEIVED

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SURF S

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. (321630) GAZELLE 22 B2MD FED COM 2H
2. Name of Operator MEWBOURNE OIL COMPANY (14744)		9. API Well No. 30-025-44941
3a. Address PO Box 5270 Hobbs NM 88240	3b. Phone No. (include area code) (575)393-5905	10. Field and Pool, or Exploratory (2209) ANTELOPE RIDGE / BONE SPRING
4. Location of Well (Report location clearly and in accordance with any State requirements:*) At surface SWSW / 200 FSL / 786 FWL / LAT 32.2833979 / LONG -103.4652549 At proposed prod. zone NWNW / 330 FNL / 380 FWL / LAT 32.2964615 / LONG -103.4652531		11. Sec., T. R. M. or Blk. and Survey or Area SEC 22 / T23S / R34E / NMP
14. Distance in miles and direction from nearest town or post office* 20 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 185 feet		13. State NM
16. No. of acres in lease 320		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, 150 feet applied for, on this lease, ft. 10438 feet / 15175 feet		20. BLM/BIA Bond No. on file FED: NM1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3492 feet		22. Approximate date work will start* 07/23/2018
		23. Estimated duration 60 days

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Bradley Bishop / Ph: (575)393-5905	Date 04/24/2018
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 06/29/2018
Title Petroleum Engineer		

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 07/02/18

APPROVED WITH CONDITIONS

Approval Date: 06/29/2018

KZ  
07/02/18

## 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.

## Additional Operator Remarks

### Location of Well

1. SHL: SWSW / 200 FSL / 786 FWL / TWSP: 23S / RANGE: 34E / SECTION: 22 / LAT: 32.2833979 / LONG: -103.4652549 ( TVD: 27 feet, MD: 27 feet )  
PPP: SWNW / 2640 FNL / 380 FWL / TWSP: 23S / RANGE: 34E / SECTION: 22 / LAT: 32.2901119 / LONG: -103.4652471 ( TVD: 10430 feet, MD: 12865 feet )  
PPP: SWSW / 330 FSL / 380 FWL / TWSP: 23S / RANGE: 34E / SECTION: 22 / LAT: 32.2837622 / LONG: -103.465241 ( TVD: 10397 feet, MD: 10552 feet )  
BHL: NWNW / 330 FNL / 380 FWL / TWSP: 23S / RANGE: 34E / SECTION: 22 / LAT: 32.2964615 / LONG: -103.4652531 ( TVD: 10438 feet, MD: 15175 feet )

### BLM Point of Contact

Name: Judith Yeager

Title: Legal Instruments Examiner

Phone: 5752345936

Email: jyeager@blm.gov

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## **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.

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

## Operator Certification Data Report

07/02/2018

### 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:** 04/24/2018

**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:**



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

## Application Data Report

07/02/2018

APD ID: 10400029580

Submission Date: 04/24/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GAZELLE 22 B2MD FED COM

Well Number: 2H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

### Section 1 - General

APD ID: 10400029580

Tie to previous NOS?

Submission Date: 04/24/2018

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: NMNM132073

Lease Acres: 320

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:

Gazelle22B2MDFedCom1H\_operatorletterofdesig\_20180524145522.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

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: GAZELLE 22 B2MD FED COM

Well Number: 2H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: ANTELOPE RIDGE Pool Name: BONE SPRING

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

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD 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:** SINGLE WELL

**Multiple Well Pad Name:**

**Number:**

**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:** 150 FT

**Distance to lease line:** 185 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** Gazelle22B2MDFedCom1H\_WELLPLAT\_20180524145901.pdf

**Well work start Date:** 07/23/2018

**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	2001	FSL	742	FWL	23S	34E	22	Aliquot SWS W	3224033 70	1034532 70	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132073	349 2	27	27
KOP Leg #1	10	FSL	322	FWL	23S	34E	22	Aliquot SWS W	3224033 71	1034532 71	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132073	- 645 4	996 0	994 6
PPP Leg #1	330	FSL	330	FWL	23S	34E	22	Aliquot SWS W	3224033 22	1034532 21	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 132073	- 690 5	105 52	103 97

**Operator Name: MEWBOURNE OIL COMPANY**

**Well Name: GAZELLE 22 B2MD 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	334	FNL	330	FWL	23S	34E	22	Aliquot SWN W	32.290711 10	-103.4652 (67)	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 693 8	128 65	104 30
EXT Leg #1	330	FNL	330	FWL	23S	34E	22	Aliquot NWN W	32.290716 15	-103.4652 691	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 694 6	151 75	104 38
BHL Leg #1	330	FNL	330	FWL	23S	34E	22	Aliquot NWN W	32.290716 15	-103.4652 691	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 694 6	151 75	104 38



**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 - 132073

Legal Description of Land: Section 22, T-23S, R-34E Lea County, New Mexico.  
Location @ 168' FSL & 786' FWL, Sec. 22 T23S R34E.

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: 05-24-2018.



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

## Drilling Plan Data Report

07/02/2018

APD ID: 10400029580

Submission Date: 04/24/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GAZELLE 22 B2MD FED COM

Well Number: 2H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data  
indicates the most  
recent changes

[Show Final Text](#)

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3492	27	27		NONE	No
2	RUSTLER	2522	970	970	DOLOMITE, ANHYDRITE	USEABLE WATER	No
3	TOP SALT	1457	2035	2035	SALT	NONE	No
4	BOTTOM SALT	-833	4325	4325	SALT	NONE	No
5	LAMAR	-1583	5075	5075	LIMESTONE	NATURAL GAS, OIL	No
6	BELL CANYON	-1608	5100	5100	SANDSTONE	NATURAL GAS, OIL	No
7	CHERRY CANYON	-2353	5845	5845	SHALE, SANDSTONE	NATURAL GAS, OIL	No
8	BRUSHY CANYON	-3778	7270	7270	SANDSTONE	NATURAL GAS, OIL	No
9	BONE SPRING	-5083	8575	8575	SANDSTONE	NATURAL GAS, OIL	No
10	BONE SPRING 1ST	-6158	9650	9650	SANDSTONE	NATURAL GAS, OIL	No
11	BONE SPRING 2ND	-6683	10175	10175	SANDSTONE	NATURAL GAS, OIL	Yes

### Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 15175

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 multi-bowl wellhead is being used. See attached schematic.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and 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

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

**Choke Diagram Attachment:**

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_5M\_BOPE\_Choke\_Diagram\_20180420165905.pdf

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Flex\_Line\_Specs\_20180420165906.pdf

**BOP Diagram Attachment:**

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_5M\_BOPE\_Schematic\_20180420165922.pdf

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Multi\_Bowl\_WH\_20180420165923.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	1045	0	1045			1045	H-40	48	STC	1.42	3.18	DRY	6.42	DRY	10.79
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	5000	0	5000			5000	J-55	36	LTC	1.13	1.96	DRY	2.43	DRY	4.54
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10716	0	10423			10716	P-110	26	LTC	1.5	1.92	DRY	2.32	DRY	2.98
4	LINER	6.125	4.5	NEW	API	N	9967	15182	9960	10438			5215	P-110	13.5	LTC	1.97	2.29	DRY	4.8	DRY	5.99

**Casing Attachments**

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20180420170456.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

#### Casing Attachments

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_TaperedCsg\_20180420170347.pdf

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

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20180420170503.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20180524142815.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_Csg\_Assumptions\_20180524142910.pdf

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#### Section 4 - Cement

**Operator Name: MEWBORNE OIL COMPANY**

**Well Name: GAZELLE 22 B2MD 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	852	560	2.12	12.5	1187	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		852	1045	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4253	840	2.12	12.5	1781	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4253	5000	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		4800	8054	305	2.12	12.5	647	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		8054	10716	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9967	15182	215	2.97	11.2	639	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
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**Operator Name: MEWBOURNE OIL COMPANY**

**Well Name: GAZELLE 22 B2MD 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
1045	5000	SALT SATURATED	10	10							
5000	9946	WATER-BASED MUD	8.6	9.7							
0	1045	SPUD MUD	8.6	8.8							
9946	1043 8	WATER-BASED MUD	9.5	10							

### Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (9967') 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: 5428**

**Anticipated Surface Pressure: 3131.64**

**Anticipated Bottom Hole Temperature(F): 140**

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required? YES**

**Hydrogen sulfide drilling operations plan:**

Gazelle\_22\_B2MD\_Fed\_Com\_2H\_H2S\_Plan\_20180420171338.pdf

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

## Section 8 - Other Information

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

Gazelle\_22\_B2MD\_Fed\_Corn\_2H\_Dir\_Plot\_20180524143507.pdf

Gazelle\_22\_B2MD\_Fed\_Corn\_2H\_Dir\_Plan\_20180524143508.pdf

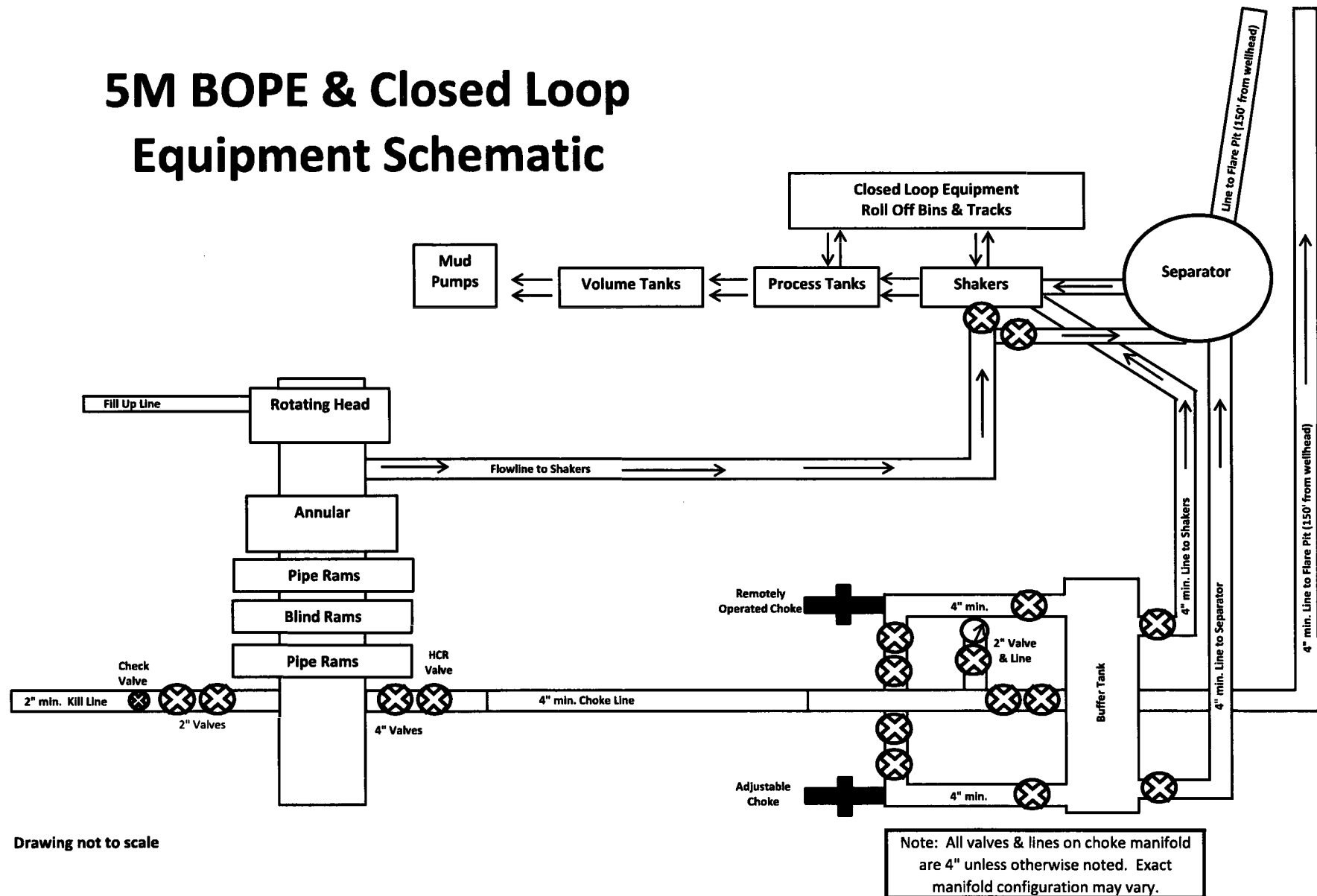
**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Gazelle\_22\_B2MD\_Fed\_Corn\_2H\_Drig\_Program\_20180524143458.doc

**Other Variance attachment:**

# 5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale





**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 :

Date :

Signature :

QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:

Date :

Signature :

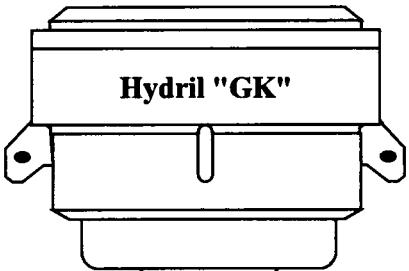
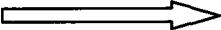
PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form PTC - 01 Rev.0/2

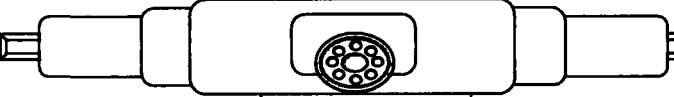
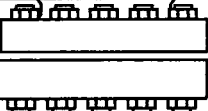




Hydril "GK"  
13 5/8" 5M

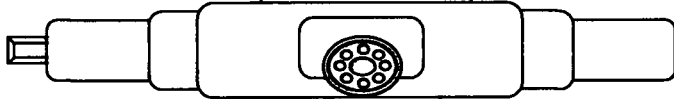


Hydril "GK"

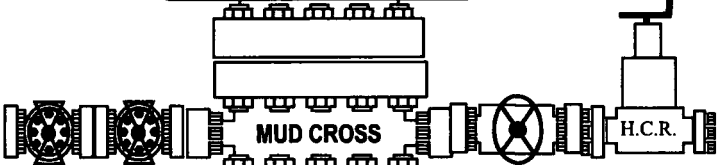


4 1/2" x 5 7/8" VBR

Cameron Type U  
13 5/8" 5M



BLIND RAMS



MUD CROSS

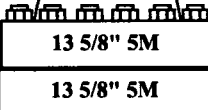
H.C.R.



7" RAMS

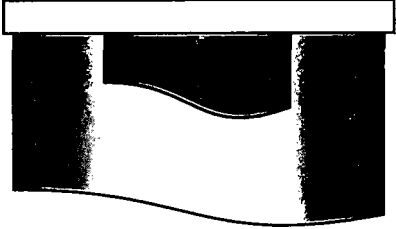


13 5/8" 5M



13 5/8" 5M

13 5/8" 5M

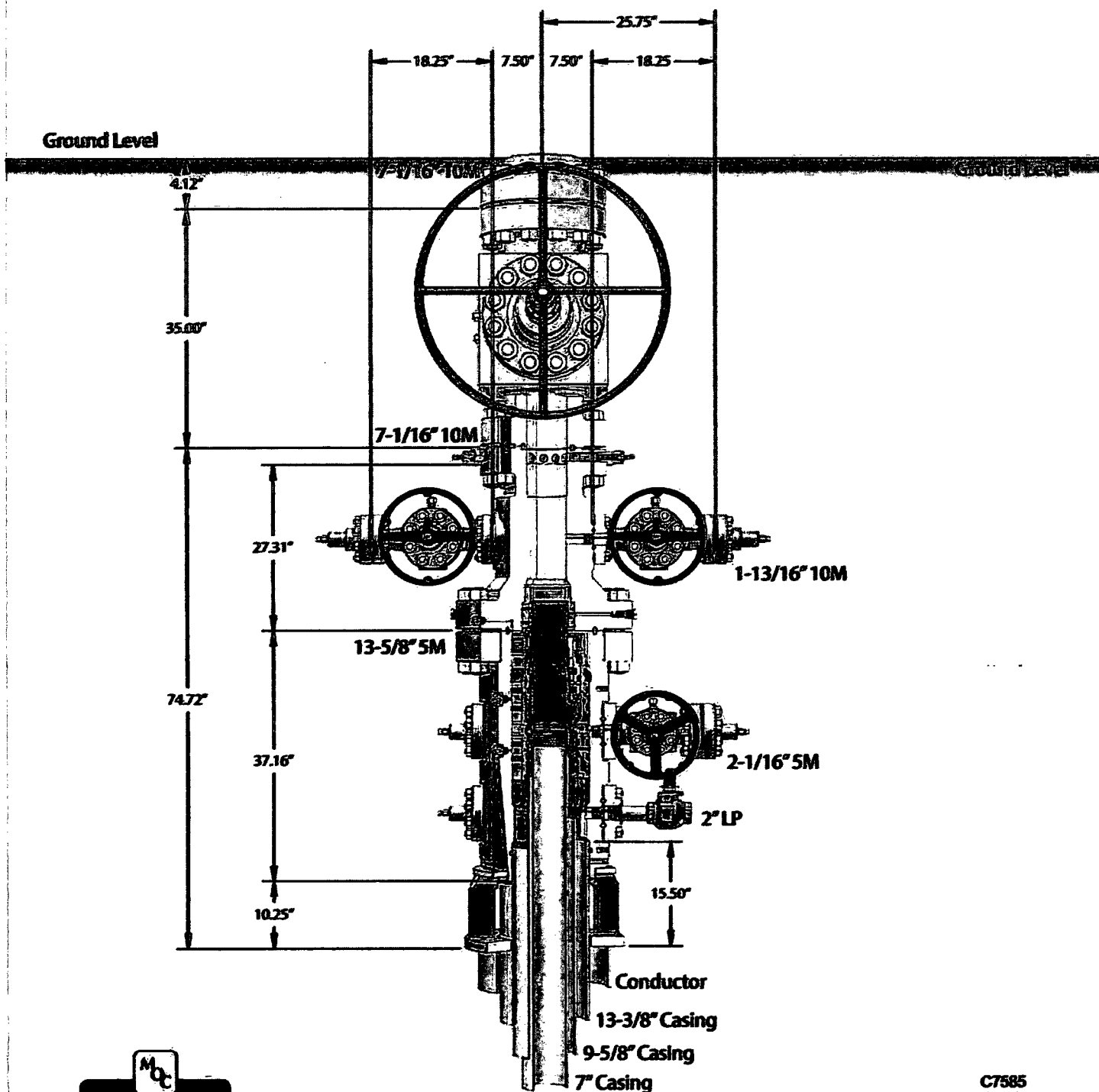




# CAMERON

A Schlumberger Company

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

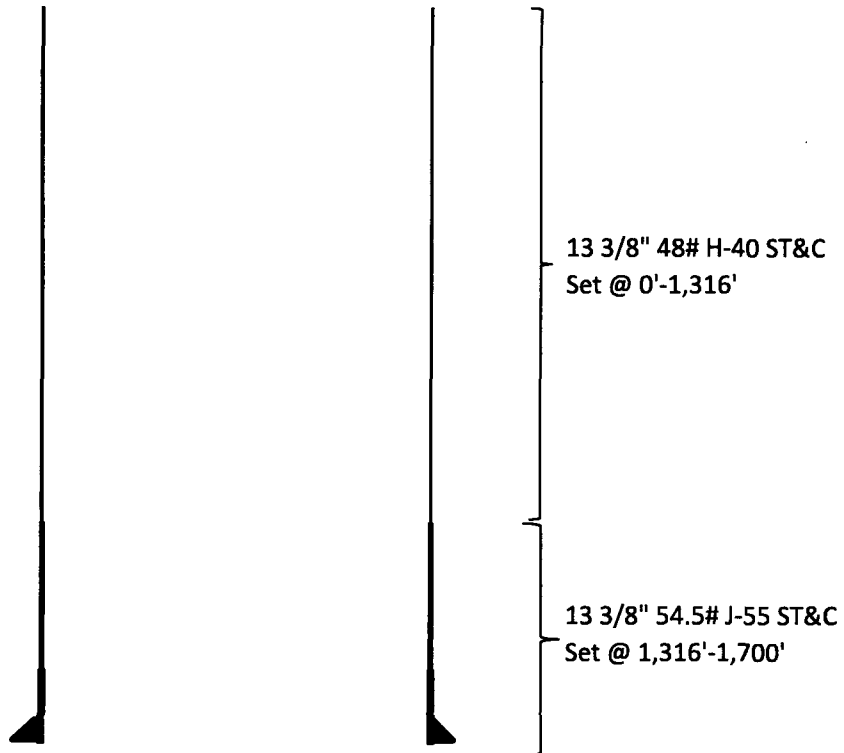


*Capping Stange 57" conductor cut-off*  
*79*

C7585  
Rev. 02

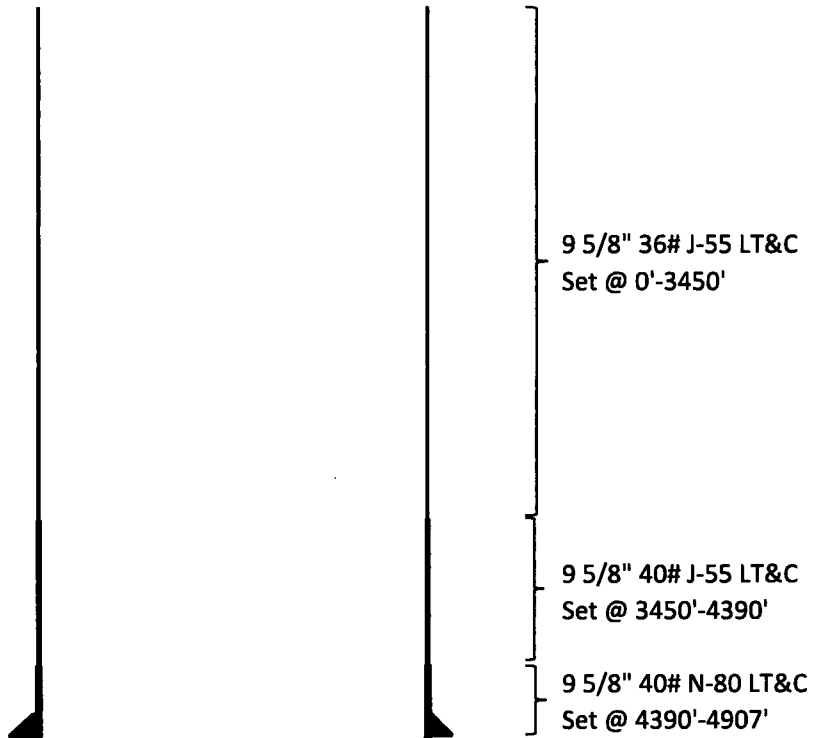
NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Pronghorn 15 B3AP Fed Com #1H  
Surface Casing



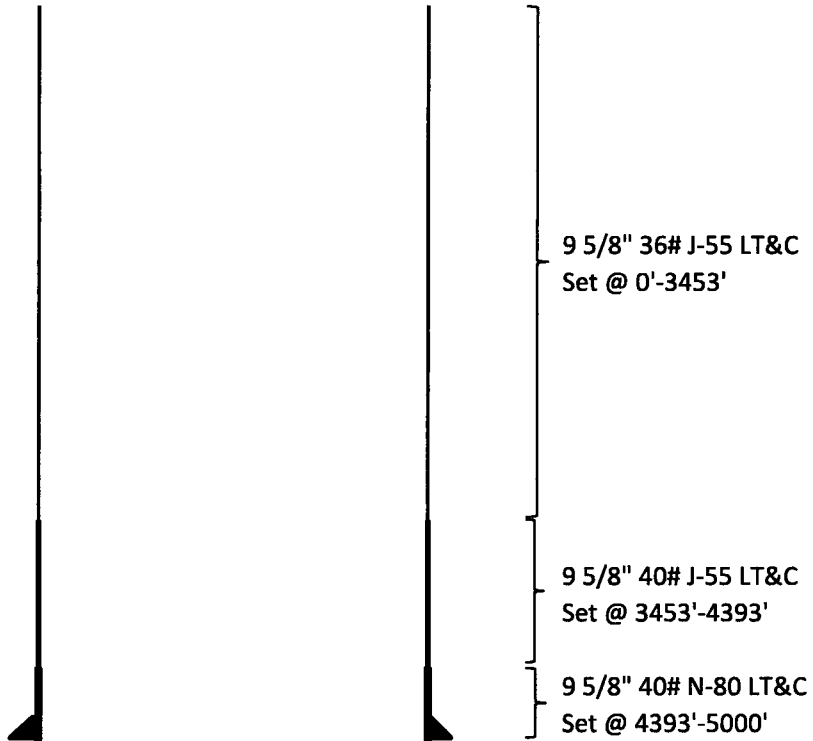
Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
48# H-40	1.13	2.53	3.83	8.56
54.5# J-55	1.28	3.09	24.58	40.78

Pronghorn 15 B3AP Fed Com #1H  
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.48	4.54
40# J-55	1.13	1.73	8.94	16.75
40# N-80	1.21	2.25	35.86	44.57

Gazelle 22 B2MD Fed Com #2H  
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.43	4.54
40# J-55	1.13	1.73	8.4	16.75
40# N-80	1.19	2.21	30.36	37.74

Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
 SL: 168' FSL & 718' FWL  
 BHL: 330' FNL & 380' FWL

**Casing Program**

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	1045'	13.375"	48	H40	STC	1.42	3.18	6.42	10.79
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.43	4.54
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	8.40	16.75
12.25"	4393'	5000'	9.625"	40	N80	LTC	1.19	2.21	30.36	37.74
8.75"	0'	10,716'	7"	26	P110	LTC	1.50	1.92	2.32	2.98
6.125"	9967'	15,182'	4.5"	13.5	P110	LTC	1.97	2.29	4.80	5.99
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 3 <sup>rd</sup> 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 2 <sup>nd</sup> 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?	



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12.25"	4393'	5000'	9.625"	40	N80	LTC	1.19	2.21	30.36	37.74
8.75"	0'	10,552'	7"	26	P110	LTC	1.51	1.92	2.39	3.03
6.125"	9960'	15,175'	4.5"	13.5	P110	LTC	1.97	2.29	4.80	5.99
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**Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H**  
**Sec 22, T23S, R34E**  
**SL: 168' FSL & 718' FWL**  
**BHL: 330' FNL & 380' FWL**

**1. Geologic Formations**

<b>TVD of target</b>	10,438'	<b>Pilot hole depth</b>	<b>NA</b>
<b>MD at TD:</b>	15,175'	<b>Deepest expected fresh water:</b>	300'

**Basin**

<b>Formation</b>	<b>Depth (TVD) from KB</b>	<b>Water/Mineral Bearing/ Target Zone?</b>	<b>Hazards*</b>
Quaternary Fill	Surface		
Rustler	970	Water	
Top Salt	2035		
Castile			
Base Salt	4325		
Yates		Oil/Gas	
Seven Rivers			
Queen			
Lamar	5075	Oil/Gas	
Bell Canyon	5100	Oil/Gas	
Cherry Canyon	5845	Oil/Gas	
Manzanita Marker			
Brushy Canyon	7270	Oil/Gas	
Bone Spring	8575	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand	9650		
2 <sup>nd</sup> Bone Spring Sand	10,175	Target Zone	
3 <sup>rd</sup> Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
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## 2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
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Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
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### 3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	560	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.	840	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.	305	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	215	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	4800'	25%
Liner	9967'	25%

Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
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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. <ul style="list-style-type: none"> <li>Provide description here: See attached schematic.</li> </ul>

Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
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**5. Mud Program**

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1045'	Spud Mud	8.6-8.8	28-34	N/C
1045'	5000'	BW	10.0	28-34	N/C
5000'	9946'	FW w/ Polymer	8.6-9.7	28-34	N/C
9946'	10,438'	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.**

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

**6. Logging and Testing Procedures**

<b>Logging, Coring and Testing</b>	
X	Will run GR/CNL from KOP (9967') 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

<b>Additional logs planned</b>		<b>Interval</b>
X	Gamma Ray	9967' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	



Mewbourne Oil Company Gazelle 22 B2MD Fed Com #2H  
 Sec 22, T23S, R34E  
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**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5428 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.	
<input type="checkbox"/>	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



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

## SUPO Data Report

07/02/2018

APD ID: 10400029580

Submission Date: 04/24/2018

Operator Name: MEWBOURNE OIL COMPANY

Well Name: GAZELLE 22 B2MD FED COM

Well Number: 2H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Gazelle22B2MDFedCom1H\_EXISTINGROADMAP\_20180524150011.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:

Gazelle22B2MDFedCom1H\_NEWROADMAP\_20180524150637.pdf

New road type: RESOURCE

Length: 20.1

Feet

Width (ft.): 30

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: Road with have ditch with 3:1 slope.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:** 1

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Topsoil will be stockpiled along edge of ditch along roadside.

**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:**

Gazelle22B2MDFedCom2H\_existingwellmap\_20180420134358.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:** Production facility will be on the east of the proposed well pad.

**Production Facilities map:**

Gazelle22B2MDFedCom1H\_PRODUCTIONFACILITYMAP\_20180524150539.pdf

### **Section 5 - Location and Types of Water Supply**

**Water Source Table**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

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

**Water source type:** IRRIGATION

**Describe type:**

**Source longitude:** -103.29521

**Source latitude:** 32.193504

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Source land ownership:** PRIVATE

**Water source transport method:** TRUCKING

**Source transportation land ownership:** PRIVATE

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

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

**Source volume (gal):** 81480

**Water source and transportation map:**

Gazelle22B2MDFedCom2H\_watersourceandtransmap\_20180420134533.pdf

**Water source comments:**

**New water well?** NO

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**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:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

## Section 6 - Construction Materials

**Construction Materials description:** Private Caliche Pit

**Construction Materials source location attachment:**

Gazelle22B2MDFedCom2H\_calichesourceandtransmap\_20180420135102.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

**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 **Disposal location ownership:** PRIVATE

**Operator Name: MEWBOURNE OIL COMPANY**

**Well Name: GAZELLE 22 B2MD FED COM**

**Well Number: 2H**

**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?**

**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:**

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Gazelle22B2MDFedCom1H\_WELLSITELAYOUT\_20180524150940.pdf

**Comments:** None

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:**

**Multiple Well Pad Number:**

**Recontouring attachment:**

**Drainage/Erosion control construction:** None

**Drainage/Erosion control reclamation:** None

<b>Well pad proposed disturbance (acres):</b> 4.132	<b>Well pad interim reclamation (acres):</b> 0.31	<b>Well pad long term disturbance (acres):</b> 3.822
<b>Road proposed disturbance (acres):</b> 0.04	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0
<b>Powerline proposed disturbance (acres):</b> 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 0	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 4.172	<b>Total interim reclamation:</b> 0.31	<b>Total long term disturbance:</b> 3.822

**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:**

**Operator Name: MEWBOURNE OIL COMPANY**

**Well Name: GAZELLE 22 B2MD FED COM**

**Well Number: 2H**

**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:**

#### Seed Summary

**Total pounds/Acre:**

Seed Type	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**



**Operator Name:** MEWBORNE OIL COMPANY

**Well Name:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

**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:** OTHER

**Other surface owner description:** Lea County Road Dept.

**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:** GAZELLE 22 B2MD FED COM

**Well Number:** 2H

**Disturbance type:** WELL PAD

**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:**

**Disturbance type:** NEW 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: GAZELLE 22 B2MD FED COM**

**Well Number: 2H**

## 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**

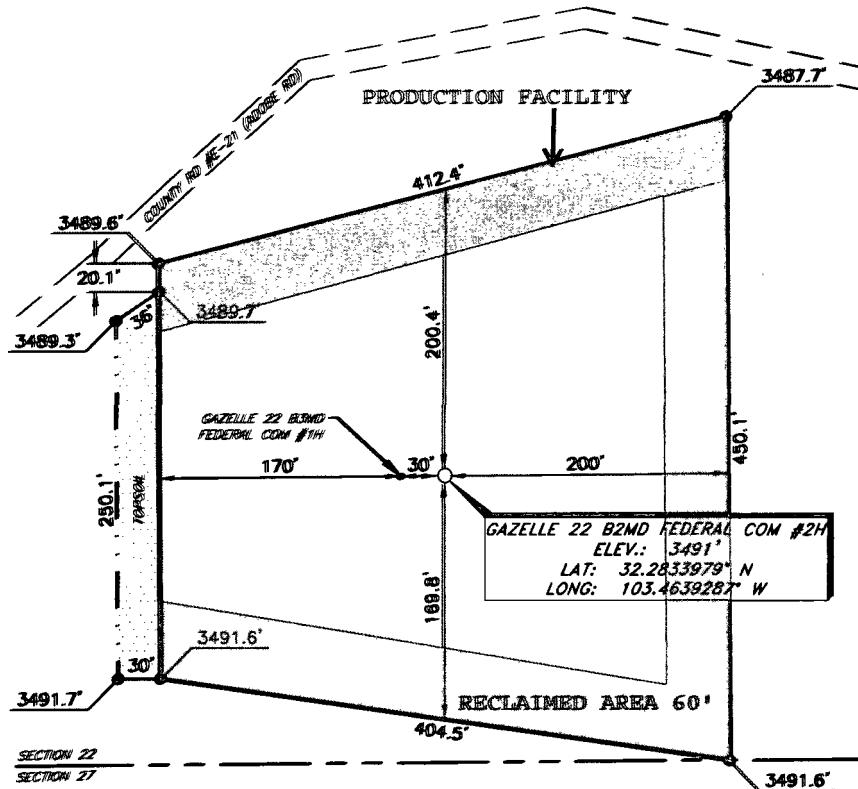
**Previous Onsite information:** MAY 17 2018 Met with Paul Murphy (BLM) and RRC Surveying and Re-staked location due to playa lake on southwest side of location. Re-staked @ 200' FSL & 786' FWL, Sec 22 T23S R34E, Lea Co. NM. This is a drillable location. Location will be 450' x 400'. Will require partial use of BLM caliche pit. Will be under Gazelle 22 B3MD Fed Com #1H environmental assessment. (BCB)

### Other SUPO Attachment

Gazelle22B2MDFedCom2H\_gascaptureplan\_20180420135309.pdf

Gazelle22B2MDFedCom1H\_INTERIMRECLAMATIONMAP\_20180524151044.pdf

**MEWBOURNE OIL COMPANY  
GAZELLE 22 B2MD FEDERAL COM #1H  
(200' FSL & 786' FWL)  
SECTION 22, T23S, R34E  
N. M. P. M., LEA COUNTY, NEW MEXICO**



**DIRECTIONS TO LOCATION**

From the intersection of CR-21 (Delaware Basin Rd.) and CR-21B (Antelope Rd.)  
Go South on CR-21B approx. 3.2 miles to CR-E21 (Adobe Rd.) on left;  
Turn left and go Northeast approx. 0.5 miles to 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



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SCALE: 1" = 100'  
0 50 100  
BEARINGS ARE  
AND 83° GRID - NM EAST  
DISTANCES ARE GROUND

NO.	REVISED	DATE
JOB NO.:	LS1804420R	
DWG. NO.:	1804420PAD	

**RRC**

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

SCALE: 1" = 100'
DATE: 4-2-18
SURVEYED BY: ML
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1



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

PWD Data Report

07/02/2018

## 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:

Describe 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:

Describe 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 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:**



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

## Bond Info Data Report

07/02/2018

### 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?**

**BL 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:**