

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-53306	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Awesome Blossom 24/23 B2PM Fed Com	
8. Well Number	1H
9. OGRID Number	14744
10. Pool name or Wildcat Maroon Cliffs; Bone Spring	
4. Well Location Unit Letter <u>L</u> : <u>1810</u> feet from the <u>South</u> line and <u>205</u> feet from the <u>West</u> line Section <u>19</u> Township <u>20S</u> Range <u>31E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3532' GL</u>	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

MOC requests the following procedural changes to the approved APD. 1) MOC requests to amend the casing design per R-111Q Guidelines, 4 String Potash Engineered Weak Point. Please see attached pdf discerning procedure. 2) MOC request to amend BOP/BOPE from originally approved 5M rating to 3M rating. 3) Please see attached documentation referencing design changes and data that corresponds to said procedural alterations.

Spud Date:

02/23/2023

Rig Release Date:

04/19/2023

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Gage Owen TITLE Engineer DATE 02/15/2023

Type or print name Gage Owen E-mail address: gowen@mewbourne.com PHONE: 575-552-6224

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

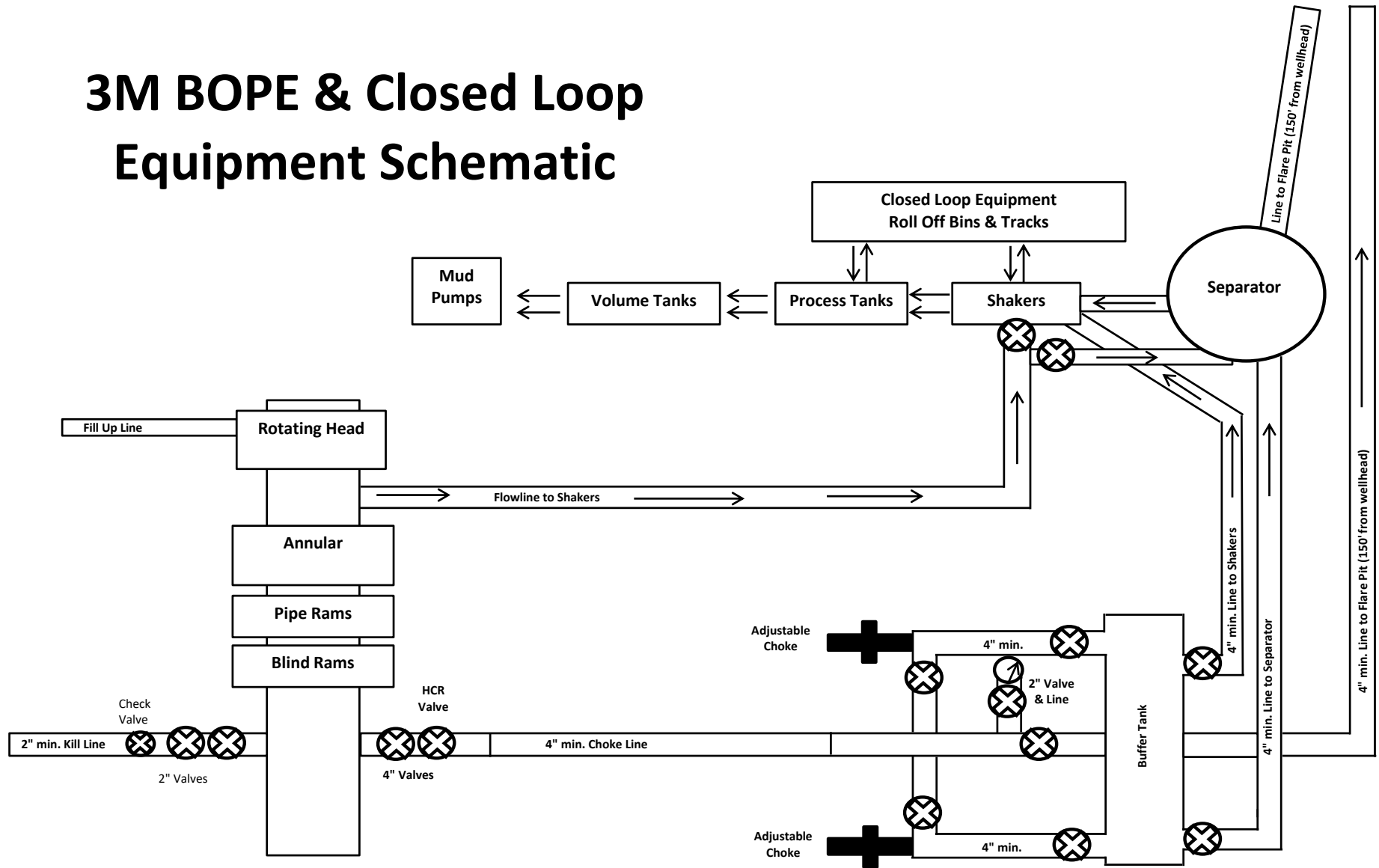
Additional Information

Location of Well

0. SHL: NWSW / 1810 FSL / 205 FWL / TWSP: 20S / RANGE: 31E / SECTION: 19 / LAT: 32.5565273 / LONG: -103.916434 (TVD: 27 feet, MD: 27 feet)
PPP: SWSE / 400 FSL / 1327 FEL / TWSP: 20S / RANGE: 30E / SECTION: 23 / LAT: 32.552634 / LONG: -103.9385738 (TVD: 8903 feet, MD: 16040 feet)
PPP: SESE / 400 FSL / 0 FEL / TWSP: 20S / RANGE: 30E / SECTION: 23 / LAT: 32.5526377 / LONG: -103.9342637 (TVD: 8925 feet, MD: 14712 feet)
PPP: SWSE / 400 FSL / 1320 FEL / TWSP: 20S / RANGE: 30E / SECTION: 24 / LAT: 32.5526479 / LONG: -103.9214276 (TVD: 8993 feet, MD: 10756 feet)
PPP: SESE / 400 FSL / 100 FEL / TWSP: 20S / RANGE: 30E / SECTION: 24 / LAT: 32.5526508 / LONG: -103.9174681 (TVD: 9014 feet, MD: 9536 feet)
BHL: SWSW / 400 FSL / 100 FWL / TWSP: 20S / RANGE: 30E / SECTION: 23 / LAT: 32.5526244 / LONG: -103.9511375 (TVD: 8837 feet, MD: 19912 feet)

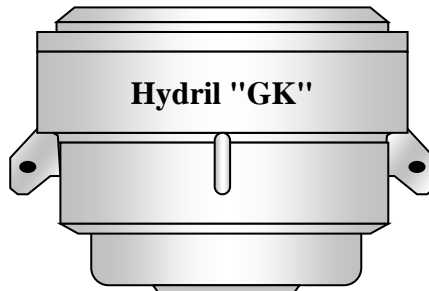
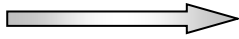
CONFIDENTIAL

3M BOPE & Closed Loop Equipment Schematic



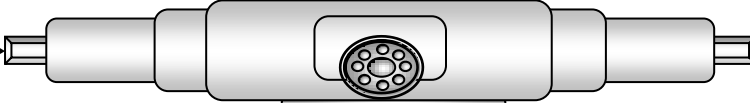
Drawing not to scale

Hydril "GK"
13 5/8" 3M

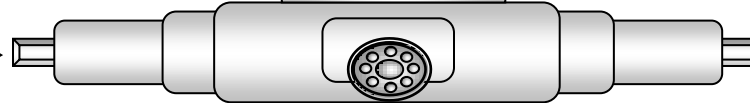


Hydril "GK"

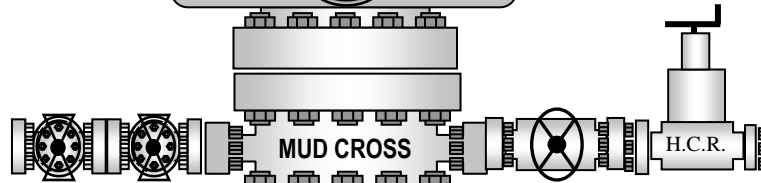
Cameron Type U
13 5/8" 3M



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



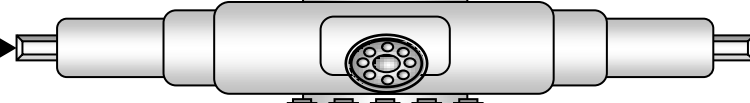
BLIND RAMS



MUD CROSS



H.C.R.



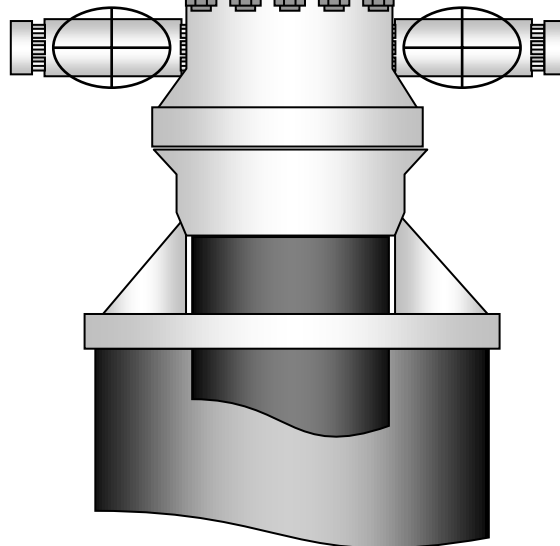
7" RAMS



13 5/8" 3M

13 5/8" 3M

13 5/8" 3M



Mewbourne Oil Company - Variance Request

Well Name & No.: Awesome Blossom 24/23 B2PM Fed Com #1H

Mewbourne Oil Company requests a variance for the 2nd Int String per R-111Q guidelines to be implemented as follows:

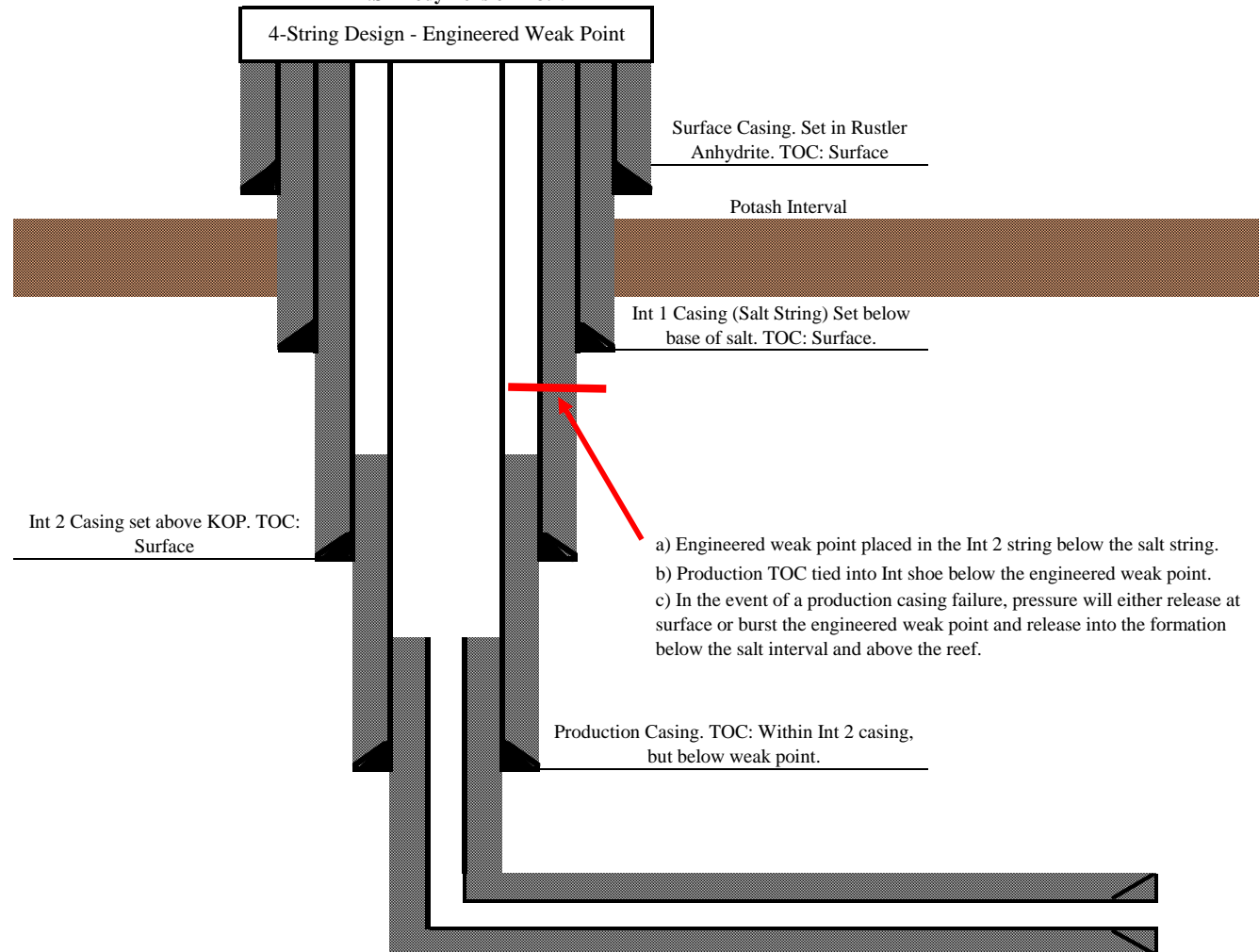
Engineered Weak Point @ 2300' - 9.625" 36# J55 LTC

:SF Collapse - 1.92'

:SF Burst - 3.34'

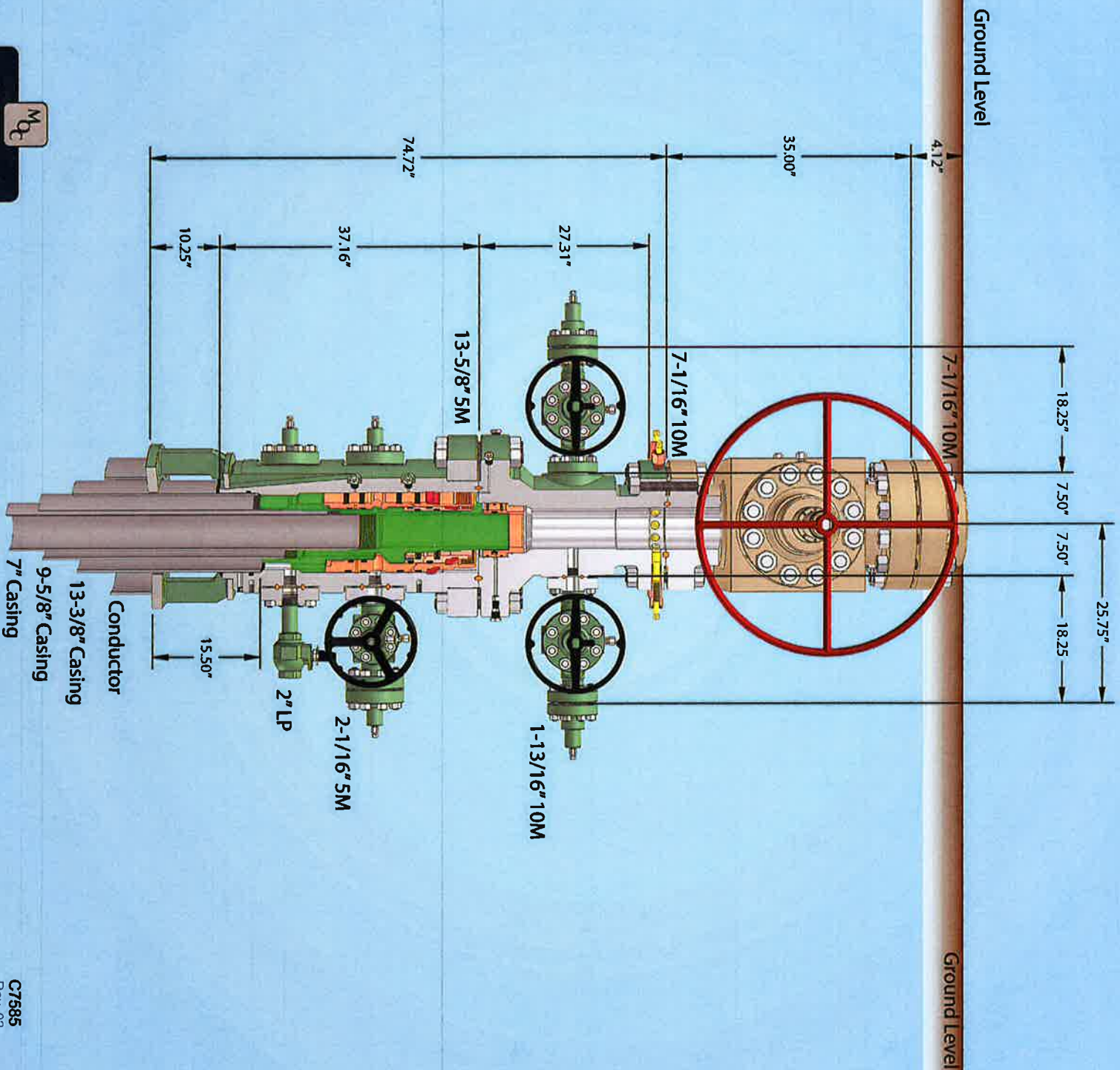
:SF Jt Tension - 3.04'

:SF Body Tension - 3.79'





13-5/8" MN-DS Wellhead System



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

C7685
Rev. 02

MEMBOURNE
OIL COMPANY

MOC

Mewbourne Oil Company, Awesome Blossom 24/23 B2PM Fed Com #1H**Sec 19, T20S, R31E****SHL: 1810' FSL & 205' FWL (Sec 19)****BHL: 400' FSL & 100' FWL (Sec 23)****Casing Program**

Hole Size	From	To	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF Jt	SF Body Tension
				(lbs)			Collapse		Tension	
26.000	0'	605'	20.000	94.0	J55	BTC	1.88	7.62	24.65	26.02
17.500	0'	1932'	13.375	54.5	J55	STC	1.13	2.72	4.70	7.79
17.500	1932'	2000'	13.375	61.0	J55	STC	1.48	2.97	142.65	230.64
12.250	0'	3950'	9.625	40.0	J55	LTC	1.42	2.19	3.29	3.99
8.750	0'	8561'	7.000	26.0	P110	LTC	1.47	2.35	3.11	3.73
6.125	8361'	19913'	4.500	13.5	P110	LTC	2.28	2.65	2.17	2.71
BLM Minimum Safety Factor							1.125	1.0	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 IILB.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?				Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?				Y
Is well within the designated 4 string boundary.				Y
Is well located in SOPA but not in R-111-P?				N
If yes, are the first 2 strings cemented to surface and 3 rd 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?				Y
Is 2 nd string set 100' to 600' below the base of salt?				Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.				
Is an engineered weak point used to satisfy R-111-Q?				Y
If yes, at what depth is the weak point planned?				2300'
Is well located in high Cave/Karst?				Y
If yes, are there two strings cemented to surface?				Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?				
Is well located in critical Cave/Karst?				N
If yes, are there three strings cemented to surface?				
Formation	Est. Top		Formation	Est. Top
Rustler	529'		Delaware (Lamar)	4023'
Salt Top	987'		Bell Canyon	
Salt Base	1877'		Cherry Canyon	
Yates	1916'		Manzanita Marker	
Seven Rivers			Basal Brushy Canyon	
Queen			Bone Spring	7006'
Capitan	2553'		1st Bone Spring Sand	8159'
Grayburg			2nd Bone Spring Sand	8774'
San Andres			3rd Bone Spring Sand	
Glorieta			Abo	
Yeso			Wolfcamp	

API ID:
Operator Name: MEWBOURNE OIL COMPANY
WELL NAME: Awesome Blossom 24/23 B2PM Fed Com
WELL TYPE: Oil

SUBMISSION DATE: 01/16/2023

WELL NUMBER: 1H
WELL WORK TYPE: DRILL

****Proposed Operational Changes****
Csg Design: ✓
Cmt Design: ✓
Circulating Medium Depths: ✓
Polish Variance: ✓
BOPE: ✓

Section 1 - Geologic Formations

Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
Unknown	3532	28	28	Other: Topsoil	NONE	N
Rustler	3003	529	529	SALT	NONE	N
Top of Salt	2545	987	987	SALT	NONE	N
Salt Base	1655	1877	1877	DOLOMITTE	Natural Gas, Oil	N
Yates	1616	1916	1916	SANDSTONE	Natural Gas, Oil	N
Captain Reef	979	2553	2553	LIMESTONE/DOLOMITTE	Natural Gas, Oil	N
Lamar	-491	4023	4023	LIMESTONE	Natural Gas, Oil	N
Bone Spring	-3474	7006	7006	LIMESTONE/SHALE	Natural Gas, Oil	N
1st BS Sand	-4627	8159	8159	SANDSTONE	Natural Gas, Oil	N
2nd BS Sand	-5242	8774	8774	SANDSTONE	Natural Gas, Oil	Y

Section 2 - Blowout Prevention

Pressure Rating: 3M
Equipment: Annular, Pipe Rams, Blind Rams
Requesting Variance: YES
Variance Request: Request variance for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be 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 cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Rating Depth:

Choke Diagrams: [See Attached](#)
BOP Diagrams: [See Attached](#)

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 Csg Length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	Surface	26"	13.375"	New	API	N	0	605	0	605	3532	2927	605	J-55	94	BT&C	1.88	7.62	Dry	24.65	Dry	26.02
2	Intermediate 1	17.5"	13.375"	New	API	N	0	1932	0	1932	3532	1600	1932	J-55	54.5	ST&C	1.13	2.72	Dry	4.7	Dry	7.79
3	Intermediate 1	17.5"	13.375"	New	API	N	1932	2000	1932	2000	1600	1532	68	J-55	61	ST&C	1.48	2.97	Dry	99.99	Dry	99.99
4	Intermediate 2	12.25"	9.675"	New	API	N	0	3950	0	3950	3532	-418	3950	J-55	40	LT&C	1.42	2.19	Dry	3.29	Dry	3.99
5	Production	8.75"	7"	New	API	N	0	8561	0	8382	3532	-4850	8561	P-110	26	LT&C	1.47	2.35	Dry	3.11	Dry	3.73
6	Liner	6.125"	4.5"	New	API	N	8361	19913	8183	9014	-4651	-5482	11552	P-110	13.5	LT&C	2.28	2.65	Dry	2.17	Dry	2.71

Casing Attachments: [See Attached PDF](#)

Section 4 - Cement

String Type	Lead/Tail	Stage Top Depth	Top MD	Bottom MD	Quantity (cs)	Yield	Density	Cu FT	Excess %	Cement Type	Additives
Surface	Lead	-	0	516	740	2.12	12.5	1569	100	Class C	Salt, Gel Extender, LCM
Surface	Tail	-	516	605	200	1.34	14.8	268	100	Class C	Retarder
Intermediate 1	Lead	-	0	1744	860	2.12	12.5	1823	50	Class C	Salt, Gel Extender, LCM
Intermediate 1	Tail	-	1744	2000	200	1.34	14.8	268	50	Class C	Retarder
Intermediate 2	Lead	2525	0	2173	140	2.12	12.5	297	25	Class C	Salt, Gel Extender, LCM
Intermediate 2	Tail	2525	2173	2525	200	1.34	14.8	268	25	Class C	Retarder
Intermediate 2	Lead	2525	2525	3274	390	2.12	12.5	827	25	Class C	Salt, Gel Extender, LCM
Intermediate 2	Tail	2525	3724	3950	100	1.34	14.8	134	25	Class C	Retarder
Production	Lead	-	2500	6074	320	2.12	12.5	678	30	Class C	Salt, Gel, Extender, LCM, Defoamer
Production	Tail	-	6074	8561	400	1.18	15.6	472	30	Class H	Retarder, Fluid Loss, Defoamer
Liner	Lead	-	8361	19913	740	1.85	13.5	1369	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling

Section 5 - Circulating Medium

Mud System Type: Closed
Will an air or gas system be used? No
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: Paco/PVT/Visual Monitoring

Top Depth	Bottom Depth	Mud Type	Min Weight (lb/gal)	Max Weight (lb/gal)
0	605	Spud Fresh	8.6	8.8
605	2000	Salt-Saturated	10	10
2000	3950	Fresh	8.6	8.8
3950	8561	Cut Brine	8.8	9.7
8561	19913	Oil-Based Mud	8.8	10

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4595
Anticipated Bottom Hole Temperature: 173
Anticipated abnormal pressures, temperatures, or potential geologic hazards? No
Hydrogen sulfide drilling operations plan required? Yes
Hydrogen sulfide drilling operations: [Previously Attached](#)



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

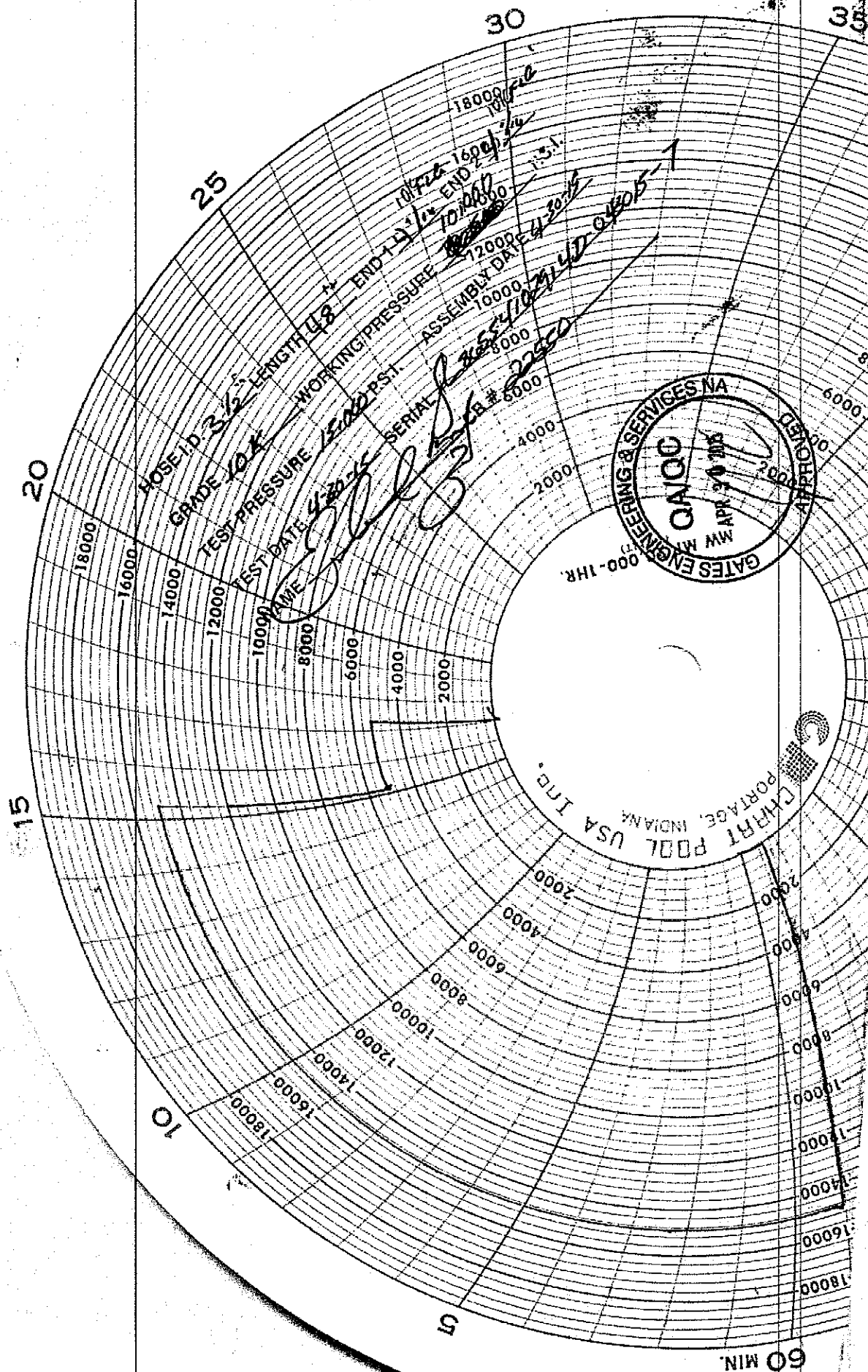
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

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	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :	<i>Justin Cropper</i>	Signature :	<i>Justin Cropper</i>

Form PTC - 01 Rev.02







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

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

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moose Naqvi
Product Description: 10KF3.035.0CK41/1610KFLGFXDxFLT L/E			
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

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

Quality: QUALITY
Date : 8/20/2018
Signature : *Moose Naqvi*

Production: PRODUCTION
Date : 8/20/2018
Signature : *[Signature]*

Form PTC - 01 Rev.0 2



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NMLC0070220
WELL NAME & NO.:	AWESOME BLOSSOM 24-23 B2PM FED COM 1H
SURFACE HOLE FOOTAGE:	1810'S & 205'/W
BOTTOM HOLE FOOTAGE:	400'S & 100'/W
LOCATION:	Section 19, T.20 S., R.31 E., NMP
COUNTY:	EDDY County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input checked="" type="checkbox"/> 4 String Area	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

All Previous COAs Still Apply

A. CASING

Casing Design:

1. The **20** inch surface casing shall be set at approximately **605 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8** inch first intermediate casing which shall be set at approximately **2,000 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
3. The minimum required fill of cement behind the **9-5/8** inch second intermediate casing which shall be set at approximately **3,950 feet** is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Excess cement calculates to -58%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Excess cement calculates to 8%, additional cement might be required.
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

- ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.

Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

4. The minimum required fill of cement behind the **7** inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Excess cement calculates to 25%, additional cement might be required.
5. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

OTA02132023

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

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

CONDITIONS

Action 186360

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 186360
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/22/2023