Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM0144698 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well ✓ Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone SIG 6/5 W0LI FED 1H 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30-015-53420 10. Field and Pool, or Exploratory Russell 3a. Address 3b. Phone No. (include area code) WC BURTON FLAT UPPER WOLFCAMP P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 6/T20S/R29E/NMP At surface SWSW / 1180 FSL / 100 FWL / LAT 32.598542 / LONG -104.1215267 At proposed prod. zone NESE / 2200 FSL / 100 FEL / LAT 32.6012847 / LONG -104.0889272 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State **EDDY** NM 7 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 150 feet location to nearest 160.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 50 feet 9235 feet / 19137 feet FED: NM 1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3283 feet 01/03/2022 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date BRADLEY BISHOP / Ph: (575) 393-5905 (Electronic Submission) 11/18/2021 Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 02/07/2023 CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



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

12 Dedicated Acres

640

13 Joint or Infill

14 Consolidation Code

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

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

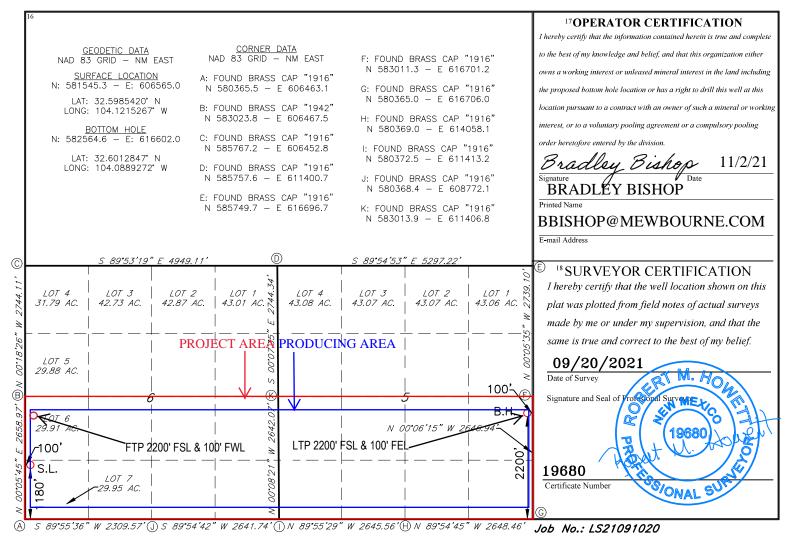
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	API Number 15-534	20		² Pool Code 98315	0.40.50	Russell BURTON FL	³ Pool Na		AMP I	EAST OIL			
⁴ Property Co 333791	ode			:	⁶ Well Number 1 H								
⁷ OGRID 14744				*Operator Name MEWBOURNE OIL COMPANY									
					10 Surface	Location							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/We	est line	County			
7	6	20S	29E		1180	SOUTH	100	WES	ST	EDDY			
¹¹ Bottom Hole Location If Different From Surface													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County			
ī	5	205	29E		2200	SOUTH	100	EAS	ST	r EDDY			

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

15 Order No



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr.

			south St. Francita Fe, NM 87:										
NATURAL GAS MANAGEMENT PLAN This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.													
Section 1 – Plan Description Effective May 25, 2021													
I. Operator: Mev	vbourne (Oil Co.	OGRID:	14744	Date:	_11/	1/21						
II. Type: ★ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.													
If Other, please describe	:												
III. Well(s): Provide the be recompleted from a s					wells proposed to	be dri	lled or proposed to						
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Pı	Anticipated roduced Water BBL/D						
SIG 6/5 W0LI Fed #1H		B 6 20S 29E	1180' FSL x 100' F\	L 1500	5000		1000						
IV. Central Delivery P	oint Name:	SIG 6/5 W0LI Fed	#1H		[See]	19.15.2	7.9(D)(1) NMAC]						
V. Anticipated Schedu proposed to be recomple	le: Provide the eted from a sin	following informa gle well pad or con	tion for each new nected to a centr	or recompleted wal delivery point.	vell or set of well	s propo	sed to be drilled or						
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date						
SIG 6/5 W0LI Fed #1H		1/6/22	2/1/22	3/1/22	3/16/2	2	3/16/22						
VI. Separation Equipn	nent: 🛛 Attach	n a complete descri	ption of how Ope	erator will size sep	aration equipme	nt to op	timize gas capture.						
VII. Operational Prac Subsection A through F			ription of the act	ions Operator wil	l take to comply	with th	he requirements of						
VIII. Best Management during active and planned			te description of	Operator's best n	nanagement prac	tices to	minimize venting						

Section 2 - Enhanced	<u> Plan</u>
EFFECTIVE APRIL 1, 2	022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF				

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in			
				7-1			

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated natural g	as
production volume from the well prior to the date of first production.	

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment		
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by	the new we	:ll(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

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Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

⚠ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:											
Printed Name:	BRADLEY BISHOP										
Title:	REGULATORY MANAGER										
E-mail Address:	BBISHOP@MEWBOURNE.COM										
Date:	5-25-21										
Phone:	575-393-5905										
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)										
Approved By:											
Title:											
Approval Date:											
Conditions of Ap	proval:										

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	11/1/21
Phone:	575-393-5905
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Ap	proval:

Mewbourne Oil Company

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8:
 - A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

Highlighted data



APD ID: 10400081176

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

Drilling Plan Data Report

Submission Date: 11/18/2021

Operator Name: MEWBOURNE OIL COMPANY recent changes

Well Name: SIG 6/5 W0LI FED Well Number: 1H

Well Type: CONVENTIONAL GAS WELL Well Work Type: Drill Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation			Lithologies	Mineral Resources	Producing Formatio
7720117	UNKNOWN	UNKNOWN 3283 28		28	OTHER : Top Soil	NONE	N
7720119	TOP SALT	2827	456	456	SALT	NONE	N
7720120	BASE OF SALT	2475	808	808	SALT	NONE	N
7720116	YATES	2276	1007	1007	SANDSTONE	NATURAL GAS, OIL	N
7720118	CAPITAN REEF	1833	1450	1450	DOLOMITE	USEABLE WATER	N
7720121	LAMAR	132	3151	3151	LIMESTONE	NATURAL GAS, OIL	N
7720115	BONE SPRING	-1914	5197	5197	LIMESTONE, SHALE	NATURAL GAS, OIL	N
7720123	BONE SPRING 1ST	-3559	6842	6842	SANDSTONE	NATURAL GAS, OIL	N
7720126	BONE SPRING 2ND	-4151	7434	7434	SANDSTONE	NATURAL GAS, OIL	N
7720127	BONE SPRING 3RD	-5376	8659	8659	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
7808359	WOLFCAMP	-5782	9065	9065	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 19137

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. Anchors are not required by manufacturer. A variance is also 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

Well Name: SIG 6/5 W0LI FED Well Number: 1H

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.

Choke Diagram Attachment:

Sig_6_5_W0LI_Fed_1H_Flex_Line_Specs_20211116083311.pdf

Sig_6_5_W0LI_Fed_1H_5M_BOPE_Choke_Diagram_20211116083311.pdf

Sig_6_5_W0LI_Fed_1H_Flex_Line_Specs_API_16C_20211116083311.pdf

BOP Diagram Attachment:

Sig_6_5_W0LI_Fed_1H_5M_Mutli_Bowl_WH_20211116083334.pdf

Sig_6_5_W0LI_Fed_1H_5M_BOPE_Schematic_20211116083334.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	26	20.0	NEW	API	N	0	350	0	350	3283	2933	350	J-55	94	BUTT	3.4	13.8	DRY	42.6 1	DRY	44.9 9
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	975	0	975	3283	2308	975	H-40	48	ST&C	1.73	3.88	DRY	6.88	DRY	11.5 3
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3000	0	3000	3292	283	3000	J-55	36	LT&C	1.29	2.26	DRY	4.19	DRY	5.22
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	9582	0	9158	3292	-5875		P- 110	29	LT&C	1.69	2.15	DRY	2.49	DRY	3.07
5	LINER	6.12 5	4.5	NEW	API	N	8684	19137	8585	9235	-5302	-5952	10453	P- 110	13.5	LT&C	2.22	2.58	DRY	2.4	DRY	2.99

Casing Attachments

Well Name: SIG 6/5 W0LI FED Well Number: 1H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Sig_6_5_W0LI_Fed_1H_Csg_Assumptions_20211116085018.pdf$

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Sig_6_5_W0LI_Fed_1H_Csg_Assumptions_20211116083621.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Sig_6_5_W0LI_Fed_1H_Csg_Assumptions_20211116083705.pdf$

Well Name: SIG 6/5 W0LI FED Well Number: 1H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Sig_6_5_W0LI_Fed_1H_Csg_Assumptions_20211116083803.pdf$

Casing ID: 5

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Sig_6_5_W0LI_Fed_1H_Csg_Assumptions_20211116084926.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	261	380	2.12	12.5	806	100	Class C	Gel, Salt, LCM, Extender
SURFACE	Tail		261	350	200	1.34	14.8	268	100	Class C	Salt, LCM
INTERMEDIATE	Lead	1025	0	317	57	2.12	12.5	120	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		317	1025	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead		0	679	290	2.12	12.5	615	25	Class C	Salt, Gel, Extender, LCM

Well Name: SIG 6/5 W0LI FED Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		679	975	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead	1025	1025	2314	238	2.12	12.5	504	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2314	3000	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3050	1350	2453	102	2.12	12.5	218	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		2453	3050	100	1.18	15.6	118	25	Class C	Retarder
PRODUCTION	Lead	3050	3050	7086	360	2.12	12.5	763	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		7086	9582	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		8684	1913 7	410	2.97	11.2	1218	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

Well Name: SIG 6/5 W0LI FED Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	350	SPUD MUD	8.6	8.8							
350	3000	SALT SATURATED	8.8	10							
3000	9582	WATER-BASED MUD	8.6	9.5							
9582	1913 7	OIL-BASED MUD	10	11							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL in offset well: Sig 6/5 W0MP Fed #1H

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

MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3250 Anticipated Surface Pressure: 1218

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Sig_6_5_W0LI_Fed_1H_H2S_Plan_20211116090729.pdf

Well Name: SIG 6/5 W0LI FED Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

 $Sig_6_5_W0LI_Fed_1H_Dir_Plan_20211116090802.pdf$

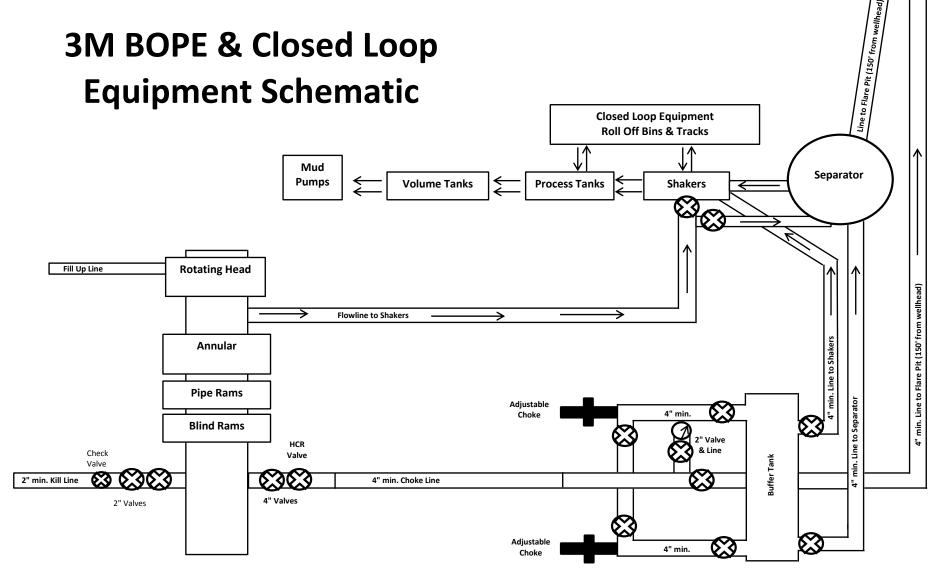
Sig_6_5_W0LI_Fed_1H_Dir_Plot_20211116090802.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Sig_6_5_W0LI_Fed_1H_Add_Info_20211116090812.pdf

Other Variance attachment:



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: Customer Ref.:

Invoice No.:

AUSTIN DISTRIBUTING 4060578 500506

Test Date: Hose Serial No.: Created By:

4/30/2015 D-043015-7 JUSTIN CROPPER

Product Description:

10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

4 1/16 10K FLG 4773-6290 Gates Part No. : 10,000 PSI Working Pressure:

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

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

Produciton:

Date:

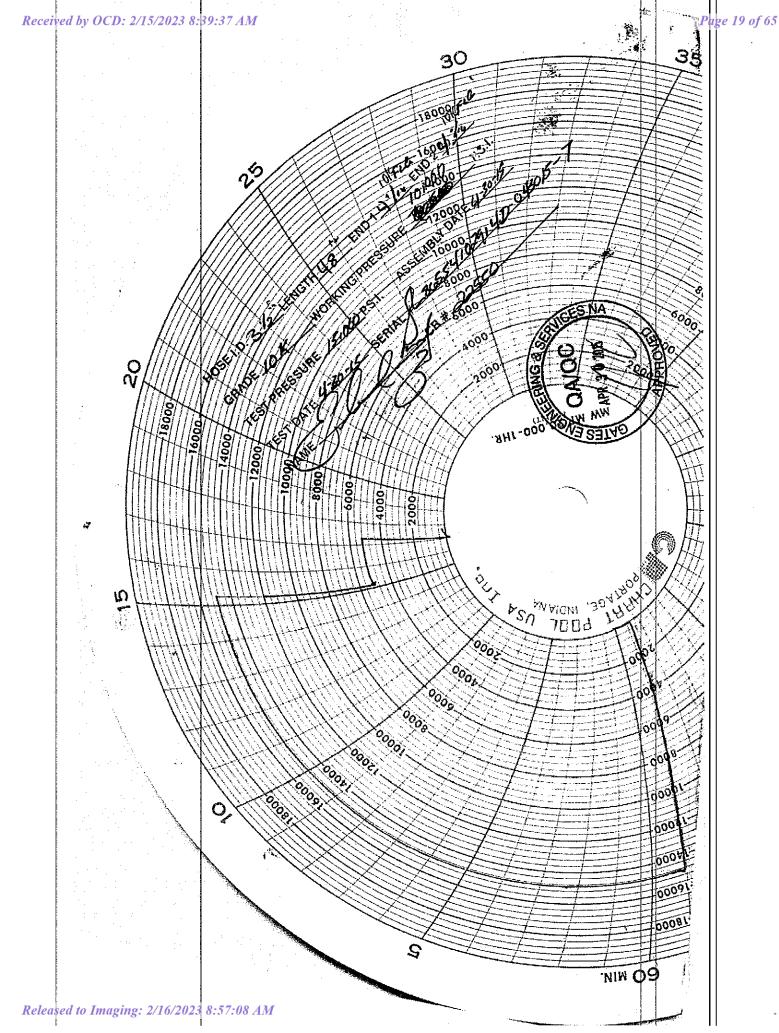
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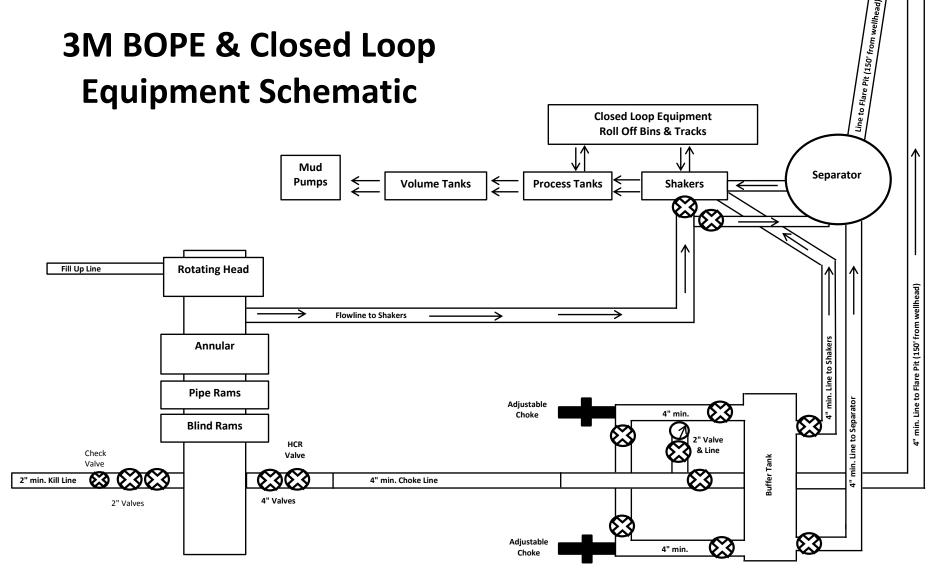
PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2







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: Customer Ref.:

Invoice No.:

AUSTIN DISTRIBUTING 4060578 500506

Test Date: Hose Serial No.: Created By:

4/30/2015 D-043015-7 JUSTIN CROPPER

Product Description:

10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

Gates Part No. : Working Pressure:

4 1/16 10K FLG 4773-6290 10,000 PSI

End Fitting 2: Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 PSI

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Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Produciton:

Date:

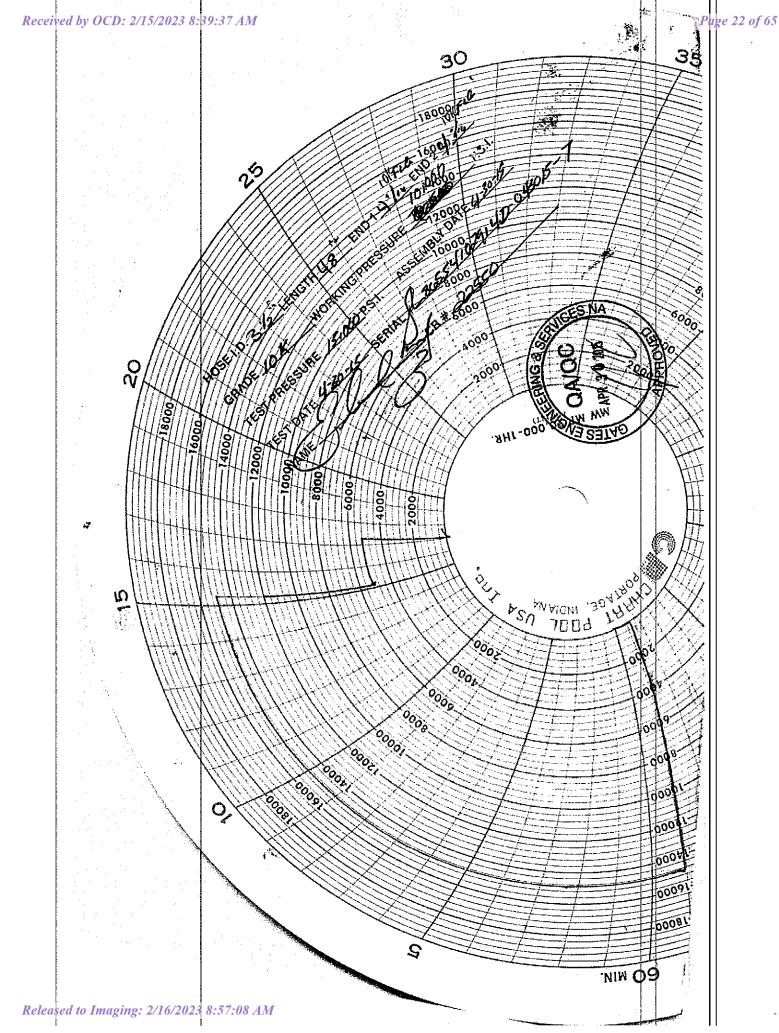
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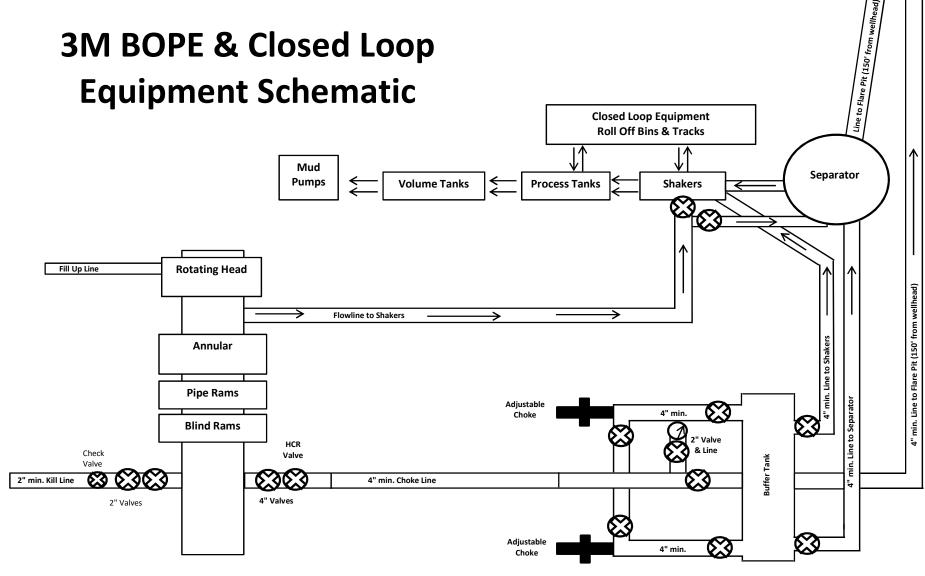
PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2







Drawing not to scale



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10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer: Customer Ref.:

Invoice No.:

AUSTIN DISTRIBUTING 4060578 500506

Test Date: Hose Serial No.: Created By:

4/30/2015 D-043015-7 JUSTIN CROPPER

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10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

4 1/16 10K FLG 4773-6290 Gates Part No. : 10,000 PSI Working Pressure:

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 PSI

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Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Produciton:

Date:

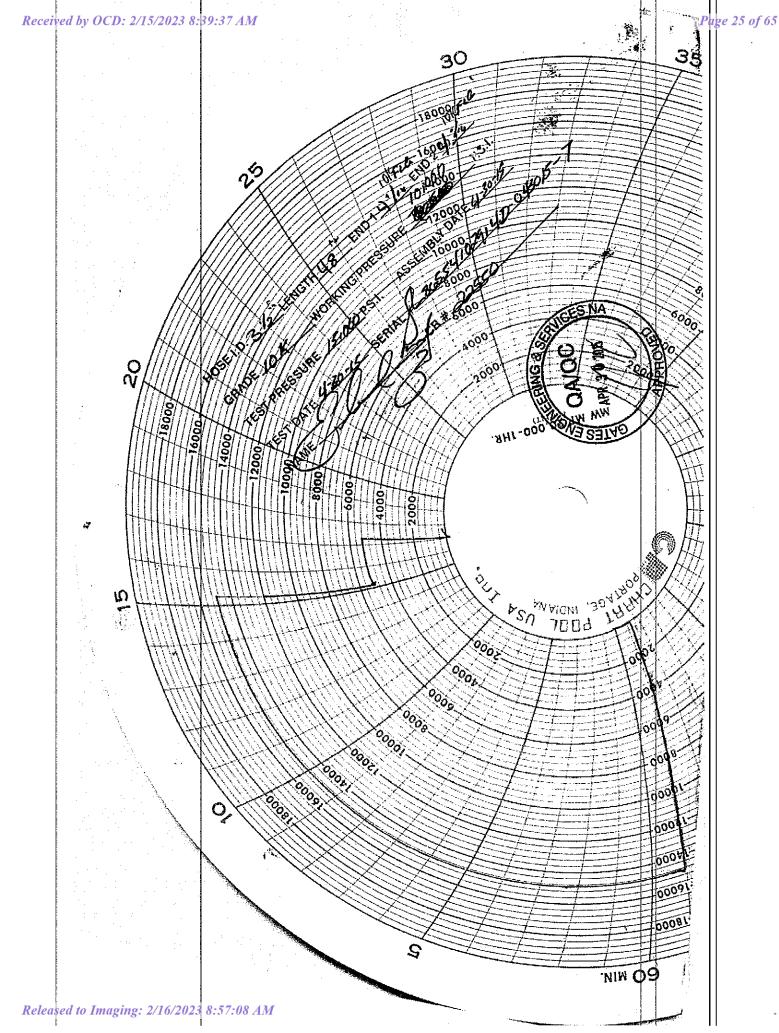
Signature :

PRODUCTION

4/30/2015

Forn PTC - 01 Rev.0 2







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PHONE: 361-887-9807 FAX: 361-887-0812

EMAIL: Tim.Cantu@gates.com

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10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer: Customer Ref.:

Invoice No.:

AUSTIN DISTRIBUTING 4060578 500506

Test Date: Hose Serial No.: Created By:

4/30/2015 D-043015-7 JUSTIN CROPPER

Product Description:

10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1:

Gates Part No. : Working Pressure: 4 1/16 10K FLG 4773-6290 10,000 PSI

End Fitting 2: Assembly Code:

Test Pressure:

4 1/16 10K FLG

L36554102914D-043015-7

15,000 PSI

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Quality Manager:

Date:

Signature:

QUALITY

4/30/2015

Produciton:

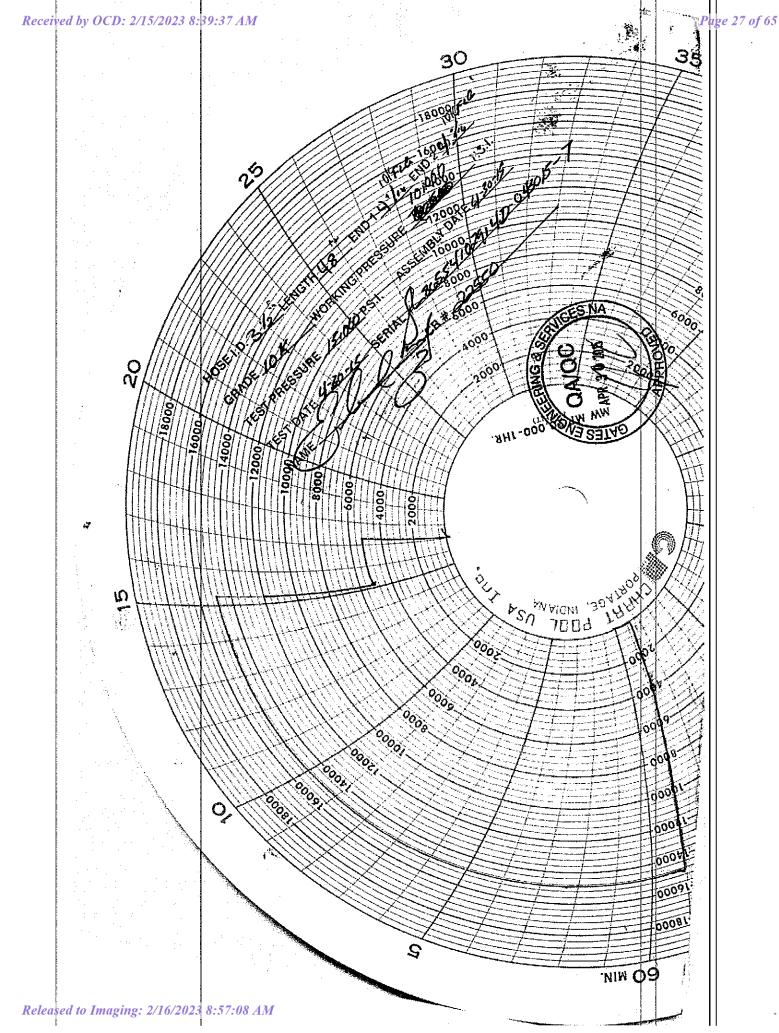
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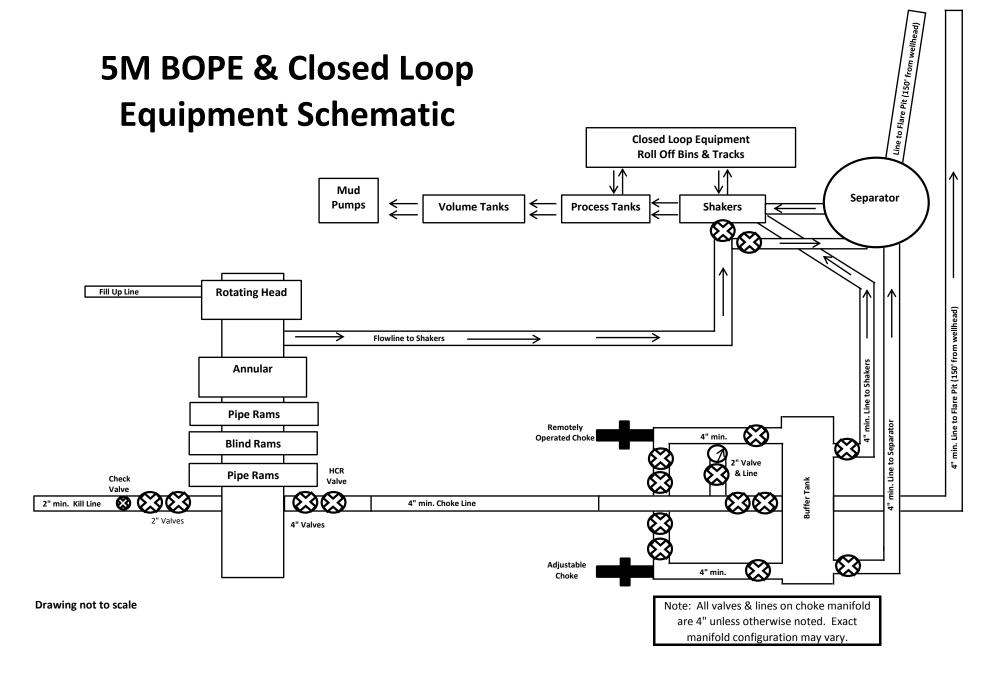
Signature :

PRODUCTION 4/30/2015

Forn PTC - 01 Rev.0 2









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

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

Date : Signature : QUALITY

8/20/2018

Production: Date:

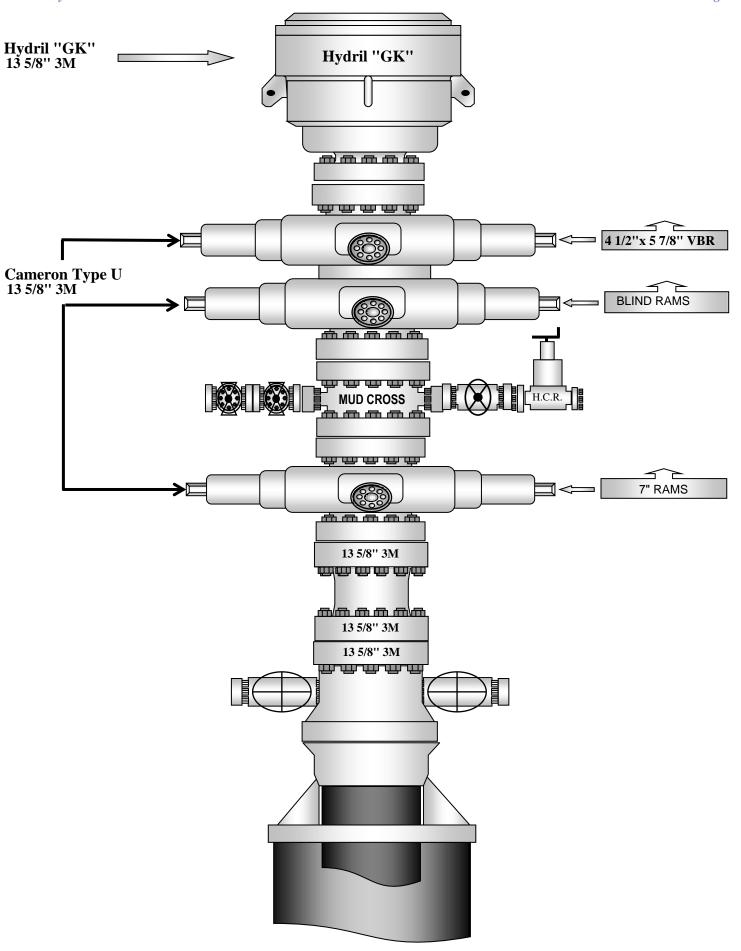
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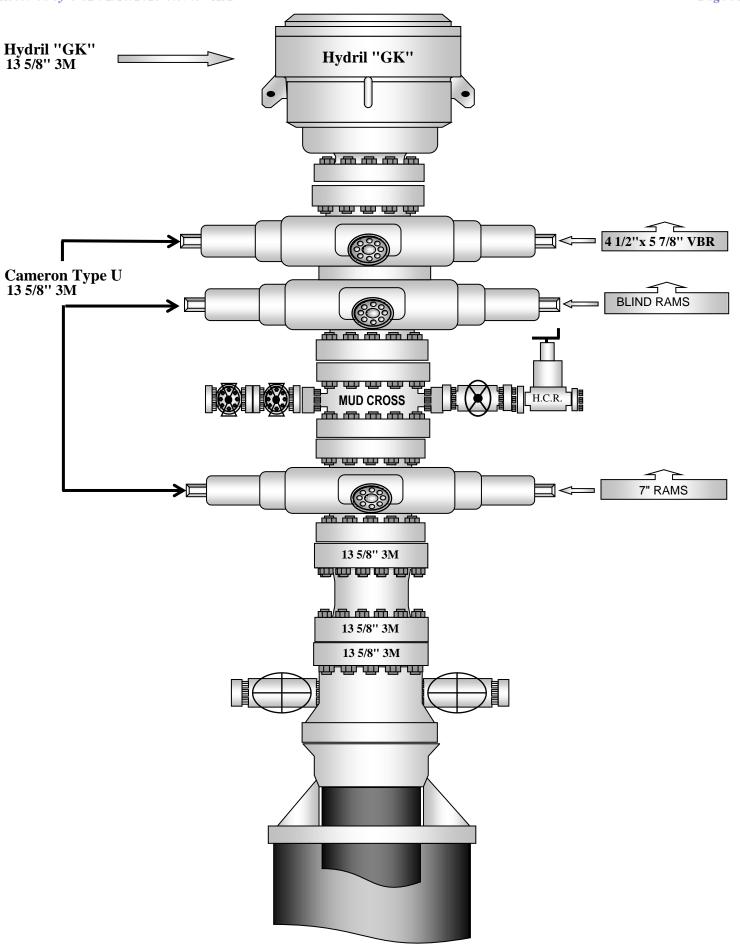
Form PTC - 01 Rev.0 2

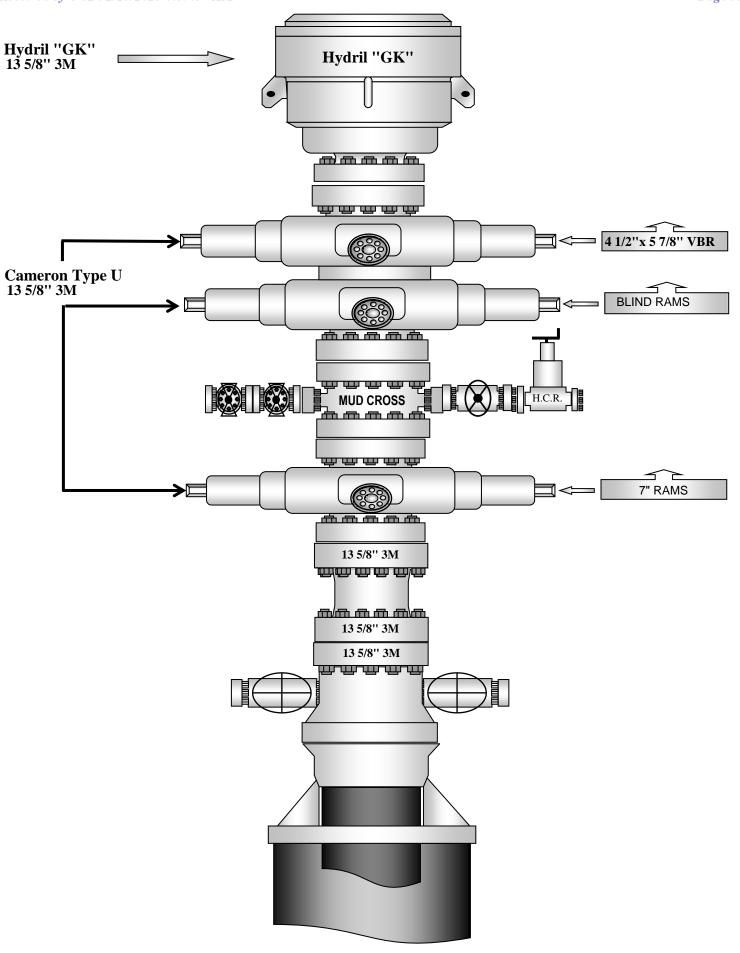
Sates. BLACK

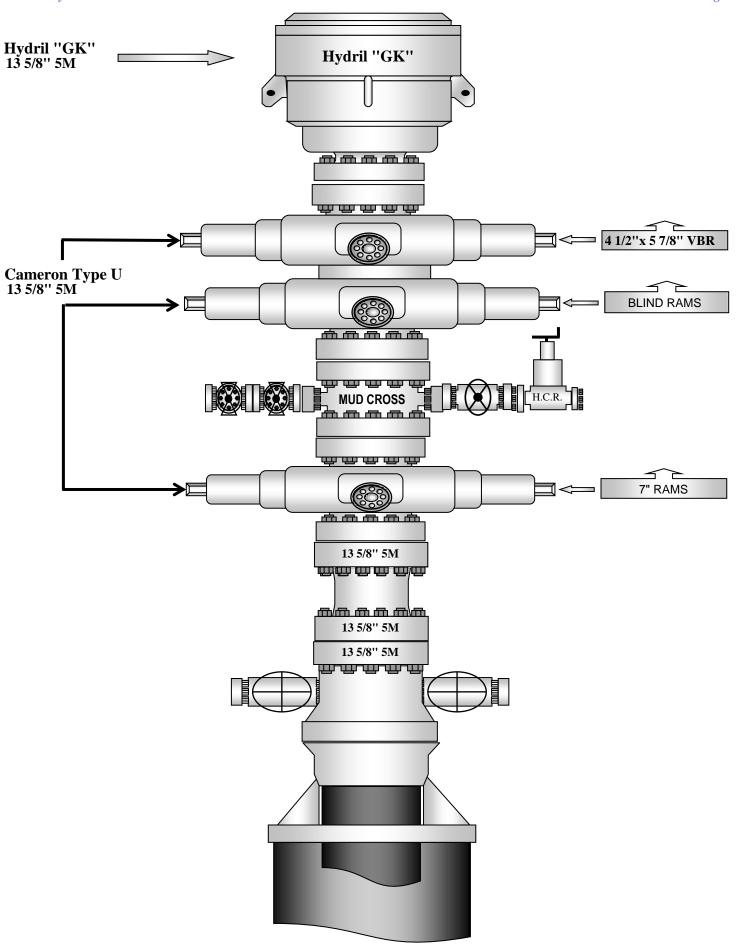
MODUCTION

8/20/2018









SHL: 1180' FSL & 100' FWL, Sec 6 BHL: 2200' FSL & 100' FEL, Sec 5

Casing Program

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	To	Size	(lbs)			Collapse	Burst	Tension	Tension
26"	0'	350'	20"	94	J55	BTC	3.40	13.80	42.61	44.98
17.5"	0'	975'	13.375"	48	H40	STC	1.73	3.88	6.88	11.56
12.25"	0'	3,000'	9.625"	36	J55	LTC	1.29	2.26	4.19	5.22
8.75"	0	9,582'	7"	29	P110	LTC	1.69	2.15	2.49	3.07
6.125"	8,684'	19,137'	4.5"	13.5	P110	LTC	2.22	2.58	2.40	2.99
	•			BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	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	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

SHL: 1180' FSL & 100' FWL, Sec 6 BHL: 2200' FSL & 100' FEL, Sec 5

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Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Sig 6/5 W0LI Fed #1H Sec 6, T20S, R29E

SHL: 1180' FSL & 100' FWL (Sec 6) BHL: 2200' FSL & 100 FEL (Sec 5)

Plan: Design #1

Standard Planning Report

16 November, 2021

Hobbs Database:

Company:

Mewbourne Oil Company Project: Eddy County, New Mexico NAD 83

Sig 6/5 W0LI Fed #1H Site: Well: Sec 6, T20S, R29E

Wellbore: BHL: 2200' FSL & 100 FEL (Sec 5)

Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Minimum Curvature

Project Eddy County, New Mexico NAD 83

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Ground Level

Sig 6/5 W0LI Fed #1H Site

Northing: 581,545.00 usft Site Position: Latitude: 32.5985413 From: Мар Easting: 606,564.00 usft Longitude: -104.1215299

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well Sec 6, T20S, R29E **Well Position** +N/-S 0.0 usft Northing: 581,545.00 usft Latitude: 32.5985413 +E/-W 0.0 usft Easting: 606,564.00 usft Longitude: -104.1215299 **Position Uncertainty** 0.0 usft Wellhead Elevation: 3,310.0 usft **Ground Level:** 3,283.0 usft

0.11° **Grid Convergence:**

BHL: 2200' FSL & 100 FEL (Sec 5) Wellbore

Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) IGRF2010 48,403.11286231 12/31/2014 7.43 60.35

Design Design #1

Audit Notes:

PROTOTYPE Tie On Depth: 0.0 Version: Phase:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 84.20 0.0 0.0 0.0

Plan Survey Tool Program Date 11/15/2021

Depth From Depth To

(usft) (usft) Survey (Wellbore) **Tool Name** Remarks

0.0 19,137.1 Design #1 (BHL: 2200' FSL & 100

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,578.0	11.56	355.07	3,574.1	57.9	-5.0	2.00	2.00	0.00	355.07	
8,106.7	11.56	355.07	8,010.9	962.1	-83.0	0.00	0.00	0.00	0.00	
8,684.7	0.00	0.00	8,585.0	1,020.0	-88.0	2.00	-2.00	0.00	180.00	KOP: 2200' FSL & 10'
9,580.2	89.54	90.00	9,158.0	1,020.0	480.4	10.00	10.00	0.00	90.00	
19,137.1	89.54	90.00	9,235.0	1,020.0	10,037.0	0.00	0.00	0.00	0.00	BHL: 2200' FSL & 10(

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83

 Site:
 Sig 6/5 W0LI Fed #1H

 Well:
 Sec 6, T20S, R29E

Wellbore: BHL: 2200' FSL & 100 FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Grid

d Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 1180' F	FSL & 100 FEL (S	Sec 5)							
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00	,	0.0	0.0	0.0	0.00		0.00
1,100.0			1,100.0					0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	355.07	3,100.0	1.7	-0.2	0.0	2.00	2.00	0.00
3,200.0	4.00	355.07	3.199.8	7.0	-0.6	0.1	2.00	2.00	0.00
3,300.0	6.00	355.07	3,299.5	15.6	-1.3	0.2	2.00	2.00	0.00
3,400.0	8.00	355.07	3,398.7	27.8	-2.4	0.4	2.00	2.00	0.00
3,500.0	10.00	355.07	3,497.5	43.4	-3.7	0.7	2.00	2.00	0.00
3,578.0	11.56	355.07	3,574.1	57.9	-5.0	0.9	2.00	2.00	0.00
3,600.0	11.56	355.07	3,595.6	62.3	-5.4	1.0	0.00	0.00	0.00
3,700.0	11.56	355.07	3,693.6	82.3	-7.1	1.3	0.00	0.00	0.00
3,800.0	11.56	355.07	3,791.6	102.2	-8.8	1.6	0.00	0.00	0.00
3,900.0	11.56	355.07	3,889.6	122.2	-10.5	1.9	0.00	0.00	0.00
4,000.0	11.56	355.07	3,987.5	142.2	-12.3	2.2	0.00	0.00	0.00
4,100.0	11.56	355.07	4,085.5	162.1	-14.0	2.5	0.00	0.00	0.00
4,200.0	11.56	355.07	4,183.5	182.1	-15.7	2.8	0.00	0.00	0.00
4,300.0	11.56	355.07	4,281.4	202.1	-17.4	3.1	0.00	0.00	0.00
4,400.0	11.56	355.07	4,379.4	222.0	-19.2	3.4	0.00	0.00	0.00
4,500.0	11.56	355.07	4,477.4	242.0	-20.9	3.7	0.00	0.00	0.00
4,600.0	11.56	355.07	4,575.4	262.0	-22.6	4.0	0.00	0.00	0.00
4,700.0	11.56	355.07	4,673.3	281.9	-24.3	4.3	0.00	0.00	0.00
4,800.0	11.56	355.07	4,771.3	301.9	-26.0	4.6	0.00	0.00	0.00
4,900.0	11.56	355.07	4,869.3	321.8	-27.8	4.9	0.00	0.00	0.00
5,000.0	11.56	355.07	4,967.2	341.8	-29.5	5.2	0.00	0.00	0.00
5,100.0	11.56	355.07	5,065.2	361.8	-31.2	5.5	0.00	0.00	0.00

Hobbs Database:

Mewbourne Oil Company

Company: Project:

Eddy County, New Mexico NAD 83

Sig 6/5 W0LI Fed #1H Site: Well: Sec 6, T20S, R29E

BHL: 2200' FSL & 100 FEL (Sec 5) Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Design:	Design #1	,	- ,						
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	11.56	355.07	5,163.2	381.7	-32.9	5.8	0.00	0.00	0.00
5,300.0	11.56	355.07	5,261.2	401.7	-34.7	6.1	0.00	0.00	0.00
5,400.0	11.56	355.07	5,359.1	421.7	-36.4	6.4	0.00	0.00	0.00
5,500.0	11.56	355.07	5,457.1	441.6	-38.1	6.7	0.00	0.00	0.00
5,600.0	11.56	355.07	5,555.1	461.6	-39.8	7.0	0.00	0.00	0.00
5,700.0	11.56	355.07	5,653.0	481.6	-41.5	7.4	0.00	0.00	0.00
5,800.0	11.56	355.07	5,751.0	501.5	-43.3	7.7	0.00	0.00	0.00
5,900.0	11.56	355.07	5,849.0	521.5	-45.0	8.0	0.00	0.00	0.00
6,000.0	11.56	355.07	5,947.0	541.5	-46.7	8.3	0.00	0.00	0.00
6,100.0	11.56	355.07	6,044.9	561.4	-48.4	8.6	0.00	0.00	0.00
6,200.0	11.56	355.07	6,142.9	581.4	-50.2	8.9	0.00	0.00	0.00
6,300.0	11.56	355.07	6,240.9	601.4	-51.9	9.2	0.00	0.00	0.00
6,400.0	11.56	355.07	6,338.8	621.3	-53.6	9.5	0.00	0.00	0.00
6,500.0	11.56	355.07	6,436.8	641.3	-55.3	9.8	0.00	0.00	0.00
6,600.0	11.56	355.07	6,534.8	661.3	-57.1	10.1	0.00	0.00	0.00
6,700.0	11.56	355.07	6,632.8	681.2	-58.8	10.4	0.00	0.00	0.00
6,800.0	11.56	355.07	6,730.7	701.2	-60.5	10.7	0.00	0.00	0.00
6,900.0	11.56	355.07	6,828.7	721.2	-62.2	11.0	0.00	0.00	0.00
7,000.0	11.56	355.07	6,926.7	741.1	-63.9	11.3	0.00	0.00	0.00
7,100.0	11.56	355.07	7,024.6	761.1	-65.7	11.6	0.00	0.00	0.00
7,200.0	11.56	355.07	7,122.6	781.1	-67.4	11.9	0.00	0.00	0.00
7,300.0	11.56	355.07	7,220.6	801.0	-69.1	12.2	0.00	0.00	0.00
7,400.0	11.56	355.07	7,318.6	821.0	-70.8	12.5	0.00	0.00	0.00
7,500.0	11.56	355.07	7,416.5	841.0	-72.6	12.8	0.00	0.00	0.00
7,600.0	11.56	355.07	7,514.5	860.9	-74.3	13.1	0.00	0.00	0.00
7,700.0	11.56	355.07	7,612.5	880.9	-74.3 -76.0	13.1	0.00	0.00	0.00
7,800.0	11.56	355.07	7,012.3	900.9	-70.0 -77.7	13.8	0.00	0.00	0.00
		355.07		920.8	-79.4		0.00	0.00	0.00
7,900.0 8,000.0	11.56 11.56	355.07	7,808.4 7,906.4	940.8	-79. 4 -81.2	14.1 14.4	0.00	0.00	0.00
8,106.7	11.56	355.07	8,010.9	962.1	-83.0	14.7	0.00	0.00	0.00
8,200.0	9.69	355.07	8,102.6	979.2	-84.5	15.0	2.00	-2.00	0.00
8,300.0	7.69	355.07	8,201.5	994.3	-85.8	15.2	2.00	-2.00	0.00
8,400.0	5.69	355.07	8,300.8	1,005.9	-86.8	15.4	2.00	-2.00	0.00
8,500.0	3.69	355.07	8,400.4	1,014.1	-87.5	15.5	2.00	-2.00	0.00
8,600.0	1.69	355.07	8,500.3	1,018.8	-87.9	15.6	2.00	-2.00	0.00
8,684.7	0.00	0.00	8,585.0	1,020.0	-88.0	15.6	2.00	-2.00	0.00
8,700.0	SL & 10' FWL (5 1.53	90.00	8,600.3	1,020.0	-87.8	15.8	10.00	10.00	0.00
8,750.0	6.53	90.00	8,650.2	1,020.0	-84.3	19.3	10.00	10.00	0.00
8,800.0	11.53	90.00	8,699.5	1,020.0	-76.4	27.1	10.00	10.00	0.00
8,850.0	16.53	90.00	8,748.0	1,020.0	-64.3	39.1	10.00	10.00	0.00
8,900.0	21.53	90.00	8,795.3	1,020.0	-48.0	55.3	10.00	10.00	0.00
8,950.0	26.53	90.00	8,840.9	1,020.0	-27.7	75.6	10.00	10.00	0.00
9,000.0	31.53	90.00	8,884.6	1,020.0	-3.4	99.7	10.00	10.00	0.00
9,006.5	32.17	90.00	8,890.1	1,020.0	0.0	103.1	10.00	10.00	0.00
	SL & 100' FWL (•							
9,050.0	36.53	90.00	8,926.1	1,020.0	24.5	127.5	10.00	10.00	0.00
9,100.0	41.53	90.00	8,964.9	1,020.0	56.0	158.9	10.00	10.00	0.00
9,150.0	46.53	90.00	9,000.8	1,020.0	90.8	193.4	10.00	10.00	0.00
9,200.0	51.52	90.00	9,033.6	1,020.0	128.5	231.0	10.00	10.00	0.00
9,250.0	56.52	90.00	9,063.0	1,020.0	168.9	271.2	10.00	10.00	0.00
9,300.0	61.52	90.00	9,088.7	1,020.0	211.8	313.8	10.00	10.00	0.00
9,350.0	66.52	90.00	9,110.6	1,020.0	256.7	358.5	10.00	10.00	0.00
9,400.0	71.52	90.00	9,128.5	1,020.0	303.4	405.0	10.00	10.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83

 Site:
 Sig 6/5 W0Ll Fed #1H

 Well:
 Sec 6, T20S, R29E

Wellbore: BHL: 2200' FSL & 100 FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.450.0	70.50	00.00	0.440.0	4 000 0	254.5	450.0	40.00	40.00	0.00
9,450.0 9,500.0		90.00 90.00	9,142.2 9,151.8	1,020.0 1,020.0	351.5 400.5	452.8 501.6	10.00 10.00	10.00 10.00	0.00 0.00
9,550.0		90.00	9,157.0	1,020.0	450.2	551.1	10.00	10.00	0.00
9,580.0 9,580.2		90.00			450.2 480.4			10.00	
		90.00	9,158.0	1,020.0		581.1 583.7	10.00	0.00	0.00 0.00
9,582.8			9,158.0	1,020.0	483.0	583.7	0.00	0.00	0.00
LP: 2200' F	FSL & 583' FWL (S	iec 6)							
9,600.0	89.54	90.00	9,158.2	1,020.0	500.2	600.8	0.00	0.00	0.00
9,700.0	89.54	90.00	9,159.0	1,020.0	600.2	700.3	0.00	0.00	0.00
9,800.0	89.54	90.00	9,159.8	1,020.0	700.2	799.8	0.00	0.00	0.00
9,900.0	89.54	90.00	9,160.6	1,020.0	800.2	899.2	0.00	0.00	0.00
10,000.0	89.54	90.00	9,161.4	1,020.0	900.2	998.7	0.00	0.00	0.00
10,100.0		90.00	9,162.2	1,020.0	1,000.2	1,098.2	0.00	0.00	0.00
10,200.0		90.00	9,163.0	1,020.0	1,100.2	1,197.7	0.00	0.00	0.00
10,300.0		90.00	9,163.8	1,020.0	1,200.2	1,297.2	0.00	0.00	0.00
10,400.0		90.00	9,164.6	1,020.0	1,300.2	1,396.7	0.00	0.00	0.00
10,500.0	89.54	90.00	9,165.4	1,020.0	1,400.2	1,496.1	0.00	0.00	0.00
10,600.0	89.54	90.00	9,166.2	1,020.0	1,500.2	1,595.6	0.00	0.00	0.00
10.700.0		90.00	9,167.0	1,020.0	1,600.2	1,695.1	0.00	0.00	0.00
10.800.0		90.00	9,167.8	1,020.0	1.700.2	1,794.6	0.00	0.00	0.00
10,900.0		90.00	9,168.6	1,020.0	1,800.2	1,894.1	0.00	0.00	0.00
11,000.0		90.00	9,169.4	1,020.0	1,900.2	1,993.6	0.00	0.00	0.00
11,100.0		90.00	9,170.2	1,020.0	2,000.2	2,093.1	0.00	0.00	0.00
11,200.0		90.00	9,171.1	1,020.0	2,100.2	2,192.5	0.00	0.00	0.00
11,300.0		90.00	9,171.9	1,020.0	2,200.2	2,292.0	0.00	0.00	0.00
11,400.0	89.54	90.00	9,172.7	1,020.0	2,300.2	2,391.5	0.00	0.00	0.00
11,500.0	89.54	90.00	9,173.5	1,020.0	2,400.2	2,491.0	0.00	0.00	0.00
11,600.0	89.54	90.00	9,174.3	1,020.0	2,500.2	2,590.5	0.00	0.00	0.00
11,700.0		90.00	9,175.1	1,020.0	2,600.2	2,690.0	0.00	0.00	0.00
11,800.0		90.00	9,175.9	1,020.0	2,700.2	2,789.4	0.00	0.00	0.00
11,900.0		90.00	9,176.7	1,020.0	2,800.1	2,888.9	0.00	0.00	0.00
12,000.0		90.00	9,170.7	1,020.0	2,900.1	2,988.4	0.00	0.00	0.00
12,100.0		90.00	9,178.3	1,020.0	3,000.1	3,087.9	0.00	0.00	0.00
12,200.0		90.00	9,179.1	1,020.0	3,100.1	3,187.4	0.00	0.00	0.00
12,300.0		90.00	9,179.9	1,020.0	3,200.1	3,286.9	0.00	0.00	0.00
12,400.0	89.54	90.00	9,180.7	1,020.0	3,300.1	3,386.3	0.00	0.00	0.00
12,500.0	89.54	90.00	9,181.5	1,020.0	3,400.1	3,485.8	0.00	0.00	0.00
12,600.0	89.54	90.00	9,182.3	1,020.0	3,500.1	3,585.3	0.00	0.00	0.00
12,700.0		90.00	9,182.3	1,020.0	3,600.1	3,684.8	0.00	0.00	0.00
12,700.0		90.00	9,183.9	1,020.0	3,700.1	3,784.3	0.00	0.00	0.00
12,900.0		90.00	9,184.7	1,020.0	3,700.1	3,764.3 3,883.8	0.00	0.00	0.00
13,000.0		90.00	9,185.6	1,020.0	3,900.1	3,983.3	0.00	0.00	0.00
,									
13,100.0		90.00	9,186.4	1,020.0	4,000.1	4,082.7	0.00	0.00	0.00
13,200.0		90.00	9,187.2	1,020.0	4,100.1	4,182.2	0.00	0.00	0.00
13,300.0		90.00	9,188.0	1,020.0	4,200.1	4,281.7	0.00	0.00	0.00
13,400.0		90.00	9,188.8	1,020.0	4,300.1	4,381.2	0.00	0.00	0.00
13,500.0	89.54	90.00	9,189.6	1,020.0	4,400.1	4,480.7	0.00	0.00	0.00
13,600.0	89.54	90.00	9.190.4	1,020.0	4,500.1	4,580.2	0.00	0.00	0.00
13,600.0		90.00	9,190.4 9,191.2		4,500.1 4,600.1	4,580.2 4,679.6		0.00	
,				1,020.0		4,679.6 4,779.1	0.00	0.00	0.00
13,800.0		90.00	9,192.0 9,192.8	1,020.0	4,700.1	4,779.1	0.00		0.00
13,900.0		90.00		1,020.0	4,800.1		0.00	0.00	0.00
14,000.0	89.54	90.00	9,193.6	1,020.0	4,900.1	4,978.1	0.00	0.00	0.00
14,100.0		90.00	9,194.4	1,020.0	5,000.1	5,077.6	0.00	0.00	0.00
14,200.0	89.54	90.00	9,195.2	1,020.0	5,100.1	5,177.1	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

 Project:
 Eddy County, New Mexico NAD 83

 Site:
 Sig 6/5 W0Ll Fed #1H

 Well:
 Sec 6, T20S, R29E

Wellbore: BHL: 2200' FSL & 100 FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,300.0	89.54	90.00	9,196.0	1,020.0	5,200.1	5,276.6	0.00	0.00	0.00
14,400.0	89.54	90.00	9,196.8	1,020.0	5,300.1	5,376.0	0.00	0.00	0.00
14,500.0	89.54	90.00	9,197.6	1,020.0	5,400.1	5,475.5	0.00	0.00	0.00
14,600.0	89.54	90.00	9,198.4	1,020.0	5,500.1	5,575.0	0.00	0.00	0.00
14,700.0	89.54	90.00	9,199.3	1,020.0	5,600.1	5,674.5	0.00	0.00	0.00
14,800.0	89.54	90.00	9,200.1	1,020.0	5,700.1	5,774.0	0.00	0.00	0.00
14,900.0	89.54	90.00	9,200.9	1,020.0	5,800.1	5,873.5	0.00	0.00	0.00
15,000.0	89.54	90.00	9,201.7	1,020.0	5,900.0	5,972.9	0.00	0.00	0.00
15,100.0	89.54	90.00	9,202.5	1,020.0	6,000.0	6,072.4	0.00	0.00	0.00
15,200.0	89.54	90.00	9,203.3	1,020.0	6,100.0	6,171.9	0.00	0.00	0.00
15,300.0	89.54	90.00	9,204.1	1,020.0	6,200.0	6,271.4	0.00	0.00	0.00
15,400.0	89.54	90.00	9,204.9	1,020.0	6,300.0	6,370.9	0.00	0.00	0.00
15,500.0	89.54	90.00	9,205.7	1,020.0	6,400.0	6,470.4	0.00	0.00	0.00
15,600.0	89.54	90.00	9,206.5	1,020.0	6,500.0	6,569.8	0.00	0.00	0.00
15,700.0	89.54	90.00	9,207.3	1,020.0	6,600.0	6,669.3	0.00	0.00	0.00
15,800.0	89.54	90.00	9,208.1	1,020.0	6,700.0	6,768.8	0.00	0.00	0.00
15,900.0	89.54	90.00	9,208.9	1,020.0	6,800.0	6,868.3	0.00	0.00	0.00
16,000.0	89.54	90.00	9,209.7	1,020.0	6,900.0	6,967.8	0.00	0.00	0.00
16,100.0	89.54	90.00	9,210.5	1,020.0	7,000.0	7,067.3	0.00	0.00	0.00
16,200.0	89.54	90.00	9,211.3	1,020.0	7,100.0	7,166.8	0.00	0.00	0.00
16,300.0	89.54	90.00	9,212.1	1,020.0	7,200.0	7,266.2	0.00	0.00	0.00
16,400.0	89.54	90.00	9,212.9	1,020.0	7,300.0	7,365.7	0.00	0.00	0.00
16,500.0	89.54	90.00	9,213.8	1,020.0	7,400.0	7,465.2	0.00	0.00	0.00
16,600.0	89.54	90.00	9,214.6	1,020.0	7,500.0	7,564.7	0.00	0.00	0.00
16,700.0	89.54	90.00	9,215.4	1,020.0	7,600.0	7,664.2	0.00	0.00	0.00
16,800.0	89.54	90.00	9,216.2	1,020.0	7,700.0	7,763.7	0.00	0.00	0.00
16,900.0	89.54	90.00	9,217.0	1,020.0	7,800.0	7,863.1	0.00	0.00	0.00
17,000.0	89.54	90.00	9,217.8	1,020.0	7,900.0	7,962.6	0.00	0.00	0.00
17,100.0	89.54	90.00	9,218.6	1,020.0	8,000.0	8,062.1	0.00	0.00	0.00
17,100.0	89.54	90.00	9,219.4	1,020.0	8,100.0	8,161.6	0.00	0.00	0.00
17,300.0	89.54	90.00	9,220.2	1,020.0	8,200.0	8,261.1	0.00	0.00	0.00
17,400.0	89.54	90.00	9,221.0	1,020.0	8,300.0	8,360.6	0.00	0.00	0.00
17,500.0	89.54	90.00	9,221.8	1,020.0	8,400.0	8,460.1	0.00	0.00	0.00
17,600.0	89.54	90.00	9,222.6	1,020.0	8,500.0	8,559.5	0.00	0.00	0.00
17,700.0	89.54	90.00	9,223.4	1,020.0	8,600.0	8,659.0	0.00	0.00	0.00
17,800.0	89.54	90.00	9,224.2	1,020.0	8,700.0	8,758.5	0.00	0.00	0.00
17,900.0	89.54	90.00	9,225.0	1,020.0	8,800.0	8,858.0	0.00	0.00	0.00
18,000.0	89.54	90.00	9,225.8	1,020.0	8,900.0	8,957.5	0.00	0.00	0.00
18,100.0	89.54	90.00	9,226.6	1,020.0	8,999.9	9,057.0	0.00	0.00	0.00
18,200.0	89.54	90.00	9,227.4	1,020.0	9,099.9	9,156.4	0.00	0.00	0.00
18,300.0	89.54	90.00	9,228.3	1,020.0	9,199.9	9,255.9	0.00	0.00	0.00
18,400.0	89.54	90.00	9,229.1	1,020.0	9,299.9	9,355.4	0.00	0.00	0.00
18,500.0	89.54	90.00	9,229.9	1,020.0	9,399.9	9,454.9	0.00	0.00	0.00
							0.00	0.00	
18,600.0 18,700.0	89.54 89.54	90.00 90.00	9,230.7 9,231.5	1,020.0 1,020.0	9,499.9 9,599.9	9,554.4 9,653.9	0.00	0.00	0.00 0.00
18,700.0	89.54 89.54	90.00	9,231.5	1,020.0	9,599.9	9,053.9	0.00	0.00	0.00
18,900.0	89.54	90.00	9,232.3	1,020.0	9,799.9	9,852.8	0.00	0.00	0.00
19,000.0	89.54	90.00	9,233.9	1,020.0	9,899.9	9,952.3	0.00	0.00	0.00
19,100.0	89.54	90.00	9,234.7	1,020.0	9,999.9	10,051.8	0.00	0.00	0.00
19,137.1	89.54	90.00	9,235.0	1,020.0	10,037.0	10,088.7	0.00	0.00	0.00

Hobbs Database:

Company:

Mewbourne Oil Company Eddy County, New Mexico NAD 83 Project:

Sig 6/5 W0LI Fed #1H Site: Well: Sec 6, T20S, R29E

BHL: 2200' FSL & 100 FEL (Sec 5) Wellbore:

Design: Design #1 Local Co-ordinate Reference:

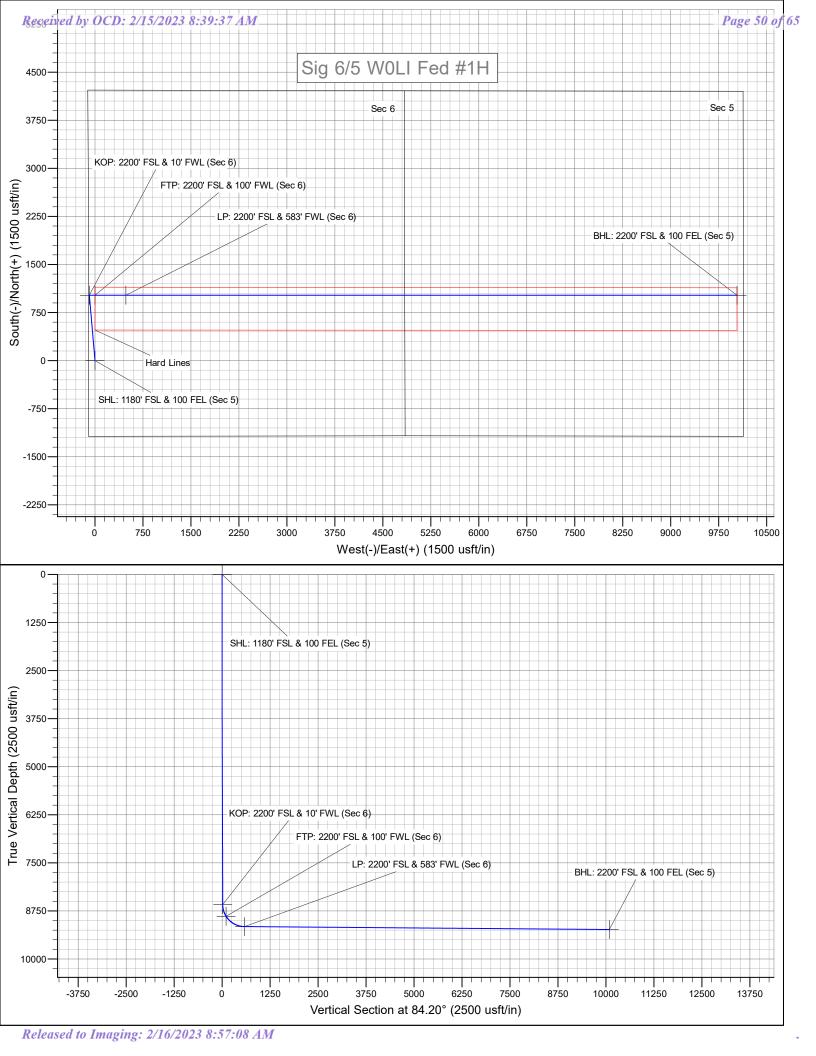
TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Sig 6/5 W0LI Fed #1H

WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 1180' FSL & 100 F - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	581,545.00	606,564.00	32.5985413	-104.1215299
KOP: 2200' FSL & 10' F\ - plan hits target cent - Point	0.00 er	0.00	8,585.0	1,020.0	-88.0	582,565.00	606,476.00	32.6013455	-104.1218091
FTP: 2200' FSL & 100' F - plan hits target cent - Point	0.00 er	0.00	8,890.1	1,020.0	0.0	582,565.00	606,564.00	32.6013450	-104.1215233
LP: 2200' FSL & 583' FV - plan hits target cent - Point	0.00 er	0.00	9,158.0	1,020.0	483.0	582,565.00	607,047.00	32.6013423	-104.1199549
BHL: 2200' FSL & 100 F - plan hits target cent - Point	0.00 er	0.00	9,235.0	1,020.0	10,037.0	582,565.00	616,601.00	32.6012858	-104.0889304



nten	t X	As Dril	led												
API#															
Operator Name: Mewbourne Oil Co.							perty N 6/5 W							Well Number 1H	
Kick (Off Point	(KOP)													
UL L	Section 6	Township 20S	Range 29E	Lot	Feet 2200		From N	I/S	Feet 10		Fron	n E/W	County		
Latitu 32.6	ode 30134	55			Longitu -104		18091	1					NAD 83		
First 7	Γake Poir	nt (FTP)													
UL 	Section 6	Township 20S	Range 29E	Lot	Feet 2200		From N	I/S	Feet 100		Fron W	n E/W	County EDDY		
Latitu 32.6	^{ide} 30134	50			Longitu -104.		15233	3					NAD 83		
Last T	ake Poin	t (LTP)													
UL 	Section 5	Township 20S	Range 29E	Lot	Feet 2200	Fro S	m N/S	Feet 100		From E	E/W	Count			
Latitu 32.6	^{ide} 60128	58			Longitu -104.	.0889304 NAD 83									
		e defining v infill well?		e Hori N	zontal Sp	oacin _i	g Unit?		<u>′</u>]					
	l is yes p ng Unit.	lease prov	ide API if a	availal	ole, Oper	rator	Name a	and v	vell n	umbei	for I	Definiı	ng well fo	or Horizontal	
API#															
Ope	rator Nai	me:	1			Pro	perty N	ame:						Well Number	
														V7.0C/20/201	

KZ 06/29/2018

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | MEWBOURNE OIL COMPANY

LEASE NO.: | NMNM0144698

WELL NAME & NO.: SIG 6-5 WOLI FED 1H

SURFACE HOLE FOOTAGE: 1180'/S & 100'/W BOTTOM HOLE FOOTAGE 2200'/S & 100'/E

LOCATION: SECTION 6, T20S, R29E, NMP **COUNTY:** Eddy County, New Mexico

COA

H2S	Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	O Medium	• High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	✓ 4 String Area		□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	□ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Wildcat pool. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The **20** inch surface casing shall be set at approximately **350** 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 **8** hours 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 13-3/8 inch first intermediate casing shall be set at approximately 975 feet. The minimum required fill of cement behind the 13-3/8 inch first intermediate casing 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.
 Excess cement calculates to 12%, additional cement might be required.
 - ❖ In <u>High Cave/Karst Areas</u> 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 <u>Capitan Reef Areas</u> 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.

3. The **9-5/8** inch second intermediate casing shall be set at approximately **3,000** feet. The minimum required fill of cement behind the **9-5/8** inch second intermediate casing 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 -23%, 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, contact the appropriate BLM office.

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 2%, additional cement might be required.

4. The minimum required fill of cement behind the 7 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **50 feet** on top of Capitan Reef top. 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 -2%, 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 should tie-back at least **50 feet** on top of Capitan Reef top. 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 22%, 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.
 Excess cement calculates to 23%, additional cement might be
 - Excess cement calculates to 23%, additional cement might be required.

C. 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 **5000** (**5M**) 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.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

- lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

OTA01242023

<u>Hydrogen Sulfide Drilling Operations Plan</u> **Mewbourne Oil Company**

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

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

1. Well Control Equipment

- A. Choke manifold with minimum of one adjustable choke/remote choke.
- B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- C. Auxiliary equipment including annular type blowout preventer.
- 2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

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

3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

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

4. Visual Warning Systems

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

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Received by OCD: 2/15/2023 8:39:37 AM

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 W0LI FED Well Number: 1H

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 containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 W0LI FED Well Number: 1H

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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

SIG6_5W0LIFed1H_wellsitelayout_20211103093606.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: SIG 6/5 LI & MP FED wells

Multiple Well Pad Number: 5

Recontouring

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 4.4 1.13 (acres): 3.27

Road proposed disturbance (acres): Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

0.515

Powerline proposed disturbance

Powerline proposed disturbance Powerline interim reclamation (acres): Powerline long term disturbance (acres): 0 (acres): 0

Pipeline proposed disturbance Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 1.05

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0 Other long term disturbance (acres): 0

Total proposed disturbance: 5.965 Total interim reclamation: 1.13 Total long term disturbance: 3.27

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

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 186396

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	186396
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a administrative order for non-standard location prior to placing the well on production	2/16/2023
kpickford	The pool assignment for this well has been corrected on the C-102. Subsequent sundries must reflect the correct pool.	2/16/2023
kpickford	Notify OCD 24 hours prior to casing & cement	2/16/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/16/2023
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	2/16/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	2/16/2023
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	2/16/2023