Form 3160-3 (June 2015)				OMB No.	PPROVED 1004-0137
UNITED STATES				-	ary 31, 2018
DEPARTMENT OF THE IN BUREAU OF LAND MANA	5. Lease Serial No. NMNM144698				
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or	Tribe Name
1a. Type of work: Image: Constraint of the second seco	EENTER			7. If Unit or CA Agree	ement, Name and No.
1b. Type of Well: Vil Gas Well Ot	her			8. Lease Name and W	
1c. Type of Completion: ☐ Hydraulic Fracturing ✓ Sin	ngle Zone	Multiple Zone		SIG 6/5 B3LI FED	ell No.
				1H.	
2. Name of Operator MEWBOURNE OIL COMPANY				9. API Well No. 30-	015-53746
3a. Address P O BOX 5270, HOBBS, NM 88241	3b. Phone N (575) 393-5	o. (include area code) 905		10. Field and Pool, or 2ND BONE SPRING	
4. Location of Well (Report location clearly and in accordance w	2	1 ,			Blk. and Survey or Area
At surface SWSW / 1140 FSL / 100 FWL / LAT 32.5984				SEC 6/T20S/R29E/N	IMP
At proposed prod. zone NESE / 1340 FSL / 100 FEL / LA		13 / LONG -104.088	9285		
 Distance in miles and direction from nearest town or post office miles 	ce*			12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac		17. Spacir 320.0	ng Unit dedicated to this	s well
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed 9113 feet /		20. BLM/ =ED:	BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3283 feet	22. Approxim 01/03/2022	mate date work will st	art*	23. Estimated duration 60 days	1
	24. Attac	hments			
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1,	and the H	Iydraulic Fracturing rul	e per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 	Ň	4. Bond to cover the Item 20 above).	operation	s unless covered by an e	existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		5. Operator certificat6. Such other site specialBLM.		mation and/or plans as m	nay be requested by the
25. Signature		(Printed/Typed)	(EZE) 00		Date
(Electronic Submission) Title	BRAD	LEY BISHOP / Ph:	(375) 39	10-0900 1	1/04/2022
Regulatory					
Approved by (Signature)		(Printed/Typed)			Date
(Electronic Submission)		LAYTON / Ph: (575	5) 234-59	959 0	04/25/2023
Title Assistant Field Manager Lands & Minerals	Office Carlsb	ad Field Office			
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal o	or equitable title to tho	se rights i	in the subject lease whi	ch would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					y department or agency

	Accep	ted for record – NMOCD
WITH CONDITIONS	JRH	
APPROVED WITH		*(Instructions on page 2)

(Continued on page 2)

District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Form C-102 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 Energy, Minerals & Natural Resources Department Revised August 1, 2011 OIL CONSERVATION DIVISION Submit one copy to appropriate District Office 1220 South St. Francis Dr. District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 Santa Fe, NM 87505 AMENDED REPORT District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code		³ Pool Name							
30	-015-53	3746		65010)	WINCHESTER; BONE SPRING							
⁴ Property Co		⁵ Property Name ⁶ Well Number SIG 6/5 B3LI FED 1H											
33396	57				SIG 6/5 B	JLI FED				1H			
7 OGRID	NO.				8 Operator N					Elevation			
1474	4			MEWB	OURNE OI	L COMPANY				3283'			
	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		1140	SOUTH	100	WE	ST	EDDY			
			11]	Bottom H	ole Location	If Different Fre	om Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County			
Ι	5	20S	29E		ST	EDDY							
12 Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	Code 15 C	Order No.								
¹² Dedicated Acre 320	s 13 Joint	or Infill 14	Consolidation	Code 15 C	Order No.								

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.

	16			17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete</i>				
	<u>GEODETIC DATA</u> NAD 83 GRID – NM EAST	<u>CORNER DATA</u> NAD 83 GRID – NM EAST	F: FOUND BRASS CAP "1916"	to the best of my knowledge and belief, and that this organization either				
	<u>SURFACE LOCATION</u> N: 581505.3 – E: 606565.0	A: FOUND BRASS CAP "1916" N 580365.5 – E 606463.1	N 583011.3 – E 616701.2 G: FOUND BRASS CAP "1916"	owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this				
	LAT: 32.5984323' N LONG: 104.1215270' W	B: FOUND BRASS CAP "1942" N 583023.8 – E 606467.5	N 580365.0 – E 616706.0 H: FOUND BRASS CAP "1916"	location pursuant to a contract with an owner of such a mineral or working				
	<u>BOTTOM HOLE</u> N: 581704.8 – E: 616603.6	C: FOUND BRASS CAP "1916" N 585767.2 – E 606452.8	N 580369.0 – E 614058.1 I: FOUND BRASS CAP "1916"	interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.				
	LAT: 32.5989213° N LONG: 104.0889285° W	D: FOUND BRASS CAP "1916" N 585757.6 – E 611400.7	N 580372.5 – E 611413.2 J: FOUND BRASS CAP "1916"	Signature Date				
		E: FOUND BRASS CAP "1916"	N 580368.4 - E 608772.1	BRADLEY BISHOP Printed Name				
		N 585749.7 - E 616696.7	K: FOUND BRASS CAP "1916" N 583013.9 – E 611406.8	BBISHOP@MEWBOURNE.COM				
	S 89*53'19" E 4949.	11' D	S 89 ' 54'53" E 5297.22'	E-mail Address				
0.11		, 4 ,		^(E) ¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this</i>				
2744.	31.79 AC. 42.73 AC. 42.87		LOT 3 LOT 2 LOT 1 43.07 AC. 43.07 AC. 43.06 AC.					
26" W	<u>+</u>	— — — 		made by me or under my supervision, and that the same is true and correct to the best of my belief.				
00°18'26	LOT 5	0.00		09/20/2021 Date of Survey				
≥ ®	FTP 1340' FSL & 10			Signature and Seal of Profesonal Survey				
58.97	LOT 6 29.91 AC.	642.07	N 00°06'15" W 2646.94'					
" E 26	6400	JECT AREA N PRODUC	TION AREA B.H.					
.05'45	S.L.	12,80.		19680 Certificate Number				
N 00	111	00 N		V G				
A	S 89*55'36" W 2309.57'() S 89*5	4'42" W 2641.74' 🕕 N 89*55'29	"W 2645.56'(H) N 89•54'45"W 2648.46	' Job No.: LS21091021				

Released to Imaging: 4/28/2023 10:19:30 AM

Pa

Page 5							
	State of New MexicoSubmit ElectronicallyEnergy, Minerals and Natural Resources DepartmentVia E-permittingOil Conservation Division1220 South St. Francis Dr. Santa Fe, NM 87505						
	N	ATURAL GA	AS MANA	GEMENT P	LAN		
This Natural Gas Manag	gement Plan m	ust be submitted wi	ith each Applica	tion for Permit to I	Drill (A	PD) for a new o	r recompleted well.
			1 – Plan D fective May 25				
I. Operator:Mev	vbourne C	Dil Co.	OGRID:	14744			2/22
II. Type: X Original	□ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗀 19.15.27.9.D((6)(b) N	NMAC 🗆 Other.	
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					wells p	roposed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D F	Anticipated Produced Water BBL/D
Sig 6/5 B3Ll Fed Com 1H		G 6 20\$ 29E	1140' FSL x 100' F	w∟ 1500	2	500	6000
IV. Central Delivery P			3LI Fed Com 1H				27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					ell or s	set of wells prop	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date
Sig 6/5 B3LI Fed Com 1H		7/2/22	8/2/22	9/2/22		9/17/22	9/17/22
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.							
VIII. Best Managemer during active and planne			te description of	f Operator's best n	nanage	ment practices to	o minimize venting

Page 6

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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.

X 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

XI. Map. \Box 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 \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

XIV. Confidentiality: \Box 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.

Page 7

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

 \Box 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. \Box 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.

Page 8

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:	5/2/22						
Phone:	575-393-5905						
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)						
Approved By:							
Title:							
Approval Date:							
Conditions of A	pproval:						

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.



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

Submission Date: 11/04/2022

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 B3LI FED

Well Type: OIL WELL

APD ID: 10400088976

Well Number: 1H Well Work Type: Drill Highlighted data reflects the most recent changes

04/26/2023

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9464653	UNKNOWN		28	28	OTHER : Top soil	NONE	N
9464654	TOP SALT	2827	456	456	SALT	NONE	N
9464661	BOTTOM SALT	2475	808	808	SALT	NONE	N
9464662	464662 YATES		1007	1007	SANDSTONE	NATURAL GAS, OIL	N
9467969	CAPITAN REEF	1833	1450	1450	DOLOMITE, LIMESTONE	USEABLE WATER	N
9464659	DELAWARE	132	3151	3151	LIMESTONE	NATURAL GAS, OIL	N
9464652	BONE SPRINGS	-1914	5197	5197	LIMESTONE, SHALE	NATURAL GAS, OIL	N
9464655	BONE SPRING 1ST	-3559	6842	6842	SANDSTONE	NATURAL GAS, OIL	N
9464656	BONE SPRING 2ND	-4151	7434	7434	SANDSTONE	NATURAL GAS, OIL	N
9467970	BONE SPRING 3RD	-5376	8659	8659	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 18917

Equipment: Annular, Pipe Rams, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead is being used. See attached schematic

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

(inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

Sig_6_5_B3LI_Fed_1H_5M_BOPE_Choke_Diagram_20221103163043.pdf

Sig_6_5_B3LI_Fed_1H_Flex_Line_Specs_20221103163043.pdf

 $Sig_6_5_B3LI_Fed_1H_Flex_Line_Specs_API_16C_20221103163043.pdf$

BOP Diagram Attachment:

Sig_6_5_B3LI_Fed_1H_5M_BOPE_Schematic_20221103163054.pdf

Sig_6_5_B3LI_Fed_1H_Multi_Bowl_WH_20221103163054.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	3.25	13.1 7	DRY	42.6 1	DRY	44.9 8
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	1050	0	1050	3283	2233	1050	H-40	48	ST&C	1.41	3.17	DRY	6.39	DRY	10.7 3
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3075	0	3075	3624	208	3075	J-55	36	LT&C	1.4	2.45	DRY	4.09	DRY	5.09
4	PRODUCTI ON	8.75	7.0	NEW	API	N	0	8462	0	8457	3635	-5174	8462	P- 110	29	LT&C	1.77	2.26	DRY	3.15	DRY	4.23
5		6.12 5	4.5	NEW	API	N	8262	18917	8257	9113	-4974	-5830	10655	P- 110	13.5	LT&C	2.25	2.62	DRY	2.35	DRY	2.93

Casing Attachments

Received by OCD: 4/26/2023 11:40:37 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

Page 11 of 58

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Sig_6_5_B3LI_Fed_1H_Csg_Assumptions_20221103163138.doc
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Black_Sheep_4_B2MD_Fed_Com_2H_Surface_Csg_Tapered_String_20181018150949.pdf
Casing Design Assumptions and Worksheet(s):
Sig_6_5_B3LI_Fed_1H_Csg_Assumptions_20221103163205.doc
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Black_Sheep_4_B2MD_Fed_Com_2H_Intermediate_Csg_Tapered_String_20181018151340.pdf
Casing Design Assumptions and Worksheet(s):
Sig_6_5_B3LI_Fed_1H_Csg_Assumptions_20221103163227.doc

Received by OCD: 4/26/2023 11:40:37 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

Casing Attachments

asing Attachments								
Casing ID: 4	String	PRODUCTION						
Inspection Document:								
Spec Document:								
Tapered String Spec:								
Casing Design Assumptions and Worksheet(s):								
Sig_6_5_B3LI_Fe	d_1H_Csg_A	Assumptions_20221103163252.doc						
Casing ID: 5	String	LINER						
Inspection Document:	09							
inspection Document.								
Spec Document:								
Tapered String Spec:								
Casing Design Assum	ptions and V	Vorksheet(s):						

Sig_6_5_B3LI_Fed_1H_Csg_Assumptions_20221103163332.doc

000000			•								
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	375	2.12	12.5	795	100	Class C	Class C + Salt + Gel + Extender + LCM
SURFACE	Tail		261	350	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	1100	0	536	120	2.12	12.5	254	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		536	1100	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead		0	786	375	2.12	12.5	795	25	Class C	Salt, Gel, Extender, LCM

Section 4 - Cement

Well Name: SIG 6/5 B3LI 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		786	1050	200	1.34	14.8	268	25	Class C	Retarder
INTERMEDIATE	Lead	1100	1100	2394	240	2.12	12.5	509	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		2394	3075	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	3125	1400	2477	105	2.12	12.5	223	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		2477	3125	100	1.18	15.6	118	25	Class C	Retarder
PRODUCTION	Lead	3125	3125	5975	255	2.12	12.5	541	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5975	8462	400	1.18	15.6	472	25	Class C	Retarder
LINER	Lead		8262	1891 7	425	2.97	11.2	1262	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: PVT/Visual Monitoring

Circulating Medium Table

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
3075	8462	WATER-BASED MUD	8.6	9.5							
0	350	SPUD MUD	8.6	8.8							
350	1050	SALT SATURATED	10	10							
1050	3075	WATER-BASED MUD	8.6	9							
8462	1891 7	OIL-BASED MUD	8.6	10							

Section 6 - Test, Logging, Coring

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

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

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

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

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4739

Anticipated Surface Pressure: 2734

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_B3LI_Fed_1H_H2S_Plan_20221103164213.pdf

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

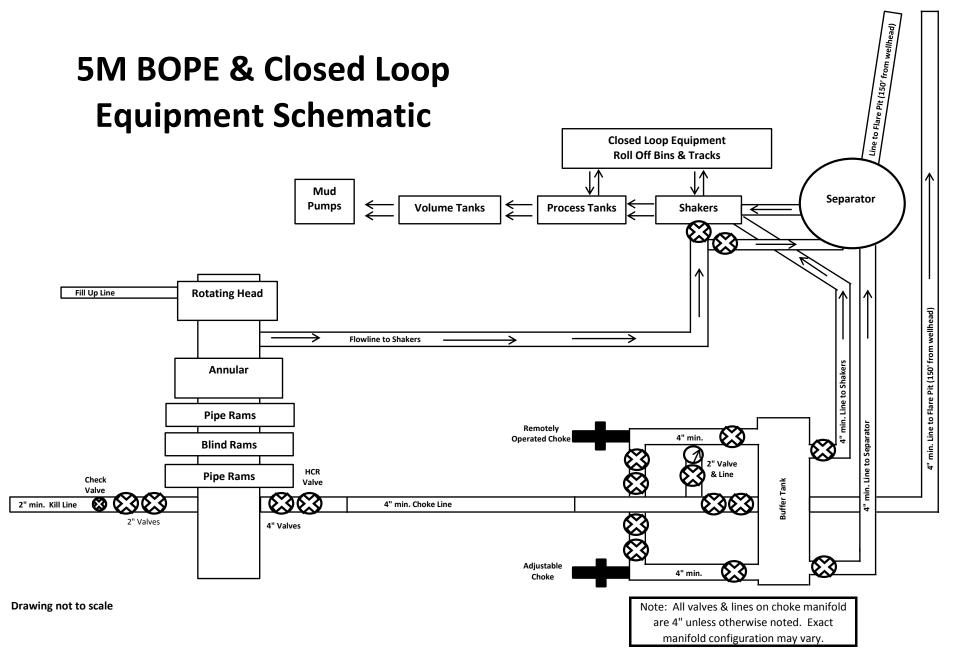
Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

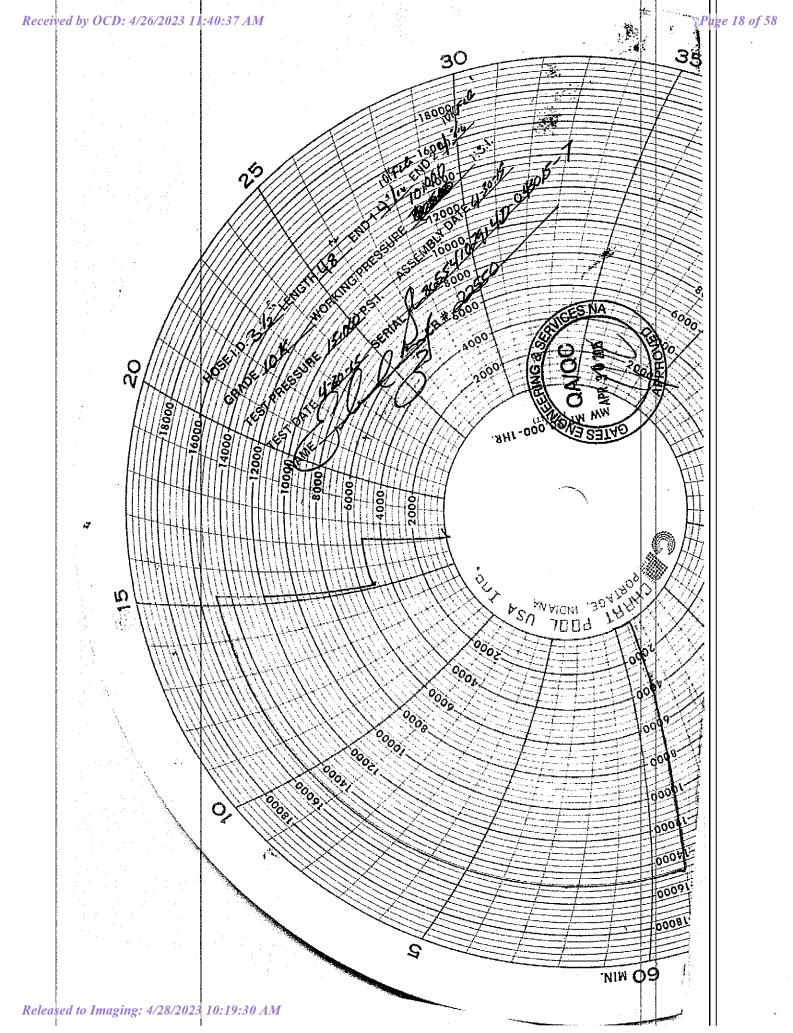
Sig_6_5_B3LI_Fed_1H_Dir_Plan_20221103164240.pdf Sig_6_5_B3LI_Fed_1H_Dir_Plot_20221103164240.pdf Other proposed operations facets description: Other proposed operations facets attachment:

Other Variance attachment:

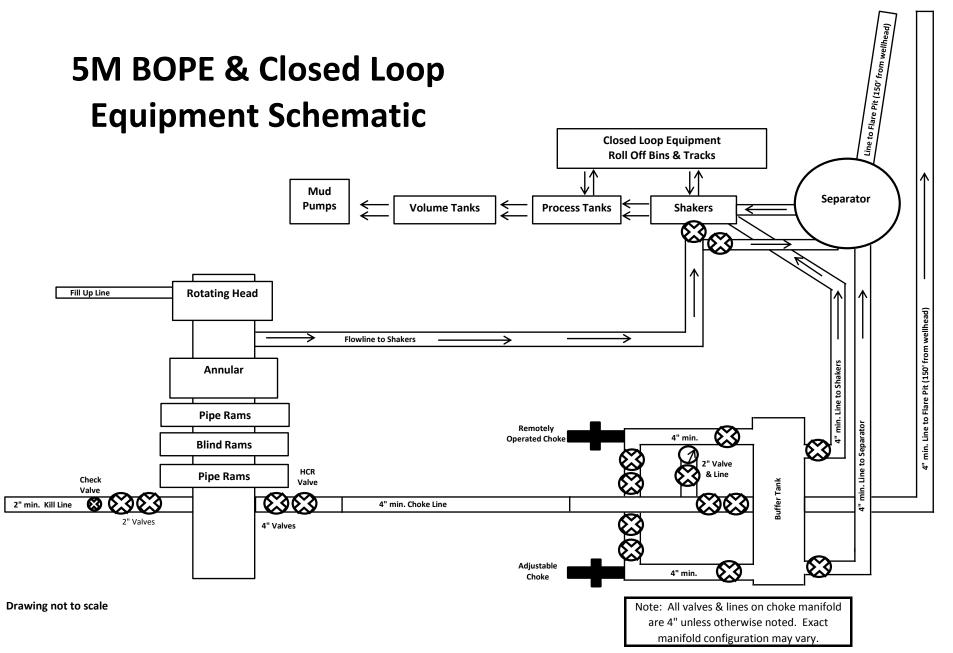
Page 16 of 58



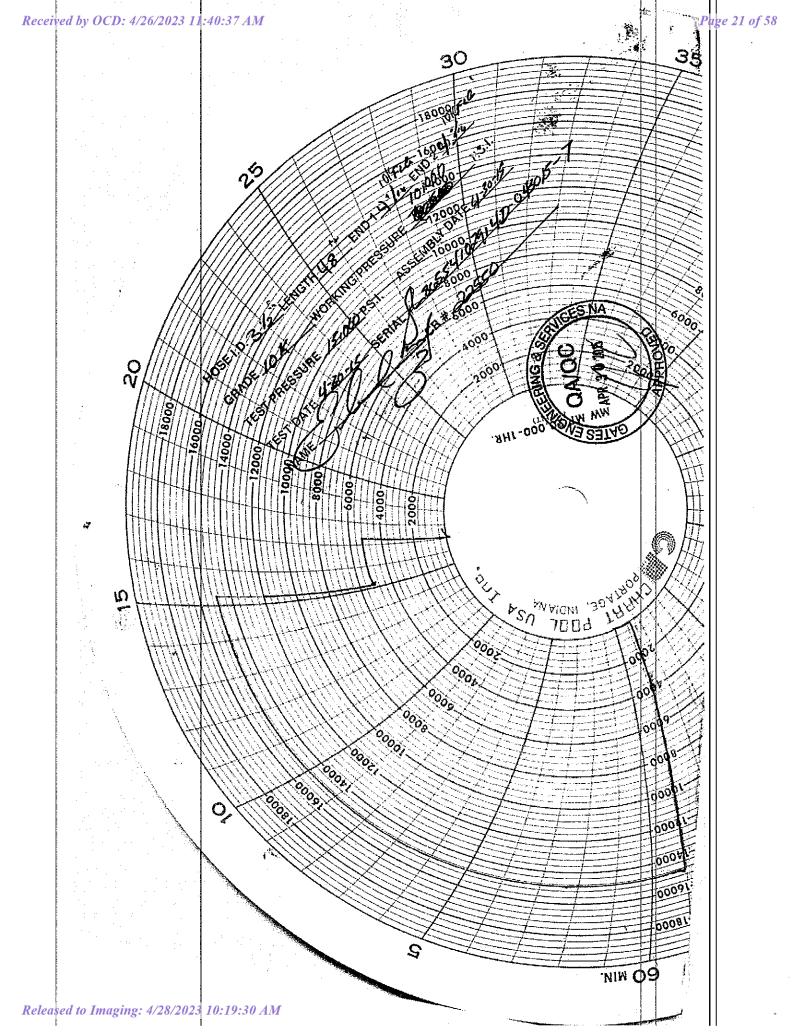
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GATES E & S NOR 134 44TH STREET CORPUS CHRISTI	TH AMERICA,	, INC.		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.co</i> WEB: www.gates.com	m
10K C	EMENTIN	IG ASSEMBL	Y PRESSURE	TEST CERTIFICATE	
		DISTRIBUTING	Test Date:	4/30/2015	
Customer : Customer Ref. :		4060578	Hose Serial No.:	D-043015-7	
Invoice No. :		500506	Created By:	JUSTIN CROPPER	
Product Description:			10K3.548.0CK4.1/1610KFL0	SE/E LE	
			End Fitting 2 :	4 1/16 10K FLG	
End Fitting 1 :	41/	10 IUN FLG		4 1/10 10/(100	
End Fitting 1 : Gates Part No. :		/16 10K FLG 773-6290	Assembly Code :	L36554102914D-043015-7	
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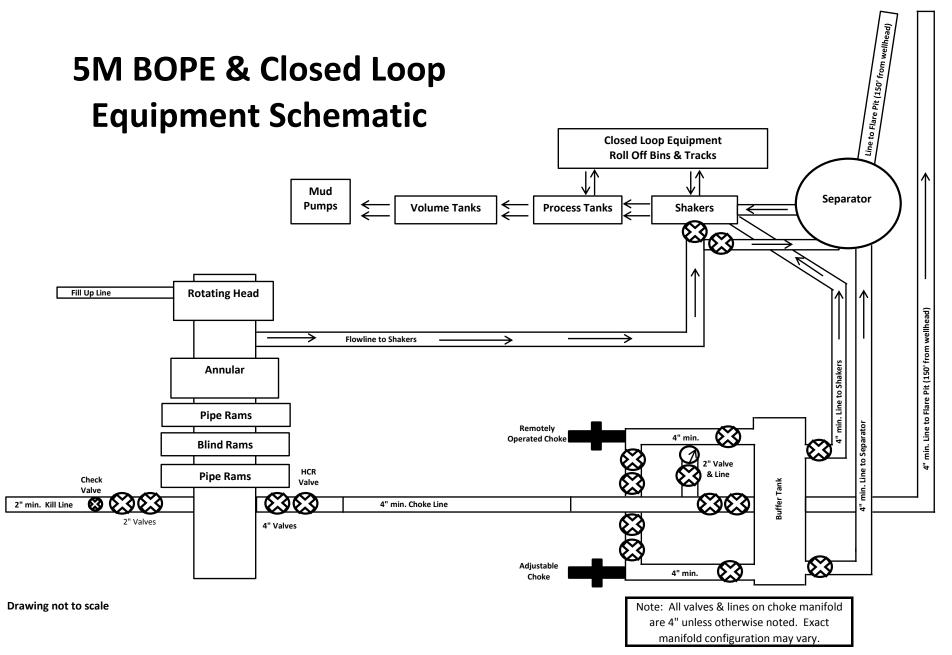
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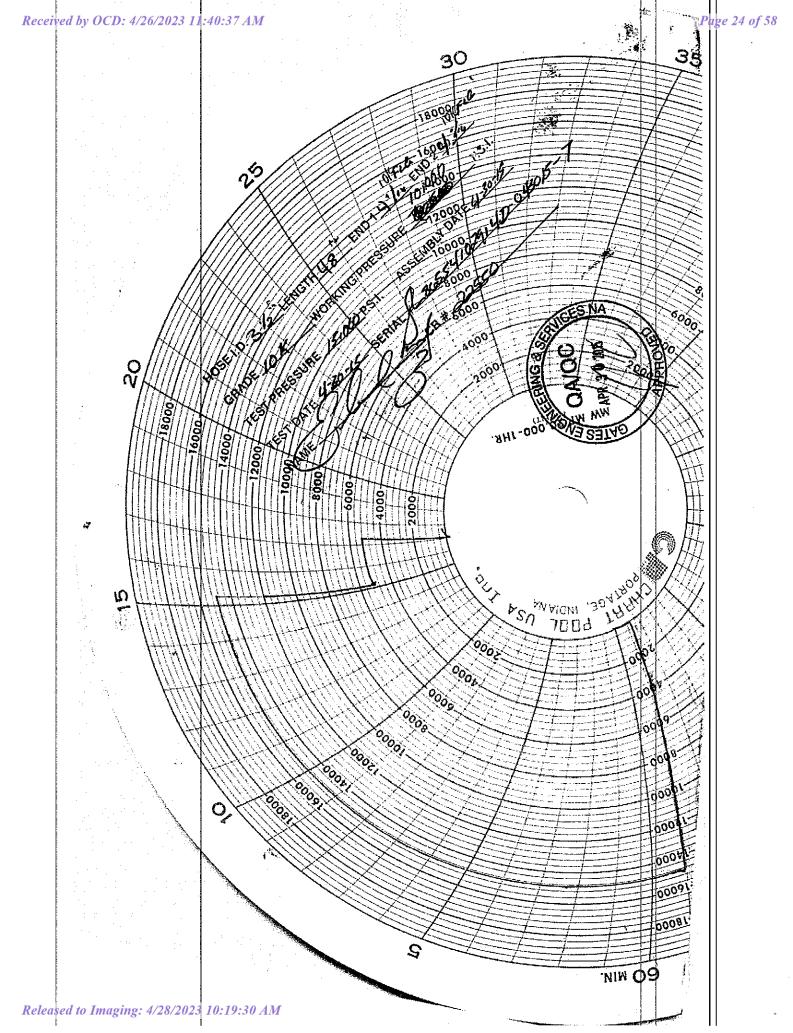
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10K C	CEMENTING ASSEMB	LY PRESSURE T	TEST CERTIFICATE	
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. : Invoice No. :	4060578 500506	Hose Serial No.: Created By:	D-043015-7 JUSTIN CROPPER	
Product Description:		10K3.548.0CK4.1/1610KFLG	5E/E LE	
	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	
End Fitting 1 : Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7	
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI	
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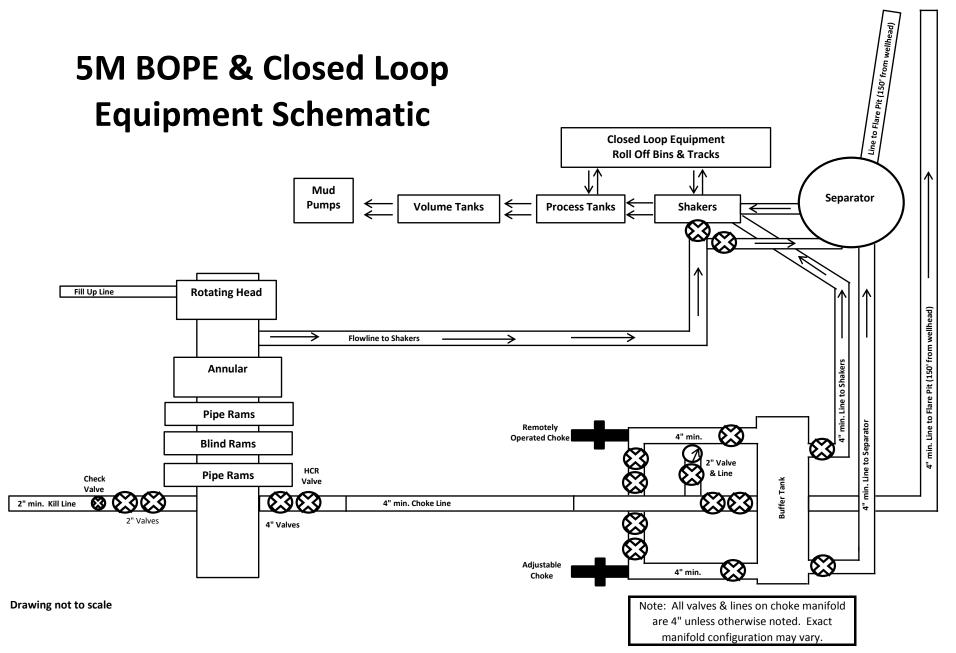
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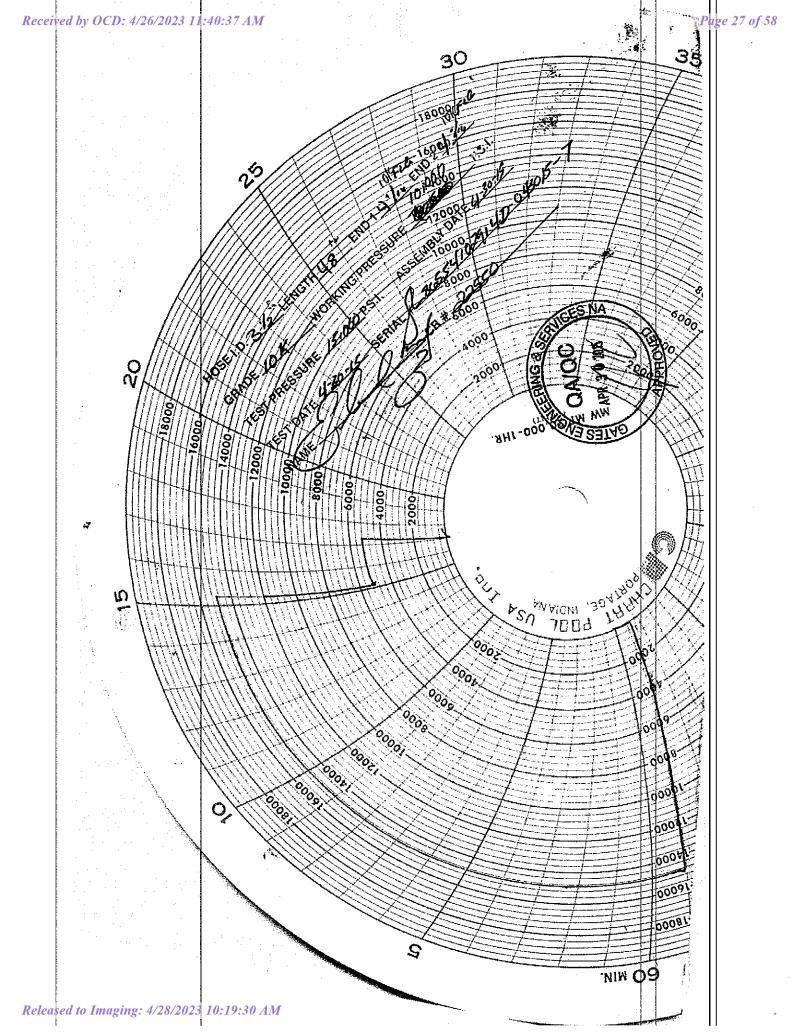
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GATES E & S NOR 134 44TH STREET CORPUS CHRISTI	TH AMERICA, ING			PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.c</i>	om
F	-		:	WEB: www.gates.com	
10K C		ASSEMBLY P	PRESSURE T	EST CERTIFICATE	
Customer :	AUSTIN DIST	RIBUTING	Test Date:	4/30/2015	
Customer Ref. :	40605		Hose Serial No.:	D-043015-7	
Invoice No. :	50050	ю	Created By:	JUSTIN CROPPER	
			F40 0004 4 14 F4000	C/24 C	
Product Description:		10K3.	548.0CK4.1/1610KFLG		
		k flg	End Fitting 2 :	4 1/16 10K FLG	
End Fitting 1 :	4 1/16 10				
Gates Part No. :	4773-6	290	Assembly Code :	L36554102914D-043015-7	
Gates Part No. : Working Pressure : Gates E & S the Gates Oi	4773-6 10,000 North America, Ifield Roughneck /	PSI Inc. certifies that Agreement/Specif	Test Pressure : t the following ho	15,000 PSI ose assembly has been tested to ents and passed the 15 minute	
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GATES E & S NORT 134 44TH STREET CORPUS CHRISTI	TH AMERICA, INC.		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.com</i> WEB: www.gates.com	3
10K C	EMENTING ASSEMB	BLY PRESSURE T	EST CERTIFICATE	
	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer : Customer Ref. :	4060578	Hose Serial No.:	D-043015-7	
Invoice No. :	500506	Created By:	JUSTIN CROPPER	
Product Description:		10K3.548.0CK4.1/1610KFL0	je/e le	
Fred Fibbles 1 -	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	
End Fitting 1 : Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7	
COLCO LOLLIAN Y		Test Pressure :	15,000 PSI	
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Gates E & S I the Gates Oil hydrostatic test to 15,000 psi	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose builts the working pressure Producton:	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	ose assembly has been tested to nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	
Gates E & S I the Gates Oil hydrostatic tesi to 15,000 psi Quality Manager : Date :	North America, Inc. certifi Ifield Roughneck Agreement, t per API Spec 7K/Q1, Fifth I in accordance with this proo minimum of 2.5 times	es that the following h /Specification requirem Edition, June 2010, Te duct number. Hose but the working pressure Produciton: Date :	PRODUCTION	





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

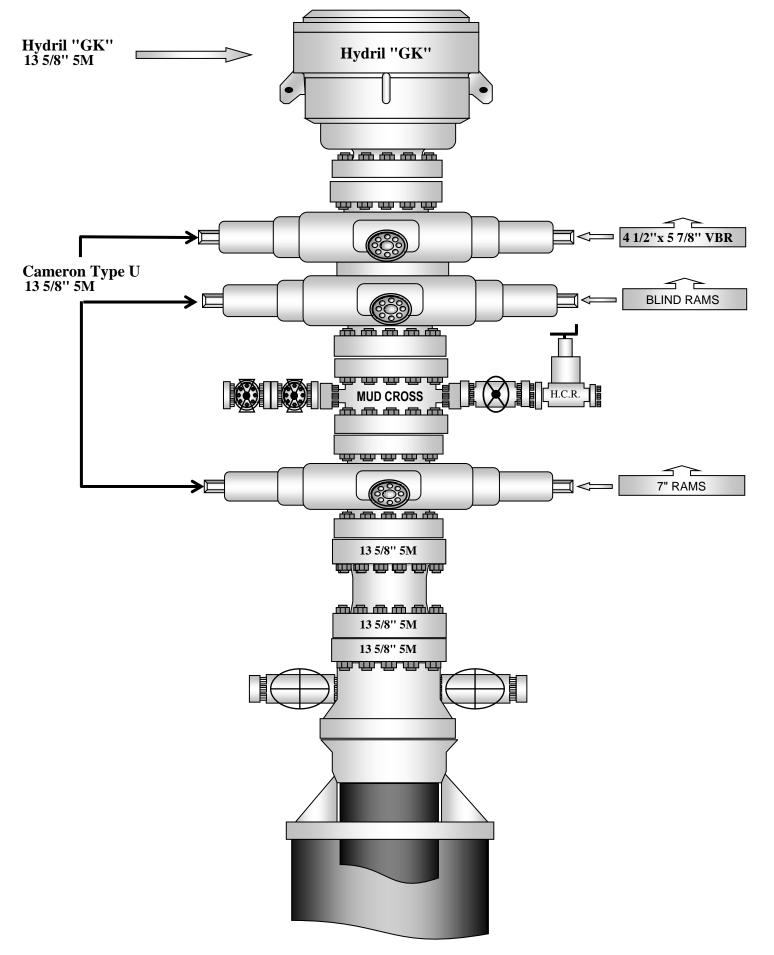
10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

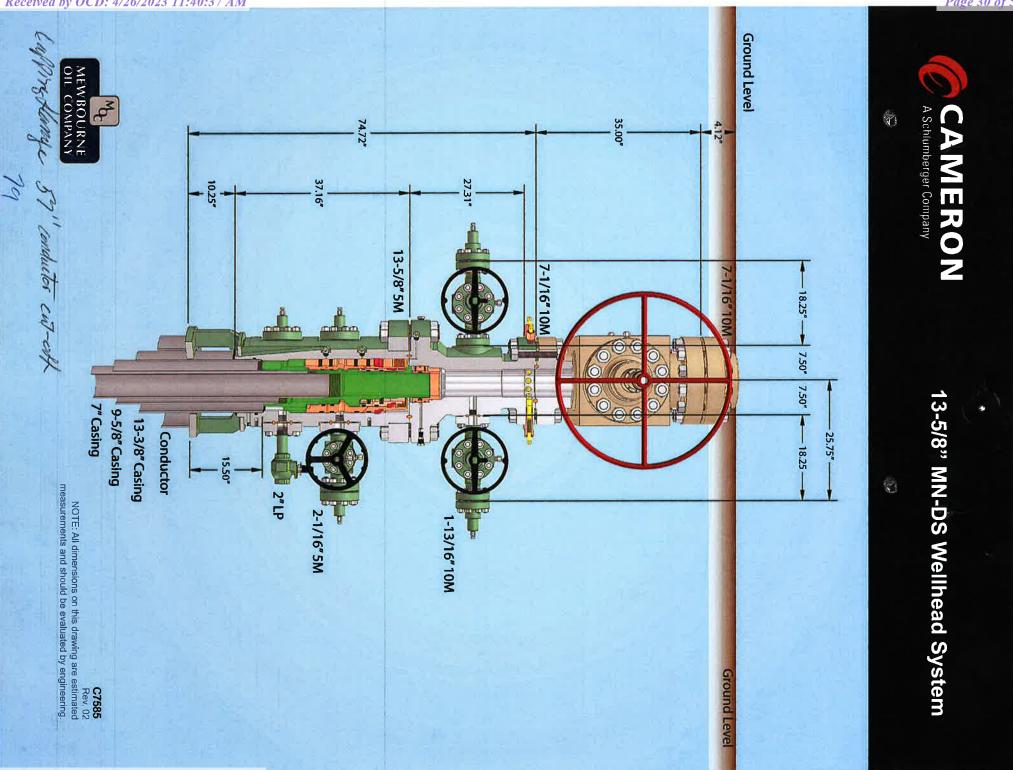
Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018		
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10		
Invoice No.:	511956	Created By:	Moosa Naqvi		
Desident Designations	10KE	F3.035.0CK41/1610KFLGFXDxFLT 1/E			
Product Description:	auro .				
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange		
		_			

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.

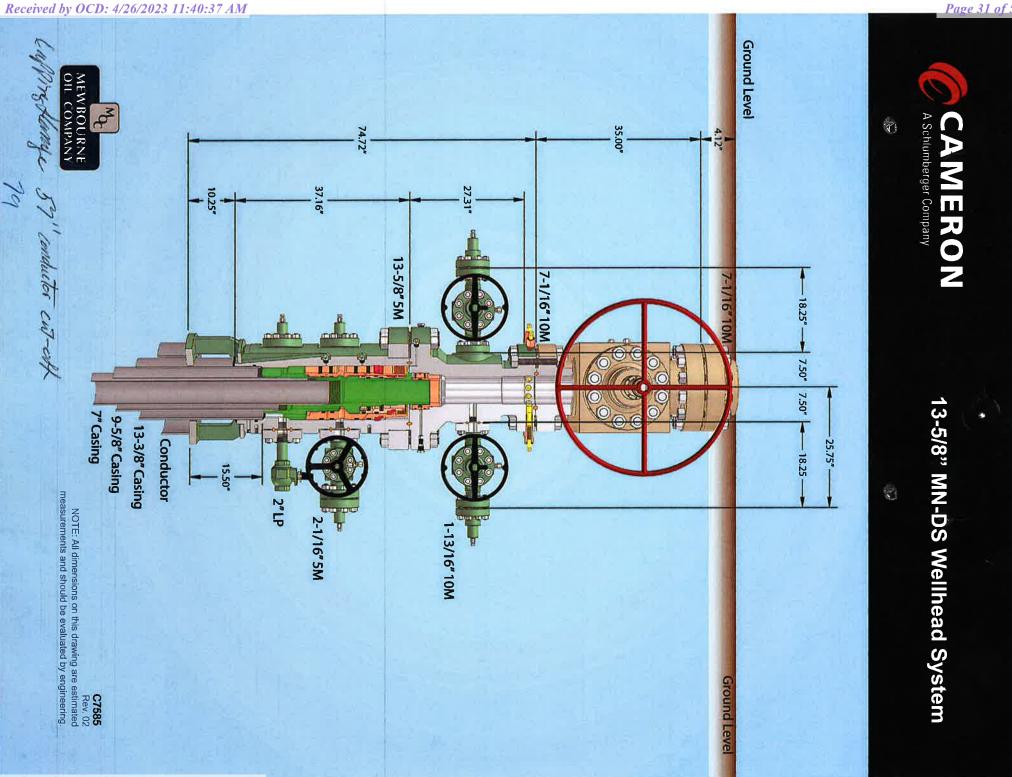
Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	1 1000	Signature :	THE T
	Mossa Nym	/	
	-lee		Form PTC - 01 Rev.0 2
			- Mile

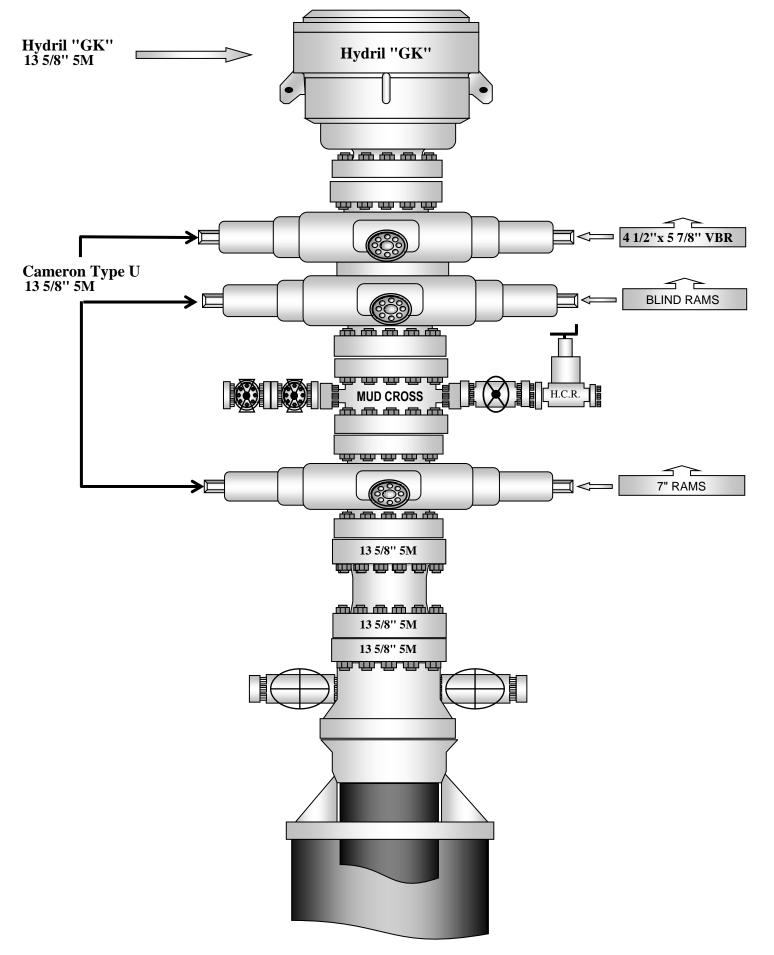


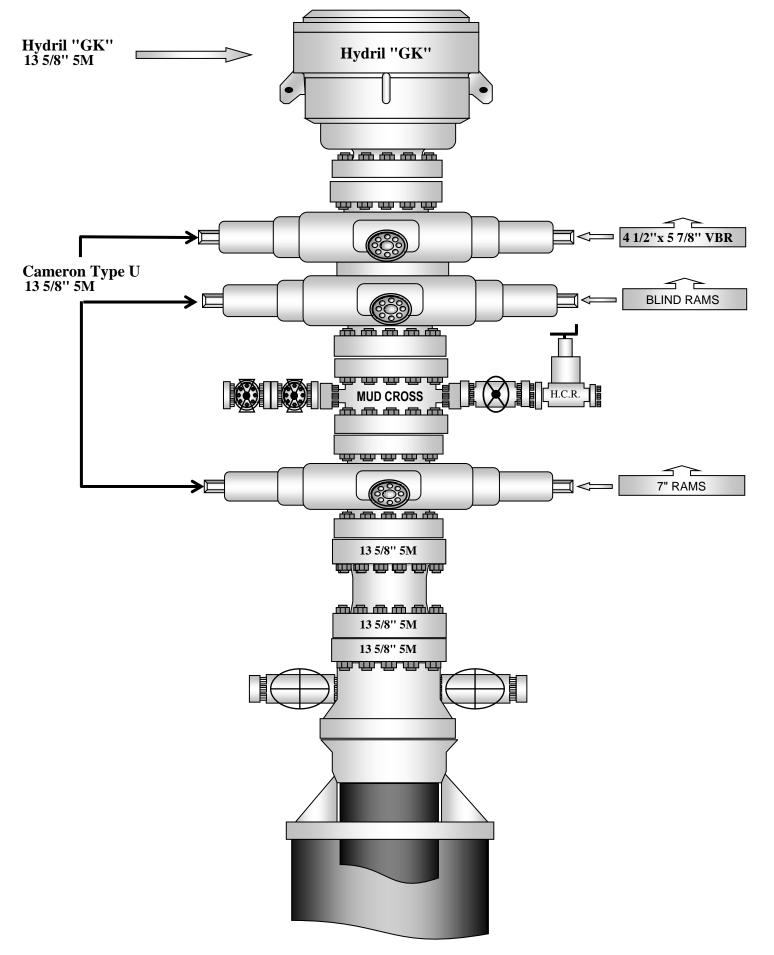


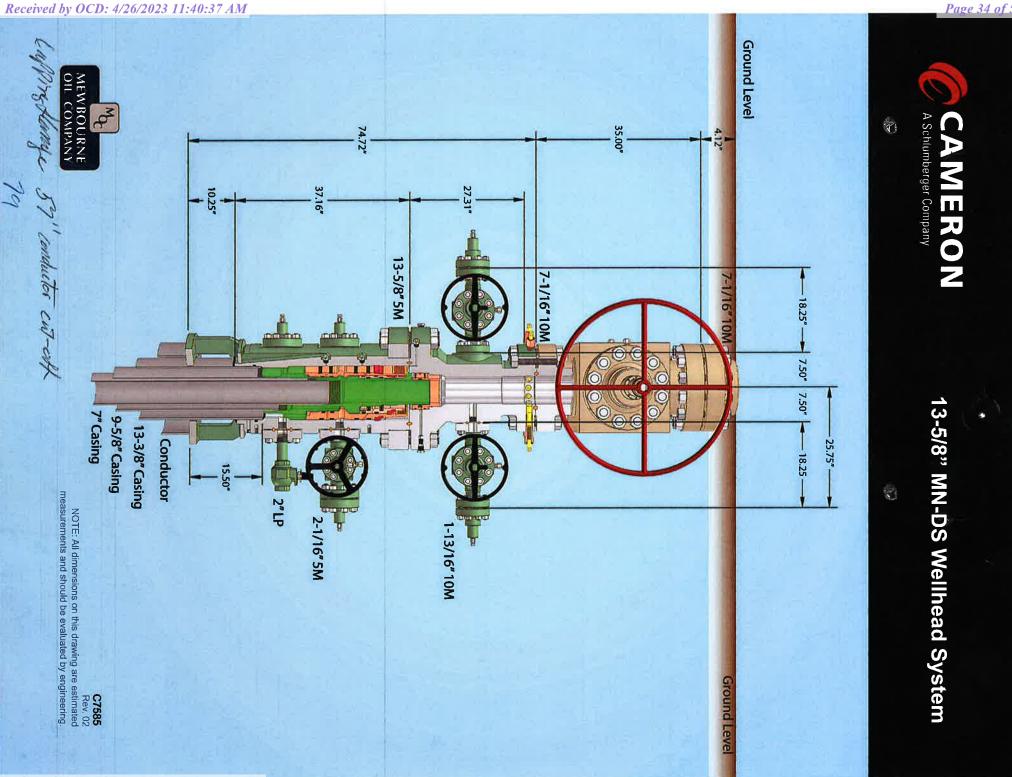


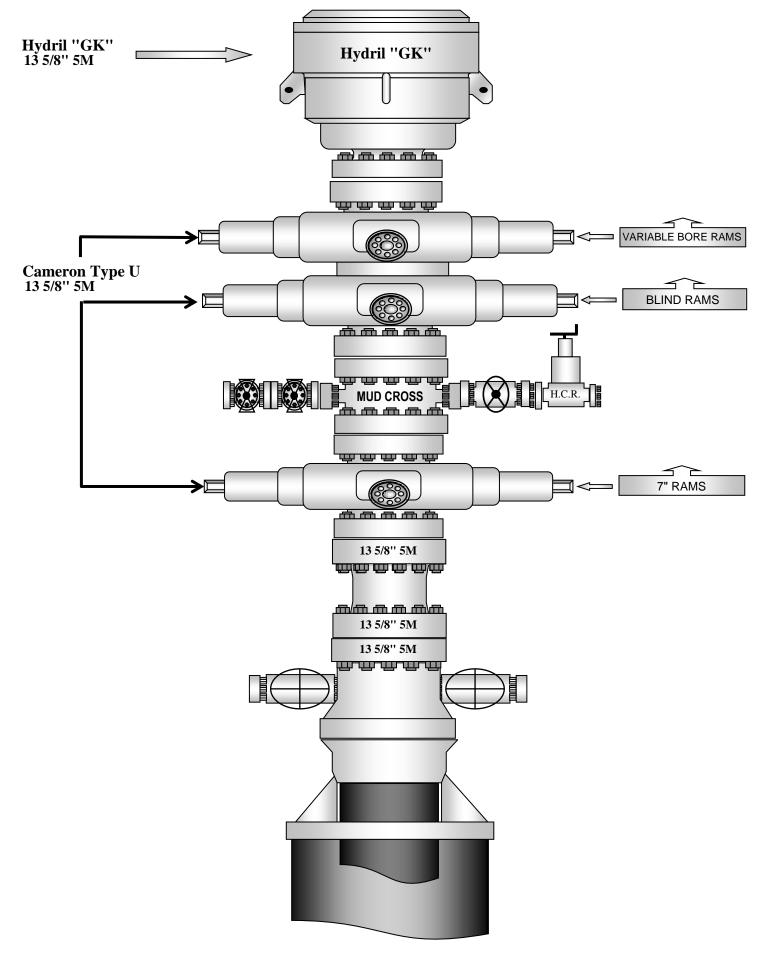
Released to Imaging: 4/28/2023 10:19:30 AM











Intent X As Drilled		
API #		
Operator Name: Mewbourne Oil Co.	Property Name: Sig 6/5 B3LI Fed	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	6	20S	29E		1340	S	10	W	EDDY
Latitu 32.5	^{de} 598982	16			Longitude -104.12	8179			NAD 83

First Take Point (FTP)

ul L	Section 6	Township 20S	Range 29E	Lot	Feet 1340	From N/S S	Feet 100	From E/W	County EDDY
Latitu 32.5	^{ide} 598982	11			Longitude -104.12	15289			NAD 83

Last Take Point (LTP)

UL I	Section 5	Township 20S	Range 29E	Lot	Feet 1340	From N/S S	Feet 100	From E/W E	County EDDY
Latitude				Longitude				NAD	
32.5989219				-104.	-104.0889303			83	

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

Ν

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	 Property Name:	Well Number

KZ 06/29/2018

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Sig 6/5 B3LI Fed #1H Sec 6, T20S, R29E SHL: 1140' FSL & 100' FWL (Sec 6) BHL: 1340' FSL & 100' FEL (Sec 5)

Plan: Design #1

Standard Planning Report

17 November, 2021

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy Sig 6/ Sec 6	ourne Oil Comp County, New M 5 B3LI Fed #1H , T20S, R29E 1340' FSL & 10	exico NAD 83 I		TVD Refer MD Refere North Refe	ence:		Site Sig 6/5 B3LI Fed #1H WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev) Grid Minimum Curvature		
Project	Eddy C	County, New Me	xico NAD 83							
Map System: Geo Datum: Map Zone:	North An	e Plane 1983 nerican Datum xico Eastern Zo			System Dat	um:	Gr	ound Level		
Site	Sig 6/5	B3LI Fed #1H								
Site Position: From: Position Uncerta	Maj inty:	ο 0.0 ι	Northir Easting usft Slot Ra	g:	606,	505.00 usft 564.00 usft 3-3/16 "	Latitude: Longitude:			32.5984313 -104.1215301
Well	Sec 6,	T20S, R29E								
Well Position Position Uncerta Grid Convergenc	-	0 0	.0 usft Eas	rthing: sting: Ilhead Elevat	ion:	581,505.00 606,564.00 3,310.0	usft Lon	tude: gitude: und Level:		32.5984313 -104.121530 3,283.0 ust
Wellbore	BHL: 1	1340' FSL & 100	0' FEL (Sec 5)							
Magnetics	Мс	odel Name	Sample	Date	Declina (°)	tion	Dip A (°	-	Field Str (nT)	-
Design Audit Notes: Version: Vertical Section:	Design		Phase lepth From (TV (usft) 0.0		PROTOTYPE +N/-S (usft) 0.0	+E. (us	On Depth: /-W sft) 0	Dire	0.0 ection (°) 3.86	
Plan Survey Too Depth Fror (usft) 1 (n Dept (us	h To ift) Survey	11/17/2021 (Wellbore) #1 (BHL: 1340'	FSL & 100	Tool Name		Remarks			
Plan Sections Measured Depth I (usft)	nclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0 3,000.0 3,117.4 8,344.1 8,461.5 9,356.6	0.00 0.00 2.35 2.35 0.00 89.50	0.00 0.00 336.01 336.01 0.00 90.00	0.0 3,000.0 3,117.3 8,339.7 8,457.0 9,030.0	0.0 0.0 2.2 197.8 200.0 200.0	0.0 0.0 -1.0 -88.0 -89.0 479.0	0.00 0.00 2.00 0.00 2.00 10.00	0.00 0.00 2.00 0.00 -2.00 10.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 336.01 0.00 180.00 K0 90.00	DP: 1340' FSL & 10

11/17/2021 10:38:27AM

Database:	Hobbs	Local Co-ordinate Reference:	Site Sig 6/5 B3LI Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3310.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3310.0usft (Original Well Elev)
Site:	Sig 6/5 B3LI Fed #1H	North Reference:	Grid
Well:	Sec 6, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1340' FSL & 100' FEL (Sec 5)		
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	SL & 100' FWL (0.0	0.0	0.0	0.0	0.00	0.00	0.00
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
400.0		0.00	400.0	0.0		0.0		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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	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
2,500.0	0.00	0.00	2,600.0	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
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	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	336.01	3,100.0	1.6	-0.7	-0.7	2.00	2.00	0.00
3,117.4	2.35	336.01	3,117.3	2.2	-1.0	-0.9	2.00	2.00	0.00
3,200.0	2.35	336.01	3,199.9	5.3	-2.4	-2.2	0.00	0.00	0.00
3,300.0	2.35	336.01	3,299.8	9.0	-4.0	-3.8	0.00	0.00	0.00
3,400.0	2.35	336.01	3,399.7	12.8	-5.7	-5.4	0.00	0.00	0.00
3,500.0	2.35	336.01	3,499.6	16.5	-7.3	-7.0	0.00	0.00	0.00
3,600.0	2.35	336.01	3,599.6	20.3	-9.0	-8.6	0.00	0.00	0.00
3,700.0	2.35	336.01	3,699.5	24.0	-10.7	-10.2	0.00	0.00	0.00
3,800.0	2.35	336.01	3,799.4	27.7	-12.3	-11.8	0.00	0.00	0.00
3,900.0	2.35	336.01	3,899.3	31.5	-14.0	-13.4	0.00	0.00	0.00
4,000.0	2.35	336.01	3,999.2	35.2	-15.7	-15.0	0.00	0.00	0.00
4,100.0 4,200.0	2.35 2.35	336.01 336.01	4,099.1	39.0	-17.3	-16.6	0.00	0.00	0.00
			4,199.1	42.7	-19.0 20.7	-18.2	0.00	0.00	0.00
4,300.0	2.35	336.01	4,299.0	46.5	-20.7	-19.7	0.00	0.00	0.00
4,400.0	2.35	336.01	4,398.9	50.2	-22.3	-21.3	0.00	0.00	0.00
4,500.0	2.35	336.01	4,498.8	53.9	-24.0	-22.9	0.00	0.00	0.00
4,600.0	2.35	336.01	4,598.7	57.7	-25.7	-24.5	0.00	0.00	0.00
4,700.0	2.35	336.01	4,698.6	61.4	-27.3	-26.1	0.00	0.00	0.00
4,800.0	2.35	336.01	4,798.6	65.2	-29.0	-27.7	0.00	0.00	0.00
4,900.0	2.35	336.01	4,898.5	68.9	-30.7	-29.3	0.00	0.00	0.00
4,900.0 5,000.0	2.35	336.01	4,998.4	72.7	-30.7	-29.3	0.00	0.00	0.00
5,000.0	2.35	336.01	5,098.3	76.4	-32.5	-30.9	0.00	0.00	0.00

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Page 3

COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Sig 6/5 B3LI Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3310.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3310.0usft (Original Well Elev)
Site:	Sig 6/5 B3LI Fed #1H	North Reference:	Grid
Well:	Sec 6, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1340' FSL & 100' FEL (Sec 5)		
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	2.35	336.01	5,198.2	80.1	-35.7	-34.1	0.00	0.00	0.00
5,300.0	2.35	336.01	5,298.1	83.9	-37.3	-35.6	0.00	0.00	0.00
5,400.0	2.35	336.01	5,398.1	87.6	-39.0	-37.2	0.00	0.00	0.00
5,500.0	2.35	336.01	5,498.0	91.4	-40.7	-38.8	0.00	0.00	0.00
5,600.0	2.35	336.01	5,597.9	95.1	-42.3	-40.4	0.00	0.00	0.00
5,700.0	2.35	336.01	5,697.8	98.9	-44.0	-42.0	0.00	0.00	0.00
5,800.0	2.35	336.01	5,797.7	102.6	-45.7	-43.6	0.00	0.00	0.00
5,900.0	2.35	336.01	5,897.6	106.3	-47.3	-45.2	0.00	0.00	0.00
	2.35	336.01	5,897.6 5,997.5		-47.3		0.00	0.00	0.00
6,000.0				110.1		-46.8			
6,100.0	2.35	336.01	6,097.5	113.8	-50.6	-48.4	0.00	0.00	0.00
6,200.0	2.35	336.01	6,197.4	117.6	-52.3	-50.0	0.00	0.00	0.00
6,300.0	2.35	336.01	6,297.3	121.3	-54.0	-51.6	0.00	0.00	0.00
6,400.0	2.35	336.01	6,397.2	125.0	-55.6	-53.1	0.00	0.00	0.00
6,500.0	2.35	336.01	6,497.1	128.8	-57.3	-54.7	0.00	0.00	0.00
6,600.0	2.35	336.01	6,597.0	132.5	-59.0	-56.3	0.00	0.00	0.00
6,700.0	2.35	336.01	6,697.0	136.3	-60.6	-57.9	0.00	0.00	0.00
6,800.0	2.35	336.01	6,796.9	140.0	-62.3	-59.5	0.00	0.00	0.00
6,900.0	2.35	336.01	6,896.8	143.8	-64.0	-61.1	0.00	0.00	0.00
7,000.0	2.35	336.01	6,996.7	147.5	-65.6	-62.7	0.00	0.00	0.00
7,100.0	2.35	336.01	7,096.6	151.2	-67.3	-64.3	0.00	0.00	0.00
7,200.0	2.35	336.01	7,196.5	155.0	-69.0	-65.9	0.00	0.00	0.00
7,300.0	2.35	336.01	7,296.5	158.7	-70.6	-67.5	0.00	0.00	0.00
7,400.0	2.35	336.01	7,396.4	162.5	-72.3	-69.0	0.00	0.00	0.00
7,500.0	2.35	336.01	7,496.3	166.2	-72.3	-70.6	0.00	0.00	0.00
	2.35	336.01	7,596.2	170.0			0.00	0.00	0.00
7,600.0					-75.6	-72.2			
7,700.0	2.35	336.01	7,696.1	173.7	-77.3	-73.8	0.00	0.00	0.00
7,800.0	2.35	336.01	7,796.0	177.4	-79.0	-75.4	0.00	0.00	0.00
7,900.0	2.35	336.01	7,896.0	181.2	-80.6	-77.0	0.00	0.00	0.00
8,000.0	2.35	336.01	7,995.9	184.9	-82.3	-78.6	0.00	0.00	0.00
8,100.0	2.35	336.01	8,095.8	188.7	-84.0	-80.2	0.00	0.00	0.00
8,200.0	2.35	336.01	8,195.7	192.4	-85.6	-81.8	0.00	0.00	0.00
8,300.0	2.35	336.01	8,295.6	196.2	-87.3	-83.4	0.00	0.00	0.00
8,344.1	2.35	336.01	8,339.7	197.8	-88.0	-84.1	0.00	0.00	0.00
8,400.0	1.23	336.01	8,395.6	199.4	-88.7	-84.7	2.00	-2.00	0.00
8,461.5	0.00	0.00	8,457.0	200.0	-89.0	-85.0	2.00	-2.00	0.00
KOP: 1340' F	SL & 10' FWL (S	Sec 6)							
8,500.0	3.85	90.00	8,495.5	200.0	-87.7	-83.7	10.00	10.00	0.00
8,550.0	8.85	90.00	8,545.2	200.0	-82.2	-78.2	10.00	10.00	0.00
8,600.0	10 OF	90.00	8,594.2	200.0	-72.3	-68.3	10.00	10.00	0.00
	13.85 18.85		8,594.2 8,642.2	200.0			10.00		0.00
8,650.0		90.00			-58.3	-54.3		10.00	
8,700.0	23.85	90.00	8,688.7	200.0	-40.1	-36.1	10.00	10.00	0.00
8,750.0	28.85	90.00	8,733.5	200.0	-17.9	-13.9	10.00	10.00	0.00
8,785.1	32.36	90.00	8,763.7	200.0	0.0	4.0	10.00	10.00	0.00
FTP: 1340' F	SL & 100' FWL (Sec 6)							
8,800.0	33.85	90.00	8,776.2	200.0	8.1	12.1	10.00	10.00	0.00
8,850.0	38.85	90.00	8,816.5	200.0	37.8	41.7	10.00	10.00	0.00
8,900.0	43.85	90.00	8,854.0	200.0	70.8	74.8	10.00	10.00	0.00
8,900.0 8,950.0	48.85	90.00 90.00	8,888.5	200.0	106.9	110.9	10.00	10.00	0.00
8,950.0 9,000.0	40.05 53.85		8,919.7	200.0	146.0			10.00	
9,000.0	00.00	90.00	0,919.7	200.0	140.0	149.9	10.00	10.00	0.00
9,050.0	58.85	90.00	8,947.4	200.0	187.6	191.5	10.00	10.00	0.00
9,100.0	63.85	90.00	8,971.4	200.0	231.5	235.4	10.00	10.00	0.00
9,150.0	68.85	90.00	8,991.4	200.0	277.2	281.2	10.00	10.00	0.00
9,200.0	73.85	90.00	9,007.4	200.0	324.6	328.5	10.00	10.00	0.00
9,250.0	78.85	90.00	9,019.2	200.0	373.2	377.1	10.00	10.00	0.00

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COMPASS 5000.16 Build 97

.

Database:	Hobbs	Local Co-ordinate Reference:	Site Sig 6/5 B3LI Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3310.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3310.0usft (Original Well Elev)
Site:	Sig 6/5 B3LI Fed #1H	North Reference:	Grid
Well:	Sec 6, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1340' FSL & 100' FEL (Sec 5)		
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)
(2011)	()	()	(2011)	(usit)	(usit)	(4014)	((11002011)	(/ 1000001)
9,300.0	83.85	90.00	9,026.7	200.0	422.6	426.5	10.00	10.00	0.00
9,350.0	88.84	90.00	9,029.9	200.0	472.5	476.4	10.00	10.00	0.00
9,356.6	89.50	90.00	9,030.0	200.0	479.0	482.9	10.00	10.00	0.00
9,360.5	89.50	90.00	9,030.0	200.0	483.0	486.9	0.00	0.00	0.00
	SL & 583' FWL (S		0,000.0	200.0	100.0	100.0	0.00	0.00	0.00
9,400.0	89.50	90.00	9,030.4	200.0	522.5	526.3	0.00	0.00	0.00
9,500.0	89.50	90.00	9,031.2	200.0	622.5	626.3	0.00	0.00	0.00
,	89.50	90.00	9,031.2	200.0	722.5	726.3	0.00	0.00	0.00
9,600.0									
9,700.0	89.50	90.00	9,033.0	200.0	822.5	826.3	0.00	0.00	0.00
9,800.0	89.50	90.00	9,033.8	200.0	922.5	926.3	0.00	0.00	0.00
9,900.0	89.50	90.00	9,034.7	200.0	1,022.4	1,026.2	0.00	0.00	0.00
10,000.0	89.50	90.00	9,035.6	200.0	1,122.4	1,126.2	0.00	0.00	0.00
10,100.0	89.50	90.00	9,036.5	200.0	1,222.4	1,226.2	0.00	0.00	0.00
10,200.0	89.50	90.00	9,037.3	200.0	1,322.4	1,326.2	0.00	0.00	0.00
10,300.0	89.50	90.00	9,038.2	200.0	1,422.4	1,426.1	0.00	0.00	0.00
10,400.0	89.50	90.00	9,039.1	200.0	1,522.4	1,526.1	0.00	0.00	0.00
			,						
10,500.0	89.50	90.00	9,039.9	200.0	1,622.4	1,626.1	0.00	0.00	0.00
10,600.0	89.50	90.00	9,040.8	200.0	1,722.4	1,726.1	0.00	0.00	0.00
10,700.0	89.50	90.00	9,041.7	200.0	1,822.4	1,826.0	0.00	0.00	0.00
10,800.0	89.50	90.00	9,042.5	200.0	1,922.4	1,926.0	0.00	0.00	0.00
10,900.0	89.50	90.00	9,043.4	200.0	2,022.4	2,026.0	0.00	0.00	0.00
11,000.0	89.50	90.00	9,044.3	200.0	2,122.4	2,126.0	0.00	0.00	0.00
11,100.0	89.50	90.00	9,045.1	200.0	2,122.4	2,120.0	0.00	0.00	0.00
11,200.0	89.50	90.00	9,046.0	200.0	2,322.4	2,325.9	0.00	0.00	0.00
11,300.0	89.50	90.00	9,046.9	200.0	2,422.4	2,425.9	0.00	0.00	0.00
11,400.0	89.50	90.00	9,047.7	200.0	2,522.4	2,525.9	0.00	0.00	0.00
11,500.0	89.50	90.00	9,048.6	200.0	2,622.4	2,625.9	0.00	0.00	0.00
11,600.0	89.50	90.00	9,049.5	200.0	2,722.4	2,725.8	0.00	0.00	0.00
11,700.0	89.50	90.00	9,050.3	200.0	2,822.4	2,825.8	0.00	0.00	0.00
11,800.0	89.50	90.00	9,051.2	200.0	2,922.4	2,925.8	0.00	0.00	0.00
11,900.0	89.50	90.00	9,052.1	200.0	3,022.4	3,025.8	0.00	0.00	0.00
12,000.0	89.50	90.00	9,052.9	200.0	3,122.4	3,125.7	0.00	0.00	0.00
	89.50	90.00	9,053.8	200.0	3,222.4	3,225.7	0.00	0.00	0.00
12,100.0									
12,200.0	89.50	90.00	9,054.7	200.0	3,322.4	3,325.7	0.00	0.00	0.00
12,300.0	89.50	90.00	9,055.6	200.0	3,422.4	3,425.7	0.00	0.00	0.00
12,400.0	89.50	90.00	9,056.4	200.0	3,522.4	3,525.6	0.00	0.00	0.00
12,500.0	89.50	90.00	9,057.3	200.0	3,622.4	3,625.6	0.00	0.00	0.00
12,600.0	89.50	90.00	9,058.2	200.0	3,722.3	3,725.6	0.00	0.00	0.00
12,700.0	89.50	90.00	9,059.0	200.0	3,822.3	3,825.6	0.00	0.00	0.00
12,800.0	89.50	90.00	9,059.9	200.0	3,922.3	3,925.5	0.00	0.00	0.00
12,900.0	89.50	90.00	9,060.8	200.0	4,022.3	4,025.5	0.00	0.00	0.00
							0.00		
13,000.0 13,100.0	89.50 89.50	90.00 90.00	9,061.6 9,062.5	200.0 200.0	4,122.3 4,222.3	4,125.5 4,225.5	0.00	0.00 0.00	0.00 0.00
13,200.0	89.50	90.00	9,063.4	200.0	4,322.3	4,325.5	0.00	0.00	0.00
13,300.0	89.50	90.00	9,064.2	200.0	4,422.3	4,425.4	0.00	0.00	0.00
13,400.0	89.50	90.00	9,065.1	200.0	4,522.3	4,525.4	0.00	0.00	0.00
13,500.0	89.50	90.00	9,066.0	200.0	4,622.3	4,625.4	0.00	0.00	0.00
13,600.0	89.50	90.00	9,066.8	200.0	4,722.3	4,725.4	0.00	0.00	0.00
13,700.0	89.50	90.00	9,067.7	200.0	4,822.3	4,825.3	0.00	0.00	0.00
13,800.0	89.50	90.00	9,068.6	200.0	4,922.3	4,925.3	0.00	0.00	0.00
13,900.0	89.50	90.00	9,069.4	200.0	5,022.3	5,025.3	0.00	0.00	0.00
14,000.0	89.50	90.00	9,070.3	200.0	5,122.3	5,125.3	0.00	0.00	0.00
14,100.0	89.50	90.00	9,071.2	200.0	5,222.3	5,225.2	0.00	0.00	0.00

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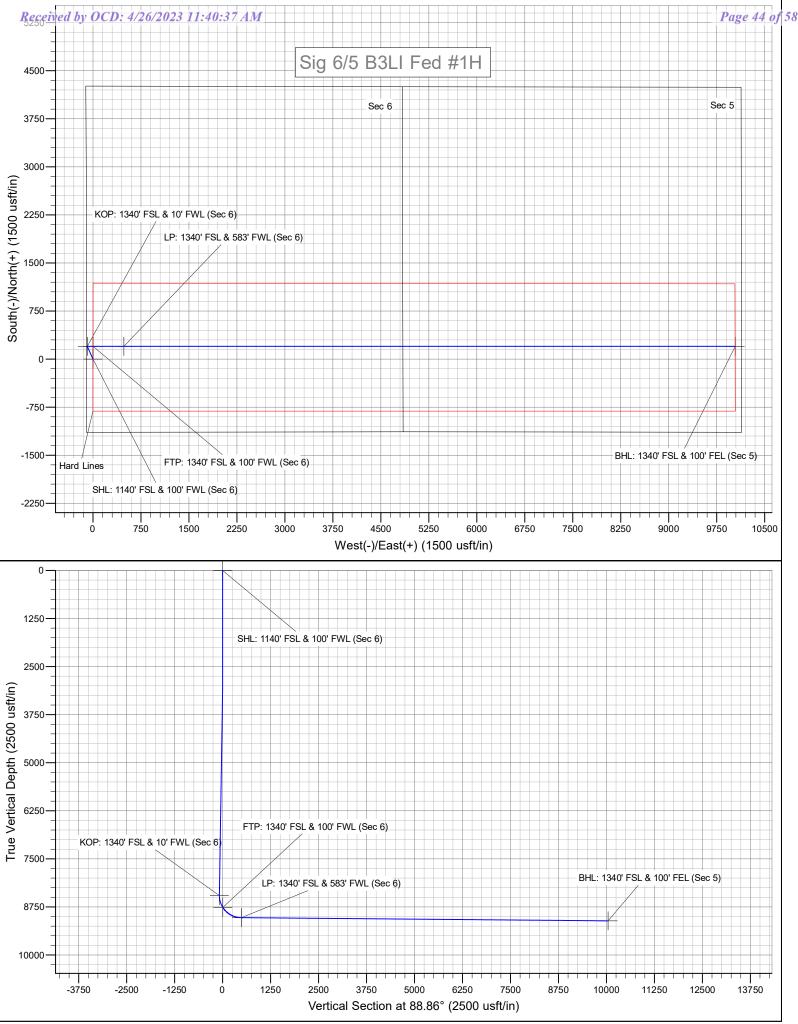
COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Sig 6/5 B3LI Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3310.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3310.0usft (Original Well Elev)
Site:	Sig 6/5 B3LI Fed #1H	North Reference:	Grid
Well:	Sec 6, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1340' FSL & 100' FEL (Sec 5)		
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)
14,200.0	89.50	90.00	9,072.0	200.0	5,322.3	5,325.2	0.00	0.00	0.00
14,300.0	89.50	90.00	9,072.9	200.0	5,422.3	5,425.2	0.00	0.00	0.00
14,400.0	89.50	90.00	9,073.8	200.0	5,522.3	5,525.2	0.00	0.00	0.00
44 500 0	00.50	00.00	0.074.7	200.0	5 000 0	E 00E 4	0.00	0.00	0.00
14,500.0	89.50 89.50	90.00 90.00	9,074.7	200.0 200.0	5,622.3	5,625.1	0.00 0.00	0.00 0.00	0.00 0.00
14,600.0			9,075.5		5,722.3	5,725.1			
14,700.0	89.50	90.00	9,076.4	200.0 200.0	5,822.3	5,825.1	0.00 0.00	0.00	0.00
14,800.0 14,900.0	89.50 89.50	90.00 90.00	9,077.3 9,078.1	200.0	5,922.3 6,022.3	5,925.1 6,025.0	0.00	0.00 0.00	0.00
14,900.0	69.50				0,022.3			0.00	
15,000.0	89.50	90.00	9,079.0	200.0	6,122.3	6,125.0	0.00	0.00	0.00
15,100.0	89.50	90.00	9,079.9	200.0	6,222.3	6,225.0	0.00	0.00	0.00
15,200.0	89.50	90.00	9,080.7	200.0	6,322.2	6,325.0	0.00	0.00	0.0
15,300.0	89.50	90.00	9,081.6	200.0	6,422.2	6,425.0	0.00	0.00	0.0
15,400.0	89.50	90.00	9,082.5	200.0	6,522.2	6,524.9	0.00	0.00	0.0
15,500.0	89.50	90.00	9,083.3	200.0	6,622.2	6,624.9	0.00	0.00	0.0
15,600.0	89.50	90.00	9,084.2	200.0	6,722.2	6,724.9	0.00	0.00	0.0
15,700.0	89.50	90.00	9,085.1	200.0	6,822.2	6,824.9	0.00	0.00	0.0
15,800.0	89.50	90.00	9,085.9	200.0	6,922.2	6,924.8	0.00	0.00	0.0
15,900.0	89.50	90.00	9,086.8	200.0	7,022.2	7,024.8	0.00	0.00	0.0
16,000.0	89.50	90.00	9,087.7	200.0	7.122.2	7,124.8	0.00	0.00	0.0
16,100.0	89.50	90.00	9,088.5	200.0	7,222.2	7,224.8	0.00	0.00	0.0
16,200.0	89.50	90.00	9,089.4	200.0	7,322.2	7,324.7	0.00	0.00	0.0
16,300.0	89.50	90.00	9,090.3	200.0	7,422.2	7,424.7	0.00	0.00	0.0
16,400.0	89.50	90.00	9,091.1	200.0	7,522.2	7,524.7	0.00	0.00	0.0
16,500.0	89.50	90.00	9.092.0	200.0	7,622.2	7.624.7	0.00	0.00	0.0
16,600.0	89.50	90.00	9,092.9	200.0	7,722.2	7,724.6	0.00	0.00	0.0
16,700.0	89.50	90.00	9,093.8	200.0	7,822.2	7,824.6	0.00	0.00	0.0
16,800.0	89.50	90.00	9,094.6	200.0	7,922.2	7,924.6	0.00	0.00	0.0
16,900.0	89.50	90.00	9,095.5	200.0	8,022.2	8,024.6	0.00	0.00	0.0
17,000.0	89.50	90.00	9,096.4	200.0	8,122.2	8,124.6	0.00	0.00	0.0
17,000.0	89.50	90.00	9,090.4	200.0	8,222.2	8,224.5	0.00	0.00	0.0
17,100.0	89.50	90.00	9,097.2	200.0	8,322.2	8,324.5	0.00	0.00	0.0
17,200.0	89.50	90.00	9,098.1	200.0	8,322.2 8,422.2	8,424.5	0.00	0.00	0.0
17,300.0	89.50	90.00	9,099.0	200.0	8,522.2	8,524.5	0.00	0.00	0.0
17,500.0	89.50	90.00	9,100.7	200.0	8,622.2	8,624.4	0.00	0.00	0.0
17,600.0	89.50	90.00	9,101.6	200.0	8,722.2	8,724.4	0.00	0.00	0.0
17,700.0	89.50	90.00	9,102.4	200.0	8,822.2	8,824.4	0.00	0.00	0.0
17,800.0	89.50	90.00	9,103.3	200.0	8,922.2	8,924.4	0.00	0.00	0.0
17,900.0	89.50	90.00	9,104.2	200.0	9,022.1	9,024.3	0.00	0.00	0.0
18,000.0	89.50	90.00	9,105.0	200.0	9,122.1	9,124.3	0.00	0.00	0.0
18,100.0	89.50	90.00	9,105.9	200.0	9,222.1	9,224.3	0.00	0.00	0.0
18,200.0	89.50	90.00	9,106.8	200.0	9,322.1	9,324.3	0.00	0.00	0.0
18,300.0	89.50	90.00	9,107.6	200.0	9,422.1	9,424.2	0.00	0.00	0.0
18,400.0	89.50	90.00	9,108.5	200.0	9,522.1	9,524.2	0.00	0.00	0.0
18,500.0	89.50	90.00	9,109.4	200.0	9,622.1	9,624.2	0.00	0.00	0.0
18,600.0	89.50	90.00	9,110.2	200.0	9,722.1	9,724.2	0.00	0.00	0.0
18,700.0	89.50	90.00	9,111.1	200.0	9,822.1	9,824.2	0.00	0.00	0.0
18,800.0	89.50	90.00	9,112.0	200.0	9,922.1	9,924.1	0.00	0.00	0.0
18,900.0	89.50	90.00	9,112.9	200.0	10,022.1	10,024.1	0.00	0.00	0.0
18,916.9	89.50	90.00	9,113.0	200.0	10,039.0	10,041.0	0.00	0.00	0.0
10,010.0	SL & 100' FEL (5,115.0	200.0	10,000.0	10,041.0	0.00	0.00	0.0

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Sig 6/5 B3LI Fed #1H Sec 6, T20S, R29E BHL: 1340' FSL & 100' FEL (Sec 5) Design #1			TVD Refere MD Referen North Refer	ice:	WELL @ WELL @ Grid	Site Sig 6/5 B3LI Fed #1H WELL @ 3310.0usft (Original Well Elev) WELL @ 3310.0usft (Original Well Elev) Grid Minimum Curvature		
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: 1140' FSL & 100' - plan hits target ce - Point		0 0.00	0.0	0.0	0.0	581,505.00	606,564.00	32.5984313	-104.1215301
KOP: 1340' FSL & 10' F - plan hits target ce - Point		0 0.00	8,457.0	200.0	-89.0	581,705.00	606,475.00	32.5989816	-104.1218179
FTP: 1340' FSL & 100' - plan hits target ce - Point		0 0.00	8,763.7	200.0	0.0	581,705.00	606,564.00	32.5989811	-104.1215289
LP: 1340' FSL & 583' F - plan hits target ce - Point		0 0.00	9,030.0	200.0	483.0	581,705.00	607,047.00	32.5989784	-104.1199605
BHL: 1340' FSL & 100' - plan hits target ce - Point		0 0.00	9,113.0	200.0	10,039.0	581,705.00	616,603.00	32.5989219	-104.0889303



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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NMNM144698
WELL NAME & NO.:	SIG 6-5 B3LI FED 1H
SURFACE HOLE FOOTAGE:	1140'/S & 100'/W
BOTTOM HOLE FOOTAGE	1340'/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	O Other
Wellhead	Conventional	Multibowl	O Both
Other	4 String Area	Capitan Reef	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 $\underline{\mathbf{8}}$ <u>hours</u> 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 **1,050** 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.
 - 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 **3,075** feet. The minimum required fill of cement behind the **9-5/8** inch second intermediate casing is:

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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 -25%, 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.
- 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 -7%, 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 19%, 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.

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
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.
- g. 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.

OTA04042023

Hydrogen Sulfide Drilling Operations Plan 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:

- 1 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.
- 3 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. <u>Well Control Equipment</u>
 - 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. <u>Protective Equipment for Essential Personnel</u>

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 Office911 or 575-887-7551Ambulance Service911 or 575-885-2111Carlsbad Fire Dept911 or 575-885-2111Loco Hills Volunteer Fire Dept.911 or 575-677-3266Closest Medical Facility - Columbia Medical Center of Carlsbad575-492-5000

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

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

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? 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 Description of cuttings location Cuttings area length (ft.) Cuttings area depth (ft.) Cuttings area depth (ft.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner *Received by OCD: 4/26/2023 11:40:37 AM*

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SIG 6/5 B3LI FED

Well Number: 1H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Sig_6_5_B3LI_Fed_1H_WellSiteLayout_20221103112908.pdf

Comments: NONE

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 (acres): 4.4	Well pad interim reclamation (acres): 1.13	Well pad long term disturbance (acres): 3.27
Road proposed disturbance (acres): 0.49	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres):	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 1.05	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 5.94	Total interim reclamation: 1.13	Total long term disturbance: 3.27

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

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

Operator:	OGRID:	
MEWBOURNE OIL CO	14744	
P.O. Box 5270	Action Number:	
Hobbs, NM 88241	210975	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Notify OCD 24 hours prior to casing & cement	4/28/2023
john.harrison	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/28/2023
john.harrison	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	4/28/2023
john.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing	4/28/2023
john.harrison	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	4/28/2023
john.harrison	Will require a name change complying with OCD policy prior to putting the well into production.	4/28/2023

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