Form 3160-3 (June 2015)				FORM A OMB No	. 1004-01	37		
UNITED STATES				Expires: Jai	nuary 31,	2018		
DEPARTMENT OF THE I BUREAU OF LAND MAN				5. Lease Serial No. NMLC067132				
APPLICATION FOR PERMIT TO D	-			6. If Indian, Allotee	or Tribe N	Jame		
				o. II mului, I motee		tunie		
1a. Type of work:	EENTER			7. If Unit or CA Agre	eement, N	lame and No.		
	ther							
	ingle Zone	Multiple Zone		8. Lease Name and V				
The type of completion. If thy a unit is that the set of the set o	lingle zone			PRETTY BIRD 20/	19 B3IL I	FED COM		
				1H.				
2. Name of Operator MEWBOURNE OIL COMPANY				9. API Well No.	0-015	5-53748		
3a. Address P O BOX 5270, HOBBS, NM 88241	3b. Phone (575) 393	e No. <i>(include area code</i> 3-5905	2)	10. Field and Pool, o SCALION/BONE S	1	itory		
4. Location of Well (Report location clearly and in accordance v	-	1 /		11. Sec., T. R. M. or		Survey or Area		
At surface SESE / 1100 FSL / 255 FEL / LAT 32.72872				SEC 20/T18S/R29E	=/NMP			
At proposed prod. zone LOT 3 / 1950 FSL / 100 FWL / L	AT 32.731	0172 / LONG -104.12	214538					
14. Distance in miles and direction from nearest town or post off 10 miles	ice*			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	acres in lease	17. Spacir 640.0	ig Unit dedicated to th	is well			
18 Distance from proposed location*	19. Prope	osed Depth	20./BLM/	BIA Bond No. in file				
to nearest well, drilling, completed, applied for, on this lease, ft. 330 feet	8314 fee	t / 18464 feet	FED: NM	1693				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3511 feet	22. Appro 10/16/20	oximate date work will : 21	start*	23. Estimated duration 60 days	on			
	24. Att	achments						
The following, completed in accordance with the requirements of (as applicable)	f Onshore (	Dil and Gas Order No. 1	, and the H	lydraulic Fracturing ru	ile per 43	CFR 3162.3-3		
1. Well plat certified by a registered surveyor.		4. Bond to cover th Item 20 above).	e operation	s unless covered by an	existing	bond on file (see		
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste</li> </ol>	m Lands, tł	,	ation.					
SUPO must be filed with the appropriate Forest Service Office	:).	6. Such other site sp BLM.	ecific infor	mation and/or plans as	may be re	quested by the		
25. Signature	Nai	me (Printed/Typed)			Date			
(Electronic Submission)	BR	ADLEY BISHOP / Ph	: (575) 39	3-5905	09/20/2	021		
Title Regulatory								
Approved by (Signature) (Electronic Submission)		ne (Printed/Typed) DY LAYTON / Ph: (57	75) 234-59		Date 04/25/2	023		
Title Assistant Field Manager Lands & Minerals	Off Car	ice Isbad Field Office						
Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds leg	al or equitable title to th	ose rights	in the subject lease wh	iich woul	d entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n					ny depart	ment or agency		
of the United States any false, fictitious or fraudulent statements	or represen	ations as to any matter	within its j	unsulcuon.				
				Accepted for	or reco	rd – NMOCE		



* (T	4		0)	

-04/28/2023

JRH

(Continued on page 2)

\*(Instructions on page 2)

District I 1625 N. French Dr., Hobbs, NM 88240

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District II

District III

District IV

Phone: (575) 393-6161 Fax: (575) 393-0720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

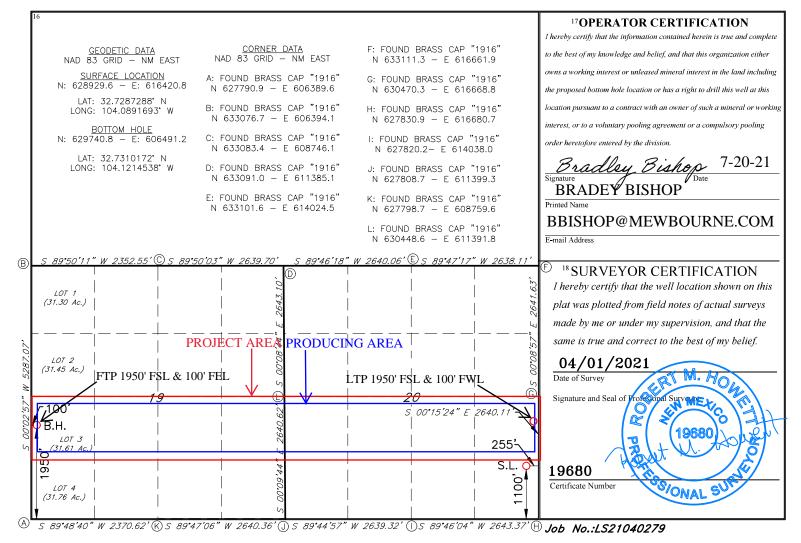
1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

1	<sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name												
30-	015-53	748		49553	LLO EAST ·	ST - BONE SPRING							
<sup>4</sup> Property Co <b>33397</b>		<sup>5</sup> Property Name <b>PRETTY BIRD 20/19 B3IL FED COM</b> <sup>6 W</sup>											
7 OGRID NO. 147448 Operator Name9 ElevationMEWBOURNE OIL COMPANY3511'													
					<sup>10</sup> Surface	Location							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/We	st line	County			
Р	20	18S	29E		1100	SOUTH	255	EAS	5т	EDDY			
			11 ]	Bottom H	lole Location	If Different Fr	om Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County			
3	19	18S	29E		1950	SOUTH	100	WES	ST	EDDY			
<sup>12</sup> Dedicated Acre 320	s 13 Joint	or Infill 14 (	Consolidation	Code 15 (	Drder No.								

#### 311.61

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.



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	Er	State nergy, Minerals ar	e of New Mex nd Natural Res		nt	Submit Electronically Via E-permitting
		Oil Co 1220 S	nservation Di outh St. Fran ta Fe, NM 87	vision cis Dr.		
	N	ATURAL GA	AS MANA	GEMENT PI	LAN	
This Natural Gas Manag	gement Plan mi	ust be submitted wi	th each Applicat	ion for Permit to D	Drill (APD) for a	new or recompleted well.
			1 – Plan D fective May 25,			
I. Operator: Mev	vbourne C	Dil Co.	OGRID:	14744	Date:	5/2/22
II. Type: 🗶 Original 🗆	] Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) NMAC 🗆	Other.
If Other, please describe	:					
<b>III. Well(s):</b> Provide the be recompleted from a s	e following inf ingle well pad	ormation for each r or connected to a c	new or recomple entral delivery p	ted well or set of voint.	vells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
PRETTY BIRD 20/19 B3IL FED CON	1 1H	P 20 18S 29E	1100' FSL x 255' F	eL 1500	2500	3500
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informat		v or recompleted w		19.15.27.9(D)(1) NMAC] s proposed to be drilled of
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		
PRETTY BIRD 20/19 B3IL FED CON	1 1H	7/2/22	8/2/22	9/2/22	9/17/2	9/17/22
VII. Operational Prac Subsection A through F	tices: 🛛 Attac of 19.15.27.8 ] at Practices: 5	h a complete descr NMAC.	iption of the ac	tions Operator will	l take to comply	nt to optimize gas capture with the requirements of tices to minimize venting

## 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:

#### 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.

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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:

X 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. 
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 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.

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		Stat	te of New Mex	ico		Subr	nit Electronically
	E	nergy, Minerals a	and Natural Reso	ources Departme	ent		E-permitting
		1220 \$	onservation Di South St. Franc Ita Fe, NM 875	sis Dr.			
	N	ATURAL G	AS MANAC	EMENT PI	LAN		
This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applicat	on for Permit to D	Drill (APD) for a	new o	r recompleted well
			1 – Plan De ffective May 25,				
I. Operator: Me	wbourne (	Dil Co.	OGRID:	14744	Date:	5/2	/22
II. Type: 🗶 Original [	□ Amendment	due to □ 19.15.27	.9.D(6)(a) NMAC	C 🗆 19.15.27.9.D(	6)(b) NMAC 🗆	Other.	
If Other, please describe	e:						
III. Well(s): Provide th be recompleted from a s	e following inf single well pad	formation for each or connected to a c	new or recomplet central delivery p	ed well or set of voint.	wells proposed t	o be dri	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated roduced Water BBL/D
PRETTY BIRD 20/19 B3HE FED CO	2M 1H	P 20 18S 29E	1200' FNL x 50' FEI	1500	2500		3500
IV. Central Delivery F V. Anticipated Schedu proposed to be recompl	le: Provide the	following informa	IRD 20/19 B3HE	or recompleted w			7.9(D)(1) NMAC]
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
PRETTY BIRD 20/19 B3HE FED CO	M 1H	7/2/22	8/2/22	9/2/22	9/17/2	22	9/17/22
VI. Separation Equips VII. Operational Prac Subsection A through F VIII. Best Manageme during active and plann	tices: X Attac of 19.15.27.8 nt Practices: §	h a complete desc NMAC. A Attach a comple	ription of the act	ions Operator will	I take to comply	with t	he requirements or

8

#### 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 Ap	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.

#### Received by OCD: 4/26/2023 2:29:06 PM



## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
6874796	UNKNOWN	3511	28	28	OTHER : Topsoil	NONE	N
6874807	TOP SALT	3106	405	405	SALT	NONE	N
6874808	BASE OF SALT	2651	860	860	SALT	NONE	N
6874800	YATES	2491	1020	1020	SANDSTONE	NATURAL GAS, OIL	N
6874809	SEVEN RIVERS	2126	1385	1385	DOLOMITE	NATURAL GAS, OIL	N
6874801	QUEEN	1491	2020	2020	DOLOMITE	NATURAL GAS, OIL	N
6874802	GRAYBURG	1131	2380	2380	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
6874810	SAN ANDRES	671	2840	2840	LIMESTONE	NATURAL GAS, OIL	N
6874804	BONE SPRING	-379	3890	3890	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
6874805	BONE SPRING 1ST	-3144	6655	6655	SANDSTONE	NATURAL GAS, OIL	N
6874806	BONE SPRING 2ND	-3764	7275	7275	SANDSTONE	NATURAL GAS, OIL	N
6992711	BONE SPRING 3RD	-4844	8355	8355	SANDSTONE	NATURAL GAS, OIL	Y
			1	L			L

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 3M

Rating Depth: 18464

Equipment: Annular Pipe Rams Blind Rams Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics. Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Anchors are not required by manufacturer. A variance is requested to use a multi-bowl wellhead.

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

**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.

#### **Choke Diagram Attachment:**

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_3M\_BOPE\_Choke\_Diagram\_20210916074202.pdf

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Flex\_Line\_Specs\_20210916074201.pdf

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Flex\_Line\_Specs\_API\_16C\_20210916074202.pdf

#### **BOP Diagram Attachment:**

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Multi\_Bowl\_WH\_20210916074214.pdf

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_3M\_BOPE\_Schematic\_20210916074214.pdf

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	330	0	330	3511	3181	330	H-40	48	ST&C	5.1	11.4 6	DRY	20.3 3	DRY	34.1 5
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	1360	0	1360		2151	1360	J-55	36	LT&C	2.86	4.98	DRY	9.25	DRY	11.5 2
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	8864	0	8475		-4964	8864	P- 110	26	LT&C	1.49	2.38	DRY	3.01	DRY	3.6
4	LINER	6.12 5	4.5	NEW	API	N	7964	18464	7902	8314	-4391	-4803	10500	P- 110	13.5	LT&C	2.42	2.82	DRY	2.38	DRY	2.98

#### **Casing Attachments**

Received by OCD: 4/26/2023 2:29:06 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

#### **Casing Attachments**

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
Pretty_Bird_20_19	_B3IL_Fed_C	Com_1HCsg_Assumptions_20210916074559.pdf
Casing ID: 2	String	INTERMEDIATE
Inspection Document:	5	
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
Pretty_Bird_20_19	_B3IL_Fed_C	Com_1HCsg_Assumptions_20210916074731.pdf
	Cárin a	PRODUCTION
Casing ID: 3 Inspection Document:	String	FRODUCTION
inspection Document.		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
Pretty Bird 20 19	B3IL Fed (	Com_1HCsg_Assumptions_20210916074657.pdf
···· <u>·</u> ·······························		

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

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#### **Casing Attachments**

Casing ID: 4 String LINER

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

## Casing Design Assumptions and Worksheet(s):

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_\_Csg\_Assumptions\_20210916074858.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	137	90	2.12	12.5	191	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		137	330	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	690	130	2.12	12.5	276	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		690	1360	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1160	6352	460	2.12	12.5	975	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		6352	8864	400	1.18	15.6	472	25	Class H	Retarder, Fluid loss, defoamer
LINER	Lead		7964	1846 4	420	2.97	11.2	1247	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

## 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

**Describe the mud monitoring system utilized:** Pason/PVT/visual monitoring

## **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	330	SPUD MUD	8.6	8.8							
330	1360	SALT SATURATED	10	10							
1360	8864	WATER-BASED MUD	8.6	9.5							
8864	1846 4	OIL-BASED MUD	8.5	10							

## Section 6 - Test, Logging, Coring

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

Will run GR/CNL in offset Pretty Bird 20/19 B3AD Fed Com #1H.

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

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

Coring operation description for the well:

None

*Received by OCD: 4/26/2023 2:29:06 PM* 

Operator Name: MEWBOURNE OIL COMPANY

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4407

Anticipated Surface Pressure: 2549

Anticipated Bottom Hole Temperature(F): 150

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

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_H2S\_Plan\_20210916075427.pdf

## **Section 8 - Other Information**

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

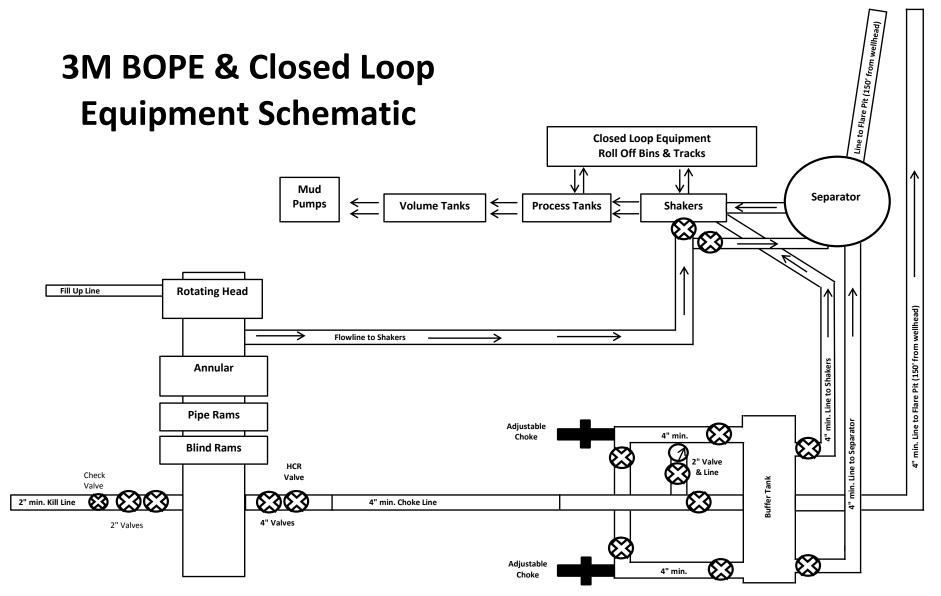
Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Dir\_Plot\_20210916075454.pdf Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Dir\_Plan\_20210916075454.pdf Other proposed operations facets description:

## Other proposed operations facets attachment:

Pretty\_Bird\_20\_19\_B3IL\_Fed\_Com\_1H\_Add\_Info\_20210916075717.pdf

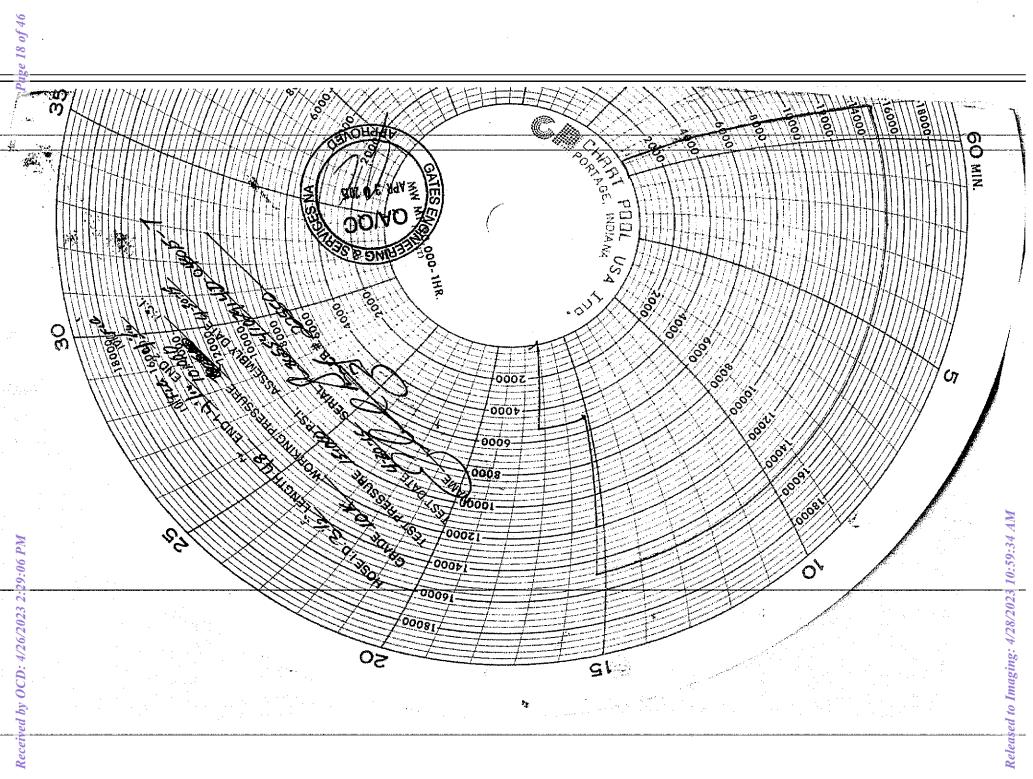
Other Variance attachment:

## Page 16 of 46



Drawing not to scale

	T I, TEXAS 78405		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.com</i> WEB: www.gates.com	
10K C	CEMENTING ASSEMB	BLY PRESSURE	TEST CERTIFICATE	
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7	
Invoice No. :	500506	Created By:	JUSTIN CROPPER	
Product Description:		10K3.548.0CK4.1/1610KFL	GE/E LE	
-				
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG	
Gates Part No. : Working Pressure :	4773-6290 10,000 PSI	Assembly Code : Test Pressure :	15,000 PSI	
the Gates Oi	ilfield Roughneck Agreement/	/Specification requiren	hose assembly has been tested to ments and passed the 15 minute	
the Gates Oi hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E si in accordance with this proc	/Specification requiren Edition, June 2010, Te duct number. Hose bu	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the	
the Gates Oi hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth F	/Specification requiren Edition, June 2010, Te duct number. Hose bu	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the	
the Gates Oi hydrostatic tes	ilfield Roughneck Agreement/ st per API Spec 7K/Q1, Fifth E si in accordance with this proc	/Specification requiren Edition, June 2010, Te duct number. Hose bu	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the	
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9.	
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu the working pressure	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9.	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9.	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	- -
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	-
the Gates Oi hydrostatic tes to 15,000 ps Quality Manager : Date :	ilfield Roughneck Agreement/ Ist per API Spec 7K/Q1, Fifth E si in accordance with this proc minimum of 2.5 times	/Specification requiren Edition, June 2010, Te duct number. Hose bu s the working pressure Produciton: Date :	hose assembly has been tested to nents and passed the 15 minute est pressure 9.6.7 and per Table 9 urst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION 4/30/2015	





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
Product Description:	10KF.	3.035.0CK41/1610KFLGFXDxFLT	L/E
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
End Fitting 1:	4 1/16 in. Fixed Flange 68503010-9721632	End Fitting 2: Assembly Code:	4 1/16 in. Float Flange L40695052218H-082018-10

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.

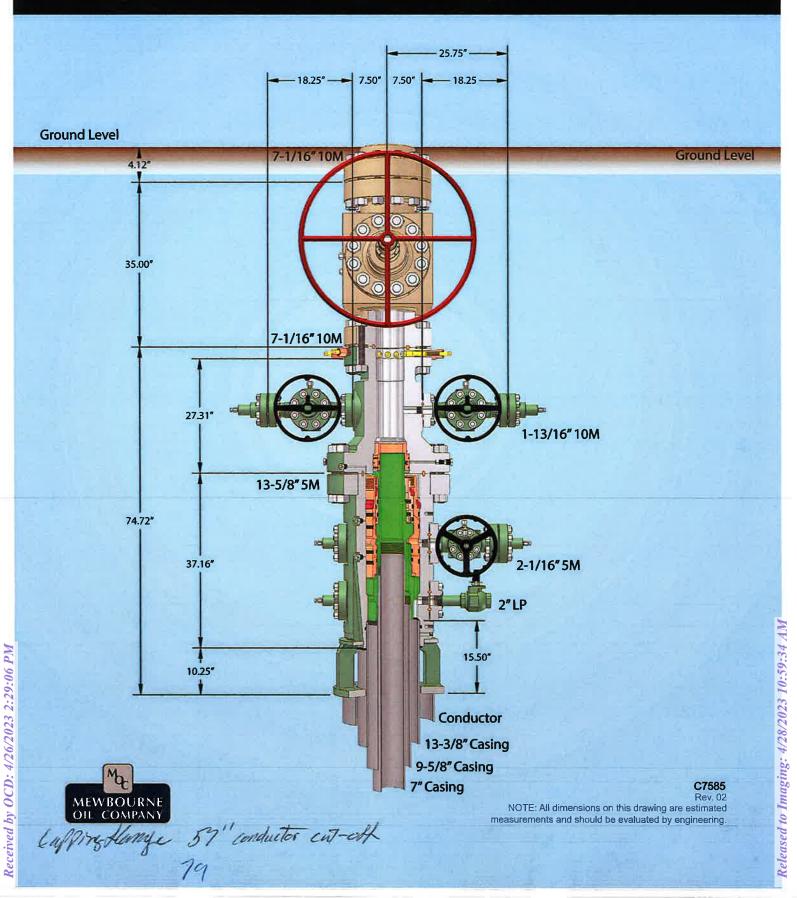
Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	1 1000	Signature :	THE T
	Mossa Nym	/	
	-lee		Form PTC - 01 Rev.0 2
			- Mile

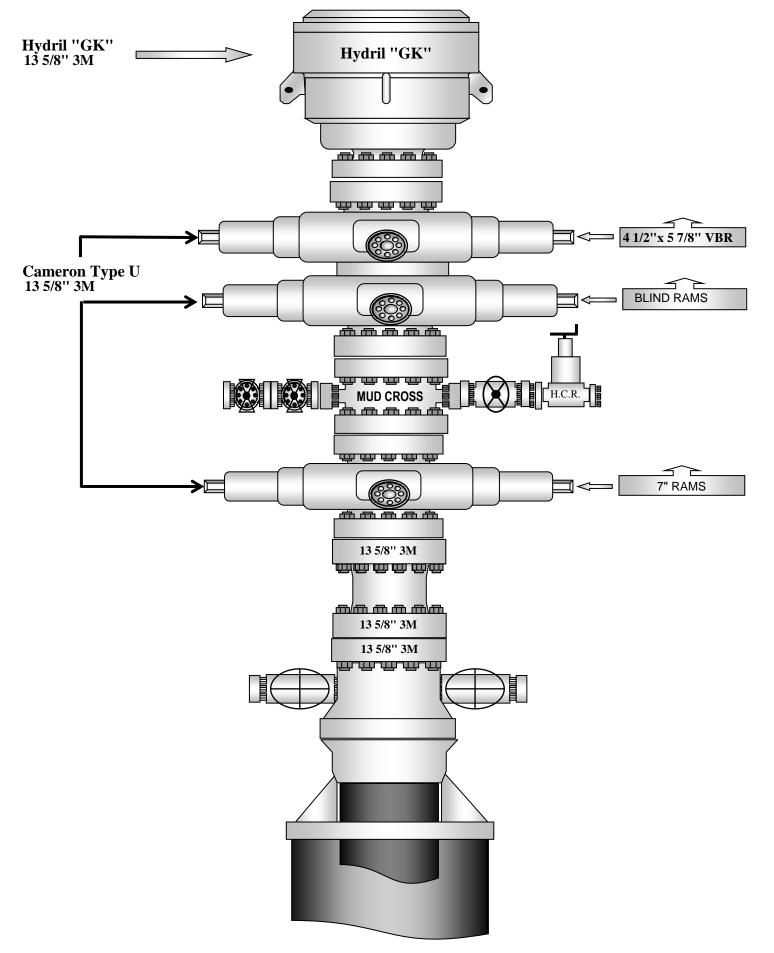




## 13-5/8" MN-DS Wellhead System

30





Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	330'	13.375"	48	H40	STC	5.10	11.46	20.33	34.15
12.25"	0'	1360'	9.625"	36	J55	LTC	2.86	4.98	9.25	11.52
8.75"	0'	8864'	7"	26	P110	LTC	1.49	2.38	3.01	3.60
6.125"	7964'	18464'	4.5"	13.5	P110	LTC	2.42	2.82	2.38	2.98
				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.	Ν
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	330'	13.375"	48	H40	STC	5.10	11.46	20.33	34.15
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				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

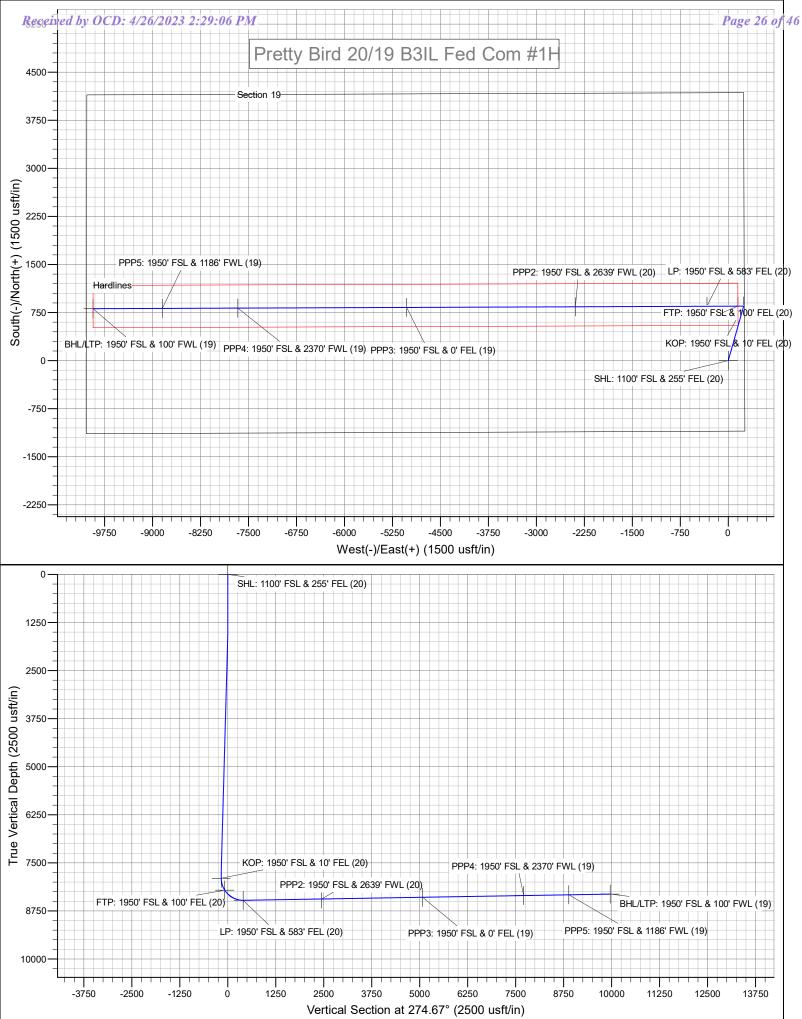
	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Ν
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
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500' into previous casing?	
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500' into previous casing?	
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If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
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If yes, are there three strings cemented to surface?	



# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 Pretty Bird 20/19 B3IL Fed Com #1H Sec. 20, T18S R29E SHL: 1100' FSL & 255' FEL, Sec. 20 BHL: 1950' FSL & 100' FWL, Sec. 19

Plan: Design #1

# **Standard Planning Report**

15 September, 2021

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy Count Pretty Bird 2 Sec. 20, T1	Oil Company y, New Mexico N 20/19 B3IL Fed 0 8S R29E FSL & 100' FWL	Com #1H	T N N	VD Refere ID Referen Iorth Refer	ice:		Site Pretty Bird WELL @ 3539 WELL @ 3539 Grid Minimum Curv	.0usft (Origina .0usft (Origina	l Well Elev)
Geo Datum.	Eddy County US State Plan North America New Mexico E	n Datum 1983	AD 83	Sy	stem Datu	m:	G	round Level		
Site	Pretty Bird 20	0/19 B3IL Fed C	om #1H							
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:		616,42	30.00 usft 21.00 usft -3/16 "	Latitude: Longitude:			32.7287299 -104.0891686
Well	Sec. 20, T18	S R29E								
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:			628,930.00 616,421.00		titude: ngitude:		32.7287299 -104.0891686
Position Uncertainty Grid Convergence:		0.0 usft 0.13 °	Wellhead El	evation:		3,539.0	usft Gr	ound Level:		3,511.0 usft
Wellbore	BHL: 1950' I	FSL & 100' FWL	, Sec. 19							
Magnetics	Model N	ame	Sample Date		Declinati (°)	on	-	Angle (°)	Field	Strength (nT)
	IG	GRF2010	12/31/2014	1		7.43		60.48	48	,482.80585630
Design	Design #1									
Audit Notes:										
Version:			Phase:	PROT	OTYPE	Tie	On Depth:		0.0	
Vertical Section:		(1	rom (TVD) usft) 0.0		+N/-S (usft) 0.0	(u:	/-W sft) .0		i <b>rection</b> (°) 274.67	
Plan Survey Tool Pro	-	<b>Date</b> 9/15/2								
Depth From (usft)	Depth To (usft)	Survey (Wellb	ore)	Tool	Name		Remarks			
1 0.0	0.0	Design #1 (BH	L: 1950' FSL & 10	00						
Plan Sections										
Measured		Vertio nuth Dep	th +N/-S		E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	
(usft) (	°) (	°) (ust	ft) (usft)	(ι	isft) (	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target

9/15/2021 5:05:34PM

.

Database:	Hobbs	Local Co-ordinate Reference:	Site Pretty Bird 20/19 B3IL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3539.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3539.0usft (Original Well Elev)
Site:	Pretty Bird 20/19 B3IL Fed Com #1H	North Reference:	Grid
Well:	Sec. 20, T18S R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1950' FSL & 100' FWL, Sec. 19		
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 & 255' FEL (2								
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
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
1,200.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,360.0	0.00	0.00	1,360.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.80	15.81	1,400.0	0.3	0.1	-0.1	2.00	2.00	0.00
1,500.0	2.80	15.81	1,499.9	3.3	0.9	-0.7	2.00	2.00	0.00
1,600.0	4.80	15.81	1,599.7	9.7	2.7	-1.9	2.00	2.00	0.00
1,700.0	6.80	15.81	1,699.2	19.4	5.5	-3.9	2.00	2.00	0.00
1,770.5	8.21	15.81	1,769.1	28.2	8.0	-5.7	2.00	2.00	0.00
1,800.0	8.21	15.81	1,798.3	32.3	9.1	-6.5	0.00	0.00	0.00
1,900.0	8.21	15.81	1,897.3	46.0	13.0	-9.2	0.00	0.00	0.00
2,000.0	8.21	15.81	1,996.2	59.8	16.9	-12.0	0.00	0.00	0.00
2,100.0	8.21	15.81	2,095.2	73.5	20.8	-14.8	0.00	0.00	0.00
2,200.0	8.21	15.81	2,194.2	87.3	24.7	-17.5	0.00	0.00	0.00
2 200 0	0.01	15.01	2 202 2	101.0	29.6	20.2	0.00	0.00	0.00
2,300.0	8.21 8.21	15.81 15.81	2,293.2 2,392.1	101.0 114.7	28.6 32.5	-20.3 -23.0	0.00	0.00	0.00
2,400.0									
2,500.0 2,600.0	8.21 8.21	15.81 15.81	2,491.1 2,590.1	128.5 142.2	36.4 40.3	-25.8 -28.6	0.00 0.00	0.00 0.00	0.00 0.00
2,000.0	8.21	15.81	2,689.1	142.2	40.3	-20.0	0.00	0.00	0.00
			2,009.1			-31.3		0.00	
2,800.0	8.21	15.81	2,788.0	169.7	48.1	-34.1	0.00	0.00	0.00
2,900.0	8.21	15.81	2,887.0	183.4	51.9	-36.8	0.00	0.00	0.00
3,000.0	8.21	15.81	2,986.0	197.2	55.8	-39.6	0.00	0.00	0.00
3,100.0	8.21	15.81	3,085.0	210.9	59.7	-42.4	0.00	0.00	0.00
3,200.0	8.21	15.81	3,183.9	224.6	63.6	-45.1	0.00	0.00	0.00
3,300.0	8.21	15.81	3,282.9	238.4	67.5	-47.9	0.00	0.00	0.00
3,400.0	8.21	15.81	3,381.9	252.1	71.4	-50.6	0.00	0.00	0.00
3,500.0	8.21	15.81	3,480.9	265.9	75.3	-53.4	0.00	0.00	0.00
3,600.0	8.21	15.81	3,579.9	279.6	79.2	-56.2	0.00	0.00	0.00
3,700.0	8.21	15.81	3,678.8	293.3	83.1	-58.9	0.00	0.00	0.00
3,800.0	8.21	15.81	3,777.8	307.1	87.0	-61.7	0.00	0.00	0.00
3,900.0	8.21	15.81	3,876.8	320.8	90.9	-64.4	0.00	0.00	0.00
4,000.0	8.21	15.81	3,975.8	334.5	94.7	-67.2	0.00	0.00	0.00
4,100.0	8.21	15.81	4,074.7	348.3	98.6	-70.0	0.00	0.00	0.00
4,200.0	8.21	15.81	4,173.7	362.0	102.5	-72.7	0.00	0.00	0.00
4,300.0	8.21	15.81	4,272.7	375.8	106.4	-75.5	0.00	0.00	0.00
4,400.0	8.21	15.81	4,371.7	389.5	110.3	-78.2	0.00	0.00	0.00
4,500.0	8.21	15.81	4,470.6	403.2	114.2	-81.0	0.00	0.00	0.00
4,600.0	8.21	15.81	4,569.6	417.0	118.1	-83.8	0.00	0.00	0.00
4,700.0	8.21	15.81	4,668.6	430.7	122.0	-86.5	0.00	0.00	0.00
				444.5		-89.3	0.00		0.00
4,800.0	8.21	15.81	4,767.6		125.9			0.00	
4,900.0	8.21	15.81	4,866.5	458.2	129.8	-92.0	0.00	0.00	0.00
5,000.0	8.21	15.81	4,965.5	471.9	133.6	-94.8	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

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	Database:	Hobbs	Local Co-ordinate Reference:	Site Pretty Bird 20/19 B3IL Fed Com #1H
	Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3539.0usft (Original Well Elev)
	Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3539.0usft (Original Well Elev)
	Site:	Pretty Bird 20/19 B3IL Fed Com #1H	North Reference:	Grid
	Well:	Sec. 20, T18S R29E	Survey Calculation Method:	Minimum Curvature
	Wellbore:	BHL: 1950' FSL & 100' FWL, Sec. 19		
	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)
5,100.0	8.21	15.81	5,064.5	485.7	137.5	-97.5	0.00	0.00	0.00
5,200.0	8.21	15.81	5,163.5	499.4	141.4	-100.3	0.00	0.00	0.00
5,300.0	8.21	15.81	5,262.4	513.1	145.3	-103.1	0.00	0.00	0.00
5,400.0	8.21	15.81	5,361.4	526.9	149.2	-105.8	0.00	0.00	0.00
5,500.0	8.21	15.81	5,460.4	540.6	153.1	-108.6	0.00	0.00	0.00
5,600.0	8.21	15.81	5,559.4	554.4	157.0	-111.3	0.00	0.00	0.00
5,700.0	8.21	15.81	5,658.3	568.1	160.9	-114.1	0.00	0.00	0.00
5,800.0	8.21	15.81	5,757.3	581.8	164.8	-116.9	0.00	0.00	0.00
5,900.0	8.21	15.81	5,856.3	595.6	168.7	-119.6	0.00	0.00	0.00
6,000.0	8.21	15.81	5,955.3	609.3	172.6	-122.4	0.00	0.00	0.00
6,100.0	8.21	15.81	6,054.2	623.1	176.4	-125.1	0.00	0.00	0.00
6,200.0	8.21	15.81	6,153.2	636.8	180.3	-127.9	0.00	0.00	0.00
6,300.0	8.21	15.81	6,252.2	650.5	184.2	-130.7	0.00	0.00	0.00
6,400.0	8.21	15.81	6,351.2	664.3	188.1	-133.4	0.00	0.00	0.00
6,500.0	8.21	15.81	6,450.1	678.0	192.0	-136.2	0.00	0.00	0.00
6,600.0	8.21	15.81	6,549.1	691.7	195.9	-138.9	0.00	0.00	0.00
6,700.0	8.21	15.81	6,648.1	705.5	199.8	-141.7	0.00	0.00	0.00
6,800.0	8.21	15.81	6,747.1	719.2	203.7	-144.5	0.00	0.00	0.00
6,900.0	8.21	15.81	6,846.0	733.0	207.6	-147.2	0.00	0.00	0.00
7,000.0	8.21	15.81	6,945.0	746.7	211.5	-150.0	0.00	0.00	0.00
7,100.0	8.21	15.81	7,044.0	760.4	215.4	-152.7	0.00	0.00	0.00
7,200.0	8.21	15.81	7,143.0	774.2	219.2	-155.5	0.00	0.00	0.00
7,300.0	8.21	15.81	7,241.9	787.9	223.1	-158.3	0.00	0.00	0.00
7,400.0	8.21	15.81	7,340.9	801.7	227.0	-161.0	0.00	0.00	0.00
7,500.0	8.21	15.81	7,439.9	815.4	230.9	-163.8	0.00	0.00	0.00
7,553.6	8.21	15.81	7,492.9	822.8	233.0	-165.3	0.00	0.00	0.00
7,600.0	7.28	15.81	7,538.9	828.8	234.7	-166.5	2.00	-2.00	0.00
7,700.0	5.28	15.81	7,638.3	839.3	237.7	-168.6	2.00	-2.00	0.00
7,800.0	3.28	15.81	7,738.0	846.5	239.7	-170.0	2.00	-2.00	0.00
7,900.0	1.28	15.81	7,837.9	850.3	240.8	-170.8	2.00	-2.00	0.00
7,964.1	0.00	0.00	7,902.0	851.0	241.0	-170.9	2.00	-2.00	0.00
	SL & 10' FEL (2		7,002.0	001.0	241.0	-170.5	2.00	-2.00	0.00
8,000.0	3.59	269.77	7,937.9	851.0	239.9	-169.8	10.00	10.00	0.00
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8,050.0	8.59	269.77	7,987.6	851.0	234.6	-164.5	10.00	10.00	0.00
8,100.0	13.59	269.77	8,036.7	850.9	225.0	-154.9	10.00	10.00	0.00
8,150.0	18.59	269.77	8,084.7	850.9	211.1	-141.1	10.00	10.00	0.00
8,200.0	23.59	269.77	8,131.3	850.8	193.1	-123.2	10.00	10.00	0.00
8,250.0	28.59	269.77	8,176.2	850.7	171.1	-101.3	10.00	10.00	0.00
8,289.6	32.55	269.77	8,210.3	850.6	151.0	-81.3	10.00	10.00	0.00
	SL & 100' FEL (2	•							
8,300.0	33.59	269.77	8,219.0	850.6	145.3	-75.6	10.00	10.00	0.00
8,350.0	38.59	269.77	8,259.4	850.5	115.9	-46.3	10.00	10.00	0.00
8,400.0	43.58	269.77	8,297.1	850.4	83.0	-13.5	10.00	10.00	0.00
8,450.0	48.58	269.77	8,331.8	850.2	47.0	22.3	10.00	10.00	0.00
8,500.0	53.58	269.77	8,363.2	850.1	8.1	61.1	10.00	10.00	0.00
8,550.0	58.58	269.77	8,391.1	849.9	-33.3	102.4	10.00	10.00	0.00
8,600.0	63.58	269.77	8,415.2	849.7	-77.1	146.0	10.00	10.00	0.00
8,650.0	68.58	269.77	8,435.5	849.6	-122.8	191.5	10.00	10.00	0.00
8,700.0	73.58	269.77	8,451.7	849.4	-170.1	238.6	10.00	10.00	0.00
8,750.0		269.77		849.2		287.0			
	78.58		8,463.7		-218.6		10.00	10.00	0.00
8,800.0	83.58	269.77	8,471.5	849.0	-268.0	336.2	10.00	10.00	0.00
8,850.0	88.57	269.77	8,474.9	848.8	-317.8	385.9	10.00	10.00	0.00
8,864.2	89.99	269.77	8,475.1	848.7	-332.0	400.0	10.00	10.00	0.00

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Database:	Hobbs	Local Co-ordinate Reference:	Site Pretty Bird 20/19 B3IL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3539.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3539.0usft (Original Well Elev)
Site:	Pretty Bird 20/19 B3IL Fed Com #1H	North Reference:	Grid
Well:	Sec. 20, T18S R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1950' FSL & 100' FWL, Sec. 19		
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)
L P: 1950' FS	SL & 583' FEL (20								
8,873.9	90.96	269.77	8,475.0	848.7	-341.7	409.6	10.00	10.00	0.00
	00.00								0.00
8,900.0	90.96	269.77	8,474.6	848.6	-367.8	435.7	0.00	0.00	0.00
9,000.0	90.96	269.77	8,472.9	848.2	-467.8	535.3	0.00	0.00	0.00
9,100.0	90.96	269.77	8,471.2	847.8	-567.8	634.9	0.00	0.00	0.00
9,200.0	90.96	269.77	8,469.5	847.4	-667.8	734.5	0.00	0.00	0.00
9,300.0	90.96	269.77	8,467.8	847.0	-767.8	834.2	0.00	0.00	0.00
9,400.0	90.96	269.77	8,466.2	846.6	-867.7	933.8	0.00	0.00	0.00
9,500.0	90.96	269.77	8,464.5	846.2	-967.7	1,033.4	0.00	0.00	0.00
9,600.0	90.96	269.77	8,462.8	845.9	-1,067.7	1,133.0	0.00	0.00	0.00
9,700.0	90.96	269.77	8,461.1	845.5	-1,167.7	1,232.6	0.00	0.00	0.00
9,800.0	90.96	269.77	8,459.5	845.1	-1,267.7	1,332.3	0.00	0.00	0.00
9,900.0	90.96	269.77	8,457.8	844.7	-1,367.7	1,431.9	0.00	0.00	0.00
10,000.0	90.96	269.77	8,456.1	844.3	-1,467.7	1,431.9	0.00	0.00	0.00
10,100.0	90.96	269.77	8,454.4	843.9	-1,567.6	1,631.1	0.00	0.00	0.00
10,200.0	90.96	269.77	8,452.7	843.5	-1,667.6	1,730.7	0.00	0.00	0.00
10,200.0	90.96	269.77	8,451.1	843.1	-1,767.6	1,830.4	0.00	0.00	0.00
10,300.0			0,431.1		-1,707.0	1,030.4			
10,400.0	90.96	269.77	8,449.4	842.7	-1,867.6	1,930.0	0.00	0.00	0.00
10,500.0	90.96	269.77	8,447.7	842.3	-1,967.6	2,029.6	0.00	0.00	0.00
10,600.0	90.96	269.77	8,446.0	841.9	-2,067.6	2,129.2	0.00	0.00	0.00
10,700.0	90.96	269.77	8,444.3	841.5	-2,167.5	2,228.9	0.00	0.00	0.00
10,800.0	90.96	269.77	8,442.7	841.1	-2,267.5	2,328.5	0.00	0.00	0.00
10,900.0	90.96	269.77	8.441.0	840.7	-2,367.5	2,428.1	0.00	0.00	0.00
10,920.5	90.96	269.77	8,440.6	840.7	-2,388.0	2,448.5	0.00	0.00	0.00
	FSL & 2639' FW		0,11010	0.011	2,000.0	2,110.0	0.00	0.00	0.00
11,000.0	90.96	269.77	8,439.3	840.3	-2,467.5	2,527.7	0.00	0.00	0.00
11,100.0	90.96	269.77	8,437.6	840.0	-2,567.5	2,627.3	0.00	0.00	0.00
11,200.0	90.96	269.77	8,435.9	839.6	-2,667.5	2,727.0	0.00	0.00	0.00
11,300.0	90.96	269.77	8,434.3	839.2	-2,767.5	2,826.6	0.00	0.00	0.00
11,400.0	90.96	269.77	8,432.6	838.8	-2,867.4	2,926.2	0.00	0.00	0.00
11,500.0	90.96	269.77	8,430.9	838.4	-2,967.4	3,025.8	0.00	0.00	0.00
11,600.0	90.96	269.77	8,429.2	838.0	-3,067.4	3,125.4	0.00	0.00	0.00
11,700.0	90.96	269.77	8,427.6	837.6	-3,167.4	3,225.1	0.00	0.00	0.00
11,800.0	90.96	269.77	8,425.9	837.2	-3,267.4	3,324.7	0.00	0.00	0.00
11,900.0	90.96	269.77	8,424.2	836.8	-3,367.4	3,424.3	0.00	0.00	0.00
12,000.0	90.96	269.77	8,422.5	836.4	-3,467.4	3,523.9	0.00	0.00	0.00
12,100.0	90.96	269.77	8,420.8	836.0	-3,567.3	3,623.6	0.00	0.00	0.00
12,200.0	90.96	269.77	8,419.2	835.6	-3,667.3	3,723.2	0.00	0.00	0.00
12,300.0	90.96	269.77	8,417.5	835.2	-3,767.3	3,822.8	0.00	0.00	0.00
12,400.0	90.96	269.77	8,415.8	834.8	-3,867.3	3,922.4	0.00	0.00	0.00
12,500.0	90.96	269.77	8,414.1	834.4	-3,967.3	4,022.0	0.00	0.00	0.00
12,600.0	90.96	269.77	8,412.4	834.1	-4,067.3	4,121.7	0.00	0.00	0.00
12,700.0	90.96	269.77	8,410.8	833.7	-4,167.3	4,221.3	0.00	0.00	0.00
12,800.0	90.96	269.77	8,409.1	833.3	-4,267.2	4,320.9	0.00	0.00	0.00
12,900.0	90.96	269.77	8,407.4	832.9	-4,367.2	4,420.5	0.00	0.00	0.00
13,000.0	90.96	269.77	8,405.7	832.5	-4,467.2	4,520.1	0.00	0.00	0.00
13,100.0	90.96	269.77	8,404.0	832.1	-4,567.2	4,619.8	0.00	0.00	0.00
13,200.0	90.96	269.77	8,402.4	831.7	-4,667.2	4,719.4	0.00	0.00	0.00
13,300.0	90.96	269.77	8,400.7	831.3	-4,767.2	4,819.0	0.00	0.00	0.00
13,400.0	90.96	269.77	8,399.0	830.9	-4,867.1	4,918.6	0.00	0.00	0.00
13,500.0	90.96	269.77	8,397.3	830.5	-4,967.1	5,018.3	0.00	0.00	0.00
13,559.9	90.96	269.77	8,396.3	830.3	-5,027.0	5,077.9	0.00	0.00	0.00

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Database:	Hobbs	Local Co-ordinate Reference:	Site Pretty Bird 20/19 B3IL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3539.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3539.0usft (Original Well Elev)
Site:	Pretty Bird 20/19 B3IL Fed Com #1H	North Reference:	Grid
Well:	Sec. 20, T18S R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1950' FSL & 100' FWL, Sec. 19		
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)
13,600.0	90.96	269.77	8,395.7	830.1	-5,067.1	5,117.9	0.00	0.00	0.00
13,700.0	90.96	269.77	8,394.0	829.7	-5,167.1	5,217.5	0.00	0.00	0.00
13,800.0	90.96 90.96	269.77	8,394.0	829.7	-5,267.1	5,217.5	0.00	0.00	0.00
13,900.0	90.96	269.77	8,390.6	828.9	-5,367.1	5,416.7	0.00	0.00	0.00
14,000.0	90.96	269.77	8,388.9	828.6		5,516.4	0.00	0.00	0.00
		269.77			-5,467.1		0.00		
14,100.0	90.96	209.77	8,387.3	828.2	-5,567.0	5,616.0	0.00	0.00	0.00
14,200.0	90.96	269.77	8,385.6	827.8	-5,667.0	5,715.6	0.00	0.00	0.00
14,300.0	90.96	269.77	8,383.9	827.4	-5,767.0	5,815.2	0.00	0.00	0.00
14,400.0	90.96	269.77	8,382.2	827.0	-5,867.0	5,914.8	0.00	0.00	0.00
14,500.0	90.96	269.77	8,380.5	826.6	-5,967.0	6,014.5	0.00	0.00	0.00
14,600.0	90.96	269.77	8,378.9	826.2	-6,067.0	6,114.1	0.00	0.00	0.00
	00.00	000 77			0 407 0	0.040.7	0.00	0.00	0.00
14,700.0	90.96	269.77	8,377.2	825.8	-6,167.0	6,213.7	0.00	0.00	0.00
14,800.0	90.96	269.77	8,375.5	825.4	-6,266.9	6,313.3	0.00	0.00	0.00
14,900.0	90.96	269.77	8,373.8	825.0	-6,366.9	6,413.0	0.00	0.00	0.00
15,000.0	90.96	269.77	8,372.1	824.6	-6,466.9	6,512.6	0.00	0.00	0.00
15,100.0	90.96	269.77	8,370.5	824.2	-6,566.9	6,612.2	0.00	0.00	0.00
15,200.0	90.96	269.77	8,368.8	823.8	-6,666.9	6,711.8	0.00	0.00	0.00
15,300.0	90.96	269.77	8,367.1	823.4	-6,766.9	6,811.4	0.00	0.00	0.00
15,400.0	90.96	269.77	8,365.4	823.0	-6,866.8	6,911.1	0.00	0.00	0.00
15,500.0	90.96	269.77	8,363.8	822.7	-6,966.8	7,010.7	0.00	0.00	0.00
15,600.0	90.96	269.77	8,362.1	822.3	-7,066.8	7,110.3	0.00	0.00	0.00
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15,700.0	90.96	269.77	8,360.4	821.9	-7,166.8	7,209.9	0.00	0.00	0.00
15,800.0	90.96	269.77	8,358.7	821.5	-7,266.8	7,309.5	0.00	0.00	0.00
15,900.0	90.96	269.77	8,357.0	821.1	-7,366.8	7,409.2	0.00	0.00	0.00
16,000.0	90.96	269.77	8,355.4	820.7	-7,466.8	7,508.8	0.00	0.00	0.00
16,100.0	90.96	269.77	8,353.7	820.3	-7,566.7	7,608.4	0.00	0.00	0.00
16,199.3	90.96	269.77	8,352.0	819.9	-7,666.0	7,707.3	0.00	0.00	0.00
PPP4: 1950	' FSL & 2370' FW	'L (19)							
16,200.0	90.96	269.77	8,352.0	819.9	-7,666.7	7,708.0	0.00	0.00	0.00
16,300.0	90.96	269.77	8,350.3	819.5	-7,766.7	7,807.6	0.00	0.00	0.00
16,400.0	90.96	269.77	8,348.6	819.1	-7,866.7	7,907.3	0.00	0.00	0.00
16,500.0	90.96	269.77	8,347.0	818.7	-7,966.7	8,006.9	0.00	0.00	0.00
16,600.0	90.96	269.77	8,345.3	818.3	-8,066.7	8,106.5	0.00	0.00	0.00
16,700.0	90.96	269.77	8,343.6	817.9	-8,166.7	8,206.1	0.00	0.00	0.00
16,800.0	90.96	269.77	8,341.9	817.5	-8,266.6	8,305.8	0.00	0.00	0.00
16,900.0	90.96	269.77	8,340.3	817.1	-8,366.6	8,405.4	0.00	0.00	0.00
17,000.0	90.96	269.77	8,338.6	816.8	-8,466.6	8,505.0	0.00	0.00	0.00
17,100.0	90.96	269.77	8,336.9	816.4	-8,566.6	8,604.6	0.00	0.00	0.00
17,200.0	90.96	269.77	8,335.2	816.0	-8,666.6	8,704.2	0.00	0.00	0.00
17,300.0	90.96	269.77	8,333.5	815.6	-8,766.6	8,803.9	0.00	0.00	0.00
17,381.4	90.96	269.77	8,332.2	815.3	-8,848.0	8,885.0	0.00	0.00	0.00
	' FSL & 1186' FW		5,00L.L	510.0	0,010.0	0,000.0	0.00	0.00	0.00
17,400.0	90.96	269.77	8,331.9	815.2	-8,866.6	8,903.5	0.00	0.00	0.00
17,500.0	90.96	269.77	8,330.2	814.8	-8,966.5	9,003.1	0.00	0.00	0.00
17,600.0	90.96	269.77	8,328.5	814.4	-9,066.5	9,102.7	0.00	0.00	0.00
17,700.0	90.96	269.77	8,326.8	814.0	-9,166.5	9,202.3	0.00	0.00	0.00
17,800.0	90.96	269.77	8,325.1	813.6	-9,266.5	9,302.0	0.00	0.00	0.00
17,900.0	90.96	269.77	8,323.5	813.2	-9,366.5	9,401.6	0.00	0.00	0.00
18,000.0	90.96	269.77	8,321.8	812.8	-9,466.5	9,501.2	0.00	0.00	0.00
18,100.0	90.96	269.77	8,320.1	812.4	-9,566.4	9,600.8	0.00	0.00	0.00
18,200.0	90.96	269.77	8,318.4	812.0	-9,666.4	9,700.5	0.00	0.00	0.00
18,300.0	90.96	269.77	8,316.7	811.6	-9,766.4	9,800.1	0.00	0.00	0.00
18,400.0	90.96	269.77	8,315.1	811.3	-9,866.4	9,899.7	0.00	0.00	0.00

9/15/2021 5:05:34PM

Database:	Hobbs	Local Co-ordinate Reference:	Site Pretty Bird 20/19 B3IL Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3539.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3539.0usft (Original Well Elev)
Site:	Pretty Bird 20/19 B3IL Fed Com #1H	North Reference:	Grid
Well:	Sec. 20, T18S R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1950' FSL & 100' FWL, Sec. 19	-	
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)
18.463.6	90.96	269.77	8,314.0	811.0	-9,930.0	9,963.1	0.00	0.00	0.00

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: 1100' FSL & 255' F - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	628,930.00	616,421.00	32.7287299	-104.0891686
KOP: 1950' FSL & 10' FI - plan hits target cent - Point	0.00 er	0.00	7,902.0	851.0	241.0	629,781.00	616,662.00	32.7310675	-104.0883785
FTP: 1950' FSL & 100' F - plan hits target cent - Point	0.00 er	0.00	8,210.3	850.6	151.0	629,780.65	616,572.00	32.7310671	-104.0886712
BHL/LTP: 1950' FSL & 1 - plan hits target cent - Point	0.00 er	0.00	8,314.0	811.0	-9,930.0	629,741.00	606,491.00	32.7310178	-104.1214546
PPP5: 1950' FSL & 118€ - plan hits target cent - Point	0.00 er	0.00	8,332.2	815.3	-8,848.0	629,745.26	607,573.00	32.7310235	-104.1179359
PPP4: 1950' FSL & 237( - plan hits target cent - Point	0.00 er	0.00	8,352.0	819.9	-7,666.0	629,749.91	608,755.00	32.7310296	-104.1140920
PPP3: 1950' FSL & 0' Ft - plan hits target cent - Point	0.00 er	0.00	8,396.3	830.3	-5,027.0	629,760.29	611,394.00	32.7310428	-104.1055100
PPP2: 1950' FSL & 263§ - plan hits target cent - Point	0.00 er	0.00	8,440.6	840.7	-2,388.0	629,770.66	614,033.00	32.7310555	-104.0969280
LP: 1950' FSL & 583' FE - plan hits target cent - Point	0.00 er	0.00	8,475.1	848.7	-332.0	629,778.75	616,089.00	32.7310649	-104.0902419

Intent	Х	As Drilled
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API #		
Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Pretty Bird 20/19 B3IL Fed Com	1H

## Kick Off Point (KOP)

UL I	Section 20	Township 18S	Range 29E	Lot	Feet 1950	From N/S S	Feet 10	From E/W E	County EDDY
Latitu 32.7	<sup>de</sup> 731067	5			Longitude -104.088	3785			NAD 83

#### First Take Point (FTP)

	ownship 8 <b>S</b>	Range 29E	Lot	Feet 1950	From N/S S	Feet 100	From E/W E	County EDDY
Latitude 32.7310671				Longitude -104.088	86712			NAD 83

## Last Take Point (LTP)

UL 3	Section 19	Township 18S	Range 29E	Lot	<sup>Feet</sup> 1950	From N/S S	Feet 100	From E/W W	County EDDY
Latitu	de				Longitud	le			NAD
32.7	731017	78			-104.	1214546	;		83

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

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

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Mewbourne Oil Company
LEASE NO.:	NMLC067132
WELL NAME & NO.:	PRETTY BIRD 20-19 B3IL FED COM 1H
SURFACE HOLE FOOTAGE:	1100'/S & 255'/E
<b>BOTTOM HOLE FOOTAGE</b>	1950'/S & 100'/W
LOCATION:	Section 20, T.18 S., R.29 E., NMP
COUNTY:	EDDY County, New Mexico

## COA

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

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the undesignated formation Loco Hills, North Turkey Track, and Atoka pools. 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 **13-3/8** inch surface casing shall be set at approximately **330** 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  $\underline{8}$ <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 **9-5/8** inch intermediate casing shall be set at approximately **1,360** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Excess cement calculates to 22%, additional cement might be required
- 3. The minimum required fill of cement behind the 7 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. 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 **3000** (**3M**) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

## **D. SPECIAL REQUIREMENT (S)**

## **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

## **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.

Page 3 of 7

- 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 2<sup>nd</sup> 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 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.

## OTA04122023

### 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 <sup>nd</sup> Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	<b>Robin Terrell</b>	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: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGEWaste content description: Garbage & TrashAmount of waste: 1500poundsWaste disposal frequency : One Time OnlySafe 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 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 **Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: PRETTY BIRD 20/19 B3IL FED COM

Well Number: 1H

## **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PrettyBird20\_19B3ILFedCom1H\_wellsitelayout\_20210817104624.pdf

Comments:

## **Section 10 - Plans for Surface**

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Pretty Bird 20/19 B3IL & B3PM Fed Com wells Multiple Well Pad Number: 2

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 4.44	Well pad interim reclamation (acres): 0.62	Well pad long term disturbance (acres): 3.82
Road proposed disturbance (acres): 1.44	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): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 2	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 7.880000000000001	Total interim reclamation: 0.62	Total long term disturbance: 3.82

**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 ration, 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 see the area, the proper BLM seed mixture, free of noxious weeks, will be used.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

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Action 211082

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	211082
	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

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