Form 3160-3 (June 2015)				APPROV o. 1004-0 nuary 31,	137		
UNITED STATES DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE		5. Lease Serial No. NMNM027507					
APPLICATION FOR PERMIT TO DRIL	L OR REENTER		6. If Indian, Allotee or Tribe Name				
1a. Type of work: Image: DRILL Image: REENT	TER		7. If Unit or CA Agr	eement, l	Name and No.		
1b. Type of Well: Image: Control of Well Image: Gas Well Other			8. Lease Name and	Well No.			
1c. Type of Completion: Hydraulic Fracturing Image: Single in the second secon	Zone Multiple Zone		RED HILLS WEST	22 B2N			
2. Name of Operator MEWBOURNE OIL COMPANY [14744]			9. API Well No.		025-50993		
	Phone No. <i>(include area code</i> 5) 393-5905)	10. Field and Pool, o WC-025 G-08 S25				
 Location of Well (Report location clearly and in accordance with a At surface SESW / 250 FSL / 1550 FWL / LAT 32.0215577 At proposed prod. zone NENW / 100 FNL / 2220 FWL / LAT 3 	/ LONG -103.6663641	642309	11. Sec., T. R. M. or SEC 22/T26S/R32		Survey or Area		
14. Distance in miles and direction from nearest town or post office* 10 miles			12. County or Parish LEA	1	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16.		17. Spacii 640.0	ng Unit dedicated to the	his well			
18. Distance from proposed location* 19. to nearest well, drilling, completed, and the second	· · · · · · · ·	20. BLM/ FED: NN	BIA Bond No. in file 1 1693				
	Approximate date work will s 25/2021	tart*	23. Estimated durati 60 days	on			
24	. Attachments						
 The following, completed in accordance with the requirements of Ons (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lat SUPO must be filed with the appropriate Forest Service Office). 	4. Bond to cover the Item 20 above). ds, the 5. Operator certifica	e operation	Iydraulic Fracturing r s unless covered by ar mation and/or plans as	n existing	bond on file (see		
	BLM.						
25. Signature (Electronic Submission)	Name (Printed/Typed) BRADLEY BISHOP / Ph:	: (575) 39	3-5905	Date 03/30/2	021		
Title Regulatory				-			
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (57	5) 234-59	959	Date 01/17/2	023		
Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office						
Application approval does not warrant or certify that the applicant hole applicant to conduct operations thereon. Conditions of approval, if any, are attached.		ose rights	in the subject lease wi	hich wou	ld entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i of the United States any false, fictitious or fraudulent statements or rep				iny depar	tment or agency		

NGMP Rec 01/18/2023

SL (Continued on page 2) APPROVED WITH CONDITIONS



 District I

 1625 N. French Dr., Hobbs, NM 88240

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

 District II

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283 Fax: (575) 748-9720

 District III

 1000 Rio Brazos Road, Aztec, NM 87410

 Phone: (505) 334-6178 Fax: (505) 334-6170

 District IV

 1220 S. St. Francis Dr., Santa Fe, NM 87505

 Phone: (505) 476-3460 Fax: (505) 476-3462

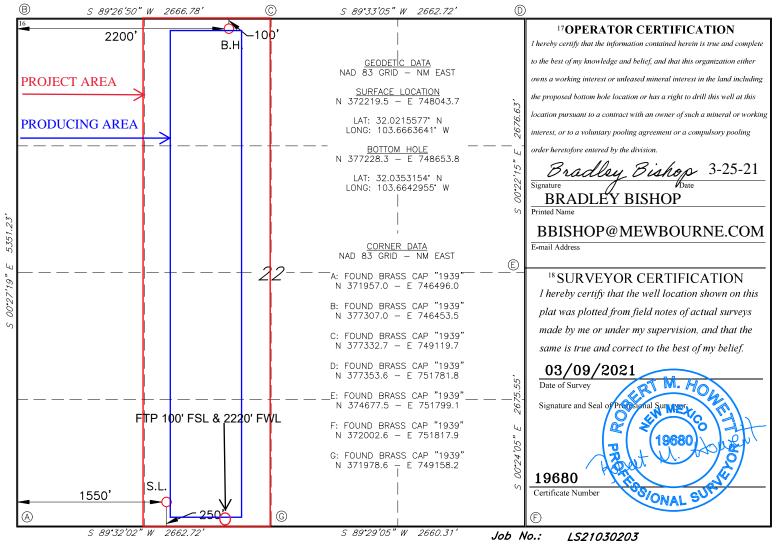
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

		V	WELL LO	OCATIC	ON AND A	CREAGE DE	DICATION PL	AT				
20.025	API Number -50993	r		² Pool Code	e		³ Pool 1	Name				
30-025	-50993			9790	03	WC-025 G-0)8 S253235G;I	OWER	BONE	SPRING		
⁴ Property Co	de					rty Name			(6 Well Number		
333736			RE	ED HILI	LS WEST	22 B2NC F	ED COM			$1 \mathrm{H}$		
7 OGRID 1	NO.				•	tor Name			9	Elevation 3136'		
14744	1		MEWBOURNE OIL COMPANY									
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	ne North/South l	ine Feet From the	East/W	est line	County		
Ν	22	26S	32E		250	SOUTH	1550	WE	ST	LEA		
			¹¹ H	Bottom H	Hole Locat	ion If Differen	t From Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	ne North/South l	ine Feet from the	East/W	est line	County		
С	22	26S	32E		100	NORTH	2200	WE	ST	LEA		
12 Dedicated Acres	s 13 Joint	or Infill 14	Consolidation	Code 15	Order No.							
160												

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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		Stat	• • • • • • • • • • • • • • • • • • •								
	E		te of New Me and Natural Re	x1co sources Departme	ent	Submit Electronically Via E-permitting					
Oil Conservation Division											
			South St. Fran								
		Sar	nta Fe, NM 87	505							
	Ν	ATURAL G	AS MANA	GEMENT P	LAN						
This Natural Gas Mana	gement Plan m	ust be submitted w	ith each Applica	tion for Permit to I	Drill (APD) for a	new or recompleted well.					
			1 – Plan D 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) NMA	C 🗆 19.15.27.9.D(6)(b) NMAC 🗆	Other.					
If Other, please describ	e:										
III Wall(a), Drawida th	a fallowing inf	Equipation for each				he d.:					
be recompleted from a s					vells proposed to	be drilled or proposed to					
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated					
, won rance		oborn	Tootages	Oil BBL/D	Gas MCF/D	Produced Water BBL/D					
Red Hills West 22 B2NC Fed Com 1	μ.	N 22 26S 32E	250' FSL x 1550' F	-v/∟ 1500	3500	3000					
	30-025-50	993									
IV. Central Delivery F	oint Name:	Red Hi	lls West 22 B2N	C Fed Com 1H	[See 1	9.15.27.9(D)(1) NMAC]					
				8							
V. Anticipated Schedu proposed to be recompl					ell or set of wells	s proposed to be drilled or					
Well Name	API	Spud Date	TD Reached	Completion	Initial H	Flow First Production					
		Spue Date	Date	Commencement		Date Date					
Red Hills West 22 B2NC Fed Com 1		- 10 10 0		0/0/00							
	30-025-50	7/2/22 993	8/2/22	9/2/22	9/17/2	2 9/17/22					
	30 023 30			·							
VI. Separation Equip	nent: 🛛 Attach	a complete descrip	otion of how Op	erator will size sepa	aration equipmen	t to optimize gas capture.					
				,	1 1	1 0 1					
VII. Operational Prac Subsection A through F			ription of the ac	tions Operator will	take to comply	with the requirements of					
C											
			te description of	Operator's best m	anagement pract	ices to minimize venting					
during active and plann	eo maintenance	2.									

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.

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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:

Depreter 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 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 Ap	proval:									

Mewbourne Oil Company

Natural Gas Management Plan - Attachment

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

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

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

Received by OCD: 1/18/2023 10:35:52 AM



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

APD ID: 10400070877

Operator Name: MEWBOURNE OIL COMPANY

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Type: OIL WELL

Well Number: 1H Well Work Type: Drill

Submission Date: 03/30/2021

Highlighted data reflects the most recent changes

01/18/2023

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured		Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
1661530	UNKNOWN	3135	28	28	OTHER : Topsoil	NONE	N
1661552	RUSTLER	2581	554	554	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1661542	TOP SALT	2203	932	932	SALT	NONE	N
1661545	BOTTOM SALT	-1083	4218	4218	SALT	NONE	N
1661546	DELAWARE	-1293	4428	4428	LIMESTONE	NATURAL GAS, OIL	N
1661544	BELL CANYON	-1318	4453	4453	SANDSTONE	NATURAL GAS, OIL	N
1661538	CHERRY CANYON	-2373	5508	5508	SANDSTONE	NATURAL GAS, OIL	N
1661539	MANZANITA	-2529	5664	5664	SANDSTONE	NATURAL GAS, OIL	N
1661540	BRUSHY CANYON	-4083	7218	7218	SANDSTONE	NATURAL GAS, OIL	N
1661549	BONE SPRING	-5488	8623	8623	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1661550	BONE SPRING 1ST	-6398	9533	9533	SANDSTONE	NATURAL GAS, OIL	N
1661551	BONE SPRING 2ND	-7128	10263	10263	SANDSTONE	NATURAL GAS, OIL	Ν

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 15572

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.

Well Name: RED HILLS WEST 22 B2NC FED COM

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:

Red_Hills_West_22_B2NC_Fed_Com_1H_Choke_Diagram_20210212135951_20210314140647.pdf

Red_Hills_West_22_B2NC_Fed_Com_1H_Flex_Line_Specs_20210212135951_20210314140647.pdf

Red_Hills_West_22_B2NC_Fed_Com_1H_Flex_Line_Specs_API_16C_20210212135951_20210314140648.pdf

BOP Diagram Attachment:

Red_Hills_West_22_B2NC_Fed_Com_1H_5M_BOPE_Schematic_20210212140010_20210314140711.pdf

Red_Hills_West_22_B2NC_Fed_Com_1H_Multi_Bowl_WH_20210212140010_20210314140711.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	880	0	880	3170	2290	880	H-40	48	ST&C	1.91	4.3	DRY	7.62	DRY	12.8 1
	INTERMED IATE	12.2 5	9.625	NEW	API	Y	0	3452	0	3452		-282	3452	J-55	36	LT&C	1.13	1.96	DRY	2.79	DRY	3.48
	INTERMED IATE	12.2 5	9.625	NEW	API	Y	3452	4400	3452	4400	-216	-1230	948	L-80	40	LT&C	1.35	2.51	DRY	19.1 7	DRY	24.1 6
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10899	0	10545	3236	-7375	10899	P- 110	26	LT&C	1.2	1.91	DRY	2.45	DRY	2.93
5	LINER	6.12 5	4.5	NEW	API	N	10001	15572	9972	10555	-6802	-7385	5571	P- 110	13.5	LT&C	1.95	2.26	DRY	4.49	DRY	5.61

Casing Attachments

Received by OCD: 1/18/2023 10:35:52 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Number: 1H

Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
opeo boounent.		
Tapered String Spec:		
Casing Design Assumptio	ons and Wo	orksheet(s):
Ded Hills West 22		Com 14 Cog Accumptions 20210211112152 pdf
Red_Hills_west_22_t	DZINC_FEQ	_Com_1H_Csg_Assumptions_20210314142453.pdf
Casing ID: 2	String	INTERMEDIATE
-	ounig	
Inspection Document:		
Spec Document:		
Tapered String Spec:		
	B2NC End	_Com_1H_9.625_TAPERED_STRING_DIAGRAM_20210314142529.xlsx
Casing Design Assumptio	ons and Wo	orksheet(s):
Red_Hills_West_22_E	B2NC_Fed_	Com_1H_Csg_Assumptions_20210314142555.pdf
Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Red_Hills_West_22_E	B2NC_Fed_	_Com_1H_9.625_TAPERED_STRING_DIAGRAM_20210314142611.xlsx
Casing Design Assumptio	ons and Wo	prksheet(s):
Red_Hills_West_22_E	B2NC_Fed_	_Com_1H_Csg_Assumptions_20210314142623.pdf

Received by OCD: 1/18/2023 10:35:52 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Number: 1H

Casing Attachments

asing Attachments		
Casing ID: 4	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assum	otions and W	/orksheet(s):
Red_Hills_West_2	2_B2NC_Fee	d_Com_1H_Csg_Assumptions_20210314142754.pdf
Casing ID: 5	String	LINER
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assum	otions and W	/orksheet(s):
Red_Hills_West_2	2_B2NC_Fee	d_Com_1H_Csg_Assumptions_20210314142957.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	NA

SURFACE	Lead	0	690	460	2.12	12.5	975	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	690	880	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	0	3544	680	2.12	12.5	1442	25	Class C	Salt, Gel, Extender, LCM

Well Name: RED HILLS WEST 22 B2NC FED COM

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		3544	4400	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	5660	4200	4768	70	2.12	12.5	148	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		4768	5660	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5660	5660	8387	250	2.12	12.5	530	25	Class C	Salt, Gel, Extender, LCM
PRODUCTION	Tail		8387	1089 9	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1000 1	1557 2	220	2.97	11.2	653	25	Class H	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

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)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	880	SPUD MUD	8.6	8.8							

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
880	4400	SALT SATURATED	10	10							
4400	1000 1	WATER-BASED MUD	8.6	9.5							
1000 1	1557 2	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 from KOP (10001') to surface (horizontal well - vertical portion of hole). Stated logs run will be in completion report and submitted to the BLM

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, GAMMA RAY LOG, COMPENSATED NEUTRON LOG, Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5489

Anticipated Surface Pressure: 3166

Anticipated Bottom Hole Temperature(F): 165

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

Red_Hills_West_22_B2NC_Fed_Com_1H_H2S_Plan_20210212143029_20210314143741.pdf

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Number: 1H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Red_Hills_West_22_B2NC_Fed_Com_1H_Dir_plan_20210314143817.pdf Red_Hills_West_22_B2NC_Fed_Com_1H_Dir_plot_20210314143817.pdf

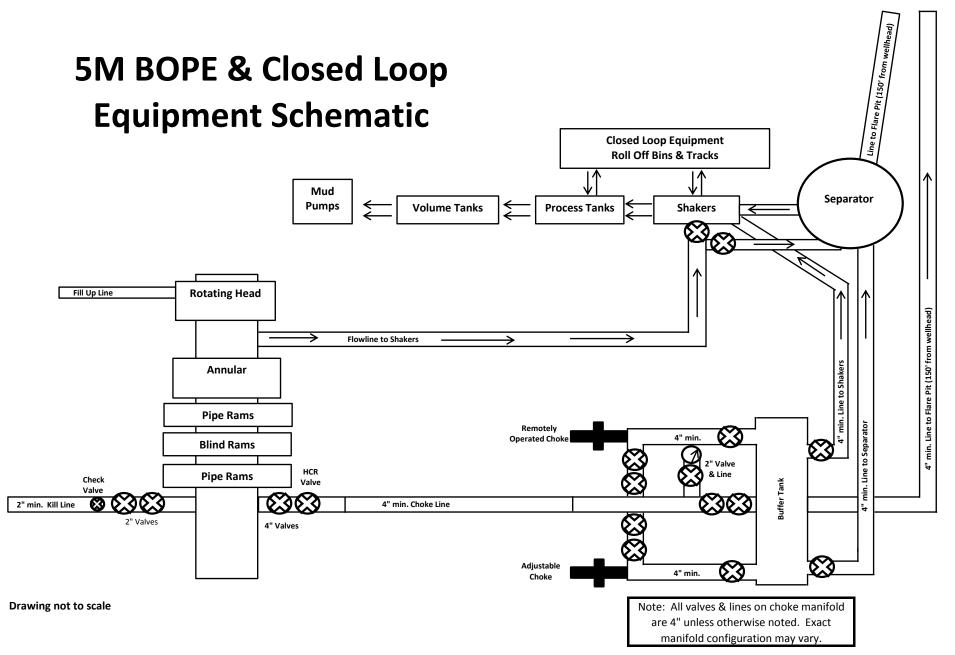
Other proposed operations facets description:

Other proposed operations facets attachment:

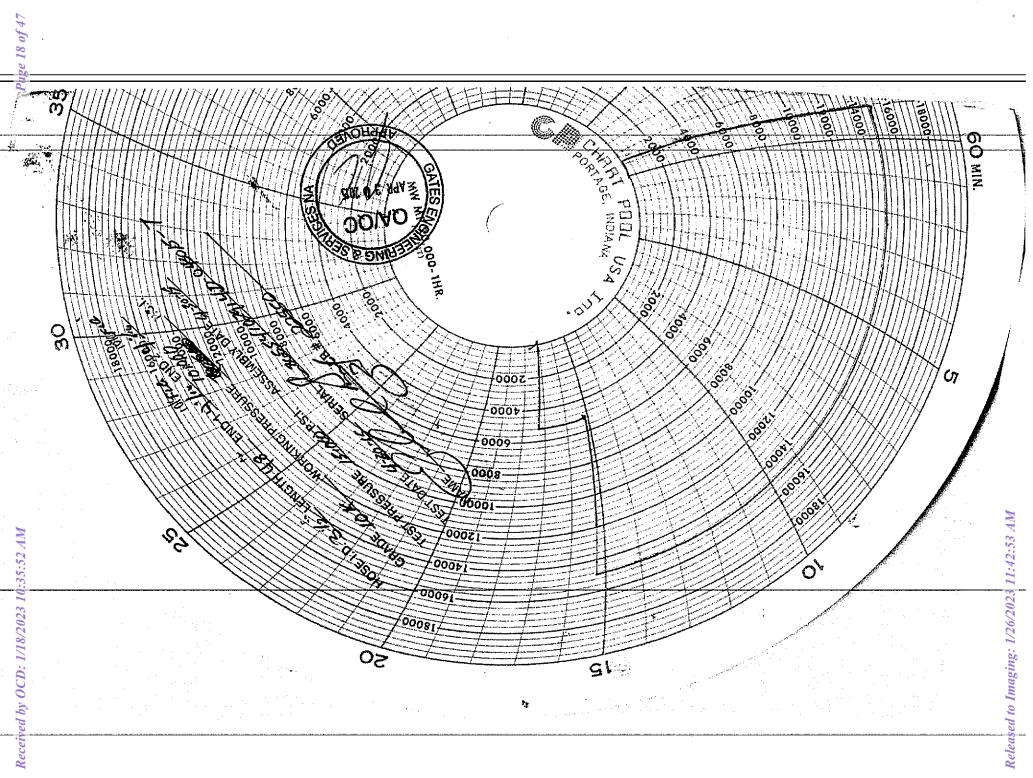
Red_Hills_West_22_B2NC_Fed_Com_1H_Add_Info_20210319102315.pdf

Other Variance attachment:

Page 16 of 47



TITON	ENGINEERING & SERVICES			
GATES E & S NOR 134 44TH STREET CORPUS CHRISTI	1		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.con</i> WEB: www.gates.com	n
10K C	EMENTING ASSEM	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	
				a
Product Description:		10K3.548.0CK4.1/1610KFLG	E/E LE	
			A 1/16 10K 50 C	n
End Fitting 1 :	4 1/16 10K FLG 4773-6290	End Fitting 2 : Assembly Code :	4 1/16 10K FLG L36554102914D-043015-7	
		Assembly Code .		
Gates Part No. : Working Pressure : Gates E & S I	10,000 PSI North America, Inc. certif	Test Pressure : fies that the following he	15,000 PSI ose assembly has been tested to	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement it per API Spec 7K/Q1, Fifth	Test Pressure : fles that the following he t/Specification requirem Edition, June 2010, Tes	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement it per API Spec 7K/Q1, Fifth i in accordance with this pro-	Test Pressure : fles that the following he t/Specification requirem Edition, June 2010, Tes	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes to 15,000 psi	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement it per API Spec 7K/Q1, Fifth i in accordance with this pro-	Test Pressure : fies that the following he t/Specification requirem Edition, June 2010, Tes oduct number. Hose bur	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement it per API Spec 7K/Q1, Fifth i in accordance with this pro- minimum of 2.5 time	Test Pressure : fies that the following he t/Specification requirem Edition, June 2010, Tes oduct number. Hose bur to the working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9.	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes to 15,000 psi	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement ist per API Spec 7K/Q1, Fifth i in accordance with this pro- minimum of 2.5 time	Test Pressure : fies that the following he t/Specification requirem Edition, June 2010, Tes oduct number. Hose bur tes the working pressure Produciton:	ose assembly has been tested to ents 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	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement ist per API Spec 7K/Q1, Fifth i in accordance with this pro- minimum of 2.5 time	Test Pressure : fies that the following he t/Specification requirem Edition, June 2010, Tes oduct number. Hose bur to the working pressure Producton: Date :	ose assembly has been tested to ents and passed the 15 minute st pressure 9.6.7 and per Table 9 st pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION 4/30/2015	
Working Pressure : Gates E & S I the Gates Oil hydrostatic tes to 15,000 psi Quality Manager : Date :	10,000 PSI North America, Inc. certif Ifield Roughneck Agreement ist per API Spec 7K/Q1, Fifth i in accordance with this pro- minimum of 2.5 time	Test Pressure : fies that the following he t/Specification requirem Edition, June 2010, Tes oduct number. Hose bur to the working pressure Producton: Date :	ose assembly has been tested to ents 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	
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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

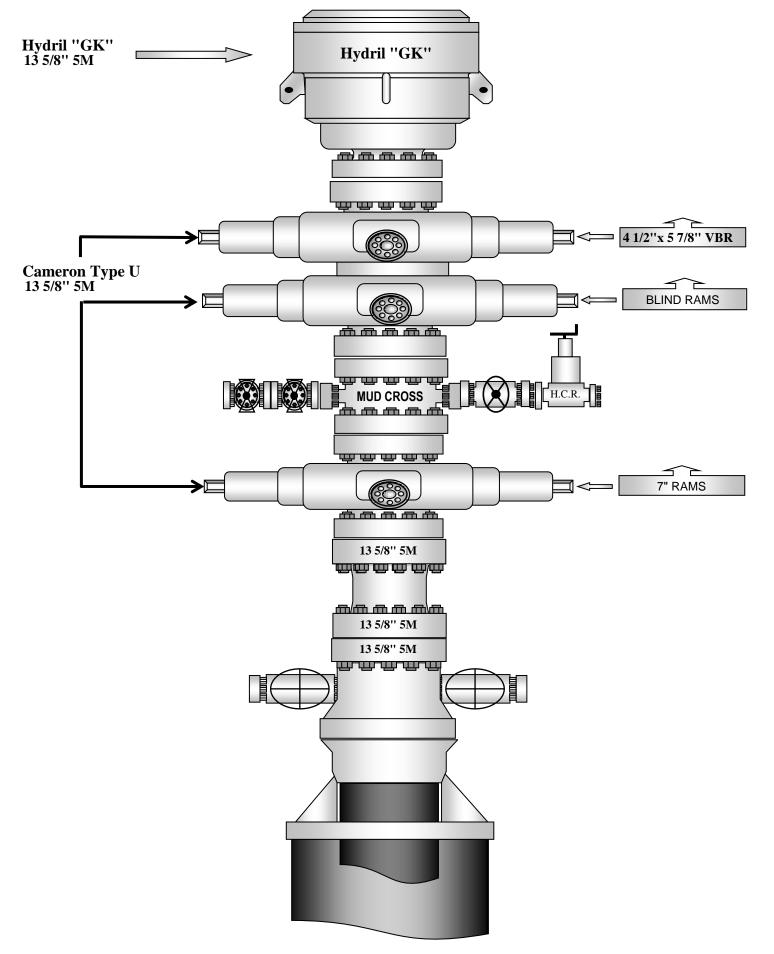
10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

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.	.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

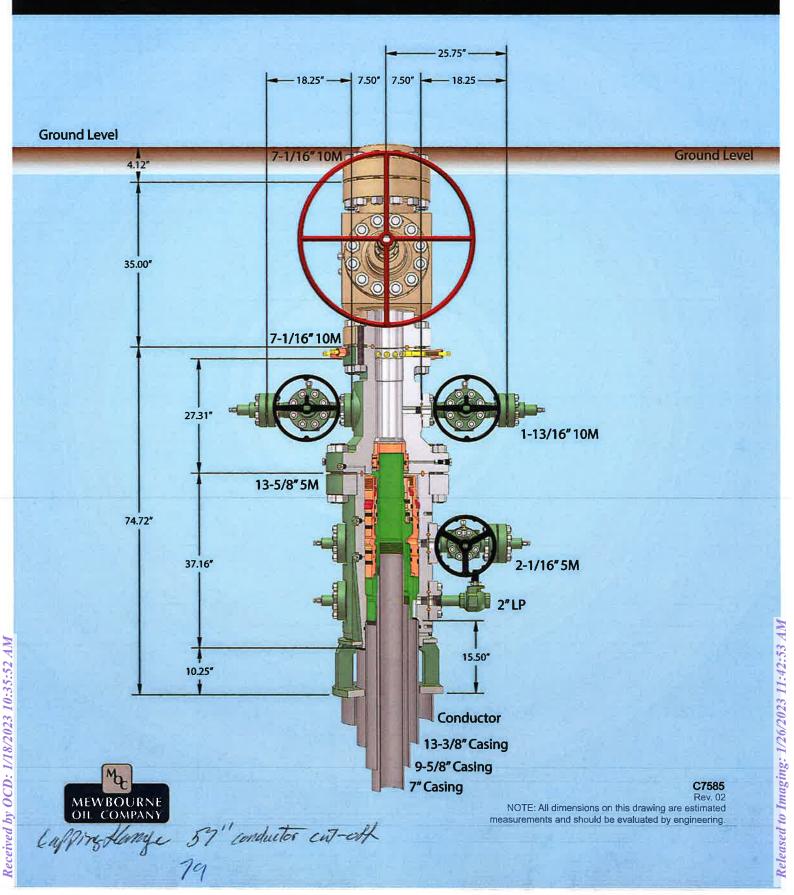






13-5/8" MN-DS Wellhead System

30



Casing Program

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'	880'	13.375"	48	H40	STC	1.91	4.30	7.62	12.81
12.25"	0'	3452'	9.625"	36	J55	LTC	1.13	1.96	2.79	3.48
12.25	3452	4400	9.625	40	L80	LTC	1.35	2.51	19.17	24.16
8.75"	0'	10,899'	7"	26	P110	LTC	1.20	1.91	2.45	2.93
6.125"	10,001'	15,572'	4.5"	13.5	P110	LTC	1.95	2.26	4.49	5.61
				BLM Minimum 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 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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Mewbourne Oil Company

Lea County, New Mexico NAD 83 Red Hills West 22 B2NC Fed Com #1H Sec 22, T26S, R32E SHL: 250' FSL & 1550' FWL BHL: 100' FNL & 2220' FWL

Plan: Design #1

Standard Planning Report

14 March, 2021

0.0	0.00	0.00	0.0 0.0	.0 0.0	0.00	0.00	0.00	0.00	
•	nation Azin °) (°	•	th +N/-S	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
1 0.0	0.0	Design #1 (BH	L: 100' FNL & 222(D					
Plan Survey Tool Pro Depth From (usft)	ogram Depth To (usft)	Date 3/14/2 Survey (Wellb		Tool Name		Remarks			
		(0.0	0.0	(0.0	7	7.18	
Vertical Section:		(u	rom (TVD) sft)	+N/-S (usft)	(L	E/-W Isft)		rection (°)	
Version:		Denth	Phase:	PROTOTYPE		e On Depth:		0.0	
Design Audit Notes:	Design #1								
Design		RF2010	12/31/2014		7.18		59.89	48,132	.24844631
Magnetics	Model Na		Sample Date	Declina (°)		•	Angle (°)	Field Stre (nT)	-
Wellbore	BHL: 100' FN	NL & 2220' FWL							
Grid Convergence:		0.35 °							
Position Uncertainty	+E/-W	0.0 usft 0.0 usft	Easting: Wellhead Ele	vation:	748,044.00	usft Lo	ngitude: ound Level:		-103.666363 3,142.0 us
Well Well Position	Sec 22, T26S +N/-S	, R32E 0.0 usft	Northing:		372,220.00	usft La	titude:		32.021559
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	748,	220.00 usft 044.00 usft 13-3/16 "	Latitude: Longitude:			32.021559 -103.666363
Site	Red Hills Wes	st 22 B2NC Fed	Com #1H						
Oco Datain.	US State Plane North Americar New Mexico Ea	n Datum 1983		System Da	tum:	M	lean Sea Level		
Project	Lea County, I	New Mexico NA	D 83						
Site: Vell: Vellbore: Design:	Sec 22, T26	est 22 B2NC Fe S, R32E NL & 2220' FWL		North Ref Survey C	erence: alculation Met	hod:	Grid Minimum Curva	ture	
Database: Company: Project:	Lea County,	Oil Company New Mexico NA		Local Co- TVD Refe MD Refer		rence:	WELL @ 3170.0	/est 22 B2NC Fed Dusft (Original We Dusft (Original We	ll Elev)

3/14/2021 11:24:14AM

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West 22 B2NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3170.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3170.0usft (Original Well Elev)
Site:	Red Hills West 22 B2NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2220' FWL	-	
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 & 1550' FWL	0.00	100.0	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
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
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.00	0.00			0.0		0.00	0.00	
900.0	0.30	109.27	900.0	0.0	0.0	0.0	1.50	1.50	0.00
1,000.0	1.80	109.27	1,000.0	-0.6	1.8	-0.4	1.50	1.50	0.00
1,100.0	3.30	109.27	1,099.9	-2.1	6.0	-1.3	1.50	1.50	0.00
1,188.9	4.63	109.27	1,188.6	-4.1	11.8	-2.6	1.50	1.50	0.00
1,200.0	4.63	109.27	1,199.6	-4.4	12.6	-2.8	0.00	0.00	0.00
1,300.0	4.63	109.27	1,299.3	-7.1	20.3	-4.5	0.00	0.00	0.00
1,400.0	4.63	109.27	1,399.0	-9.8	27.9	-6.2	0.00	0.00	0.00
1,500.0	4.63	109.27	1,498.6	-12.4	35.5	-7.9	0.00	0.00	0.00
1,600.0	4.63	109.27	1,598.3	-15.1	43.1	-9.6	0.00	0.00	0.00
1,700.0	4.63	109.27	1,698.0	-17.8	50.8	-11.3	0.00	0.00	0.00
1,800.0	4.63	109.27	1,797.7	-20.4	58.4	-13.0	0.00	0.00	0.00
1,900.0	4.63	109.27	1,897.3	-23.1	66.0	-14.7	0.00	0.00	0.00
2,000.0	4.63	109.27	1,997.0	-25.8	73.6	-16.3	0.00	0.00	0.00
2,100.0	4.63	109.27	2,096.7	-28.4	81.3	-18.0	0.00	0.00	0.00
2,200.0	4.63	109.27	2,196.4	-31.1	88.9	-19.7	0.00	0.00	0.00
	4.00								
2,300.0	4.63	109.27	2,296.0	-33.8	96.5	-21.4	0.00	0.00	0.00
2,400.0	4.63	109.27	2,395.7	-36.4	104.1	-23.1	0.00	0.00	0.00
2,500.0	4.63	109.27	2,495.4	-39.1	111.8	-24.8	0.00	0.00	0.00
2,600.0	4.63	109.27	2,595.1	-41.8	119.4	-26.5	0.00	0.00	0.00
2,700.0	4.63	109.27	2,694.7	-44.4	127.0	-28.2	0.00	0.00	0.00
2,800.0	4.63	109.27	2,794.4	-47.1	134.6	-29.9	0.00	0.00	0.00
2,800.0	4.63	109.27	2,794.4	-47.1	142.3	-29.9	0.00	0.00	0.00
		109.27			142.3		0.00		0.00
3,000.0	4.63	109.27	2,993.7	-52.4		-33.3		0.00	
3,100.0	4.63		3,093.4	-55.1	157.5	-35.0	0.00	0.00	0.00
3,200.0	4.63	109.27	3,193.1	-57.8	165.2	-36.7	0.00	0.00	0.00
3,300.0	4.63	109.27	3,292.8	-60.4	172.8	-38.4	0.00	0.00	0.00
3,400.0	4.63	109.27	3,392.4	-63.1	180.4	-40.0	0.00	0.00	0.00
3,500.0	4.63	109.27	3,492.1	-65.8	188.0	-41.7	0.00	0.00	0.00
3,600.0	4.63	109.27	3,591.8	-68.4	195.7	-43.4	0.00	0.00	0.00
3,700.0	4.63	109.27	3,691.5	-71.1	203.3	-45.1	0.00	0.00	0.00
3,800.0	4.63	109.27	3,791.1	-73.8	210.9	-46.8	0.00	0.00	0.00
3,900.0	4.63	109.27	3,890.8	-76.4	218.5	-48.5	0.00	0.00	0.00
4,000.0	4.63	109.27	3,990.5	-79.1	226.2	-50.2	0.00	0.00	0.00
4,100.0	4.63	109.27	4,090.1	-81.8	233.8	-51.9	0.00	0.00	0.00
4,200.0	4.63	109.27	4,189.8	-84.4	241.4	-53.6	0.00	0.00	0.00
4,300.0	4.63	109.27	4,289.5	-87.1	249.0	-55.3	0.00	0.00	0.00
4,400.0	4.63	109.27	4,389.2	-89.8	256.7	-57.0	0.00	0.00	0.00
4,500.0	4.63	109.27	4,488.8	-92.4	264.3	-58.7	0.00	0.00	0.00
4,600.0	4.63	109.27	4,588.5	-92.4	204.3	-60.4	0.00	0.00	0.00
4,000.0	4.63	109.27	4,688.2	-95.1	271.9	-62.1	0.00	0.00	0.00
4,800.0	4.63	109.27	4,787.9	-100.4	287.2	-63.7	0.00	0.00	0.00
4,900.0	4.63	109.27	4,887.5	-103.1	294.8	-65.4	0.00	0.00	0.00
5,000.0	4.63	109.27	4,987.2	-105.8	302.4	-67.1	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West 22 B2NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3170.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3170.0usft (Original Well Elev)
Site:	Red Hills West 22 B2NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2220' FWL		
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	4.63	109.27	5,086.9	-108.4	310.1	-68.8	0.00	0.00	0.00
5,200.0	4.63	109.27	5,186.6	-111.1	317.7	-70.5	0.00	0.00	0.00
5,300.0	4.63	109.27	5,286.2	-113.8	325.3	-72.2	0.00	0.00	0.00
5,400.0	4.63	109.27	5,385.9	-116.4	332.9	-72.2	0.00	0.00	0.00
5,500.0	4.63	109.27	5,485.6	-119.1	340.6	-75.6	0.00	0.00	0.00
								0.00	
5,600.0	4.63	109.27	5,585.2	-121.8	348.2	-77.3	0.00		0.00
5,700.0	4.63	109.27	5,684.9	-124.4	355.8	-79.0	0.00	0.00	0.00
5,800.0	4.63	109.27	5,784.6	-127.1	363.4	-80.7	0.00	0.00	0.00
5,900.0	4.63	109.27	5,884.3	-129.8	371.1	-82.4	0.00	0.00	0.00
6,000.0	4.63	109.27	5,983.9	-132.4	378.7	-84.1	0.00	0.00	0.00
6,100.0	4.63	109.27	6,083.6	-135.1	386.3	-85.8	0.00	0.00	0.00
6,200.0	4.63	109.27	6,183.3	-137.8	393.9	-87.4	0.00	0.00	0.00
6,300.0	4.63	109.27	6,283.0	-140.4	401.6	-89.1	0.00	0.00	0.00
6,400.0	4.63	109.27	6,382.6	-143.1	401.0	-90.8	0.00	0.00	0.00
6,500.0	4.63	109.27	6,482.3	-145.8	409.2	-90.8	0.00	0.00	0.00
6,600.0 6,600.0	4.63	109.27	6,482.3 6,582.0	-145.6 -148.4	410.0	-92.5 -94.2	0.00	0.00	0.00
6,700.0	4.63	109.27	6,582.0 6,681.6	-140.4 -151.1	424.4 432.1	-94.2 -95.9	0.00	0.00	0.00
6,800.0	4.63	109.27	6,781.3	-153.8	439.7	-97.6	0.00	0.00	0.00
6,900.0	4.63	109.27	6,881.0	-156.4	447.3	-99.3	0.00	0.00	0.00
7,000.0	4.63	109.27	6,980.7	-159.1	455.0	-101.0	0.00	0.00	0.00
7,100.0	4.63	109.27	7,080.3	-161.8	462.6	-102.7	0.00	0.00	0.00
7,200.0	4.63	109.27	7,180.0	-164.4	470.2	-104.4	0.00	0.00	0.00
7,300.0	4.63	109.27	7,279.7	-167.1	477.8	-106.1	0.00	0.00	0.00
7,400.0	4.63	109.27	7,379.4	-169.8	485.5	-107.8	0.00	0.00	0.00
7,500.0	4.63	109.27	7,479.0	-172.4	493.1	-109.5	0.00	0.00	0.00
7,600.0	4.63	109.27	7,578.7	-175.1	500.7	-111.1	0.00	0.00	0.00
7,700.0	4.63	109.27	7,678.4	-177.8	508.3	-112.8	0.00	0.00	0.00
7,800.0	4.63	109.27	7,778.1	-180.4	516.0	-114.5	0.00	0.00	0.00
7,900.0	4.63	109.27	7,877.7	-183.1	523.6	-116.2	0.00	0.00	0.00
8,000.0	4.63	109.27	7,977.4	-185.8	531.2	-117.9	0.00	0.00	0.00
8,100.0	4.63	109.27	8,077.1	-188.4	538.8	-119.6	0.00	0.00	0.00
8,200.0	4.63	109.27	8,176.7	-191.1	546.5	-121.3	0.00	0.00	0.00
8,300.0	4.63	109.27	8,276.4	-193.8	554.1	-123.0	0.00	0.00	0.00
8,400.0	4.63	109.27	8,376.1	-196.4	561.7	-124.7	0.00	0.00	0.00
8,500.0	4.63	109.27	8,475.8	-199.1	569.3	-126.4	0.00	0.00	0.00
8,600.0	4.63	109.27	8,575.4	-201.8	577.0	-128.1	0.00	0.00	0.00
8,700.0	4.63	109.27	8,675.1	-204.4	584.6	-129.8	0.00	0.00	0.00
8,800.0	4.63	109.27	8,774.8	-207.1	592.2	-131.5	0.00	0.00	0.00
8,900.0	4.63	109.27	8,874.5	-209.8	599.8	-133.2	0.00	0.00	0.00
9,000.0	4.63	109.27	8,974.1	-212.4	607.5	-134.8	0.00	0.00	0.00
9,100.0	4.63	109.27	9,073.8	-215.1	615.1	-136.5	0.00	0.00	0.00
9,200.0	4.63	109.27	9,173.5	-217.8	622.7	-138.2	0.00	0.00	0.00
9,300.0	4.63	109.27	9,273.1	-220.4	630.4	-139.9	0.00	0.00	0.00
9,300.0 9,400.0	4.63	109.27	9,372.8	-220.4	638.0	-139.9	0.00	0.00	0.00
9,400.0 9,500.0	4.63	109.27	9,372.8	-225.8	645.6	-141.0	0.00	0.00	0.00
9,500.0 9,600.0	4.63	109.27	9,472.5 9,572.2	-225.6 -228.4	653.2	-143.3	0.00	0.00	0.00
9,600.0 9,691.5	4.63	109.27	9,572.2 9,663.4	-228.4 -230.9	660.2	-145.0 -146.6	0.00	0.00	0.00
9,700.0	4.51	109.27	9,671.8	-231.1	660.9	-146.7	1.50	-1.50	0.00
9,800.0	3.01	109.27	9,771.6	-233.3	667.0	-148.1	1.50	-1.50	0.00
9,900.0	1.51	109.27	9,871.5	-234.6	670.8	-148.9	1.50	-1.50	0.00
10,000.0	0.01	109.27	9,971.5	-235.0	672.0	-149.2	1.50	-1.50	0.00
10,000.5	0.00	0.00	9,972.0	-235.0	672.0	-149.2	1.50	-1.50	0.00

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COMPASS 5000.16 Build 97

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Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West 22 B2NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3170.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3170.0usft (Original Well Elev)
Site:	Red Hills West 22 B2NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2220' FWL		
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)
10,100.0	9.95	359.55	10,071.0	-226.4	671.9	-140.6	10.00	10.00	0.00
10,200.0	19.95	359.55	10,167.5	-200.6	671.7	-115.1	10.00	10.00	0.00
10,300.0	29.95	359.55	10,258.1	-158.5	671.4	-73.3	10.00	10.00	0.00
10,326.0	32.55	359.55	10,280.3	-145.0	671.3	-60.0	10.00	10.00	0.00
	L & 2220' FWL								
10,400.0	39.95	359.55	10,339.9	-101.3	671.0	-16.6	10.00	10.00	0.00
10,500.0	49.95	359.55	10,410.6	-30.7	670.4	53.3	10.00	10.00	0.00
10,600.0	59.95	359.55	10,468.0	51.0	669.8	134.4	10.00	10.00	0.00
10,700.0	69.95	359.55	10,510.3	141.5	669.1	224.0	10.00	10.00	0.00
10,800.0	79.95	359.55	10,536.2	238.0	668.3	319.6	10.00	10.00	0.00
10,899.3	89.88	359.55	10,545.0	336.8	667.5	417.5	10.00	10.00	0.00
LP: 585' FSL	. & 2220' FWL								
10,900.0	89.88	359.55	10,545.0	337.4	667.5	418.2	0.00	0.00	0.00
11,000.0	89.88	359.55	10,545.2	437.4	666.7	517.3	0.00	0.00	0.00
11,100.0	89.88	359.55	10,545.4	537.4	666.0	616.5	0.00	0.00	0.00
11,200.0	89.88	359.55	10,545.6	637.4	665.2	715.6	0.00	0.00	0.00
11,300.0	89.88	359.55	10,545.9	737.4	664.4	814.7	0.00	0.00	0.00
11,400.0	89.88	359.55	10,546.1	837.4	663.6	913.8	0.00	0.00	0.00
11,500.0	89.88	359.55	10,546.3	937.4	662.8	1,012.9	0.00	0.00	0.00
11,600.0	89.88	359.55	10,546.5	1,037.4	662.1	1,112.0	0.00	0.00	0.00
11,700.0	89.88	359.55	10,546.7	1,137.4	661.3	1,211.2	0.00	0.00	0.00
11,800.0	89.88	359.55	10,546.9	1,237.4	660.5	1,310.3	0.00	0.00	0.00
11,900.0	89.88	359.55	10,547.1	1,337.4	659.7	1,409.4	0.00	0.00	0.00
12,000.0	89.88	359.55	10,547.4	1,437.4	658.9	1,508.5	0.00	0.00	0.00
12,100.0	89.88	359.55	10,547.6	1,537.4	658.1	1,607.6	0.00	0.00	0.00
12,200.0	89.88	359.55	10,547.8	1,637.4	657.4	1,706.7	0.00	0.00	0.00
12,300.0	89.88	359.55	10,548.0	1,737.4	656.6	1,805.8	0.00	0.00	0.00
12,400.0	89.88	359.55	10,548.2	1,837.4	655.8	1,905.0	0.00	0.00	0.00
12,500.0	89.88	359.55	10,548.4	1,937.4	655.0	2,004.1	0.00	0.00	0.00
12,600.0	89.88	359.55	10,548.6	2,037.4	654.2	2,103.2	0.00	0.00	0.00
12,700.0	89.88	359.55	10,548.9	2,137.4	653.5	2,202.3	0.00	0.00	0.00
12,800.0	89.88	359.55	10,549.1	2,237.4	652.7	2,301.4	0.00	0.00	0.00
12,900.0	89.88	359.55	10,549.3	2,337.4	651.9	2,400.5	0.00	0.00	0.00
13,000.0	89.88	359.55	10,549.5	2,437.4	651.1	2,499.6	0.00	0.00	0.00
13,003.6	89.88	359.55	10,549.5	2,441.0	651.1	2,503.2	0.00	0.00	0.00
PPP2: 2675' 13,100.0	FNL & 2220' FW 89.88	L 359.55	10,549.7	2,537.4	650.3	2,598.8	0.00	0.00	0.00
13,200.0	89.88	359.55	10,549.9	2,637.4	649.5	2,697.9	0.00	0.00	0.00
13,300.0	89.88	359.55	10,550.1	2,737.4	648.8	2,797.0	0.00	0.00	0.00
13,400.0	89.88	359.55	10,550.4	2,837.4	648.0	2,896.1	0.00	0.00	0.00
13,500.0	89.88	359.55	10,550.6	2,937.4	647.2	2,995.2	0.00	0.00	0.00
13,600.0	89.88	359.55	10,550.8	3,037.4	646.4	3,094.3	0.00	0.00	0.00
13,700.0	89.88	359.55	10,551.0	3,137.4	645.6	3,193.4	0.00	0.00	0.00
13,800.0	89.88	359.55	10,551.2	3,237.4	644.9	3,292.6	0.00	0.00	0.00
13,900.0	89.88	359.55	10,551.4	3,337.3	644.1	3,391.7	0.00	0.00	0.00
14,000.0	89.88	359.55	10,551.6	3,437.3	643.3	3,490.8	0.00	0.00	0.00
14,100.0	89.88	359.55	10,551.9	3,537.3	642.5	3,589.9	0.00	0.00	0.00
14,200.0	89.88	359.55	10,552.1	3,637.3	641.7	3,689.0	0.00	0.00	0.00
14,300.0	89.88	359.55	10,552.3	3,737.3	640.9	3,788.1	0.00	0.00	0.00
14,400.0	89.88	359.55	10,552.5	3,837.3	640.2	3,887.3	0.00	0.00	0.00
14,500.0	89.88	359.55	10,552.7	3,937.3	639.4	3,986.4	0.00	0.00	0.00
14,600.0	89.88	359.55	10,552.9	4,037.3	638.6	4,085.5	0.00	0.00	0.00
14,700.0	89.88	359.55	10,553.1	4,137.3	637.8	4,184.6	0.00	0.00	0.00

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Received by OCD: 1/18/2023 10:35:52 AM

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West 22 B2NC Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3170.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3170.0usft (Original Well Elev)
Site:	Red Hills West 22 B2NC Fed Com #1H	North Reference:	Grid
Well:	Sec 22, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 2220' FWL		
Design:	Design #1		

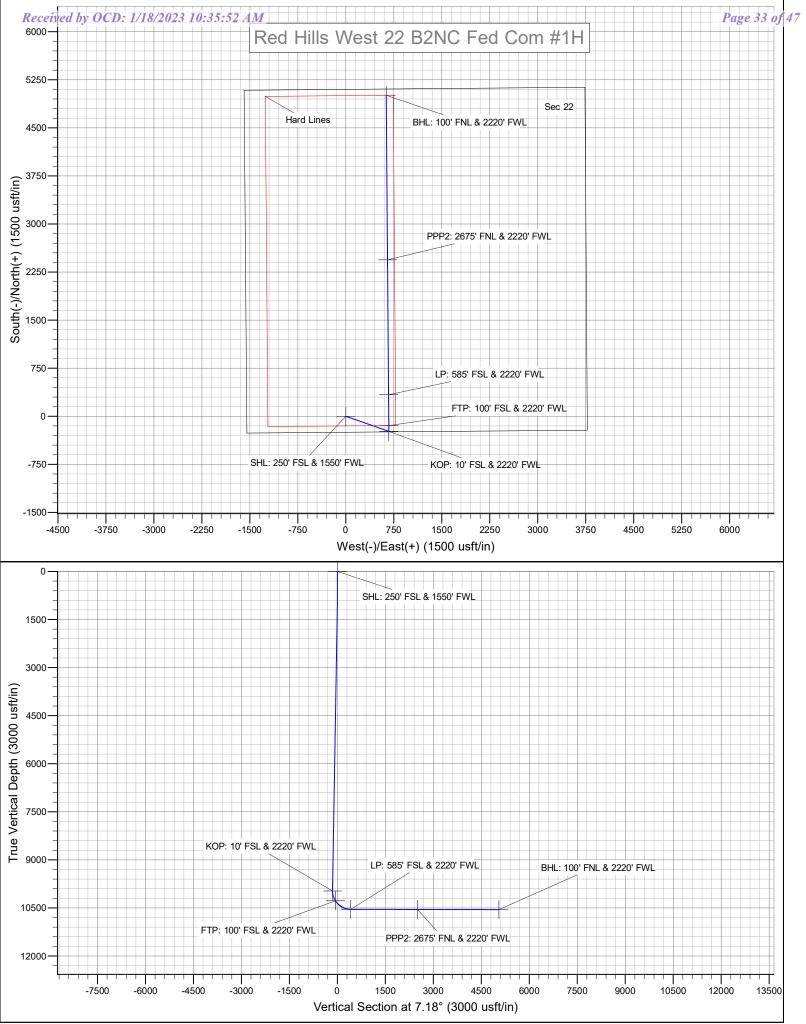
Planned Survey

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)
14,800.0	89.88	359.55	10,553.3	4,237.3	637.0	4,283.7	0.00	0.00	0.00
14,900.0	89.88	359.55	10,553.6	4,337.3	636.3	4,382.8	0.00	0.00	0.00
15,000.0	89.88	359.55	10,553.8	4,437.3	635.5	4,481.9	0.00	0.00	0.00
15,100.0	89.88	359.55	10,554.0	4,537.3	634.7	4,581.1	0.00	0.00	0.00
15,200.0	89.88	359.55	10,554.2	4,637.3	633.9	4,680.2	0.00	0.00	0.00
15,300.0	89.88	359.55	10,554.4	4,737.3	633.1	4,779.3	0.00	0.00	0.00
15,400.0	89.88	359.55	10,554.6	4,837.3	632.3	4,878.4	0.00	0.00	0.00
15,500.0	89.88	359.55	10,554.8	4,937.3	631.6	4,977.5	0.00	0.00	0.00
15,571.7	89.88	359.55	10,555.0	5,009.0	631.0	5,048.6	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: 250' FSL & 1550' F - plan hits target cente - Point	0.00 er	0.00	0.0	0.0	0.0	372,220.00	748,044.00	32.0215591	-103.6663630
KOP: 10' FSL & 2220' F\ - plan hits target cente - Point	0.00 er	0.00	9,972.0	-235.0	672.0	371,985.00	748,716.00	32.0209017	-103.6641995
FTP: 100' FSL & 2220' F - plan hits target cente - Point	0.00 er	0.00	10,280.3	-145.0	671.3	372,075.00	748,715.29	32.0211491	-103.6642000
LP: 585' FSL & 2220' FV - plan hits target cente - Point	0.00 er	0.00	10,545.0	336.8	667.5	372,556.76	748,711.53	32.0224734	-103.6642025
PPP2: 2675' FNL & 222(- plan hits target cente - Point	0.00 er	0.00	10,549.5	2,441.0	651.1	374,661.00	748,695.07	32.0282579	-103.6642136
BHL: 100' FNL & 2220' F - plan hits target cente - Point	0.00 er	0.00	10,555.0	5,009.0	631.0	377,229.00	748,675.00	32.0353171	-103.6642270

Released to Imaging: 1/26/2023 11:42:53 AM



As Drilled

Intent	Х
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API #		
Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Red Hills West 22 B2NC Fed Com	1H

Kick Off Point (KOP)

UL N	Section 22	Township 26S	Range 32E	Lot	Feet 10	From N/S S	Feet 2220	From E/W W	County Lea
Latitu 32.0	^{de})20901	7			Longitude -103.664	1995			NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	22	26S	32E		100	S	2220	W	Lea
Latitu 32.0	^{ide})21149)1			Longitude -103.664	12			NAD 83

Last Take Point (LTP)

UL C	Section 22	Township 26S	Range 32E	Lot	Feet 100	From N/S N	Feet 2220	From E/W W	County Lea
Latitude				Longitud	le		NAD		
32.0353156				-103.	-103.6642309			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

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM027507
WELL NAME & NO.:	RED HILLS WEST 22 B2NC FED COM 1H
SURFACE HOLE FOOTAGE:	250'/S & 1550'/W
BOTTOM HOLE FOOTAGE	100'/N & 2200'/W
LOCATION:	Section 22, T.26 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	C Low	Medium	O 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	COM	🗆 Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the undesignated formations in the East Mason 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 **13-3/8** inch surface casing shall be set at approximately **880** feet (a minimum of **25 feet (Lea 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 **9-5/8** inch intermediate casing shall be set at approximately **4,400** 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. 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.
 - In <u>Medium 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.
- 3. 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 or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Excess cement calculates to -1%, 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 or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
- 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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000** (**2M**) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the production casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. 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.

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.
 - 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 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.

Page 6 of 8

- 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.

OTA01112023

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

Well Name: RED HILLS WEST 22 B2NC FED COM

Well Number: 1H

Reserve pit volume (cu. yd.)

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE Waste content description: Garbage & Trash Amount of waste: 1500 pounds Waste disposal frequency : One Time Only Safe containment description: Enclosed trash trailer Safe containmant attachment: Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE 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.)

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? NOAre you storing cuttings on location? NDescription of cuttings locationCuttings area length (ft.)Cuttings area depth (ft.)Cuttings area depth (ft.)Is at least 50% of the cuttings area in cut?WCuttings area linerCuttings area liner specifications and installation description

Well Name: RED HILLS WEST 22 B2NC 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:

RedHillsWest_22_B2NCFedCom1H_wellsitelayout_20210325110333.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Red Hills West 22 MD/NC Fed Com wells

Multiple Well Pad Number: 12

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 13.4	Well pad interim reclamation (acres): 0.67	Well pad long term disturbance (acres): 12.73
Road proposed disturbance (acres): 0.42	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): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 13.82	Total interim reclamation: 0.67	Total long term disturbance: 12.73

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

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	177003
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/26/2023
pkautz	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	1/26/2023
pkautz	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	1/26/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/26/2023

CONDITIONS

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Action 177003