Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO DI 1a. Type of work: Ib. Type of Well: DRILL RE 1b. Type of Well: Oil Well Gas Well Other Completion: Hydraulic Fracturing Sir	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM111242 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. CASTLE BLACK 6/1 B2CD FED COM [333601]							
2. Name of Operator MEWBOURNE OIL COMPANY [14744]				1H 9. API Well No.		025-50866		
3a. Address         P O BOX 5270, HOBBS, NM 88241         4. Location of Well (Report location clearly and in accordance w At surface SENW / 1700 FNL / 2610 FWL / LAT 32.779	10, Field and Pool, or Explorator <b>[65350/58040</b> YOUNG; BONE SPRING (Lea) & Tamanc 11. Sec., T. R. M. or Blk. and Survey or Area SEC 6/T18S/R32E/NMP							
At proposed prod. zone NWNW / 500 FNL / 100 FWL / LA 14. Distance in miles and direction from nearest town or post office 10 miles		8897LONG-103.8	31311	12. County or Parish	l	13. State		
15. Distance from proposed*       210 feet         location to nearest       property or lease line, ft.         (Also to nearest drig. unit line, if any)         18. Distance from proposed location*         to nearest well, drilling, completed,         applied for, on this lease, ft.	19. Propose	cres in lease ed Depth 16610 feet	ing Unit dedicated to this well 1/BIA Bond No. in file					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3834 feet	22. Approxi 04/17/2022	imate date work will a	start*	23. Estimated duration     60 days				
	24. Attac	chments						
<ul> <li>The following, completed in accordance with the requirements of (as applicable)</li> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)</li> </ul>	n Lands, the	<ul> <li>4. Bond to cover th Item 20 above).</li> <li>5. Operator certific</li> </ul>	e operatior ation.	Hydraulic Fracturing runs unless covered by an mation and/or plans as	existing	bond on file (see		
25. Signature (Electronic Submission)		: ( <i>Printed/Typed)</i> DLEY BISHOP / Ph	: (575) 39	93-5905	Date 05/21/2	2020		
Title Regulatory								
Approved by (Signature) (Electronic Submission)		e (Printed/Typed) Y LAYTON / Ph: (57	75) 234-5	959	Date 12/07/2	2022		
Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.		bad Field Office	nose rights	in the subject lease wh	nich wou	ld entitle the		
Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements o					ny depar	tment or agency		

## NGMP Rec 12/08/2022

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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

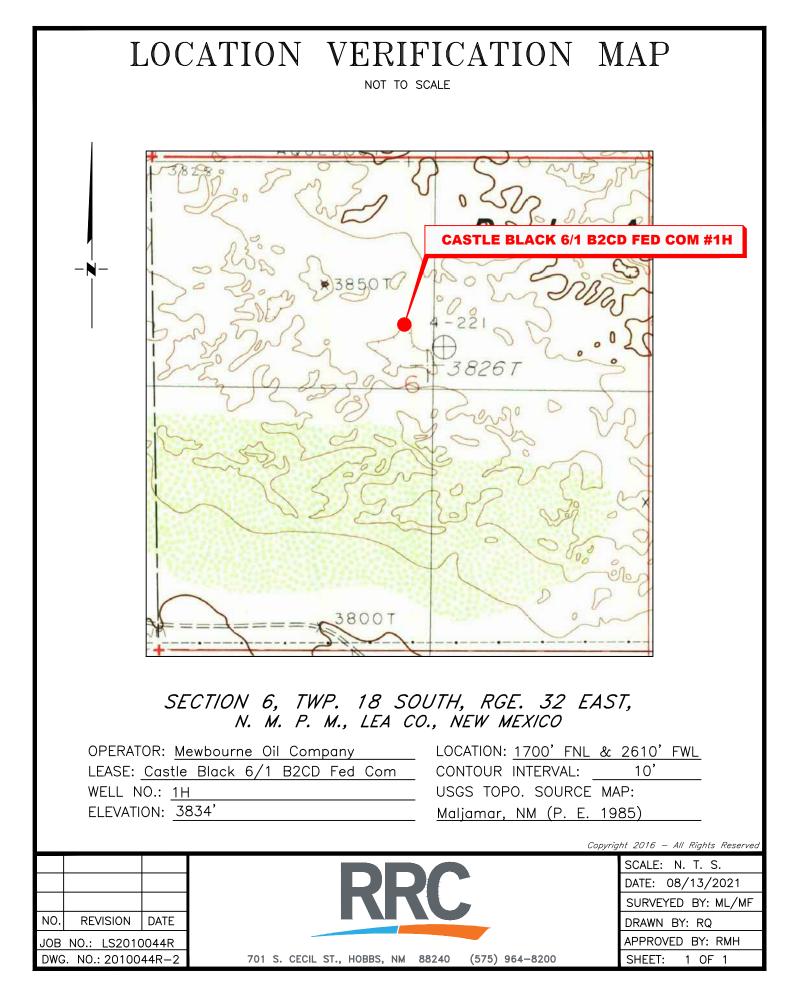
AMENDED REPORT

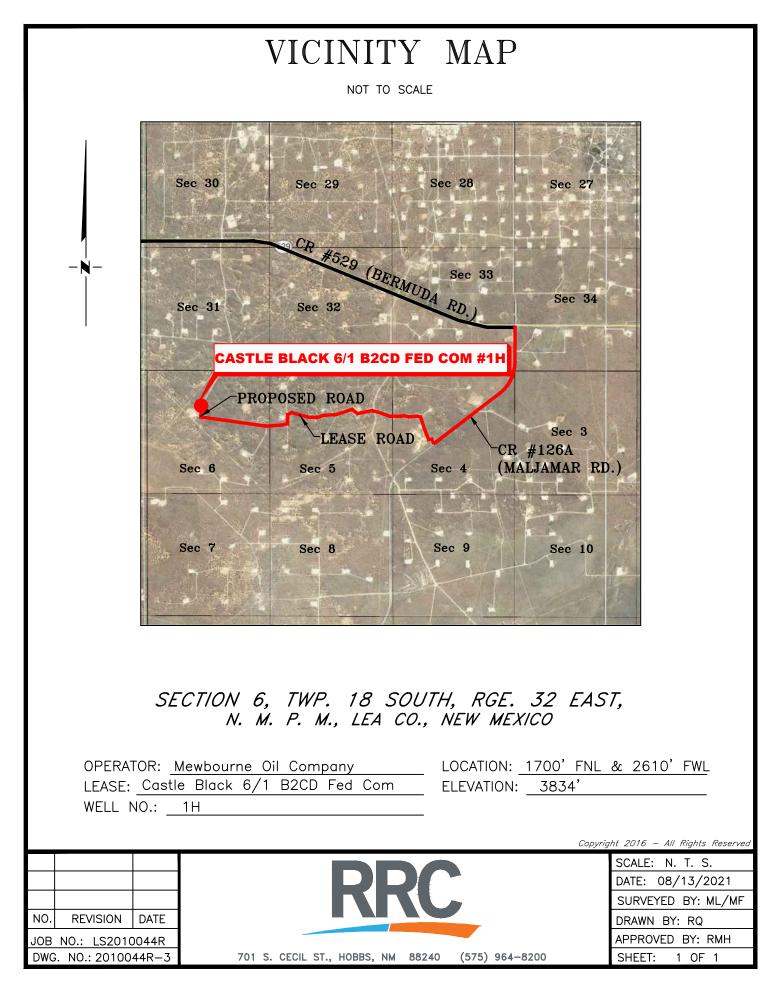
WELL LOCATION AND ACREAGE DEDICATION PLAT													
<b>30-02</b>	API Number 5-50866	umber 8662Pool Code 653503Pool Name Young-Bone Spring (txera)											
<sup>4</sup> Property Co <b>333601</b>	de		<sup>5</sup> Property Name CASTLE BLACK 6/1 B2CD FED COM 1H										
<sup>7</sup> OGRID 1 14744			<sup>8</sup> Operator Name MEWBOURNE OIL COMPANY 3834'										
	<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	est line	County			
F	6	18S	32E		1700	NORTH	2610	WE	ST	LEA			
			11 ]	Bottom H	lole Location	n 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	est line	County			
4	1	18S	18S31E500NORTH100WESTEDDY										
12 Dedicated Acres	s 13 Joint	or Infill 14 (	Consolidation	Code 15 (	Order No.								
80													

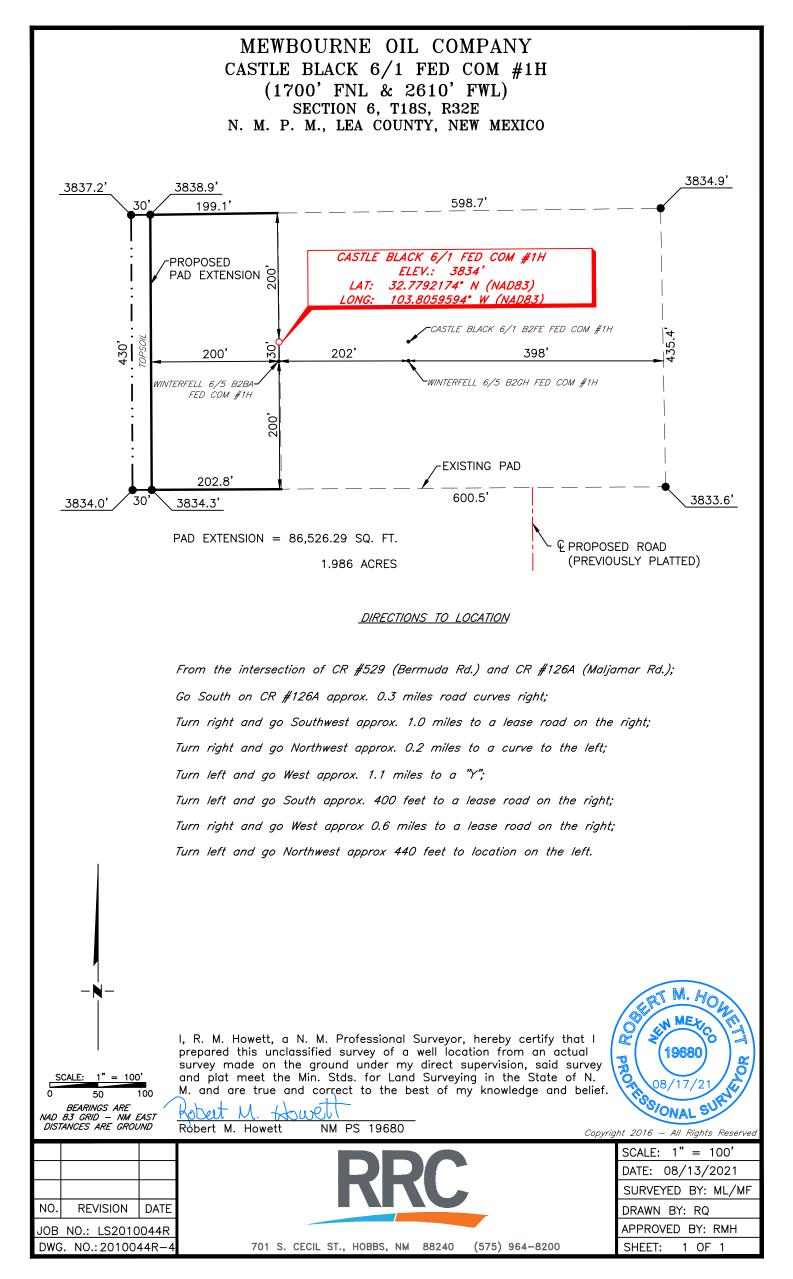
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16			<sup>17</sup> OPERATOR CERTIFICATION
<u>CORNER DATA</u> NAD 83 GRID – NM EAST			I hereby certify that the information contained herein is true and complete
A: FOUND BRASS CAP "1916"	G: FOUND BRASS CAP "1913"	GEODETIC DATA	to the best of my knowledge and belief, and that this organization either
N: 643983.4 – E: 695551.7	N: 649324.0 - E: 706111.0	NAD 83 GRID - NM EAST	owns a working interest or unleased mineral interest in the land including
B: FOUND BRASS CAP "1916"	H: FOUND 1" IRON PIPE	<u>SURFACE LOCATION</u> N: 647615.3 – E: 703420.4	the proposed bottom hole location or has a right to drill this well at this
N: 646622.9 – E: 695536.5	N: 646678.2 - E: 706128.4		location pursuant to a contract with an owner of such a mineral or working
C: FOUND BRASS CAP "1916" N: 649266.9 – E: 695520.0	l: FOUND BRASS CAP "1913" N: 644040.6 – E: 706142.9	LAT: 32.7792174° N LONG: 103.8059594° W	interest, or to a voluntary pooling agreement or a compulsory pooling
D: FOUND BRASS CAP "1916" N: 649286.4 — E: 698159.4	J: FOUND BRASS CAP "1913" N: 644031.5 – E: 703505.2	GEODETIC DATA	order heretofore entered by the division.
		NAD 83 GRID - NM EAST	CCU 12/16/2022
E: FOUND BRASS CAP "1913" N: 649306.3 – E: 700801.5	K: FOUND BRASS CAP "1913" N: 644024.0 – E: 700832.1	<u>BOTTOM HOLE</u> N: 648767.8 – E: 695623.1	Signature Date Christian Ward
F: FOUND BRASS CAP "1913"	L: FOUND BRASS CAP "1913"	LAT: 32.7824893° N	Printed Name
N: 649315.1 – E: 703470.5	N: 646666.0 - E: 700816.4	LONG: 103.8313110° W	cward@mewbourne.com
			E-mail Address
N 89:34'35" € 2640.05'  S 89:34'1.	z" W 2642 ZA' (F) N 80'48'37" E 2	669.71' © N 89°48'23" E 2641.06©	
			<sup>18</sup> SURVEYOR CERTIFICATION
	69 89. LOT 1 94 LOT 4 L	OT 3 8 LOT 2 LOT 1 9	I hereby certify that the well location shown on this
B.H.   LOT 3   LOT 2			plat was plotted from field notes of actual surveys
			made by me or under my supervision, and that the
1,28	2610'		same is true and correct to the best of my belief.
NOO		ect Area Producing Area	08/13/2021 Date of Survey
B 1	$+-$	6	Signature and Scal of Processonal Surveyor:
.6/			
	1749 LOT 6   	284 E =	
· · · · · · · · · · · · · · · · · · ·			19680
	00 LOT 7	ο σ	Certificate Number
A C 80124/00" W 2041 52' A C 20127'0	Z" W 2640 22' ( ) H 20156'22" 5 2		
A) 5 89°34'00" W 2641.52' 🛞 5 89°33'0.	3" W 2640.22' 🛞 N 89'50'22" E 2	673.70' () N 89°48'08" E 2638.41' (	U Job No: LS2001044R

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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

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

1000 Rio Brazos Road, Aztec, NM 87410

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

Form C-102

District Office

Revised August 1, 2011

Submit one copy to appropriate

AMENDED REPORT District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 API Number 2Pool Code <sup>3</sup>Pool Name 58040 30-025-50866 Tamano - Bone Spring 5 Property Name 6Well Number 4Property Code CASTLE BLACK 6/1 B2CD FED COM 1H<u>333601</u> 7 OGRID NO. 8 Operator Name 9Elevation 3834' MEWBOURNE OIL COMPANY 14744 <sup>10</sup> Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet From the East/West line County Range F 6 18S 32E 1700 NORTH 2610 WEST LEA <sup>11</sup> Bottom Hole Location If Different From Surface East/West line UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the County 4 1 18S 31E 500 NORTH 100 WEST EDDY 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 160

State of New Mexico

OIL CONSERVATION DIVISION

Santa Fe, NM 87505

1220 South St. Francis Dr.

Energy, Minerals & Natural Resources Department

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.

ſ	5			<sup>17</sup> OPERATOR CERTIFICATION
	<u>CORNER DATA</u> NAD 83 GRID – NM EAST			I hereby certify that the information contained herein is true and complete
	A: FOUND BRASS CAP "1916"	C. FOUND DRASS CAD "1017"		to the best of my knowledge and belief, and that this organization either
	N: 643983.4 - E: 695551.7	G: FOUND BRASS CAP "1913" N: 649324.0 – E: 706111.0	<u>GEODETIC DATA</u> NAD 83 GRID – NM EAST	owns a working interest or unleased mineral interest in the land including
	B: FOUND BRASS CAP "1916"		SURFACE LOCATION	the proposed bottom hole location or has a right to drill this well at this
	N: 646622.9 – E: 695536.5	N: 646678.2 - E: 706128.4	N: 647615.3 - E: 703420.4	location pursuant to a contract with an owner of such a mineral or working
	C: FOUND BRASS CAP "1916" N: 649266.9 – E: 695520.0	I: FOUND BRASS CAP "1913" N: 644040.6 – E: 706142.9	LAT: 32.7792174* N LONG: 103.8059594* W	interest, or to a voluntary pooling agreement or a compulsory pooling
	D: FOUND BRASS CAP "1916"	J: FOUND BRASS CAP "1913"	GEODETIC DATA	order heretofore entered by the division.
	N: 649286.4 - E: 698159.4	N: 644031.5 - E: 703505.2	NAD 83 GRID - NM EAST	()) 12/16/2022
	E: FOUND BRASS CAP "1913" N: 649306.3 – E: 700801.5	K: FOUND BRASS CAP "1913" N: 644024.0 – E: 700832.1	<u>BOTTOM HOLE</u> N: 648767.8 – E: 695623.1	Signature Date
	F: FOUND BRASS CAP "1913"		LAT: 32.7824893° N	Christian Ward
	N: 649315.1 – E: 703470.5	N: 646666.0 – E: 700816.4	LONG: 103.8313110' W	Printed Name
				cward@mewbourne.com
		-		E-mail Address
Ô	<u>N 89°34'35" F 2640.05' D S</u>	89°34'13" W 2642.74' E N 89°48'37	<u>" E 2669.71' 🗊 N 89°48'23" E 2641.06 ©</u>	<sup>18</sup> SURVEYOR CERTIFICATION
67'				<i>I hereby certify that the well location shown on this</i>
644.		LOT 2 LOT 1 LOT 4		plat was plotted from field notes of actual surveys
M	L100' /	<u> </u>		made by me or under my supervision, and that the
'28"		<u> </u>	10'	same is true and correct to the best of my belief.
00:21	Producing Area	LOT 5	<b>−−</b>  S.L.   :2	08/13/2021
2		Project Area		Date of Survey
B	1 -		+ $   6$ $         -$	Signature and Seal of Processonal Survey me.
19'		1 S		
640		CT 6	2638	(19680)
M				A HULL TOPOS
.46				19680
61.0		27 .0 LOT 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Certificate Number
N 0		~ ~		CONAL 30
$\mathbb{A}^{L}$	S 89°34'00" W 2641.52' (R) S	89°33'03" W 2640.22' (K) N 89°50'22	│	D Job No: LS2001044R

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Page 5								
	E	Stat nergy, Minerals a	te of New Me and Natural Re		ent			nit Electronically E-permitting
		Oil Co 1220 S	onservation D South St. Fran	ivision cis Dr.				
		San	ta Fe, NM 87	505				
	Ν	ATURAL G	AS MANA	GEMENT P	LAN			
This Natural Gas Manag	gement Plan m	ust be submitted wi	ith each Applica	tion for Permit to I	Drill (A	PD) for a 1	new or	recompleted well.
			1 – Plan D ffective May 25					
I. Operator: Mev	vbourne (	Dil Co.	OGRID:	14744		Date: _	2/5	/22
II. Type: 🗶 Original 🛛	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) N	MAC 🗆 C	Other.	
If Other, please describe	:							
<b>III. Well(s):</b> Provide the be recompleted from a s					wells pr	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	P	Anticipated roduced Water BBL/D
Castle Black 6/1 B2CD Fed Com #1	ł	F 6 18S 32E	1700' FNL x 2610'	Fw∟ 1500	50	00		1000
	30-025-508	866						
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the		tion for each new	v or recompleted w	ell or s			7.9(D)(1) NMAC] sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
Castle Black 6/1 B2CD Fed Com #1	1	4/5/22	5/5/22	6/5/22		6/20/22		6/20/22
	30-025-50							
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	tices: 🛛 Attacl of 19.15.27.8 1 t Practices: 🗖	h a complete descr NMAC.	iption of the ac	tions Operator will	take to	o comply y	with tł	ne requirements of

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.

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

#### IX. Anticipated Natural Gas Production:

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

#### X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Page 7

#### Section 3 - Certifications Effective May 25, 2021

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

Deperator 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.

#### Mewbourne Oil Company

#### Natural Gas Management Plan – Attachment

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

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

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



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

#### **APD ID:** 10400053948

Operator Name: MEWBOURNE OIL COMPANY

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Type: OIL WELL

Well Number: 1H Well Work Type: Drill

Submission Date: 05/21/2020

Highlighted data reflects the most recent changes

12/07/2022

Drilling Plan Data Report

Show Final Text

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
652422	UNKNOWN	3834	28	28	OTHER : Topsoil	NONE	N
652423	RUSTLER	2849	985	985	ANHYDRITE, DOLOMITE	USEABLE WATER	N
652433	TOP SALT	2609	1225	1225	SALT	NONE	N
652434	BASE OF SALT	1564	2270	2270	SALT	NONE	N
652426	YATES	1374	2460	2460	SANDSTONE	NATURAL GAS, OIL	N
652435	SEVEN RIVERS	929	2905	2905	DOLOMITE	NATURAL GAS, OIL	N
652427	QUEEN	234	3600	3600	DOLOMITE	NATURAL GAS, OIL	N
652428	GRAYBURG	-31	3865	3865	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
740140	SAN ANDRES	-271	4105	4105	SANDSTONE	NATURAL GAS, OIL	N
652436	LAMAR	-796	4630	4630	LIMESTONE	NATURAL GAS, OIL	N
652430	BONE SPRING	-1791	5625	5625	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
652431	BONE SPRING 1ST	-3676	7510	7510	SANDSTONE	NATURAL GAS, OIL	N
652432	BONE SPRING 2ND	-4301	8135	8135	SANDSTONE	NATURAL GAS, OIL	Y

## **Section 2 - Blowout Prevention**

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Received by OCD: 12/8/2022 8:06:27 AM

**Operator Name:** MEWBOURNE OIL COMPANY

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Number: 1H

Page 14 of 49

Pressure Rating (PSI): 5M

Rating Depth: 16610

**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.

**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:

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_5M\_BOPE\_Choke\_Diagram\_20200519095122.pdf

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Flex\_Line\_Specs\_20200519095123.pdf

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Flex\_Line\_Specs\_API\_16C\_20200519095123.pdf

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

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Multi\_Bowl\_WH\_20200519095133.pdf

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_5M\_BOPE\_Schematic\_20200519095133.pdf

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	13.4	NEW	API	N	0	1100	0	1100	3834	2734	1100	H-40	48	ST&C	1.6	3.6	DRY	2.86	DRY	4.8
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2400	0	2400		1434	2400	J-55	36	LT&C	1.62	2.82	DRY	5.24	DRY	6.53
	PRODUCTI ON	8.75	7.0	NEW	API	N	0	8000	0	7865		-4031	8000	P- 110	26	LT&C	1.6	2.56	DRY	3.33	DRY	3.99
4	LINER	6.12 5	4.5	NEW	API	N	7950	16610	7815	8522	-3981	-4688	8660	P- 110	13.5	LT&C	2.01	2.33	DRY	2.89	DRY	3.61

## **Section 3 - Casing**

Received by OCD: 12/8/2022 8:06:27 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Number: 1H

#### **Casing Attachments**

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Teneved String Speed
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Castle_Black_6_1_B2CD_Fed_Com_1H_Csg_Assumptions_20220216112426.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Castle_Black_6_1_B2CD_Fed_Com_1H_Csg_Assumptions_20220216112619.pdf
Casing ID: 3 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Castle_Black_6_1_B2CD_Fed_Com_1H_Csg_Assumptions_20220216112547.pdf

Received by OCD: 12/8/2022 8:06:27 AM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Number: 1H

Casing ID: 4 String LINER

**Inspection Document:** 

Spec Document:

**Casing Attachments** 

**Tapered String Spec:** 

## Casing Design Assumptions and Worksheet(s):

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Csg\_Assumptions\_20220216113521.pdf

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	763	600	2.12	12.5	1272	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	-	763	1100	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1592	150	2.12	12.5	318	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1592	2400	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1900	4913	320	2.12	12.5	678	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		4913	8000	400	1.18	15.6	472	25	Class H	Retarder, Fluid loss, defoamer
LINER	Lead		8000	1661 0	350	2.97	11.2	1040	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: CASTLE BLACK 6/1 B2CD 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 (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1100	SPUD MUD	8.6	8.8							
1100	2400	SALT SATURATED	10	10							
2400	8000	WATER-BASED MUD	8.6	9.5							
8000	1661 0	OIL-BASED MUD	9.5	11							

## Section 6 - Test, Logging, Coring

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

Will run GR/CNL in deeper offset Castle Black 6/1 B2FE Fed Com #1H.

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

COMPENSATED NEUTRON LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, **Coring operation description for the well:** 

None

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Number: 1H

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5539

Anticipated Surface Pressure: 3664

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

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_H2S\_Plan\_20200519095638.pdf

## **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

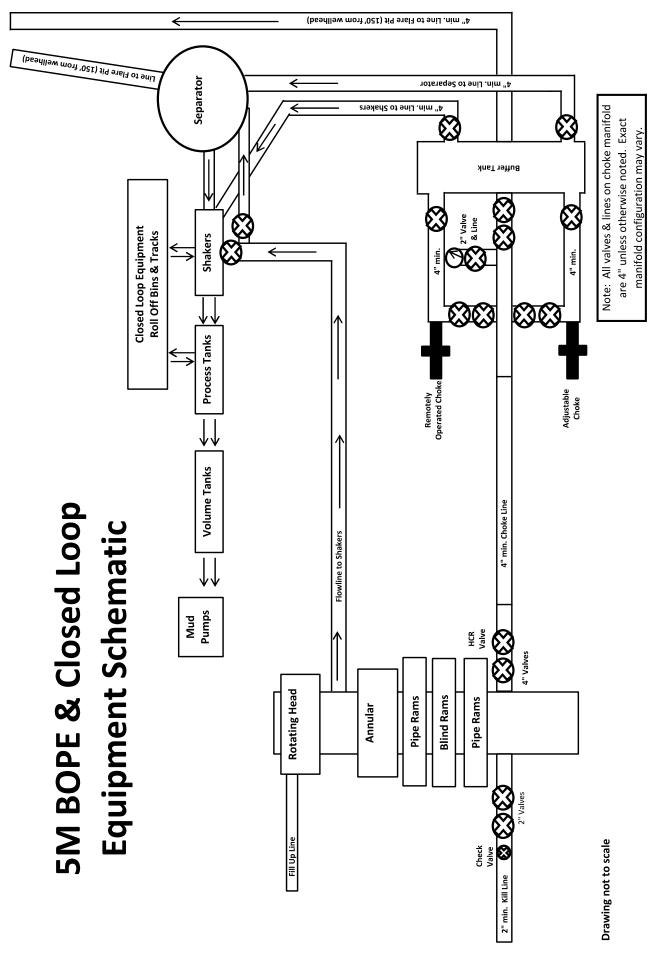
Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Dir\_Plan\_20220216114043.pdf Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Dir\_Plot\_20220216114043.pdf

Other proposed operations facets description:

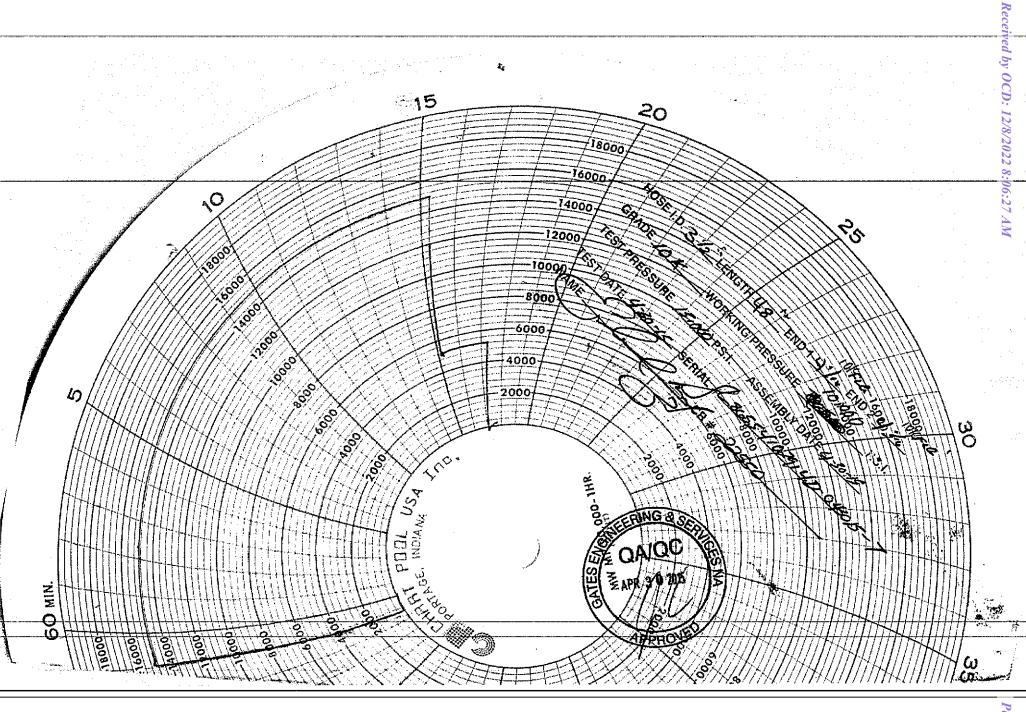
Other proposed operations facets attachment:

Castle\_Black\_6\_1\_B2CD\_Fed\_Com\_1H\_Add\_Info\_20220216114049.pdf

**Other Variance attachment:** 



GATES E & S NORTH	AMEDICA INC		PHONE: 361-887-9807	
GATES E & S NORT 134 44TH STREET CORPUS CHRISTI, 1			FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.co</i> WEB: www.gates.com	m
10K CE	MENTING ASSEMBL		TEST CERTIFICATE	
Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015	
Customer Ref. : Invoice No. :	4060578 500506	Hose Serial No.: Created By:	D-043015-7 JUSTIN CROPPER	
Product Description:		10K3.548.0CK4.1/1610KFL	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 :	L36554102914D-043015-7 15,000 PSI	
Gates E & S No	orth America, Inc. certifies	s that the following h	nose assembly has been tested to ments and passed the 15 minute	
the Gates Oilfie hydrostatic test	eld Roughneck Agreement/S per API Spec 7K/Q1, Fifth Ec	Specification requiren dition, June 2010, Te uct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the	9
the Gates Oilfie hydrostatic test	eld Roughneck Agreement/S per API Spec 7K/Q1, Fifth Ec n accordance with this produ	Specification requiren dition, June 2010, Te uct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the	9
the Gates Oilfie hydrostatic test	eld Roughneck Agreement/S per API Spec 7K/Q1, Fifth Ec n accordance with this produ	Specification requiren dition, June 2010, Te uct number. Hose bu	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the	9
the Gates Oilfie hydrostatic test y to 15,000 psi in Quality Manager : Date :	eld Roughneck Agreement/S per API Spec 7K/Q1, Fifth Ec n accordance with this produ minimum of 2.5 times t	Specification requirem dition, June 2010, Te uct number. Hose bu the working pressure Produciton:	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 irst pressure 9.6.7.2 exceeds the e per Table 9. PRODUCTION	
the Gates Oilfie hydrostatic test y to 15,000 psi in Quality Manager : Date :	eld Roughneck Agreement/S per API Spec 7K/Q1, Fifth Ec n accordance with this produ minimum of 2.5 times t	Specification requirem dition, June 2010, Te uct number. Hose bu the working pressure Produciton:	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	3.035.0CK41/1610KFLGFXDxFLT	L/E
		_	
Product Description:	10KF 4 1/16 in. Fixed Flange 68503010-9721632	End Fitting 2:	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.

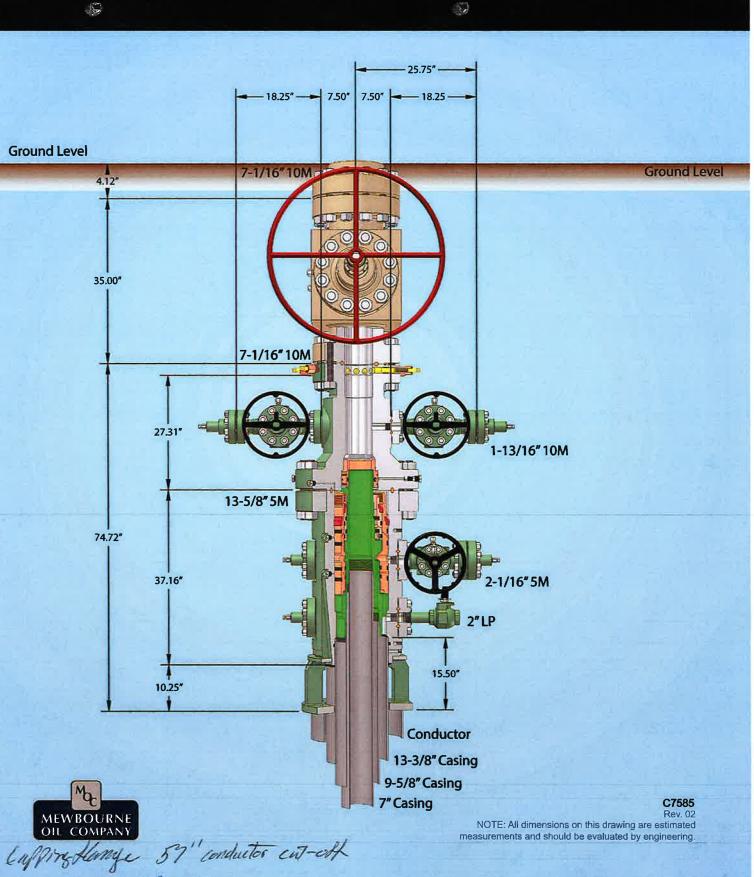
Quality:	QUALITY	Production:	PRODUCTION
Date :	8/20/2018	Date :	8/20/2018
Signature :	1 100	Signature :	Her I
	Mossa Wym	/	Form PTC - 01 Rev.0 2



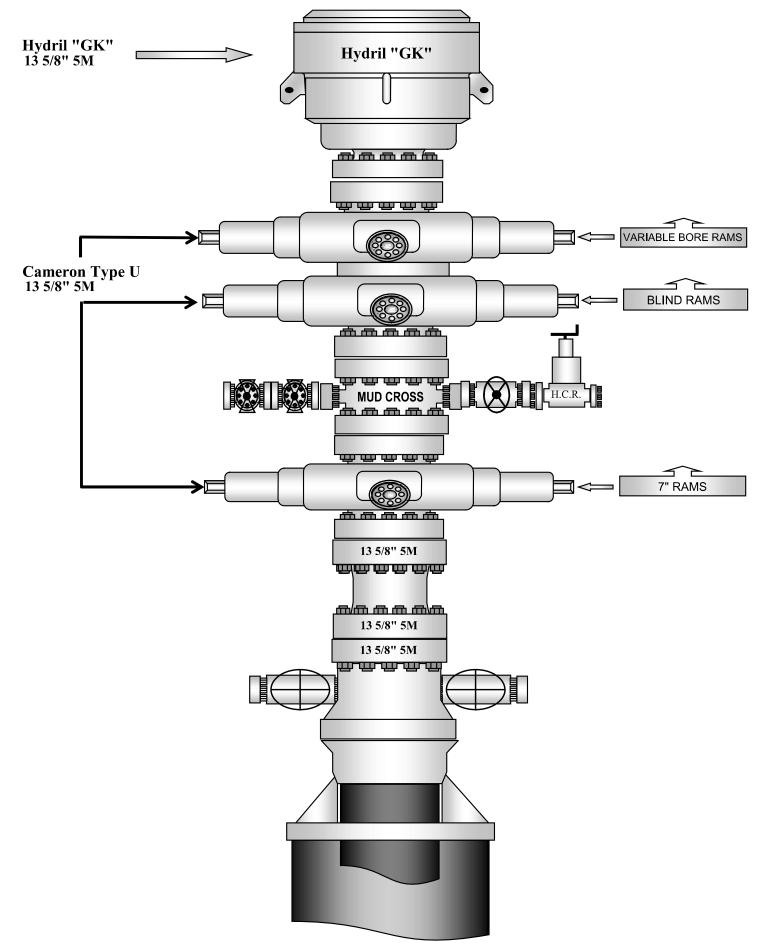


# 13-5/8" MN-DS Wellhead System





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## **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'	1100'	13.375"	48	H40	STC	1.60	3.60	2.86	4.80
12.25"	0'	2400'	9.625"	36	J55	LTC	1.62	2.82	5.24	6.53
8.75"	0'	8000'	7"	26	P110	LTC	1.60	2.56	3.33	3.99
6.125"	7950'	16610'	4.5"	13.5	P110	LTC	2.01	2.33	2.89	3.61
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	

## **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'	1100'	13.375"	48	H40	STC	1.60	3.60	2.86	4.80
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8.75"	0'	8000'	7"	26	P110	LTC	1.60	2.56	3.33	3.99
6.125"	7950'	16610'	4.5"	13.5	P110	LTC	2.01	2.33	2.89	3.61
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide 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?	
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## **Casing Program**

Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
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6.125"	7950'	16610'	4.5"	13.5	P110	LTC	2.01	2.33	2.89	3.61
				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?	
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## **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'	1100'	13.375"	48	H40	STC	1.60	3.60	2.86	4.80
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6.125"	7950'	16610'	4.5"	13.5	P110	LTC	2.01	2.33	2.89	3.61
				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
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Is well located in SOPA but not in R-111-P?	N
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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?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# **Mewbourne Oil Company**

Lea County, New Mexico NAD 83 Castle Black 6/1 B2CD Fed Com #1H Sec 6, T18S, R32E SHL: 1700' FNL & 2610' FWL, Sec 6, T18S, R32E (Lea Co) BHL: 500' FNL & 100' FEL, Sec 1, T18S, R31E (Eddy Co)

Plan: Design #1

# **Standard Planning Report**

16 February, 2022

Database: Company: Project: Site: Well: Wellbore: Design:	Lea Co Castle I Sec 6, <sup>-</sup> BHL: 50	urne Oil Com unty, New Me Black 6/1 B20 T18S, R32E 00' FNL & 100 Eddy Co) #1	exico NAD 83 CD Fed Com	#1H	TVD Refe MD Refer North Ref	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Site Castle Black 6/1 B2CD Fed Com #1H WELL @ 3861.0usft (Original Well Elev) WELL @ 3861.0usft (Original Well Elev) Grid Minimum Curvature			
Ducient		inty, New Me:										
Project Map System: Geo Datum: Map Zone:	US State North Ame	Plane 1983 erican Datum ico Eastern Zo	1983		System Da	tum:	Me	ean Sea Level				
Site	Castle B	Black 6/1 B2C	D Fed Com #	‡1H								
Site Position: From: Position Uncertainty:	Мар	0.0	Eas	thing: ting: t Radius:	703,	614.47 usft 421.05 usft 13-3/16 "	Latitude: Longitude:			32.779215 -103.8059573		
Well	Sec 6, T	18S, R32E										
Well Position	+N/-S +E/-W			Northing: Easting:		647,614.47 703,421.05		itude: ngitude:		32.779215 -103.8059573		
Position Uncertainty Grid Convergence:			).0 usft 29 °	Wellhead Eleva	ation:	3,861.0	usft Gro	ound Level:		3,834.0 ust		
Wellbore	BHL: 50	00' FNL & 100	)' FEL, Sec 1	, T18S, R31E (	Eddy Co)							
Magnetics	Mod	lel Name	Sam	ple Date	Declina (°)		Dip A (°		Field Stre (nT)	ngth		
		IGRF2010		12/31/2014		7.30		60.57	48,566	.85378116		
Design	Design #	<b>#1</b>										
Audit Notes:												
Version:			Pha	ase:	PROTOTYPE	Tie	On Depth:		0.0			
Vertical Section:		Γ	Depth From (	(TVD)	+N/-S		/ <b>-W</b>	Diı	rection			
			<b>(usft)</b> 0.0		<b>(usft)</b> 0.0		sft) .0	2	(°) 78.41			
						-						
Plan Survey Tool Pro Depth From (usft)	ogram Depth (usfl	То	2/11/2022 (Wellbore)		Tool Name		Remarks					
1 0.0	16,60	09.6 Design	#1 (BHL: 50	0' FNL & 100'								
Plan Sections												
	nation °)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target		
(40.1)												
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00			
· / · ·	0.00 0.00 12.11	0.00 0.00 23.62	0.0 1,100.0 1,701.0	0.0	0.0	0.00 0.00 2.00	0.00 0.00 2.00	0.00 0.00 0.00	0.00 0.00 23.62			

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23.62

0.00

269.66

269.66

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8,396.0

8,522.0

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89.07

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8,848.5

16,609.6

2/16/2022 12:08:30PM

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525.7

-38.0

-7,797.9

0.00

2.00

10.00

0.00

0.00

-2.00

10.00

0.00

0.00

0.00

0.00

0.00

0.00

-90.34

1,143.8

1,202.2

1,198.9

1,153.2

COMPASS 5000.16 Build 97

180.00 KOP: 500' FNL & 216

0.00 BHL/Exit: 500' FNL &

Database:	Hobbs	Local Co-ordinate Reference:	Site Castle Black 6/1 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3861.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3861.0usft (Original Well Elev)
Site:	Castle Black 6/1 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 6, T18S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 100' FEL, Sec 1, T18S,		
	R31E (Eddy Co)		
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
SHL: 1700' F	-NL & 2610' FWL	. (6)							
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	0.0
400.0	0.00	0.00	400.0	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	0.0
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	2.00	23.62	1,200.0	1.6	0.7	-0.5	2.00	2.00	0.00
1,300.0	4.00	23.62	1,299.8	6.4	2.8	-1.8	2.00	2.00	0.00
1,400.0	6.00	23.62	1,399.5	14.4	6.3	-4.1	2.00	2.00	0.0
1,500.0	8.00	23.62	1,498.7	25.5	11.2	-7.3	2.00	2.00	0.00
1,600.0	10.00	23.62	1,496.7	25.5 39.9	17.4	-11.4	2.00	2.00	0.0
1,600.0	12.11	23.62	1,597.5	39.9 58.4	25.5	-11.4	2.00	2.00	0.0
1,800.0	12.11	23.62	1,793.4	76.6	33.5	-21.9	0.00	0.00	0.0
1,900.0	12.11	23.62	1,891.2	95.8	41.9	-27.4	0.00	0.00	0.0
2,000.0	12.11	23.62	1,988.9	115.0	50.3	-32.9	0.00	0.00	0.0
2,100.0	12.11	23.62	2,086.7	134.2	58.7	-38.4	0.00	0.00	0.0
2,200.0	12.11	23.62	2,184.5	153.5	67.1	-43.9	0.00	0.00	0.0
2,300.0	12 <u>.</u> 11	23.62	2,282.3	172.7	75.5	-49.4	0.00	0.00	0.0
2,400.0	12.11	23.62	2,380.0	191.9	83.9	-54.9	0.00	0.00	0.0
2,500.0	12.11	23.62	2,477.8	211.1	92.3	-60.4	0.00	0.00	0.0
2,600.0	12.11	23.62	2,575.6	230.4	100.7	-65.9	0.00	0.00	0.0
2,700.0	12.11	23.62	2,673.4	249.6	109.1	-71.5	0.00	0.00	0.0
2,800.0	12.11	23.62	2,771.1	268.8	117.5	-77.0	0.00	0.00	0.00
2,900.0	12.11	23.62	2,868.9	288.0	125.9	-82.5	0.00	0.00	0.00
3,000.0	12.11	23.62	2,966.7	307.2	134.4	-88.0	0.00	0.00	0.0
3,100.0	12.11	23.62	3,064.5	326.5	142.8	-93.5	0.00	0.00	0.0
3,200.0	12.11	23.62	3,162.2	345.7	151.2	-99.0	0.00	0.00	0.0
3,300.0	12.11	23.62	3,260.0	364.9	159.6	-104.5	0.00	0.00	0.0
3,300.0	12.11	23.62	3,357.8	384.1	168.0	-104.5	0.00	0.00	0.0
3,500.0	12.11	23.62	3,455.6	403.4	176.4	-115.5	0.00	0.00	0.0
3,600.0	12.11	23.62	3,553.3	422.6	184.8	-121.0	0.00	0.00	0.0
3,700.0	12.11	23.62	3,651.1	441.8	193.2	-126.5	0.00	0.00	0.0
3,800.0	12.11	23.62	3,748.9	461.0	201.6	-132.0	0.00	0.00	0.0
3,900.0	12.11	23.62	3,846.7	480.2	210.0	-137.5	0.00	0.00	0.0
4,000.0	12.11	23.62	3,944.4	499.5	218.4	-143.0	0.00	0.00	0.0
4,000.0	12.11	23.62	4,042.2	499.5 518.7	216.4	-143.0	0.00	0.00	0.0
			4,042.2 4,140.0						
4,200.0	12.11	23.62		537.9	235.2	-154.0	0.00	0.00	0.00
4,300.0	12.11	23.62	4,237.8	557.1	243.6	-159.5	0.00	0.00	0.0
4,400.0	12.11	23.62	4,335.5	576.4	252.0	-165.0	0.00	0.00	0.0
4,500.0	12.11	23.62	4,433.3	595.6	260.4	-170.5	0.00	0.00	0.0
4,600.0	12.11	23.62	4,531.1	614.8	268.8	-176.0	0.00	0.00	0.0
4,700.0	12.11	23.62	4,628.9	634.0	277.3	-181.5	0.00	0.00	0.00
4,800.0	12.11	23.62	4,726.6	653.2	285.7	-187.0	0.00	0.00	0.0
4,900.0	12.11	23.62	4,824.4	672.5	294.1	-192.5	0.00	0.00	0.0
5,000.0	12.11	23.62	4,922.2	691.7	302.5	-198.0	0.00	0.00	0.00
5,100.0	12.11	23.62	5,020.0	710.9	310.9	-203.5	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Castle Black 6/1 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3861.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3861.0usft (Original Well Elev)
Site:	Castle Black 6/1 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 6, T18S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 100' FEL, Sec 1, T18S,		
	R31E (Eddy Co)		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	12.11	23.62	5,117.7	730.1	319.3	-209.0	0.00	0.00	0.00
5,300.0	12.11	23.62	5,215.5	749.4	327.7	-214.5	0.00	0.00	0.00
5,400.0	12.11	23.62	5,313.3	768.6	336.1	-220.0	0.00	0.00	0.00
5,500.0	12.11	23.62	5,411.1	787.8	344.5	-225.5	0.00	0.00	0.00
5,600.0	12.11	23.62	5,508.8	807.0	352.9	-231.0	0.00	0.00	0.00
5,700.0	12.11	23.62	5,606.6	826.2	361.3	-236.6	0.00	0.00	0.00
5,800.0	12.11	23.62	5,704.4	845.5	369.7	-242.1	0.00	0.00	0.00
5,900.0	12.11	23.62	5,802.2	864.7	378.1	-247.6	0.00	0.00	0.00
6,000.0	12.11	23.62	5,899.9	883.9	386.5	-253.1	0.00	0.00	0.00
6,100.0	12.11	23.62	5,997.7	903.1	394.9	-258.6	0.00	0.00	0.00
6,200.0	12.11	23.62	6,095.5	922.3	403.3	-264.1	0.00	0.00	0.00
6,300.0	12.11	23.62	6,193.3	941.6	411.7	-269.6	0.00	0.00	0.00
6,400.0	12 <u>.</u> 11	23.62	6,291.0	960.8	420.2	-275.1	0.00	0.00	0.00
6,500.0	12.11	23.62	6,388.8	980.0	428.6	-280.6	0.00	0.00	0.00
6,600.0	12.11	23.62	6,486.6	999.2	437.0	-286.1	0.00	0.00	0.00
6,700.0	12.11	23.62	6,584.3	1,018.5	445.4	-291.6	0.00	0.00	0.00
6,800.0	12.11	23.62	6,682.1	1,037.7	453.8	-297.1	0.00	0.00	0.00
6,900.0	12.11	23.62	6,779.9	1,056.9	462.2	-302.6	0.00	0.00	0.00
7,000.0	12.11	23.62	6,877.7	1,076.1	470.6	-308.1	0.00	0.00	0.00
7,100.0	12.11	23.62	6,975.4	1,095.3	479.0	-313.6	0.00	0.00	0.00
7,200.0	12.11	23.62	7,073.2	1,114.6	487.4	-319.1	0.00	0.00	0.00
7,300.0	12.11	23.62	7,171.0	1,133.8	495.8	-324.6	0.00	0.00	0.00
7,352.1	12.11	23.62	7,222.0	1,143.8	500.2	-327.5	0.00	0.00	0.00
7,400.0	11.15	23.62	7,268.9	1,152.7	504.1	-330.0	2.00	-2.00	0.00
7,500.0	9.15	23.62	7,367.3	1,168.8	511.1	-334.6	2.00	-2.00	0.00
7,600.0	7.15	23.62	7,466.3	1,181.8	516.8	-338.3	2.00	-2.00	0.00
7,800.0	5.15	23.62	7,466.3	1,101.0	510.0	-330.3	2.00	-2.00	0.00
7,800.0	3.15	23.62	7,665.4	1,198.3	524.0	-343.1	2.00	-2.00	0.00
7,900.0	1.15	23.62	7,765.3	1,201.7	525.5	-344.0	2.00	-2.00	0.00
7,957.7	0.00	0.00	7,823.0	1,202.2	525.7	-344.2	2.00	-2.00	0.00
	NL & 2166' FEL (		7 005 0	1 000 0	504.0	0.40 7	10.00	10.00	0.00
8,000.0	4.23	269.66	7,865.3	1,202.2	524.2	-342.7	10.00	10.00	0.00
8,050.0	9.23	269.66	7,914.9	1,202.2	518.3	-336.9	10.00	10.00	0.00
8,100.0	14.23	269.66	7,963.9	1,202.1	508.1	-326.8	10.00	10.00	0.00
8,150.0	19.23	269.66	8,011.7	1,202.0	493.8	-312.6	10.00	10.00	0.00
8,200.0	24.23	269.66	8,058.2	1,201.9	475.3	-294.3	10.00	10.00	0.00
8,250.0	29.23	269.66	8,102.8	1,201.8	452.8	-272.1	10.00	10.00	0.00
8,300.0	34.23	269.66	8,145.3	1,201.6	426.5	-246.1	10.00	10.00	0.00
8,350.0	39.23	269.66	8,185.4	1,201.5	396.6	-216.6	10.00	10.00	0.00
8,400.0	44.22	269.66	8,222.7	1,201.3	363.3	-183.7	10.00	10.00	0.00
8,450.0	49.22	269.66	8,257.0	1,201.1	326.9	-147.7	10.00	10.00	0.00
8,500.0	54.22	269.66	8,287.9	1,200.8	287.7	-108.9	10.00	10.00	0.00
8,550.0	59.22	269.66	8,315.4	1,200.6	245.9	-67.6	10.00	10.00	0.00
8,600.0	64.22	269.66	8,339.0	1,200.3	201.9	-24.1	10.00	10.00	0.00
8,650.0	69.22	269.66	8,358.8	1,200.1	156.0	21.3	10.00	10.00	0.00
8,000.0	74.22	269.66	8,358.8 8,374.5	1,199.8	108.5	68.2	10.00	10.00	0.00
8,700.0	74.22	269.66	8,374.5 8,386.0	1,199.8	59.9	116.2	10.00	10.00	0.00
8,750.0	79.22 84.22		8,386.0 8,393.2				10.00	10.00	0.00
8,800.0	84.22 89.07	269.66 269.66	8,393.2 8,396.0	1,199.2 1,198.9	10.4 -38.0	165.1 213.0	10.00	10.00	0.00
8,857.8	89.07	269.66	8,396.1	1,198.9	-47.3	222.1	0.00	0.00	0.00
	00' FNL & 2572' F		0.000.0	4 400 0	00 5	000.0	0.00	0.00	0.00
8,900.0	89.07	269.66	8,396.8	1,198.6	-89.5	263.9	0.00	0.00	0.00
9,000.0	89.07	269.66	8,398.5	1,198.0	-189.5	362.7	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Castle Black 6/1 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3861.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3861.0usft (Original Well Elev)
Site:	Castle Black 6/1 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 6, T18S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 100' FEL, Sec 1, T18S,		
	R31E (Eddy Co)		
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)
9,100.0	89.07	269.66	8,400.1	1,197.4	-289.5	461.5	0.00	0.00	0.00
9,200.0	89.07	269.66	8,401.7	1,196.8	-389.4	560.3	0.00	0.00	0.00
9,300.0	89.07	269.66	8,403.3	1,196.2	-489.4	659.2	0.00	0.00	0.00
9,400.0	89.07	269.66	8,405.0	1,195.7	-589.4	758.0	0.00	0.00	0.00
9,500.0	89.07	269.66	8,406.6	1,195.1	-689.4	856.8	0.00	0.00	0.00
9,600.0	89.07	269.66	8,408.2	1,194.5	-789.4	955.6	0.00	0.00	0.00
9,700.0	89.07	269.66	8,409.8	1,193.9	-889.4	1,054.4	0.00	0.00	0.00
9,800.0	89.07	269.66	8,411.4	1,193.3	-989.3	1,153.3	0.00	0.00	0.00
9,900.0	89.07	269.66	8,413.1	1,192.7	-1,089.3	1,252.1	0.00	0.00	0.00
10,000.0	89.07	269.66	8,414.7	1,192.1	-1,189.3	1,350.9	0.00	0.00	0.00
10,100.0	89.07	269.66	8,416.3	1,191.5	-1,289.3	1,449.7	0.00	0.00	0.00
10,200.0	89.07	269.66	8,417.9	1,190.9	-1,389.3	1,548.6	0.00	0.00	0.00
10,300.0	89.07	269.66	8,419.6	1,190.4	-1,489.3	1,647.4	0.00	0.00	0.00
10,400.0	89.07	269.66	8,421.2	1,189.8	-1,589.3	1,746.2	0.00	0.00	0.00
10,500.0	89.07	269.66	8,422.8	1,189.2	-1,689.2	1,845.0	0.00	0.00	0.00
10,600.0	89.07	269.66	8,424.4	1,188.6	-1,789.2	1,943.9	0.00	0.00	0.00
10,700.0	89.07	269.66	8,426.1	1,188.0	-1,889.2	2,042.7	0.00	0.00	0.00
10,800.0	89.07	269.66	8,427.7	1,187.4	-1,989.2	2,141.5	0.00	0.00	0.00
10,900.0	89.07	269.66	8,429.3	1,186.8	-2,089.2	2,240.3	0.00	0.00	0.00
11,000.0	89.07	269.66	8,430.9	1,186.2	-2,189.2	2,339.2	0.00	0.00	0.00
11,100.0	89.07	269.66	8,432.6	1,185.6	-2,289.2	2,438.0	0.00	0.00	0.00
11,200.0	89.07	269.66	8,434.2	1,185.1	-2,389.1	2,536.8	0.00	0.00	0.00
11,300.0	89.07	269.66	8,435.8	1,184.5	-2,489.1	2,635.6	0.00	0.00	0.00
11,400.0	89.07	269.66	8,437.4	1,183.9	-2,589.1	2,734.4	0.00	0.00	0.00
11,427.6	89.07	269.66	8,437.9	1,183.7	-2,616.7	2,761.7	0.00	0.00	0.00
	FNL & 0' FEL (1)								
11,500.0	89.07	269.66	8,439.0	1,183.3	-2,689.1	2,833.3	0.00	0.00	0.00
11,600.0	89.07	269.66	8,440.7	1,182.7	-2,789.1	2,932.1	0.00	0.00	0.00
11,700.0	89.07	269.66	8,442.3	1,182.1	-2,889.1	3,030.9	0.00	0.00	0.00
11,800.0	89.07	269.66	8,443.9	1,181.5	-2,989.0	3,129.7	0.00	0.00	0.00
11,900.0	89.07	269.66	8,445.5	1,180.9	-3,089.0	3,228.6	0.00	0.00	0.00
12,000.0	89.07	269.66	8,447.2	1,180.3	-3,189.0	3,327.4	0.00	0.00	0.00
12,100.0	89.07	269.66	8,448.8	1,179.8	-3,289.0	3,426.2	0.00	0.00	0.00
12,200.0	89.07	269.66	8,450.4	1,179.2	-3,389.0	3,525.0	0.00	0.00	0.00
12,300.0	89.07	269.66	8,452.0	1,178.6	-3,489.0	3,623.9	0.00	0.00	0.00
12,400.0	89.07	269.66	8,453.7	1,178.0	-3,589.0	3,722.7	0.00	0.00	0.00
12,500.0	89.07	269.66	8,455.3	1,177.4	-3,688.9	3,821.5	0.00	0.00	0.00
12,600.0	89.07	269.66	8,456.9	1,176.8	-3,788.9	3,920.3	0.00	0.00	0.00
12,700.0	89.07	269.66	8,458.5	1,176.2	-3,888.9	4,019.1	0.00	0.00	0.00
12,800.0	89.07	269.66	8,460.2	1,175.6	-3,988.9	4,118.0	0.00	0.00	0.00
12,900.0	89.07	269.66	8,461.8	1,175.0	-4,088.9	4,216.8	0.00	0.00	0.00
13,000.0	89.07	269.66	8,463.4	1,174.4	-4,188.9	4,315.6	0.00	0.00	0.00
13,100.0	89.07	269.66	8,465.0	1,173.9	-4,288.9	4,414.4	0.00	0.00	0.00
13,200.0	89.07	269.66	8,466.6	1,173.3	-4,388.8	4,513.3	0.00	0.00	0.00
13,300.0	89.07	269.66	8,468.3	1,172.7	-4,488.8	4,612.1	0.00	0.00	0.00
13,400.0	89.07	269.66	8,469.9	1,172.1	-4,588.8	4,710.9	0.00	0.00	0.00
13,500.0	89.07	269.66	8,471.5	1,171.5	-4,688.8	4,809.7	0.00	0.00	0.00
13,600.0	89.07	269.66	8,473.1	1,170.9	-4,788.8	4,908.6	0.00	0.00	0.00
13,700.0	89.07	269.66	8,474.8	1,170.3	-4,888.8	5,007.4	0.00	0.00	0.00
13,800.0	89.07 89.07	269.66	8,476.4 8,478.0	1,169.7 1,169.1	-4,988.7	5,106.2	0.00	0.00	0.00
13,900.0 14,000.0	89.07 89.07	269.66 269.66	8,478.0 8,479.6	1,169.1 1 168.6	-5,088.7 -5,188.7	5,205.0 5,303.8	0.00 0.00	0.00 0.00	0.00 0.00
14,000.0	89.07	269.66	8,479.6 8,480.8	1,168.6 1,168.1	-5,188.7 -5,259.8	5,303.8 5,374.1	0.00	0.00	0.00
ו זט,דו	00.01	200.00	0,700.0	1,100.1	0,200.0	0,07 - 1	0.00	0.00	0.00

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COMPASS 5000.16 Build 97

Database:	Hobbs	Local Co-ordinate Reference:	Site Castle Black 6/1 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3861.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3861.0usft (Original Well Elev)
Site:	Castle Black 6/1 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 6, T18S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 100' FEL, Sec 1, T18S,		
	R31E (Eddy Co)		
Design:	Design #1		

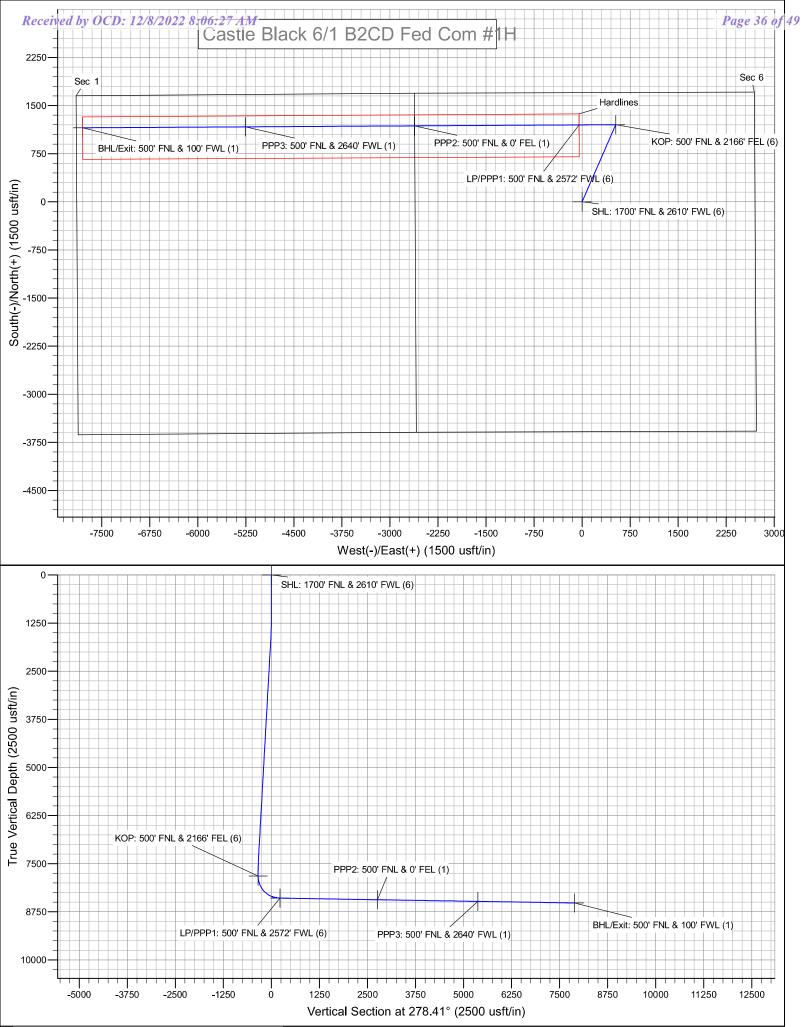
Planned Survey

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)
PPP3: 500' F	NL & 2640' FWL	. (1)							
14,100.0	89.07	269.66	8,481.3	1,168.0	-5,288.7	5,402.7	0.00	0.00	0.00
14,200.0	89.07	269.66	8,482.9	1,167.4	-5,388.7	5,501.5	0.00	0.00	0.00
14,300.0	89.07	269.66	8,484.5	1,166.8	-5,488.7	5,600.3	0.00	0.00	0.00
14,400.0	89.07	269.66	8,486.1	1,166.2	-5,588.7	5,699.1	0.00	0.00	0.00
14,500.0	89.07	269.66	8,487.8	1,165.6	-5,688.6	5,798.0	0.00	0.00	0.00
14,600.0	89.07	269.66	8,489.4	1,165.0	-5,788.6	5,896.8	0.00	0.00	0.00
14,700.0	89.07	269.66	8,491.0	1,164.4	-5,888.6	5,995.6	0.00	0.00	0.00
14,800.0	89.07	269.66	8,492.6	1,163.8	-5,988.6	6,094.4	0.00	0.00	0.00
14,900.0	89.07	269.66	8,494.2	1,163.3	-6,088.6	6,193.3	0.00	0.00	0.00
15,000.0	89.07	269.66	8,495.9	1,162.7	-6,188.6	6,292.1	0.00	0.00	0.00
15,100.0	89.07	269.66	8,497.5	1,162.1	-6,288.6	6,390.9	0.00	0.00	0.00
15,200.0	89.07	269.66	8,499.1	1,161.5	-6,388.5	6,489.7	0.00	0.00	0.00
15,300.0	89.07	269.66	8,500.7	1,160.9	-6,488.5	6,588.5	0.00	0.00	0.00
15,400.0	89.07	269.66	8,502.4	1,160.3	-6,588.5	6,687.4	0.00	0.00	0.00
15,500.0	89.07	269.66	8,504.0	1,159.7	-6,688.5	6,786.2	0.00	0.00	0.00
15,600.0	89.07	269.66	8,505.6	1,159.1	-6,788.5	6,885.0	0.00	0.00	0.00
15,700.0	89.07	269.66	8,507.2	1,158.5	-6,888.5	6,983.8	0.00	0.00	0.00
15,800.0	89.07	269.66	8,508.9	1,158.0	-6,988.5	7,082.7	0.00	0.00	0.00
15,900.0	89.07	269.66	8,510.5	1,157.4	-7,088.4	7,181.5	0.00	0.00	0.00
16,000.0	89.07	269.66	8,512.1	1,156.8	-7,188.4	7,280.3	0.00	0.00	0.00
16,100.0	89.07	269.66	8,513.7	1,156.2	-7,288.4	7,379.1	0.00	0.00	0.00
16,200.0	89.07	269.66	8,515.4	1,155.6	-7,388.4	7,478.0	0.00	0.00	0.00
16,300.0	89.07	269.66	8,517.0	1,155.0	-7,488.4	7,576.8	0.00	0.00	0.00
16,400.0	89.07	269.66	8,518.6	1,154.4	-7,588.4	7,675.6	0.00	0.00	0.00
16,500.0	89.07	269.66	8,520.2	1,153.8	-7,688.3	7,774.4	0.00	0.00	0.00
16,609.6	89.07	269.66	8,522.0	1,153.2	-7,797.9	7,882.7	0.00	0.00	0.00

Database:	Hobbs	Local Co-ordinate Reference:	Site Castle Black 6/1 B2CD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3861.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3861.0usft (Original Well Elev)
Site:	Castle Black 6/1 B2CD Fed Com #1H	North Reference:	Grid
Well:	Sec 6, T18S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 500' FNL & 100' FEL, Sec 1, T18S,		
	R31E (Eddy Co)		
Design:	Design #1		

#### 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: 1700' FNL & 2610' - plan hits target cente - Point	0.00 r	0.00	0.0	0.0	0.0	647,614.47	703,421.05	32.7792151	-103.8059573
KOP: 500' FNL & 2166' f - plan hits target cente - Point	0.00 r	0.00	7,823.0	1,202.2	525.7	648,816.70	703,946.78	32.7825123	-103.8042273
LP/PPP1: 500' FNL & 25 - plan hits target cente - Point	0.00 r	0.00	8,396.1	1,198.9	-47.3	648,813.33	703,373.79	32.7825109	-103.8060917
PPP2: 500' FNL & 0' FEI - plan hits target cente - Point	0.00 r	0.00	8,437.9	1,183.7	-2,616.7	648,798.19	700,804.34	32.7825042	-103.8144522
PPP3: 500' FNL & 2640' - plan hits target cente - Point	0.00 r	0.00	8,480.8	1,168.1	-5,259.8	648,782.61	698,161.25	32.7824967	-103.8230524
BHL/Exit: 500' FNL & 10 - plan hits target cente - Point	0.00 r	0.00	8,522.0	1,153.2	-7,797.9	648,767.65	695,623.12	32.7824889	-103.8313110



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Intent	Х	As Drilled
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Operator Name:	Property Name:	Well Number
Mewbourne Oil Co.	Castle Black 6/1 B2CD Fed Com	1H

### Kick Off Point (KOP)

UL B	Section 6	Township 18S	Range 32E	Lot	Feet 500	From N/S <b>N</b>	Feet 2166	From E/W E	<sup>County</sup> Lea
Latitu	Latitude			Longitude	Longitude			NAD	
32.7	32.7825123			-103.804	2273			83	

## First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	6	18S	32E		500	N	2572	W	Lea
	Latitude			Longitude			NAD		
	32.7825109			-103.8060917			83		

## Last Take Point (LTP)

UL D	Section 1	Township 18S	Range 31E	Lot	Feet 500	From N/S N	Feet 100	From E/W	County Eddy
Latitude				U	Longitude			NAD	
32.7	782488	39			-103.8	8313110	1		83

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

Is this well an infill well?

N

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.:	NMNM111242
WELL NAME & NO.:	Castle Black 6-1 B2CD Fed Com 1H
<b>SURFACE HOLE FOOTAGE:</b>	1700'/N & 2610'/W
<b>BOTTOM HOLE FOOTAGE</b>	500'/N & 100'/W
LOCATION:	Section 06, T.18 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

## COA

H2S	• Yes	O No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	C High
Cave/Karst Potential	C Critical		
Variance	© None	Flex Hose	© Other
Wellhead	C Conventional	Multibowl	© 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 Pearsall Queen formations. 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 1100 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 <u>8</u>
   <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 **2400** 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 20%, 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.
     Excess cement calculates to 21%, additional cement might be required.
- 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 **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) 393-3612

- 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 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.

## OTA03212022

## 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. <u>Visual Warning Systems</u>

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
	<b>Bradley Bishop</b>	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: CASTLE BLACK 6/1 B2CD FED COM

**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.)

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 specifications and installation description Received by OCD: 12/8/2022 8:06:27 AM

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: CASTLE BLACK 6/1 B2CD FED COM

Well Number: 1H

Are you requesting any Ancillary Facilities?: N

**Section 8 - Ancillary** 

**Ancillary Facilities** 

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

CastleBlack6\_1B2CDFedCom1H\_wellsitelayout\_20220217150831.pdf

**Comments:** 

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

**Type of disturbance:** New Surface Disturbance

Multiple Well Pad Name: Castle Black 6/1 FE & CD/Winterfell 6/5 B2GH Fed Com wells Multiple Well Pad Number: 4

Recontouring

Drainage/Erosion control construction: NONE

Drainage/Erosion control reclamation: NONE

Well pad proposed disturbance (acres): 5.9	Well pad interim reclamation (acres): 1.25	Well pad long term disturbance (acres): 4.65
Road proposed disturbance (acres): 0.89	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: 6.79	Total interim reclamation: 1.25	Total long term disturbance: 4.65

**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.

Rease if redistribution 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,

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	165204
	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	12/16/2022
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	12/16/2022
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	12/16/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	12/16/2022

Action 165204