Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMLC029389E **BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: Oil Well 1b. Type of Well: Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone FRESH SQUEEZED 6/5 FED COM 521H 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30-015-56991 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) N SHUGART/BONE SPRING P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 6/T18S/R31E/NMP At surface LOT 4 / 1300 FNL / 700 FWL / LAT 32.7801142 / LONG -103.9145785 At proposed prod. zone LOT 1 / 350 FNL / 100 FEL / LAT 32.7827927 / LONG -103.883505 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State **EDDY** NM 10 miles 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 330 feet location to nearest property or lease line, ft. 320.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 20 feet 8040 feet / 17967 feet FED: NM1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3589 feet 07/18/2024 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the Name (Printed/Typed) Date 25. Signature BRADLEY BISHOP / Ph: (575) 393-5905 11/19/2024 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 05/19/2025 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency

\*(Instructions on page 2)

Phone: (505) 629-6116

Online Phone Directory Visit:

https://www.emnrd.nm.gov/ocd/contact-us/

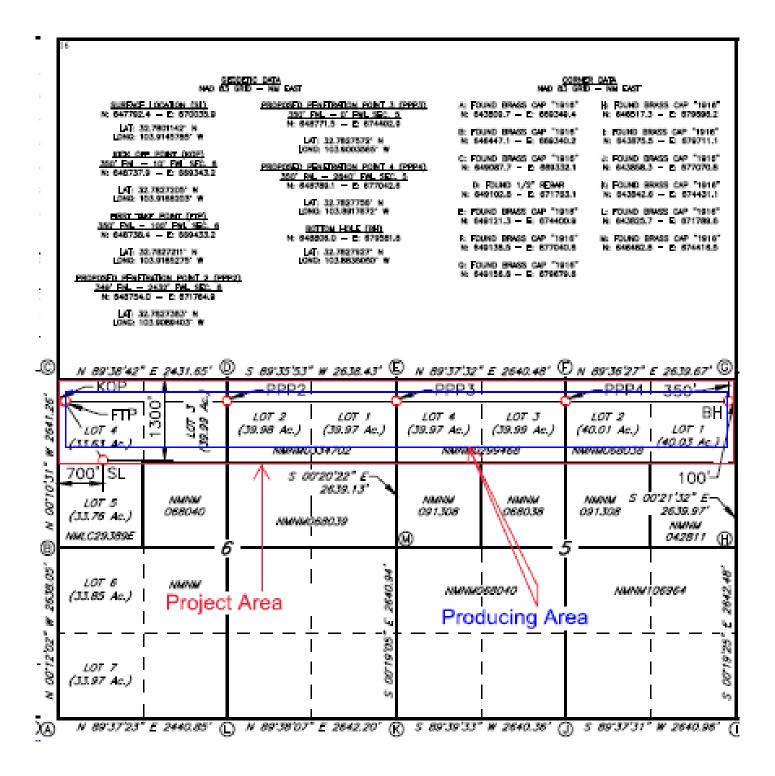
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 2024
	Submit Electronically
	via OCD Permitting
C 1 1	☐ Initial Submittal
Submittal Type:	☐ Amended Report

							Type:	☐ Amended	Report
								☐ As Drille	1
					WELL LOCAT	ION INFORMATION			
API Nu	nber 30-015-56	991	Pool Code	5640	5 P	Pool Name SHUGART NORTH; BONE SPRING			
Property	Code 337396		Property Na	me F	RESH SQUE	JEEZED 6/5 FED COM Well Number 521h			
OGRID	No. 14	744	Operator Na	me N	1EWBOURNI	E OIL COMPAN	1Y	Ground Leve	
Surface	Owner:   S	tate 🗆 Fee 🗆	Tribal 💢 Fede	eral		Mineral Owner:   S	State □ Fee □ Tribal 🕽		
					Surfa	ce Location			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	6	18S	31E		1300 FNL	700 FWL	32.7801142	-103.9145785	EDDY
					Bottom	Hole Location			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Α	5	18S	31E		350 FNL	100 FEL	32.7827383	-103.9089403	EDDY
Dadiost	ad A amag	Infil on Dofin	in a Wall	Dofinin	wall ADI	Overdonning Supping	Unit (V/N) Consolid	dation Code	
Dedicate		Infill or Defin	•	Delinin	ig Well API	Overlapping Spacing	Unit (Y/N) Consolid	dation Code	.1/A
320 DEFINING Order Numbers.					Well setbacks are und	er Common Ownership		N/A	
0140111						Wen setoucks are und	er common o whersing	, <u> </u>	
				П	1	f Point (KOP)	T		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	6	18	31	4	350 FNL	10 FWL	32.7827205	-103.9168203	EDDY
				T		ke Point (FTP)	1	,	1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	6	18	31	4	350 FNL	100 FWL	32.7827211	-103.9165275	EDDY
				Ι_	1	ce Point (LTP)	T		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	5	18	31	1	350 FNL	100 FEL	32.7827927	-103.8835050	EDDY
Unitized	l Area or Are	a of Uniform Ir	nterest	Specine	Linit Typo Marigo	untal   Vartical	Ground Floor F	Elevation:	1
				Spacing	g Unit Type <b>X</b> Horizo	mitai 🗆 Verticai	Growner roof 2	358	9
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS		
my knowl organizati including location p interest, o	ledge and belic tion either own the proposed pursuant to a c	ef, and, if the well as a working inter bottom hole locat ontract with an o	is a vertical or est or unleased tion or has a rig wner of a workir	directional mineral int ht to drill to ng interest o	erest in the land	I hereby certify that the we surveys made by me or unde my belief.		the same is true an	
consent of in each tr interval v	f at least one l act (in the tar vill be located	essee or owner of get pool or forma or obtained a con	a working inter tion) in which a npulsory pooling	est or unled my part of t	on has received the ased mineral interest he well's completed m the division.		ROPHUS/ONAL SI	SE S	
Signature	ian W	Cdanie	Date		6/5/25	Signature and Seal of Professi			
RY. Printed N	AN MCI	DANIEL				Robert M. Certificate Number	Date of Survey		
	ANMCD	ANIEL@	MEWBC	URNI	E.COM	19680	Date of Survey		

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



## State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

# NATURAL GAS MANAGEMENT PLAN

This Natural Gas Manag	gement Plan mı	ust be submitted wi	th each Applicat	ion for Permit to D	Orill (APD) for a	new or rec	completed well.
			1 – Plan De fective May 25,				
I. Operator: Mev	wbourne C	Oil Co.	OGRID:	14744	Date:	09/19/20	)24
II. Type: X Original	☐ Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA(	C □ 19.15.27.9.D(	6)(b) NMAC □ (	Other.	
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					vells proposed to	be drilled	or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Prod	iticipated uced Water BBL/D
Fresh Squeezed 6/5 Fed	Com #521H	4 6 18S 31E	1300' FNL x	2000	1500		2000
			700' FWL	Y1-500, Y2-400, Y3-300	Y1-1000, Y2-800, Y3-600	Y1-500,	Y2-400, Y3-300
IV. Central Delivery P	oint Name:	Fresh Squeezed 6	/5 Fed Com #52	1H	[See 1	9.15.27.9	(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					ell or set of wells	s proposed	to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			irst Production Date
Fresh Squeezed 6/5 Fed	Com	11/24/2024	12/24/2024	01/24/2025	02/08/	2024	02/13/2024
#521H							
VI. Separation Equipm			-	•		•	
VII. Operational Prac Subsection A through F			iption of the act	ions Operator will	take to comply	with the i	requirements of
VIII. Best Management during active and planner			e description of	Operator's best m	anagement pract	tices to m	inimize venting

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

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

XIII. Line P	ressure. Operator	$\square$ does $\square$ does not	anticipate that its	existing well(s) con	nected to the s	same segment,	or portion,	of the
natural gas g	athering system(s)	described above wil	ll continue to meet	t anticipated increase	es in line press	sure caused by	the new we	ell(s).

Attach (	Onerator's	nlan to	manage	production	in response	to the	increased	line press	aure
Attach	Oberator s	Dian ic	ппапаче	Droduction	III Testionise	LO LHE	Hicreased	Time bress	sure

XIV. Confidentiality:   Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	led 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 inform	ıation
for which confidentiality is asserted and the basis for such assertion.	

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# Section 3 - Certifications <u>Effective May</u> 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖾 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. 

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) (b) power generation for grid; compression on lease; (c) liquids removal on lease; (d) reinjection for underground storage; (e) reinjection for temporary storage; **(f)** 

- reinjection for enhanced oil recovery; **(g)**
- fuel cell production; and (h)
- 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:
- 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
- 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.

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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:	09/19/2024
Phone:	575-393-5905
,	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Ap	pproval:

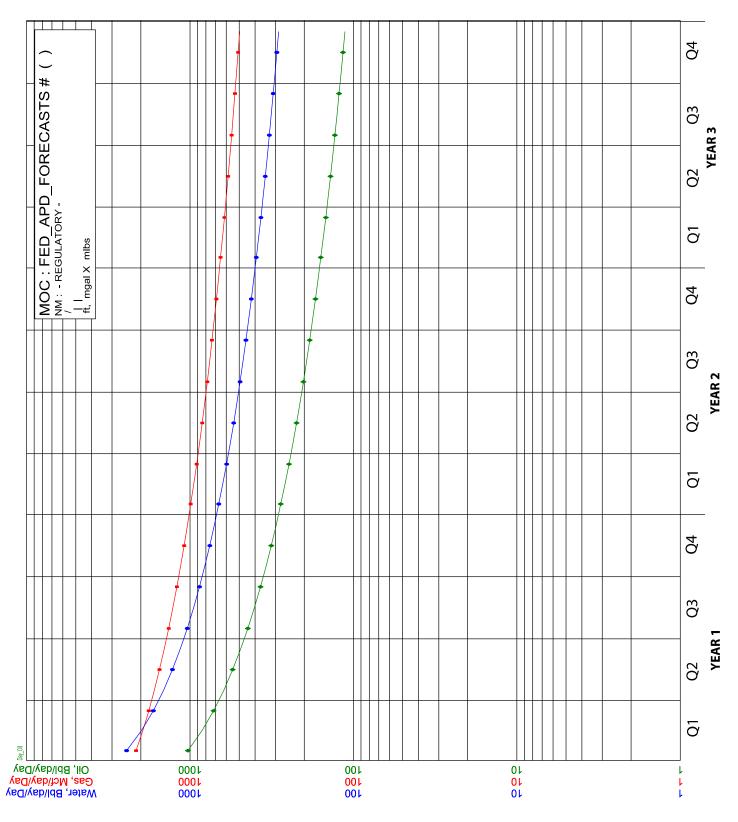
## Mewbourne Oil Company

## Natural Gas Management Plan – Attachment

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

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

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





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

# Drilling Plan Data Report 06/05/2025

**APD ID**: 10400100014

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FRESH SQUEEZED 6/5 FED COM

Well Type: OIL WELL

Submission Date: 11/19/2024

Well Number: 521H

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15646775	UNKNOWN	3515	28	28	OTHER : Topsoil	NONE	N
15646774	RUSTLER	3097	418	418	ANHYDRITE, DOLOMITE	USEABLE WATER	N
15646786	TOP SALT	2882	633	633	SALT	NONE	N
15646787	BASE OF SALT	2024	1491	1491	SALT	NONE	N
15646779	YATES	1832	1683	1683	SANDSTONE	NATURAL GAS, OIL	N
15646788	SEVEN RIVERS	1469	2046	2046	DOLOMITE	NATURAL GAS, OIL	N
15646780	QUEEN	828	2687	2687	DOLOMITE	NATURAL GAS, OIL	N
15646781	GRAYBURG	501	3014	3014	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
15646789	SAN ANDRES	39	3476	3476	LIMESTONE	NATURAL GAS, OIL	N
15646783	BONE SPRING	-1527	5042	5042	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
15646784	BONE SPRING 1ST	-3378	6893	6893	SANDSTONE	NATURAL GAS, OIL	Y
15646785	BONE SPRING 2ND	-3906	7421	7421	SANDSTONE	NATURAL GAS, OIL	Y

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 17967

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: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

**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:**

5M\_BOPE\_Choke\_Diagram\_20240718135835.pdf Flex\_Line\_Specs\_API\_16C\_20250130081924.pdf Multi\_Bowl\_WH\_20250130081925.pdf

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

5M\_BOPE\_Schematic\_20240718135852.pdf Cactus 5K WH 20240718135852.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	500	0	500	3589	3089	500	J-55	54.5	ST&C	5.05	12.2 1	DRY	18.8 6	DRY	31.3
2	INTERMED IATE	12 <b>.</b> 2 5	9.625	NEW	API	N	0	2000	0	2000		1589	2000	J-55	36	LT&C	1.85	3.22	DRY	6.29	DRY	7.83
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	7399	0	7294		-3705	7399	P- 110	26	LT&C	1.73	2.76	DRY	3.6	DRY	4.31
4	LINER	6.12 5	4.5	NEW	API	N	7199	17967	7128	8040	-3539	-4451	10768	P- 110	13.5	LT&C	2.32	2.7	DRY	2.33	DRY	2.9

## **Casing Attachments**

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

Casing ID: 1

String

SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $13.375 in\_54.5\_J55\_STC\_Csg\_20250130082203.pdf$ 

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $9.625 in\_36\_J55\_LTC\_Csg\_20250130082235.pdf$ 

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

7in\_26\_P110\_LTC\_Csg\_20250130082221.pdf

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

## **Casing Attachments**

Casing ID: 4

String

**LINER** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $4.5 in\_13.5\_P110\_LTC\_Csg\_20250130082250.pdf$ 

## **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	313	210	2.12	12.5	450	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	0	313	500	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1311	240	2.12	12.5	510	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail	1	1311	2000	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead		1800	4934	280	2.12	12.5	600	25	Class C	Salt, Gel, Extender, LCM, Defoamer
PRODUCTION	Tail		4934	7399	400	1.18	15.6	472	25	Class H	Retarder, Fluid loss, defoamer
LINER	Lead		7199	1796 7	690	1.85	13.5	1280	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

## **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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

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 (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	SPUD MUD	8.4	8.6							
500	2000	SALT SATURATED	9.5	10.5	1						
2000	7399	WATER-BASED MUD	8.6	9.5							
7399	1796 7	OIL-BASED MUD	10	11							

# **Section 6 - Test, Logging, Coring**

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

No logs are planned based on well control or offset log information. Offset Well: Fresh Squeezed 6-5 Fed Com 523H

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

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

Coring operation description for the well:

None

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4599 Anticipated Surface Pressure: 2830

**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

H2S\_Plan\_20240718141454.pdf

## **Section 8 - Other Information**

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

 $\label{eq:fresh_squeezed_6_5_fed_com_521H_dir_plot_20240722072332.pdf} FRESH\_SQUEEZED\_6\_5\_FED\_COM\_521H\_dir\_plan\_20240722072332.pdf$ 

Other proposed operations facets description:

Other proposed operations facets attachment:

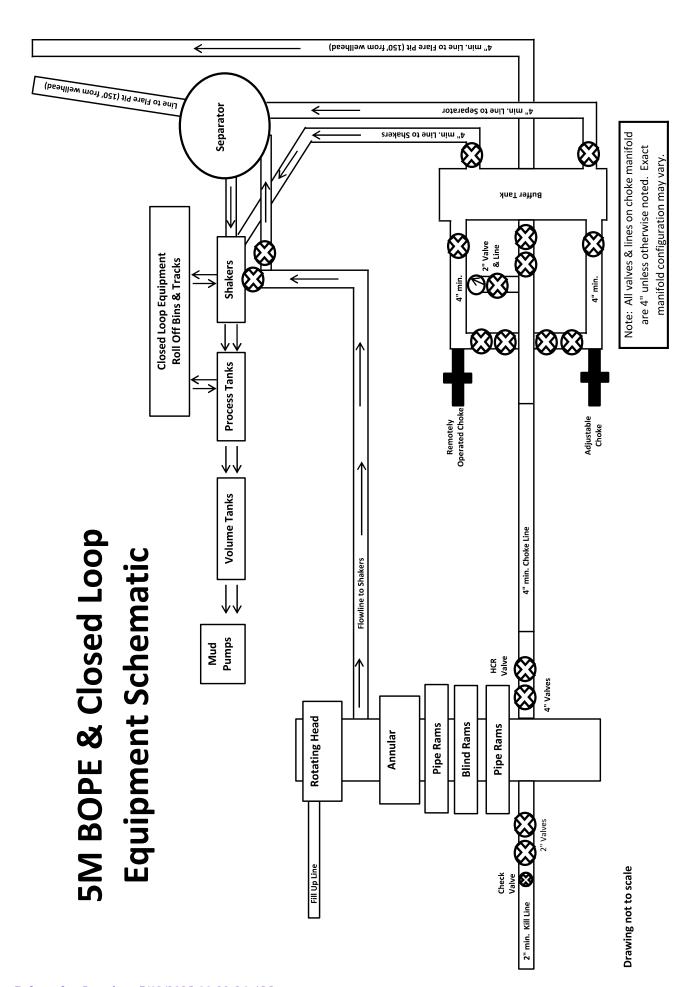
Fresh\_Squeezed\_6\_5\_Fed\_Com\_521H\_AddInfo\_20240722072345.pdf
Fresh\_Squeezed\_6\_5\_Fed\_Com\_521H\_CsgAssumptions\_20250130082336.pdf
Fresh\_Squeezed\_6\_5\_Fed\_Com\_521H\_Drlg\_Program\_20250130082336.pdf
FRESHSQUEEZED6\_5FEDCOM\_521H\_NMGP\_20250130082652.pdf

Other Variance request(s)?:

Other Variance attachment:

MOC\_Break\_Testing\_Variance\_20240718141553.pdf MOC\_Offline\_Cementing\_Variance\_20240718141553.pdf







# LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

## HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name						
	ke And Kill Hose		Standard		API Spec 16C 3 <sup>rd</sup> edition	
Product Specification	3″×1000	0psi×60ft (18.29m)		Serial Numb	er	7660144
Inspection Equipment	MTU-BS-1600-3200-E			Test mediui	n	Water
Inspection Department	Q.C. Department			nspection D	ate	2023.08.26
		Rate of leng	th change		'	
Standard requirements	At working pre	essure, the rate of lenge	th change sh	ould not mo	ore than $\pm 2$	%
Testing result	10000psi (69.0	MPa) ,Rate of length of	change 0.7%	6		
		Hydrostatic	testing			
Standard requirements  At 1.5 times working pressure, the initial pressure-holding period of not less than three minut the second pressure-holding period of not less than one hour, no leaks.					ess than three minutes	
Testing result	15000psi (103.	.5MPa), 3 min for the	first time, 60	min for the	e second time	, no leakage
raph of pressure testing:						Add at 175
100		10	00-			
10 10 10 10 10 10 10 10 10 10 10 10 10 1		Industrial CE	50 50 50 50 50			
26 10 21,4621 21,4221 21,4421 21,4421 21,4421 21	इंक्स अर्थ्य अडब्स अडब्स अड	21 22-96-21 2	20 10 10 10 10 10 10 10 10 10 10 10 10 10	2201958 225954	000+58 00+85	10
10 10 10 10 10 10 10 10 10 10 10 10 10 1	इंक्स अर्थ्य अडब्स अडब्स अड	i pawai (AZE)	20 10 10 10 10 10 10 10 10 10 10 10 10 10		100000000000000000000000000000000000000	4 002958 003958 0X



# LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

## **CERTIFICATE OF QUALITY**

## LTYY/QR-5.7.1-19B

№: LT2023-126-002

Customer Name	Austin Hose						
Product Name	Choke And Kill Hose						
Product Specification	3"×10000psi×60ft (18.29m)	Quantity	2PCS				
Serial Number	7660143~7660144	FSL	FSL3				
Temperature Range	-29℃~+121℃	Standard	API Spec 16C 3 <sup>rd</sup> edition				
Inspection Department	Q.C. Department	Inspection date	2023.08.26				

	Inspection It	ems		Inspection results				
	Appearance Checking				In accordance with API Spec 16C 3 <sup>rd</sup> edition			
Size and Lengths				In accordance with API Spec 16C 3 <sup>rd</sup> edition				
Dimensions and Tolerances				In accordance with API Spec 16C 3 <sup>rd</sup> edition				
End Connections: 4-1/16"×10000psi Integral flange for sour gas service				In accordance with API Spec 6A 21st edition				
End Connections: 4-	End Connections: 4-1/16"×10000psi Integral flange for sour gas service				In accordance with API Spec 17D 3 <sup>rd</sup> edition			
	Hydrostatic Tes	ting		In accordance with API Spec 16C 3 <sup>rd</sup> edition				
	product Marki	ng		In accordance with API Spec 16C 3 <sup>rd</sup> edition				
Inspection con	Inspection conclusion The inspected items m				neet standard requirements of API Spec 16C 3 <sup>rd</sup> edition			
Remark	Remarks							
Approver	Jian long Cher	Auditor	1/1	nging Dong	Inspector	Zhansheng Wang		



## LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

### CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×60ft (18.29m)

Serial Number: 7660143~7660144

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3<sup>rd</sup> edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3<sup>rd</sup> edition.

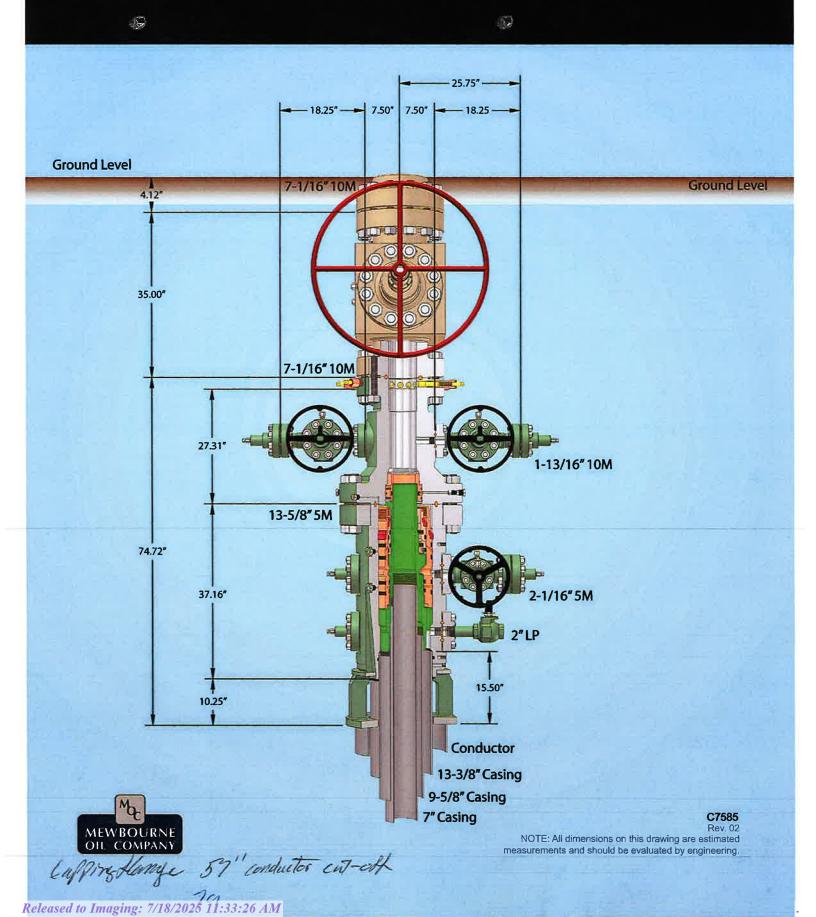
Jiaulong Chen

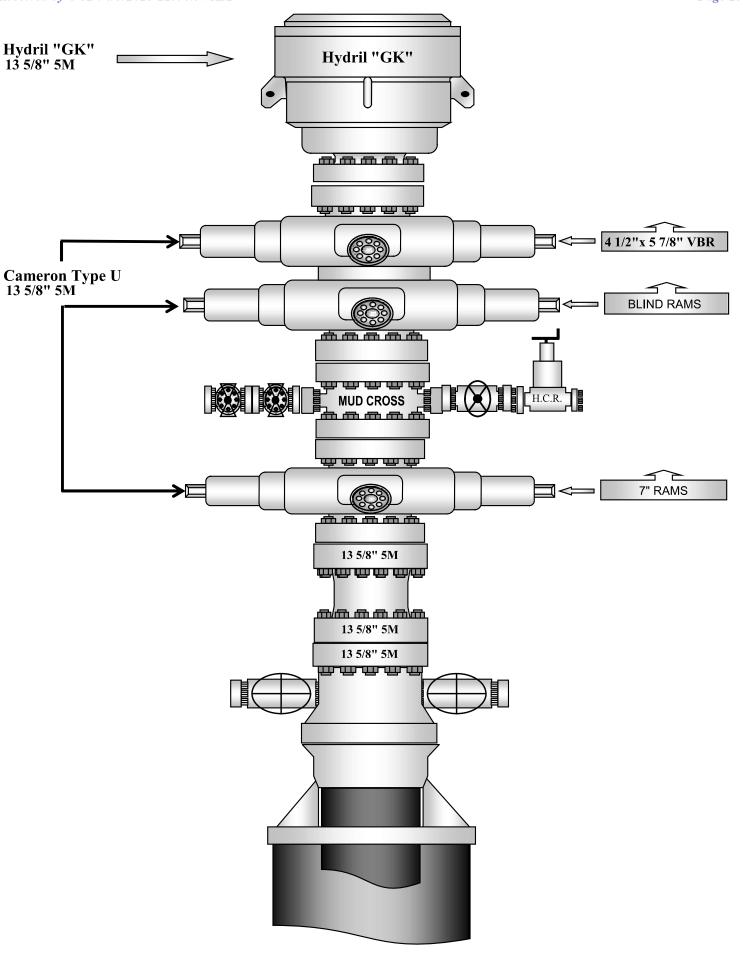
QC Manager:

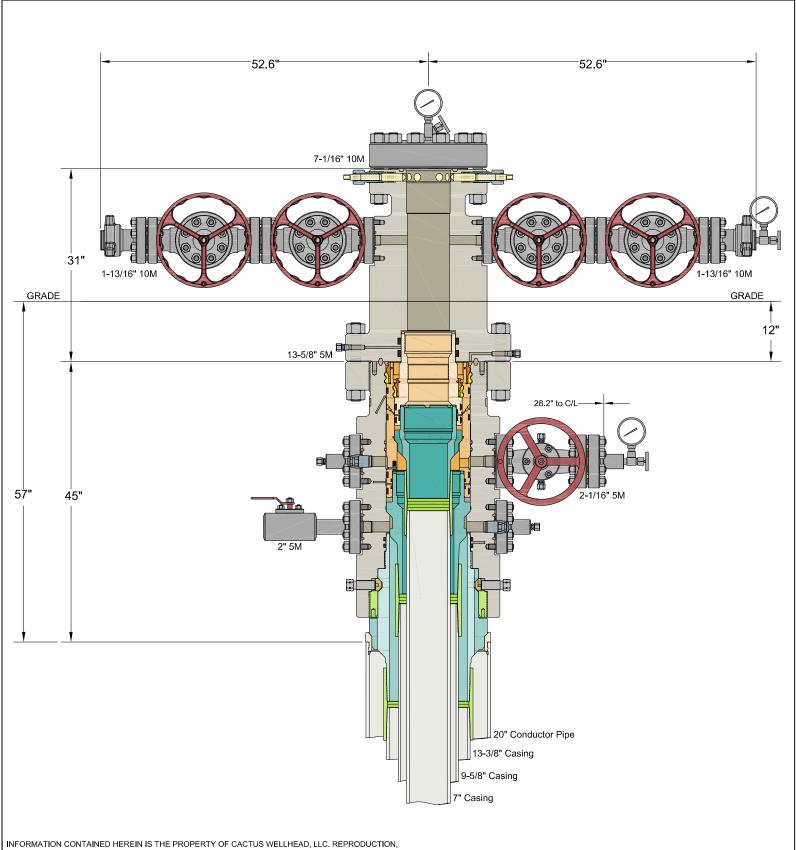
Date: Aug 26, 2023



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







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# CACTUS WELLHEAD LLC

20" x 13-3/8" x 9-5/8" x 7" MBU-3T-CFL-R-DBLO Wellhead System With 9-5/8" & 7" Fluted Mandrel Casing Hangers And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

# ALL DIMENSIONS APPROXIMATE MEWBOURNE OIL COMPANY

DRAWN DLE 18APR22
APPRV

**NEW MEXICO** 

DRAWING NO. HBE0000660

Tenaris

**API STC** 

 Coupling
 Pipe Body

 Grade: J55 (Casing)
 Grade: J55 (Casing)

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band: 

 2nd Band: 3rd Band:

4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.380 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

3rd Band: -

#### Pipe Body Data

Geometry			
Nominal OD	13.375 in.	Drift	12.459 in.
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft
Nominal Weight	54.500 lb/ft	OD Tolerance	API
Nominal ID	12.615 in.		

) psi
) psi
00 lb
) psi
) psi
00 ft

#### **Connection Data**

N					
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	2730 psi	Maximum Torque	6430 ft-lb
Connection OD	14.375 in.	Coupling Face Load	519 x1000 lb	Optimum Torque	5140 ft-lb
Thread per In	8	Joint Strength	514 x1000 lb	Minimum Torque	3860 ft-lb
Geometry		Performance		Make-Up Torques	

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.



Coupling	Pipe Body
Grade: P110	Grade: P110
Body: White	1st Band: White
1st Band: -	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	7.000 in.	Wall Thickness	0.362 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

#### Pipe Body Data

Geometry			
Nominal OD	7.000 in.	Drift	6.151 in.
Wall Thickness	0.362 in.	Plain End Weight	25.69 lb/ft
Nominal Weight	26 lb/ft	OD Tolerance	API
Nominal ID	6.276 in.		

110,000 psi
125,000 psi
830 x1000 lb
9960 psi
6230 psi
72 °/100 ft

#### **Connection Data**

N					
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	9960 psi	Maximum Torque	8660 ft-lb
Connection OD	7.875 in.	Coupling Face Load	799 x1000 lb	Optimum Torque	6930 ft-lb
Thread per In	8	Joint Strength	693 x1000 lb	Minimum Torque	5200 ft-lb
Geometry		Performance		Make-Up Torques	

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

■ Tenaris

API LTC

 Coupling
 Pipe Body

 Grade: J55 (Casing)
 Grade: J55 (Casing)

 Body: Bright Green
 1st Band: Bright Green

 1st Band: White
 2nd Band: 

 2nd Band: 3rd Band: 

 3rd Band: 4th Band:

Outside Diameter	9.625 in.	Wall Thickness	0.352 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

#### Pipe Body Data

Geometry			
Nominal OD	9.625 in.	Drift	8.765 in.
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft
Nominal Weight	36 lb/ft	OD Tolerance	API
Nominal ID	8.921 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	564 x1000 lb
Min. Internal Yield Pressure	3520 psi
Collapse Pressure	2020 psi
Max. Allowed Bending	26 °/100 ft

#### **Connection Data**

N					
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3520 psi	Maximum Torque	5660 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	4530 ft-lb
Thread per In	8	Joint Strength	453 x1000 lb	Minimum Torque	3400 ft-lb
Geometry		Performance		Make-Up Torques	

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.



Coupling	Pipe Body
Grade: P110	Grade: P110
Body: White	1st Band: White
1st Band: -	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	4.500 in.	Wall Thickness	0.290 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

#### Pipe Body Data

Geometry			
Nominal OD	4.500 in.	Drift	3.795 in.
Wall Thickness	0.290 in.	Plain End Weight	13.05 lb/ft
Nominal Weight	13.500 lb/ft	OD Tolerance	API
Nominal ID	3.920 in.		

110,000 psi
125,000 psi
422 x1000 lb
12,410 psi
10,690 psi
112 °/100 ft

#### **Connection Data**

Thread per In	8	Joint Strength	338 x1000 lb	Minimum Torque	2750 ft-lb
Connection OD	5.250 in.	Coupling Face Load	473 x1000 lb	Optimum Torque	3660 ft-lb
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	12,410 psi	Maximum Torque	4580 ft-lb

#### Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition,

#### Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H Sec 6, T18S, R31E

SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	500'	500'	13.375" 54.5# J55 STC	5.05	12.21	18.86	31.30
Int	12.25"	0'	0'	2000'	2000'	9.625" 36# J55 LTC	1.85	3.22	6.29	7.83
Production	8.75"	0'	0'	7399'	7294'	7" 26# P110 LTC	1.73	2.76	3.60	4.31
Liner	6.125"	7199'	7128'	17967'	8040'	4.5" 13.5# P110 LTC	2.32	2.70	2.33	2.90

#### Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft <sup>3</sup> /sack	тос/вос	Volume ft <sup>3</sup>	% Excess	Slurry Description
13,375 in	LEAD	210	12.5	2.12	0' - 313'	450	100%	Class C: Salt, Gel, Extender, LCM
13.3/5 m	TAIL	200	14.8	1.34	313' - 500'	268	100%	Class C: Retarder
9,625 in	LEAD	240	12.5	2.12	0' - 1311'	510	25%	Class C: Salt, Gel, Extender, LCM
9.025 III	TAIL	200	14.8	1.34	1311' - 2000'	268	2370	Class C: Retarder
7 in	LEAD	280	12.5	2.12	1800' - 4934'	600	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III	TAIL	400	15.6	1.18	4934' - 7399'	472	4370	Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	7199' - 17967'	1280	25%	Class H. Sait, Gel, Fluid Loss, Retarder, Dispersant, Deroamer, Anti-

#### Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 500'	8.4 - 8.6	Fresh Water
500' - 2000'	9.5 - 10.5	Brine
2000' - 7399'	8.6 - 9.5	Cut-Brine
7399' - 17967'	10.0 - 11.	OBM

#### Geolog

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	418'	Usable Water	Yeso		
Castile			Delaware (Lamar)		
Salt Top	633'	None	Bell Canyon		
Salt Base	1491'	None	Cherry Canyon		
Yates	1683'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2046'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	2687'	Oil/Natural Gas	Bone Spring	5042'	Oil/Natural Gas
Capitan			1st Bone Spring	6893'	Oil/Natural Gas
Grayburg	3014'	None	2nd Bone Spring	7421'	Oil/Natural Gas
San Andres	3476'	Oil/Natural Gas	3rd Bone Spring		
Glorieta			Wolfcamp		

## All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

coming of the contract of	
	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.	N
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

#### Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H Sec 6, T18S, R31E

SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

Casing Program Design B					BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	500'	500'	13.375" 54.5# J55 STC	5.05	12.21	18.86	31.30
Int	12.25"	0'	0'	2000'	2000'	9.625" 36# J55 LTC	1.85	3.22	6.29	7.83
Production	8.75"	0'	0'	8289'	7867'	7" 26# P110 LTC	1.60	2.56	3.22	3.85
Liner	6.125"	7399'	7294'	17967'	8040'	4.5" 13.5# P110 LTC	2.32	2.70	2.37	2.96

Design B - Cement Program

Design D - Cement Frogra	sagn b - Centent 110gram									
Casing		# Sacks	Wt. lb/gal	Yield ft <sup>3</sup> /sack	тос/вос	Volume ft <sup>3</sup>	% Excess	Slurry Description		
13,375 in	LEAD	210	12.5	2.12	0' - 313'	450	100%	Class C: Salt, Gel, Extender, LCM		
13.375 III	TAIL	200	14.8	1.34	313' - 500'	268	100%	Class C: Retarder		
9.625 in	LEAD	240	12.5	2.12	0' - 1311'	510	25%	Class C: Salt, Gel, Extender, LCM		
9.025 III	TAIL	200	14.8	1.34	1311' - 2000'	268	2370	Class C: Retarder		
7 in	LEAD	360	12.5	2.12	1800' - 5823'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer		
7 111	TAIL	400	15.6	1.18	5823' - 8289'	472	2376	Class H: Retarder, Fluid Loss, Defoamer		
4.5 in	LEAD	670	13.5	1.85	7399' - 17967'	1240	25%	Class II. Sait, Gel, Fithid Loss, Retarder, Dispersant, Deroamer, Anti-		

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 500'	8.4 - 8.6	Fresh Water
500' - 2000'	9.5 - 10.5	Brine
2000' - 8289'	8.6 - 9.5	Cut-Brine
8289' - 17967'	10.0 - 11.	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	418'	Usable Water	Yeso		
Castile			Delaware (Lamar)		
Salt Top	633'	None	Bell Canyon		
Salt Base	1491'	None	Cherry Canyon		
Yates	1683'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2046'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	2687'	Oil/Natural Gas	Bone Spring	5042'	Oil/Natural Gas
Capitan			1st Bone Spring	6893'	Oil/Natural Gas
Grayburg	3014'	None	2nd Bone Spring	7421'	Oil/Natural Gas
San Andres	3476'	Oil/Natural Gas	3rd Bone Spring		
Glorieta			Wolfcamp		

## All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	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.	N
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

### Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H Sec 6, T18S, R31E

SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

Well Location GL: 3589'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 1300' FNL & 700' FWL (Sec 6)	NMLC29389E	0	6	18S	31E	Eddy	32.7801142	103.9145785	0'	0'
KOP	KOP: 350' FNL & 10' FWL (Sec 6)	NMLC29389E	0	6	18S	31E	Eddy	32.7827205	103.9168203	7,294'	7,399'
FTP	FTP: 350' FNL & 100' FWL (Sec 6)	NMLC29389E	0	6	18S	31E	Eddy	32.7827211	103.9165275	7,602'	7,725'
PPP2	PPP2: 349' FNL & 2432' FWL (Sec 6)	NMNM0334702	0	6	18S	31E	Eddy	32.7827383	103.9089403	7,900'	10,148'
PPP3	PPP3: 350' FNL & 0' FWL (Sec 5)	NMNM0299468	0	5	18S	31E	Eddy	32.7827572	103.9003565	7,947'	12,787'
PPP4	PPP4: 350' FNL & 2640' FWL (Sec 5)	NMNM068038	0	5	18S	31E	Eddy	32.7827756	103.8917672	7,994'	15,427'
BHL	BHL: 350' FNL & 100' FEL (Sec 5)	NMNM068038	0	5	18S	31E	Eddy	32.7827927	103.8835050	8,040'	17,967'

#### GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	418'	Dolomite/Anhydrite	Usable Water	Yeso			
Castile				Delaware (Lamar)			
Salt Top	633'	Salt	None	Bell Canyon			
Salt Base	1491'	Salt	None	Cherry Canyon			
Yates	1683'	Sandstone	Oil/Natural Gas	Manzanita Marker			
Seven Rivers	2046'	Dolomite	Oil/Natural Gas	Basal Brushy Canyon			
Queen	2687'	Sandstone/Dolomite	Oil/Natural Gas	Bone Spring	5042'	Limestone	Oil/Natural Gas
Capitan				1st Bone Spring	6893'	Sandstone	Oil/Natural Gas
Grayburg	3014'		None	2nd Bone Spring	7421'	Sandstone	Oil/Natural Gas
San Andres	3476'	Dolomite	Oil/Natural Gas	3rd Bone Spring			
Glorietta				Wolfcamp			

		Casing Progr	am Design A		BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet	
String	String Hole Size Top MD Top TVD		Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	500'	500'	13.375" 54.5# J55 STC	5.05	12.21	18.86	31.30
Int	12.25"	0'	0'	2000'	2000'	9.625" 36# J55 LTC	1.85	3.22	6.29	7.83
Production	8.75"	0'	0'	7399'	7294'	7" 26# P110 LTC	1.73	2.76	3.60	4.31
Liner	6.125"	7199'	7128'	17967'	8040'	4.5" 13.5# P110 LTC	2.32	2.70	2.33	2.90

#### All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

	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.	N
Is well located in SOPA but not in R-111-Q?	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-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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 comented to surface?	

## Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H

Sec 6, T18S, R31E SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft <sup>3</sup> /sack	тос/вос	Volume, ft <sup>3</sup>	% Excess	Slurry Description
13,375 in	LEAD	210	210 12.5 2.12 0' - 313' 450		100%	Class C: Salt, Gel, Extender, LCM		
13.373 III	TAIL	200	14.8	1.34	1.34 313' - 500'	268	10076	Class C: Retarder
9.625 in	LEAD	240	12.5	2.12	0' - 1311'	510	25%	Class C: Salt, Gel, Extender, LCM
9.023 III	TAIL	200	14.8	1.34	1311' - 2000'	268	2376	Class C: Retarder
7 in	LEAD	280	12.5	2.12	1800' - 4934'	600	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ 111	TAIL	400	15.6	1.18	4934' - 7399'	472	2376	Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	690	13.5	1.85	7199' - 17967'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent

#### **Pressure Control Equipment**

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Туре			Tested to:	Rating Depth
	13.375	5M	A	nnular	X	2500#	
		5M	Blind Ram		X		1
12.25			Pi	pe Ram	X	5000#	17,967'
			Double Ram			3000#	
			Other*				

<sup>\*</sup>Specify if additional ram is utilized.

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.

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 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.

Y	Formation integrity test will be performed per 43 CFR Part 3172.  On Exploratory wells or 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.  Will be tested in accordance with 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

#### **Mud Program**

Depth (MD)	Mud Wt., lb/gal	Mud Type
	8.4 - 8.6	Fresh Water
0' - 500'	8.4 - 8.6	Fresh Water
500' - 2000'	9.5 - 10.5	Brine
2000' - 7399'	8.6 - 9.5	Cut-Brine
72001 170671	10.0 11	ODM

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	D. ONETHORY AND A CONTROL OF THE CON

### Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H

Sec 6, T18S, R31E SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

#### **Logging and Testing Procedures**

	Logging	, Coring and Testing,
	N	Will run GR/CNL from KOP (7399') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
ſ	Y	No logs are planned based on well control or offset log information. Offset Well: Fresh Squeezed 6-5 Fed Com 523H
ſ	N	Coring? If yes, explain:

#### Open & Cased Hole Logs Run In the Well

Caliper		Cement Bond Log	CNL/FDC
Compensated Densilog		Compensated Neutron Log	Computer Generated Log
Dip Meter Log	V	Directional Survey	Dual Induction/Microresistivity
Dual Lateral Log/Microspherically Focused		Electric Log	Formation Density Compensated Log
Gamma Ray Log	v	Measurement While Drilling	Mud Log/Geological Lithology Log
Other		Porosity-Resistivity Log	Sidewall Neutron Log
Sonic Log		Spontaneous Potential Log	Temperature Log

#### **Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	4599 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

## Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H

Sec 6, T18S, R31E SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

#### Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B as described below. BLM will be notified of elected design.

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. R-111Q: Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

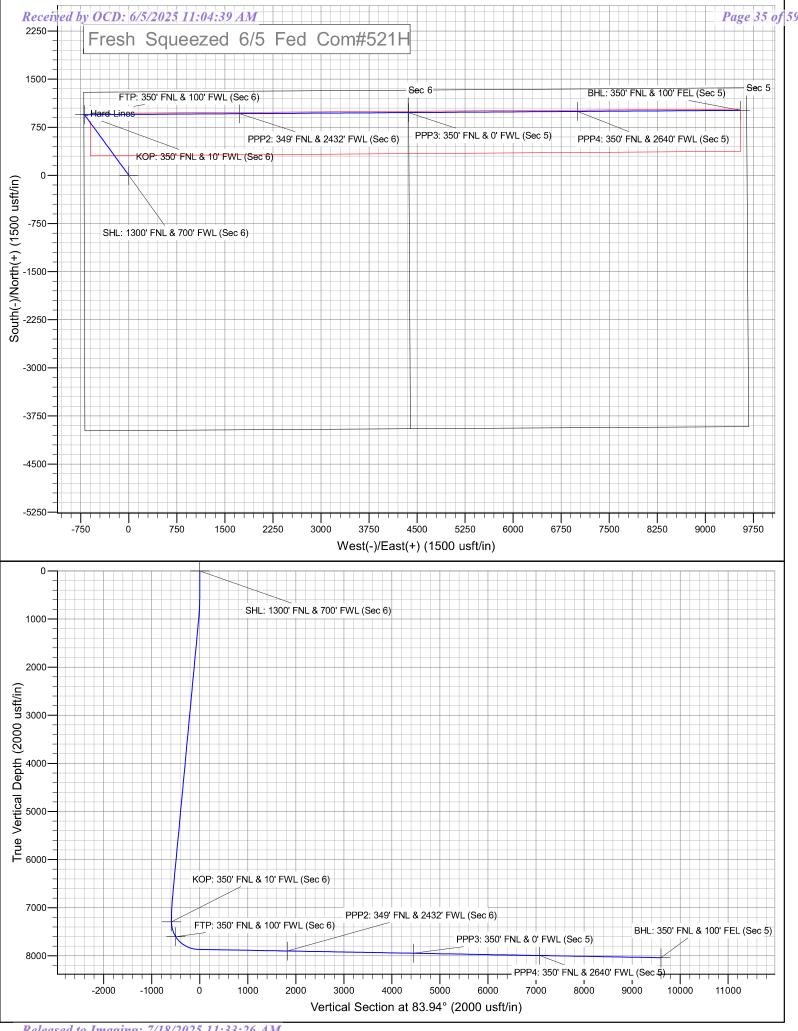
		Casing Progr	om Docian R		BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry	
		Casing 110gi	am Design D		BEM Millimum Safety Pactors	1.123		1.8 Wet	1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	500'	500'	13.375" 54.5# J55 STC	5.05	12.21	18.86	31.30
Int	12.25"	0'	0'	2000'	2000'	9.625" 36# J55 LTC	1.85	3.22	6.29	7.83
Production	8.75"	0'	0'	8289'	7867'	7" 26# P110 LTC	1.60	2.56	3.22	3.85
Liner	6.125"	7399'	7294'	17967'	8040'	4.5" 13.5# P110 LTC	2.32	2.70	2.37	2.96

#### All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

Is casing new? If used, attach certification as required in Onshore Order #1  Is casing API approved? If no, attach casing specification sheet.  Is premium or uncommon casing planned? If yes attach casing specification sheet.  Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).  Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?  Is well located within Capitan Reef?  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-Q?  If yes, are the first 2 strings cemented to surface and 3'd string cement tied back 500' into previous casing?  If yes, are the first 2 strings cemented to surface?  Is yes, are the first three strings cemented to surface?  Is 2'd string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?  If yes, are that the weak point planned?	
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Is premium or uncommon casing planned? If yes attach casing specification sheet.  Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).  Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?  Is well located within Capitan Reef?  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-Q?  If yes, are the first 2 strings cemented to surface and 3'd string cement tied back 500' into previous casing?  Is well located in R-111-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2'd string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
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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-Q?  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-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	Y
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-Q?  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-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	
Is well located in SOPA but not in R-111-Q?  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-Q and SOPA?  If yes, are the first three strings cemented to surface?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	N
Is well located in SOPA but not in R-111-Q?  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-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100° to 600° below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	
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-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	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-Q and SOPA?  If yes, are the first three strings cemented to surface?  Is 2 <sup>rd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	
Is well located in R-111-Q and SOPA?  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 an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	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 an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	
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Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?  Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	N
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.  Is an engineered weak point used to satisfy R-111-Q?	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what denth is the weak point planned?	
11 yes, at that departs the freak point planted:	
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?	

#### Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft <sup>3</sup> /sack	TOC/BOC	Volume, ft <sup>3</sup>	% Excess	Slurry Description	
13.375 in	LEAD	210	12.5	2.12	0' - 313'	450	100%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	313' - 500'	268	100%	Class C: Retarder	
0.625:	9,625 in LEAD	240	12.5	2.12	0' - 1311'	510	25%	Class C: Salt, Gel, Extender, LCM	
9.025 III	TAIL	200	14.8	1.34	1311' - 2000'	268	2376	Class C: Retarder	
7 in	LEAD	360	12.5	2.12	1800' - 5823'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer	
7 111	TAIL	400	15.6	1.18	5823' - 8289'	472	2376	Class H: Retarder, Fluid Loss, Defoamer	
4.5 in	LEAD	670	13.5	1.85	7399' - 17967'	1240	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, A settling Agent	



# **Mewbourne Oil Company**

Eddy County, New Mexico NAD 83 Fresh Squeezed 6/5 Fed Com #521H Sec 06, T18S, R31E

SHL: 1300' FNL & 700' FWL (Sec 6) BHL: 350' FNL & 100' FEL (Sec 5)

Plan: Design #1

# **Standard Planning Report**

19 July, 2024

Hobbs Database:

Company: Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Project: Fresh Squeezed 6/5 Fed Com Site:

Well: Sec 06, T18S, R31E

Wellbore: BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

Minimum Curvature

Eddy County, New Mexico NAD 83 Project

Map System: US State Plane 1983 Geo Datum:

North American Datum 1983 New Mexico Fastern Zone Map Zone:

System Datum:

Ground Level

Site Fresh Squeezed 6/5 Fed Com #521H

Northing: 647,792.40 usft 32.7801144 Site Position: Latitude: From: Мар Easting: 670,035.90 usft Longitude: -103.9145784

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

Sec 06, T18S, R31E Well

**Well Position** +N/-S 0.0 usft 647,792.40 usft 32.7801144 Northing: Latitude: +E/-W 0.0 usft Easting: 670,035.90 usft Longitude: -103.9145784

0.0 usft Wellhead Elevation: Ground Level: **Position Uncertainty** 3,617.0 usft 3,589.0 usft

**Grid Convergence:** 0.23

BHL: 350' FNL & 100' FEL (Sec 5) Wellbore

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2010 12/31/2014 7.35 60.55 48,531.89495862

Design Design #1

Audit Notes:

PROTOTYPE Version: Phase: Tie On Depth: 0,0

+N/-S +E/-W Vertical Section: Depth From (TVD) Direction (usft) (usft) (usft) (°) 83.94 0.0 0.0 0.0

7/19/2024 Plan Survey Tool Program Date

**Depth From** Depth To

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

0.0 17,967.2 Design #1 (BHL: 350' FNL & 100'

**Plan Sections** Vertical Build Measured Dogleg Turn +N/-S Depth Inclination Azimuth Depth +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) Target (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 500.0 0.00 0.00 500.0 0.0 0.0 0.00 0.00 0.00 0.00 1,030.0 10.60 -28.9 2.00 2.00 323 77 1.027 0 39 4 0.00 323 77 6,869.7 906.1 10.60 323.77 6,767.0 -663.8 0.00 0.00 0.00 0.00 7,399.7 0.00 0.00 7,294.0 945.5 -692.7 2.00 -2.00 0.00 180,00 KOP: 350' FNL & 10' I 8,289.7 88.98 89.62 7,867.0 949.2 -129.9 10.00 10.00 0.00 89.62 17,967.2 88.98 89.62 8,040.0 1,013.6 9,545.9 0.00 0.00 0.00 0.00 BHL: 350' FNL & 100'

Hobbs Database: Company:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

BHL: 350' FNL & 100' FEL (Sec 5)

Fresh Squeezed 6/5 Fed Com #521H Site:

Design #1

Well: Wellbore:

Project:

Sec 06, T18S, R31E

Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

i	Design #1								
ed 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.	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 1300	0' FNL & 700' FWL	(Sec 6)							
50.	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.		0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.		0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00
200.	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
250.	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.		0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.		323.77	550.0	0.4	-0.3	-0.2	2.00	2.00	0.00
600.		323.77	600.0	1.4	-1.0	-0.9	2.00	2.00	0.00
650.	0 3.00	323.77	649.9	3.2	-2.3	-2.0	2.00	2.00	0.00
700.	0 4.00	323.77	699.8	5.6	-4.1	-3.5	2.00	2.00	0.00
750.	0 5.00	323.77	749.7	8.8	-6.4	-5.5	2.00	2.00	0.00
800.		323.77	799.5	12.7	-9.3	-7.9	2.00	2.00	0.00
850.		323.77	849.1	17.2	-12.6	-10.7	2.00	2.00	0.00
900.	0 8.00	323.77	898.7	22.5	-16.5	-14.0	2.00	2.00	0.00
950.	0 9.00	323.77	948.2	28.5	-20.8	-17.7	2.00	2.00	0.00
1,000,	0 10,00	323,77	997,5	35,1	-25.7	-21.9	2,00	2,00	0,00
1,030		323.77	1,027.0	39.4	-28.9	-24.6	2.00	2,00	0.00
1,050.	0 10,60	323,77	1,046,6	42.4	-31.1	-26.4	0.00	0.00	0.00
1,100.	0 10,60	323,77	1,095.8	49.8	-36.5	-31.0	0.00	0.00	0.00
1,150.	0 10,60	323,77	1,144.9	57.2	-41.9	-35.7	0,00	0.00	0.00
1,200.		323.77	1,194.1	64.7	-47.4	-40.3	0.00	0.00	0.00
1,250.		323.77	1,243.2	72.1	-52.8	-44.9	0.00	0.00	0.00
1,300.		323.77	1,292.4	79.5	-58.2	-49.5	0.00	0.00	0.00
1,350.		323.77	1,341.5	86.9	-63.7	-54.1	0.00	0.00	0.00
1,400.	0 10.60	323.77	1,390.7	94.3	-69.1	-58.8	0.00	0.00	0.00
1,450.	0 10.60	323.77	1,439.8	101.8	-74.6	-63.4	0.00	0.00	0.00
1,500.		323.77	1,489.0	109.2	-80.0	-68.0	0.00	0.00	0.00
1,550.		323.77	1,538.1	116.6	-85.4	-72.6	0.00	0.00	0.00
1,600.		323.77	1,587.3	124.0	-90.9	-77.3	0.00	0.00	0.00
1,650.	0 10.60	323.77	1,636.4	131.4	-96.3	-81.9	0.00	0.00	0.00
1,700.		323.77	1,685.5	138.9	-101.7	-86.5	0.00	0.00	0.00
1,750.		323.77	1,734.7	146.3	-107.2	-91.1	0.00	0.00	0.00
1,800.		323.77	1,783.8	153.7	-112.6	-95.8	0.00	0.00	0.00
1,850.		323.77	1,833.0	161.1	-118.0	-100.4	0.00	0.00	0.00
1,900.		323.77	1,882.1	168.5	-123.5	-105.0	0.00	0.00	0.00
1,950.		323.77	1,931.3	176.0	-128.9	-109.6	0.00	0.00	0.00
2,000.		323.77	1,980.4	183.4	-134.4	-114.2	0.00	0.00	0.00
2,050.		323.77	2,029.6	190.8	-139.8	-118.9	0.00	0.00	0.00
2,100.		323.77	2,078.7	198.2	-145.2	-123.5	0.00	0.00	0.00
2,150.	0 10.60	323.77	2,127.9	205.6	-150.7	-128.1	0.00	0.00	0.00
2,200.		323.77	2,177.0	213.1	-156.1	-132.7	0.00	0.00	0.00
2,250.		323.77	2,226.2	220.5	-161.5	-137.4	0.00	0.00	0.00
2,300.		323.77	2,275.3	227.9	-167.0	-142.0	0.00	0.00	0.00
2,350.		323.77	2,324.5	235.3	-172.4	-146.6	0.00	0.00	0.00
2,400.	0 10.60	323.77	2,373.6	242.7	-177.8	-151.2	0.00	0.00	0.00
2,450.		323.77	2,422.7	250.2	-183.3	-155.8	0.00	0.00	0.00
2,500.		323.77	2,471.9	257.6	-188.7	-160.5	0.00	0.00	0.00
2,550.	0 10.60	323.77	2,521.0	265.0	-194.2	-165.1	0.00	0.00	0.00

Hobbs Database: Company:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Fresh Squeezed 6/5 Fed Com #521H

Well: Wellbore:

Project:

Site:

Sec 06, T18S, R31E BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

sign:	Design #1								
anned 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)
2,600.0	10.60	323.77	2,570.2	272.4	-199.6	-169.7	0.00	0.00	0.00
2,650.0	10.60	323.77	2,619.3	279.8	-205.0	-174.3	0.00	0.00	0.00
2,700.0	10.60	323.77	2,668.5	287.3	-210.5	-179.0	0.00	0.00	0.00
2,750.0	10.60	323.77	2,717.6	294.7	-215.9	-173.6	0.00	0.00	0.00
2,800.0	10.60	323.77	2,766.8	302.1	-221.3	-188.2	0.00	0.00	0.00
2,850.0	10.60	323.77	2,815.9	309.5	-226.8	-192.8	0.00	0.00	0.00
2,900.0	10.60	323.77	2,865.1	316.9	-232.2	-197.4	0.00	0.00	0.00
2,950.0	10.60	323.77	2,914.2	324.4	-237.6	-202.1	0.00	0.00	0.00
3,000.0	10.60	323.77	2,963.4	331.8	-243.1	-206.7	0.00	0.00	0.00
3,050.0	10.60	323.77	3,012.5	339.2	-248.5	-211.3	0.00	0.00	0.00
3,100.0	10.60	323.77	3,061.7	346.6	-254.0	-215.9	0.00	0.00	0.00
3,150.0	10.60	323.77	3,110.8	354.0	-259.4	-220.6	0.00	0.00	0.00
3,200.0	10.60	323.77	3,159.9	361.5	-264.8	-225.2	0.00	0.00	0.00
3,250.0	10.60	323.77	3,209.1	368.9	-270.3	-229.8	0.00	0.00	0.00
3,300.0	10.60	323.77	3,258.2	376.3	-275.7	-234.4	0.00	0.00	0.00
3,350.0	10.60	323.77	3,307.4	383.7	-281.1	-239.0	0.00	0.00	0.00
3,400.0	10.60	323.77	3,356.5	391.2	-286.6	-243.7	0.00	0.00	0.00
3,450.0	10.60	323.77	3,405.7	398.6	-292.0	-248.3	0.00	0.00	0.00
3,500.0	10.60	323.77	3,454.8	406.0	-297.4	-252.9	0.00	0.00	0.00
3,550.0	10.60	323.77	3,504.0	413.4	-302.9	-257.5	0.00	0.00	0.00
3,600.0	10.60	323.77	3,553.1	420.8	-308.3	-262.2	0.00	0.00	0.00
3,650.0	10.60	323.77	3,602.3	428.3	-313.7	-266.8	0.00	0.00	0.00
3,700.0	10.60	323.77	3,651.4	435.7	-319.2	-271.4	0.00	0.00	0.00
3,750.0	10.60	323.77	3,700.6	443.1	-324.6	-276.0	0.00	0.00	0.00
3,800.0	10.60	323.77	3,749.7	450.5	-330.1	-280.6	0.00	0.00	0.00
3,850.0	10.60	323.77	3,798.9	457.9	-335.5	-285.3	0.00	0.00	0.00
3,900.0	10.60	323.77	3,848.0	465.4	-340.9	-289.9	0.00	0.00	0.00
3,950.0	10.60	323.77	3,897.1	472.8	-346.4	-294.5	0.00	0.00	0.00
4,000.0	10.60	323.77	3,946.3	480.2	-351.8	-299.1	0.00	0.00	0.00
4,050.0	10.60	323.77	3,995.4	487.6	-357.2	-303.8	0.00	0.00	0.00
4,100.0	10.60	323.77	4,044.6	495.0	-362.7	-308.4	0.00	0.00	0.00
4,150.0	10.60	323.77	4,093.7	502.5	-368.1	-313.0	0.00	0.00	0.00
1 000 0	40.00	000 77	1.110.0		070.5	0.47.0		0.00	0.00
4,200.0	10.60	323.77	4,142.9	509.9	-373.5	-317.6	0.00	0.00	0.00
4,250.0	10.60	323.77	4,192.0	517.3	-379.0	-322.2	0.00	0.00	0.00
4,300.0	10.60	323.77	4,241.2	524.7	-384.4	-326.9	0.00	0.00	0.00
4,350.0	10.60	323.77	4,290.3	532.1	-389.9	-331.5	0.00	0.00	0.00
4,400.0	10.60	323.77	4,339.5	539.6	-395.3	-336.1	0.00	0.00	0.00
4,450.0	10.60	323.77	4,388.6	547.0	-400.7	-340.7	0.00	0.00	0.00
4,500.0	10.60	323.77	4,437.8	554.4	-406.2	-345.4	0.00	0.00	0.00
4,550.0	10.60	323.77	4,486.9	561.8	-411.6	-350.0	0.00	0.00	0.00
4,600.0	10.60	323.77	4,536.0	569.2	-417.0	-354.6	0.00	0.00	0.00
4,650.0	10.60	323.77	4,585.2	576.7	-422.5	-359.2	0.00	0.00	0.00
4,700.0	10.60	323.77	4,634.3	584.1	-427.9	-363.8	0.00	0.00	0.00
4,750.0	10.60	323.77	4,683.5	591.5	-433.3	-368.5	0.00	0.00	0.00
4,800.0	10.60	323.77	4,732.6	598.9	-438.8	-373.1	0.00	0.00	0.00
4,850.0	10.60	323.77	4,781.8	606.3	-444.2	-377.7	0.00	0.00	0.00
4,900.0	10.60	323.77	4,830.9	613.8	-449.7	-382.3	0.00	0.00	0.00
4,950.0	10.60	323.77	4,880.1	621.2	-455.1	-387.0	0.00	0.00	0.00
5,000.0	10.60	323.77	4,929.2	628.6	-460.5	-391.6	0.00	0.00	0.00
5,050.0	10.60	323.77	4,978.4	636.0	-466.0	-396.2	0.00	0.00	0.00
5,100.0	10.60	323.77	5,027.5	643.4	-471.4	-400.8	0.00	0.00	0.00
5,150.0	10.60	323.77	5,076.7	650.9	-476.8	-405.4	0.00	0.00	0.00
5,200.0	10.60	323.77	5,125.8	658.3	-482.3	-410.1	0.00	0.00	0.00
5,250.0	10.60	323.77	5,175.0	665.7	-487.7	-414.7	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Fresh Squeezed 6/5 Fed Com #521H

Well: Sec 06, T18S, R31E

Wellbore: BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

Grid

	Design #1										
ned 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)		
5,300.0	10.60	323.77	5,224.1	673.1	-493.1	-419.3	0.00	0.00	0.00		
5,350.0	10.60	323.77	5,273.2	680.5	-498.6	-423.9	0.00	0.00	0.00		
5,400.0	10.60	323.77	5,322.4	688.0	-504.0	-428.6	0.00	0.00	0.00		
5,450.0	10.60	323.77	5,371.5	695.4	-509.5	-433.2	0.00	0.00	0.00		
5,500.0	10.60	323.77	5,420.7	702.8	-514.9	-437.8	0.00	0.00	0.00		
5,550.0	10.60	323.77	5,469.8	710.2	-520.3	-442.4	0.00	0.00	0.00		
5,600.0	10.60	323.77	5,519.0	717.6	-525.8	-447.0	0.00	0.00	0.00		
5,650.0	10.60	323.77	5,568.1	725.1	-531.2	<b>-</b> 451.7	0.00	0.00	0.00		
5,700.0	10.60	323.77	5,617.3	732.5	-536.6	-456.3	0.00	0.00	0.00		
5,750.0	10.60	323.77	5,666.4	739.9	-542.1	-460.9	0.00	0.00	0.00		
5,800.0	10.60	323.77	5,715.6	747.3	-547.5	-465.5	0.00	0.00	0.00		
5,850.0	10.60	323.77	5,764.7	754.7	-552.9	-470.2	0.00	0.00	0.00		
5,900.0	10.60	323.77	5,813.9	762.2	-558.4	-474.8	0.00	0.00	0.00		
,											
5,950.0	10.60	323.77	5,863.0	769.6	-563.8	-479.4 404.0	0.00	0.00	0.00		
6,000.0	10.60	323.77	5,912.2	777.0	-569.3	-484.0	0.00	0.00	0.00		
6,050.0	10.60	323.77	5,961.3	784.4	-574.7	-488.6	0.00	0.00	0.00		
6,100.0	10.60	323.77	6,010.4	791.8	-580.1	-493.3	0.00	0.00	0.00		
6,150.0	10.60	323.77	6,059.6	799.3	-585.6	-497.9	0.00	0.00	0.00		
6,200.0	10.60	323.77	6,108.7	806.7	-591.0	-502.5	0.00	0.00	0.00		
6,250.0	10.60	323.77	6,157.9	814.1	-596.4	-507.1	0.00	0.00	0.00		
6,300.0	10.60	323.77	6,207.0	821.5	-601.9	-511.8	0.00	0.00	0.00		
6,350.0	10.60	323.77	6,256.2	828.9	-607.3	-516.4	0.00	0.00	0.00		
6,400.0	10.60	323.77	6,305.3	836.4	-612.7	-521.0	0.00	0.00	0.00		
6,450.0 6,500.0	10.60 10.60	323.77 323.77	6,354.5 6,403.6	843.8 851.2	-618.2 -623.6	-525.6 -530.2	0.00 0.00	0.00 0.00	0.00 0.00		
,											
6,550.0	10.60	323.77	6,452.8	858.6	-629.0	-534.9	0.00	0.00	0.00		
6,600.0	10.60	323.77	6,501.9	866.0	-634.5	-539.5 544.1	0.00	0.00	0.00		
6,650.0	10.60	323.77	6,551.1	873.5	-639.9	-544.1	0.00	0.00	0.00		
6,700.0	10.60	323.77	6,600.2	880.9	-645.4	-548.7	0.00	0.00	0.00		
6,750.0	10.60	323.77	6,649.4	888.3	-650.8	-553.4	0.00	0.00	0.00		
6,800.0	10.60	323.77	6,698.5	895.7	-656.2	-558.0	0.00	0.00	0.00		
6,850.0	10.60	323.77	6,747.6	903.1	-661.7	-562.6	0.00	0.00	0.00		
6,869.7	10.60	323.77	6,767.0	906.1	-663.8	-564.4	0.00	0.00	0.00		
6,900.0	9.99	323.77	6,796.8	910.4	-667.0	-567.1	2.00	<del>-</del> 2.00	0.00		
6,950.0	8.99	323.77	6,846.1	917.1	-671.9	-571.3	2.00	-2.00	0.00		
7,000.0	7.99	323.77	6,895.6	923.0	-676.2	-575.0	2.00	-2.00	0.00		
7,050.0	6.99	323.77	6,945.2	928.3	-680.1	-578.3	2.00	-2.00 -2.00	0.00		
7,030.0 7,100.0	5.99	323.77	6,994.8	932.9	-683.4	-576.3 -581.1	2.00	-2.00 -2.00	0.00		
7,150.0	4.99	323.77	7,044.6	936.7	-686.3	-583.5	2.00	-2.00	0.00		
7,200.0	3.99	323.77	7,094.5	939.9	-688.6	-585.5	2.00	-2.00	0.00		
7,250.0	2.99	323.77	7,144.4	942.3	-690.4	-587.0	2.00	-2.00	0.00		
7,300.0	1.99	323.77	7,194.3	944.1	-691.7	-588.1	2.00	-2.00	0.00		
7,350.0	0.99	323.77	7,244.3	945.2	-692.4	-588.8	2.00	-2.00	0.00		
7,399.7	0.00	0.00	7,294.0	945.5	-692.7	-589.0	2.00	-2.00	0.00		
•	L & 10' FWL (Se	ec 6)									
7,400.0	0.03	89.62	7,294.3	945.5	-692.7	-589.0	10.00	10.00	0.00		
7,450.0	5.03	89.62	7,344.2	945.5	-690.5	-586.8	10.00	10.00	0.00		
7,500.0	10.03	89.62	7,393.8	945.6	-683.9	-580.3	10.00	10.00	0.00		
7,550.0	15.03	89.62	7,442.6	945.6	-673.1	-569.5	10.00	10.00	0.00		
7,600.0	20.02	89.62	7,490.2	945.7	-658.1	-554.5	10.00	10.00	0.00		
7,650.0	25.02	89.62	7,536.4	945.9	-638.9	-535.5	10.00	10.00	0.00		
7,700.0	30.02	89.62	7,580.7	946.0	-615.8	-512.5	10.00	10.00	0.00		
7,725.2	32.55	89.62	7,602.3	946.1	-602.7	-499.4	10.00	10.00	0.00		

Hobbs Database:

Company:

Mewbourne Oil Company Eddy County, New Mexico NAD 83

Project: Fresh Squeezed 6/5 Fed Com #521H Site:

Well: Sec 06, T18S, R31E

BHL: 350' FNL & 100' FEL (Sec 5) Wellbore:

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

anned 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)
7,750.0	35.02	89.62	7,622.9	946.2	-588.9	-485.7	10.00	10.00	0.00
7,800.0	40.02	89.62	7,662.5	946.4	-558.5	-455.4	10.00	10.00	0.00
7,850.0	45.02	89.62	7,699.4	946.6	-524.7	-421.8	10.00	10.00	0.00
7,900.0	50.02	89.62	7,733.1	946.9	-487.9	-385.1	10.00	10.00	0.00
7,950.0	55.02	89.62	7,763.5	947.1	-448.2	-345.7	10.00	10.00	0.00
8,000.0	60.02	89.62	7,790.4	947.4	-406.0	-303.7	10.00	10.00	0.00
8,050.0	65.01	89.62	7,813.5	947.7	-361.7	-259.6	10.00	10.00	0.00
8,100.0	70.01	89.62	7,832.6	948.0	-315.5	-213.6	10.00	10.00	0.00
8,150.0	75.01	89.62	7,847.6	948.3	-267.8	-166.2	10.00	10.00	0.00
8,200.0	80.01	89.62	7,858.4	948.7	-219.0	-117.6	10.00	10.00	0.00
8,250.0	85.01	89.62	7,864.9	949.0	-169.5	-68.3	10.00	10.00	0.00
8,289.7	88.98	89.62	7,867.0	949.2	-129.9	-28.9	10.00	10.00	0.00
8,300.0	88.98	89.62	7,867.2	949.3	-119.5	-18.6	0.00	0.00	0.00
8,350.0	88.98	89.62	7,868.1	949.6	-69.5	31.1	0.00	0.00	0.00
8,400.0	88.98	89.62	7,869.0	950.0	-19.6	80.9	0.00	0.00	0.00
8,450.0	88.98	89.62	7,869.9	950.3	30.4	130.6	0.00	0.00	0.00
8,500.0	88.98	89.62	7,870.8	950.6	80.4	180.4	0.00	0.00	0.00
8,550.0	88.98	89.62	7,871.7	951.0	130.4	230.1	0.00	0.00	0.00
8,600.0	88.98	89.62	7,872.5	951.3	180.4	279.8	0.00	0.00	0.00
8,650.0	88.98	89.62	7,873.4	951.6	230.4	329.6	0.00	0.00	0.00
8,700.0	88.98	89.62	7,874.3	952.0	280.4	379.3	0.00	0.00	0.00
8,750.0	88.98	89.62	7,875.2	952.3	330.4	429.1	0.00	0.00	0.00
8,800.0	88.98	89.62	7,876.1	952.6	380.4	478.8	0.00	0.00	0.00
8,850.0	88.98	89.62	7,877.0	953.0	430.4	528.6	0.00	0.00	0.00
8,900.0	88.98	89.62	7,877.9	953.3	480.4	578.3	0.00	0.00	0.00
8,950.0	88.98	89.62	7,878.8	953.6	530.3	628.1	0.00	0.00	0.00
9,000.0	88.98	89.62	7,879.7	954.0	580.3	677.8	0.00	0.00	0.00
9,050.0	88.98	89.62	7,880.6	954.3	630.3	727.6	0.00	0.00	0.00
9,100.0	88.98	89.62	7,881.5	954.6	680.3	777.3	0.00	0.00	0.00
9,150.0	88.98	89.62	7,882.4	955.0	730.3	827.1	0.00	0.00	0.00
9,200.0	88.98	89.62	7,883.3	955.3	780.3	876.8	0.00	0.00	0.00
9,250.0	88.98	89.62	7,884.2	955.6	830.3	926.5	0.00	0.00	0.00
9,300.0	88.98	89.62	7,885.1	956.0	880.3	976.3	0.00	0.00	0.00
9,350.0	88.98	89.62	7,886.0	956.3	930.3	1,026.0	0.00	0.00	0.00
9,400.0	88.98	89.62	7,886.8	956.6	980.3	1,075.8	0.00	0.00	0.00
9,450.0	88.98	89.62	7,887.7	957.0	1,030.3	1,125.5	0.00	0.00	0.00
9,500.0	88.98	89.62	7,888.6	957.3	1,080.2	1,175.3	0.00	0.00	0.00
9,550.0	88.98	89.62	7,889.5	957.6	1,130.2	1,225.0	0.00	0.00	0.00
9,600.0	88.98	89.62	7,890.4	958.0	1,180.2	1,274.8	0.00	0.00	0.00
9,650.0	88.98	89.62	7,891.3	958.3	1,230.2	1,324.5	0.00	0.00	0.00
9,700.0	88.98	89.62	7,892.2	958.6	1,280.2	1,374.3	0.00	0.00	0.00
9,750.0	88.98	89.62	7,893.1	959.0	1,330.2	1,424.0	0.00	0.00	0.00
9,800.0	88.98	89.62	7,894.0	959.3	1,380.2	1,473.8	0.00	0.00	0.00
9,850.0	88.98	89.62	7,894.9	959.6	1,430.2	1,523.5	0.00	0.00	0.00
9,900.0	88.98	89.62	7,895.8	960.0	1,480.2	1,573.3	0.00	0.00	0.00
9,950.0	88.98	89.62	7,896.7	960.3	1,530.2	1,623.0	0.00	0.00	0.00
10,000.0	88.98	89.62	7,897.6	960.6	1,580.2	1,672.7	0.00	0.00	0.00
10,050.0	88.98	89.62	7,898.5	960.9	1,630.1	1,722.5	0.00	0.00	0.00
10,100.0	88.98	89.62	7,899.4	961.3	1,680.1	1,772.2	0.00	0.00	0.00
10,148.9	88.98	89.62	7,900.2	961.6	1,729.0	1,820.9	0.00	0.00	0.00
	FNL & 2432' FWL				. =				
10,150.0	88.98	89.62	7,900.3	961.6	1,730.1	1,822.0	0.00	0.00	0.00
10,200.0	88.98	89.62	7,901.1	961.9	1,780.1	1,871.7	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Fresh Squeezed 6/5 Fed Com #521H

Well: Sec 06, T18S, R31E

Wellbore: BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

Grid

esigii.									
Planned Survey									
Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usit)	(°)	(°)	(usit)	(usft)	(usft)	(usit)	( / Toousit)	( / loousit)	( / loousit)
10,250.0	88.98	89.62	7,902.0	962.3	1,830.1	1,921.5	0.00	0.00	0.00
10,300.0	88.98	89.62	7,902.9	962.6	1,880.1	1,971.2	0.00	0.00	0.00
10,350.0	88.98	89.62	7,903.8	962.9	1,930.1	2,021.0	0.00	0.00	0.00
10,400.0	88.98	89.62	7,904.7	963.3	1,980.1	2,070.7	0.00	0.00	0.00
10,400.0	00.30	03.02	7,304.7	300.0	1,300.1	2,070.7	0.00	0.00	0.00
10,450.0	88.98	89.62	7,905.6	963.6	2,030.1	2,120.5	0.00	0.00	0.00
10,500.0	88.98	89.62	7,906.5	963.9	2,080.1	2,170.2	0.00	0.00	0.00
10,550.0	88.98	89.62	7,907.4	964.3	2,130.1	2,220.0	0.00	0.00	0.00
10,600.0	88.98	89.62	7,908.3	964.6	2,180.0	2,269.7	0.00	0.00	0.00
10,650.0	88.98	89.62	7,909.2	964.9	2,230.0	2,319.5	0.00	0.00	0.00
10,700.0	88.98	89.62	7,910.1	965.3	2,280.0	2,369.2	0.00	0.00	0.00
10,750.0	88.98	89.62	7,911.0	965.6	2,330.0	2,418.9	0.00	0.00	0.00
10,800.0	88.98	89.62	7,911.9	965.9	2,380.0	2,468.7	0.00	0.00	0.00
10,850.0	88.98	89.62	7,912.8	966.3	2,430.0	2,518.4	0.00	0.00	0.00
10,900.0	88.98	89.62	7,913.7	966.6	2,480.0	2,568.2	0.00	0.00	0.00
40.050.0	00.00	00.00	70446	000.0	0.500.0	0.047.0	0.00	0.00	0.00
10,950.0	88.98	89.62	7,914.6	966.9	2,530.0	2,617.9	0.00	0.00	0.00
11,000.0	88.98	89.62	7,915.5	967.3	2,580.0	2,667.7	0.00	0.00	0.00
11,050.0	88.98	89.62	7,916.3	967.6	2,630.0	2,717.4	0.00	0.00	0.00
11,100.0	88.98	89.62	7,917.2	967.9	2,680.0	2,767.2	0.00	0.00	0.00
11,150.0	88.98	89.62	7,918.1	968.3	2,729.9	2,816.9	0.00	0.00	0.00
11,200.0	88.98	89.62	7,919.0	968.6	2,779.9	2,866.7	0.00	0.00	0.00
11,250.0	88.98	89.62	7,919.9	968.9	2,829.9	2,916.4	0.00	0.00	0.00
11,300.0	88.98	89.62	7,920.8	969.3	2,879.9	2,966.2	0.00	0.00	0.00
11,350.0	88.98	89.62	7,921.7	969.6	2,929.9	3,015.9	0.00	0.00	0.00
	88.98	89.62	7,922.6	969.9	2,979.9	3,065.7	0.00	0.00	
11,400.0	00.90	09.02	7,922.6	909.9	2,979.9	3,065.7	0.00	0.00	0.00
11,450.0	88.98	89.62	7,923.5	970.3	3,029.9	3,115.4	0.00	0.00	0.00
11,500.0	88.98	89.62	7,924.4	970.6	3,079.9	3,165.1	0.00	0.00	0.00
11,550.0	88.98	89.62	7,925.3	970.9	3,129.9	3,214.9	0.00	0.00	
									0.00
11,600.0	88.98	89.62	7,926.2	971.3	3,179.9	3,264.6	0.00	0.00	0.00
11,650.0	88.98	89.62	7,927.1	971.6	3,229.9	3,314.4	0.00	0.00	0.00
11,700.0	88.98	89.62	7,928.0	971.9	3,279.8	3,364.1	0.00	0.00	0.00
11,750.0	88.98	89.62	7,928.9	972.3	3,329.8	3,413.9	0.00	0.00	0.00
11,800.0	88.98	89.62	7,929.8	972.6	3,379.8	3,463.6	0.00	0.00	0.00
11,850.0	88.98	89.62	7,930.6	972.9	3,429.8	3,513.4	0.00	0.00	0.00
11,900.0	88.98	89.62	7,931.5	973.3	3,479.8	3,563.1	0.00	0.00	0.00
11,950.0	88.98	89.62	7,932.4	973.6	3,529.8	3,612.9	0.00	0.00	0.00
12,000.0	88.98	89.62	7,933.3	973.9	3,579.8	3,662.6	0.00	0.00	0.00
12,050.0	88.98	89.62	7,934.2	974.3	3,629.8	3,712.4	0.00	0.00	0.00
12,100.0	88.98	89.62	7,935.1	974.6	3,679.8	3,762.1	0.00	0.00	0.00
12,150.0	88.98	89.62	7,936.0	974.9	3,729.8	3,811.8	0.00	0.00	0.00
12, 130.0	00.90	09.02	1,830.0	314.5	5,128.0	5,011.0	0.00	0.00	0.00
12,200.0	88.98	89.62	7,936.9	975.2	3,779.8	3,861.6	0.00	0.00	0.00
12,250.0	88.98	89.62	7,937.8	975.6	3,829.7	3,911.3	0.00	0.00	0.00
12,300.0	88.98	89.62	7,937.8	975.9	3,879.7	3,961.1	0.00	0.00	0.00
12,350.0	88.98	89.62	7,939.6	976.2	3,929.7	4,010.8	0.00	0.00	0.00
12,400.0	88.98	89.62	7,940.5	976.6	3,979.7	4,060.6	0.00	0.00	0.00
10 150 0	00.00	90.00	7044 4	070.0	4 000 7	4 440 0	0.00	0.00	0.00
12,450.0	88.98	89.62	7,941.4	976.9	4,029.7	4,110.3	0.00	0.00	0.00
12,500.0	88.98	89.62	7,942.3	977.2	4,079.7	4,160.1	0.00	0.00	0.00
12,550.0	88.98	89.62	7,943.2	977.6	4,129.7	4,209.8	0.00	0.00	0.00
12,600.0	88.98	89.62	7,944.1	977.9	4,179.7	4,259.6	0.00	0.00	0.00
12,650.0	88.98	89.62	7,944.9	978.2	4,229.7	4,309.3	0.00	0.00	0.00
12,700.0	88.98	89.62	7,945.8	978.6	4,279.7	4,359.1	0.00	0.00	0.00
12,750.0	88.98	89.62	7,946.7	978.9	4,329.7	4,408.8	0.00	0.00	0.00
12,787.4	88.98	89.62	7,947.4	979.2	4,367.0	4,446.0	0.00	0.00	0.00
			.,	3, 5.2	.,007.0	.,	5.55	0.00	0.00
	NL & 0' FWL (Se								
12,800.0	88.98	89.62	7,947.6	979.2	4,379.6	4,458.6	0.00	0.00	0.00

Hobbs Database: Company:

Project:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Fresh Squeezed 6/5 Fed Com #521H Site:

Well: Sec 06, T18S, R31E

BHL: 350' FNL & 100' FEL (Sec 5) Wellbore:

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

ssigii.	Design #1								
lanned 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)
12,850.0	88.98	89.62	7,948.5	979.6	4,429.6	4,508.3	0.00	0.00	0.00
12,900.0	88.98	89.62	7,949.4	979.9	4,479.6	4,558.0	0.00	0.00	0.00
12,950.0	88.98	89.62	7,950.3	980.2	4,529.6	4,607.8	0.00	0.00	0.00
13,000.0	88.98	89.62	7,951.2	980.6	4,579.6	4,657.5	0.00	0.00	0.00
13,050.0	88.98	89.62	7,952.1	980.9	4,629.6	4,707.3	0.00	0.00	0.00
13,100.0	88.98	89.62	7,953.0	981.2	4,679.6	4,757.0	0.00	0.00	0.00
,									
13,150.0	88.98	89.62	7,953.9	981.6	4,729.6	4,806.8	0.00	0.00	0.00
13,200.0	88.98	89.62	7,954.8	981.9	4,779.6	4,856.5	0.00	0.00	0.00
13,250.0	88.98	89.62	7,955.7	982.2	4,829.6	4,906.3	0.00	0.00	0.00
13,300.0	88.98	89.62	7,956.6	982.6	4,879.6	4,956.0	0.00	0.00	0.00
13,350.0	88.98	89.62	7,957.5	982.9	4,929.5	5,005.8	0.00	0.00	0.00
13,400.0	88.98	89.62	7,958.4	983.2	4,979.5	5,055.5	0.00	0.00	0.00
13,450.0	88.98	89.62	7,959.2	983.6	5,029.5	5,105.3	0.00	0.00	0.00
13,500.0	88.98	89.62	7,960.1	983.9	5,079.5	5,155.0	0.00	0.00	0.00
13,550.0	88.98	89.62	7,961.0	984.2	5,129.5	5,204.8	0.00	0.00	0.00
13,600.0	88.98	89.62	7,961.9	984.6	5,179.5	5,254.5	0.00	0.00	0.00
13,650.0	88.98	89.62	7,962.8	984.9	5,229.5	5,304.2	0.00	0.00	0.00
13,700.0	88.98	89.62	7,963.7	985.2	5,279.5	5,354.0	0.00	0.00	0.00
13,750.0	88.98	89.62	7,964.6	985.6	5,329.5	5,403.7	0.00	0.00	0.00
13,800.0	88.98	89.62	7,965.5	985.9	5,379.5	5,453.5	0.00	0.00	0.00
13,850.0	88.98	89.62	7,966.4	986.2	5,429.5	5,503.2	0.00	0.00	0.00
13,900.0	88.98	89.62	7,967.3	986.6	5,479.4	5,553.0	0.00	0.00	0.00
13,950.0	88.98	89.62	7,968.2	986.9	5,529.4	5,602.7	0.00	0.00	0.00
14,000.0	88.98	89.62	7,969.1	987.2	5,579.4	5,652.5	0.00	0.00	0.00
14,050.0	88.98	89.62	7,970.0	987.6	5,629.4	5,702.2	0.00	0.00	0.00
14,100.0	88.98	89.62	7,970.0	987.9	5,679.4	5,752.0	0.00	0.00	0.00
14, 100.0	00.90	09.02	1,970.9	907.9	5,079.4	5,752.0	0.00	0.00	0.00
14,150.0	88.98	89.62	7,971.8	988.2	5,729.4	5,801.7	0.00	0.00	0.00
14,200.0	88.98	89.62	7,972.7	988.5	5,779.4	5,851.5	0.00	0.00	0.00
14,250.0	88.98	89.62	7,973.5	988.9	5,829.4	5,901.2	0.00	0.00	0.00
14,300.0	88.98	89.62	7,974.4	989.2	5,879.4	5,951.0	0.00	0.00	0.00
14,350.0	88.98	89.62	7,975.3	989.5	5,929.4	6,000.7	0.00	0.00	0.00
14 400 0	88 08	89.62	7,976.2	989.9	5,979.4	6.050.4	0.00	0.00	0.00
14,400.0 14,450.0	88.98 88.98	89.62 89.62	7,976.2 7,977.1	989.9 990.2	5,979.4 6,029.3	6,050.4 6,100.2	0.00	0.00	0.00
									0.00
14,500.0	88.98	89.62 89.63	7,978.0	990.5	6,079.3	6,149.9 6.100.7	0.00	0.00	
14,550.0 14,600.0	88.98	89.62 89.62	7,978.9 7,979.8	990.9	6,129.3 6,179.3	6,199.7 6,249.4	0.00 0.00	0.00 0.00	0.00 0.00
14,000.0	88.98	09.02	0.616,1	991.2	6,179.3	0,249.4	0.00	0.00	0.00
14,650.0	88.98	89.62	7,980.7	991.5	6,229.3	6,299.2	0.00	0.00	0.00
14,700.0	88.98	89.62	7,981.6	991.9	6,279.3	6,348.9	0.00	0.00	0.00
14,750.0	88.98	89.62	7,982.5	992.2	6,329.3	6,398.7	0.00	0.00	0.00
14,800.0	88.98	89.62	7,983.4	992.5	6,379.3	6,448.4	0.00	0.00	0.00
14,850.0	88.98	89.62	7,984.3	992.9	6,429.3	6,498.2	0.00	0.00	0.00
44.000.0	00.00	90.60	7.005.0	002.0			0.00	0.00	0.00
14,900.0	88.98	89.62	7,985.2	993.2	6,479.3	6,547.9	0.00	0.00	0.00
14,950.0	88.98	89.62	7,986.1	993.5	6,529.3	6,597.7	0.00	0.00	0.00
15,000.0	88.98	89.62	7,987.0	993.9	6,579.2	6,647.4	0.00	0.00	0.00
15,050.0	88.98	89.62	7,987.9	994.2	6,629.2	6,697.2	0.00	0.00	0.00
15,100.0	88.98	89.62	7,988.7	994.5	6,679.2	6,746.9	0.00	0.00	0.00
15,150.0	88.98	89.62	7,989.6	994.9	6,729.2	6,796.6	0.00	0.00	0.00
15,200.0	88.98	89.62	7,990.5	995.2	6,779.2	6,846.4	0.00	0.00	0.00
15,250.0	88.98	89.62	7,991.4	995.5	6,829.2	6,896.1	0.00	0.00	0.00
15,300.0	88.98	89.62	7,992.3	995.9	6,879.2	6,945.9	0.00	0.00	0.00
15,350.0	88.98	89.62	7,993.2	996.2	6,929.2	6,995.6	0.00	0.00	0.00
15,400.0	88.98	89.62	7,994.1	996.5	6,979.2	7,045.4	0.00	0.00	0.00
15,427.5	88.98	89.62	7,994.6	996.7	7,006.7	7,072.8	0.00	0.00	0.00

Hobbs Database:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Fresh Squeezed 6/5 Fed Com #521H

Well: Sec 06, T18S, R31E Wellbore:

Company:

Project:

Site:

BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

jn:	Design #1								
ned Survey									
Measured Depth (usft)	i Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PPP4: 35	50' FNL & 2640' FWI	L (Sec 5)							
15,450	0.0 88.98	89.62	7,995.0	996.9	7,029.2	7,095.1	0.00	0.00	0.00
15,500	0.0 88.98	89.62	7,995.9	997.2	7,079.2	7,144.9	0.00	0.00	0.00
15,550	0.0 88.98	89.62	7,996.8	997.5	7,129.1	7,194.6	0.00	0.00	0.00
4E COC		00.00	7 007 7	007.0	7 470 4	7.044.4	0.00	0.00	0.00
15,600 15,650		89.62 89.62	7,997.7 7,998.6	997.9 998.2	7,179.1 7,229.1	7,244.4 7,294.1	0.00 0.00	0.00 0.00	0.00 0.00
15,700		89.62	7,999.5	998.5	7,229.1	7,343.9	0.00	0.00	0.00
15,750		89.62	8,000.4	998.9	7,329.1	7,393.6	0.00	0.00	0.00
15,800		89.62	8,001.3	999.2	7,379.1	7,443.3	0.00	0.00	0.00
15,850		89.62	8,002.2	999.5	7,429.1	7,493.1	0.00	0.00	0.00
15,900		89.62	8,003.0	999.9	7,479.1	7,542.8	0.00	0.00	0.00
15,950 16,000		89.62 89.62	8,003.9 8,004.8	1,000.2 1,000.5	7,529.1 7,579.1	7,592.6 7,642.3	0.00 0.00	0.00 0.00	0.00 0.00
16,000		89.62 89.62	8,004.8 8,005.7	1,000.5	7,579.1 7,629.1	7,642.3 7,692.1	0.00	0.00	0.00
16,100		89.62	8,006.6	1,001.2	7,679.0	7,741.8	0.00	0.00	0.00
16,150		89.62	8,007.5	1,001.5	7,729.0	7,791.6	0.00	0.00	0.00
16,200		89.62	8,008.4	1,001.8	7,779.0	7,841.3	0.00	0.00	0.00
16,250		89.62	8,009.3	1,002.2	7,829.0	7,891.1	0.00	0.00	0.00
16,300		89.62	8,010.2	1,002.5	7,879.0	7,940.8	0.00	0.00	0.00
16,350		89.62	8,011.1	1,002.8	7,929.0	7,990.6	0.00	0.00	0.00
16,400		89.62	8,012.0	1,003.2	7,979.0	8,040.3	0.00	0.00	0.00
16,450		89.62	8,012.9	1,003.5	8,029.0	8,090.1	0.00	0.00	0.00
16,500		89.62	8,013.8	1,003.8	8,079.0	8,139.8	0.00	0.00	0.00
16,550	0.0 88.98	89.62	8,014.7	1,004.2	8,129.0	8,189.5	0.00	0.00	0.00
16,600	0.0 88.98	89.62	8,015.6	1,004.5	8,179.0	8,239.3	0.00	0.00	0.00
16,650	0.0 88.98	89.62	8,016.5	1,004.8	8,228.9	8,289.0	0.00	0.00	0.00
16,700		89.62	8,017.3	1,005.2	8,278.9	8,338.8	0.00	0.00	0.00
16,750		89.62	8,018.2	1,005.5	8,328.9	8,388.5	0.00	0.00	0.00
16,800	0.0 88.98	89.62	8,019.1	1,005.8	8,378.9	8,438.3	0.00	0.00	0.00
16,850	0.0 88.98	89.62	8,020.0	1,006.2	8,428.9	8,488.0	0.00	0.00	0.00
16,900	0.0 88.98	89.62	8,020.9	1,006.5	8,478.9	8,537.8	0.00	0.00	0.00
16,950		89.62	8,021.8	1,006.8	8,528.9	8,587.5	0.00	0.00	0.00
17,000		89.62	8,022.7	1,007.2	8,578.9	8,637.3	0.00	0.00	0.00
17,050	0.0 88.98	89.62	8,023.6	1,007.5	8,628.9	8,687.0	0.00	0.00	0.00
17,100	0.0 88.98	89.62	8,024.5	1,007.8	8,678.9	8,736.8	0.00	0.00	0.00
17,150		89.62	8,025.4	1,008.2	8,728.9	8,786.5	0.00	0.00	0.00
17,200	0.0 88.98	89.62	8,026.3	1,008.5	8,778.8	8,836.3	0.00	0.00	0.00
17,250		89.62	8,027.2	1,008.8	8,828.8	8,886.0	0.00	0.00	0.00
17,300	0.0 88.98	89.62	8,028.1	1,009.2	8,878.8	8,935.7	0.00	0.00	0.00
17,350	0.0 88.98	89.62	8,029.0	1,009.5	8,928.8	8,985.5	0.00	0.00	0.00
17,400		89.62	8,029.9	1,009.8	8,978.8	9,035.2	0.00	0.00	0.00
17,450		89.62	8,030.8	1,010.2	9,028.8	9,085.0	0.00	0.00	0.00
17,500		89.62	8,031.6	1,010.5	9,078.8	9,134.7	0.00	0.00	0.00
17,550	0.0 88.98	89.62	8,032.5	1,010.8	9,128.8	9,184.5	0.00	0.00	0.00
17,600	0.0 88.98	89.62	8,033.4	1,011.2	9,178.8	9,234.2	0.00	0.00	0.00
17,650		89.62	8,034.3	1,011.5	9,228.8	9,284.0	0.00	0.00	0.00
17,700		89.62	8,035.2	1,011.8	9,278.8	9,333.7	0.00	0.00	0.00
17,750		89.62	8,036.1	1,012.2	9,328.7	9,383.5	0.00	0.00	0.00
17,800		89.62	8,037.0	1,012.5	9,378.7	9,433.2	0.00	0.00	0.00
17,850		89.62	8,037.9	1,012.8	9,428.7	9,483.0	0.00	0.00	0.00
17,000		89.62	8,038.8	1,012.6	9,426.7 9,478.7	9,463.0	0.00	0.00	0.00
17,950		89.62	8,039.7	1,013.5	9,528.7	9,582.7	0.00	0.00	0.00
17,967		89.62	8,040.0	1,013.6	9,545.9	9,599.6	0.00	0.00	0.00
	)' FNL & 100' FEL (S					,			

Database: Hobbs

Project:

Site:

Company: Mewbo

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Fresh Squeezed 6/5 Fed Com #521H

Well: Sec 06, T18S, R31E

Wellbore: BHL: 350' FNL & 100' FEL (Sec 5)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Fresh Squeezed 6/5 Fed Com #521H

WELL @ 3617.0usft (Original Wellbore) WELL @ 3617.0usft (Original Wellbore)

Grid

Planned Survey										
Measured			Vertical			Vertical .	Dogleg	Build	Turn	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	

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: 1300' FNL & 700' F - plan hits target cente - Point	0.00 er	0.00	0.0	0.0	0.0	647,792.40	670,035.90	32.7801144	-103.9145784
KOP: 350' FNL & 10' FW - plan hits target cente - Point	0.00 er	0.00	7,294.0	945.5	-692.7	648,737.90	669,343.20	32.7827207	-103.9168202
FTP: 350' FNL & 100' FV - plan hits target cente - Point	0.00 er	0.00	7,602.3	946.1	-602.7	648,738.50	669,433 <u>.</u> 20	32.7827213	-103.9165273
PPP2: 349' FNL & 2432' - plan hits target cente - Point	0.00 er	0.00	7,900.2	961.6	1,729.0	648,754.01	671,764.90	32.7827385	-103.9089403
PPP3: 350' FNL & 0' FW - plan hits target cente - Point	0.00 er	0.00	7,947.4	979.2	4,367.0	648,771,56	674,402.90	32.7827573	-103,9003565
PPP4: 350' FNL & 2640' - plan hits target cente - Point	0.00 er	0.00	7,994.6	996.7	7,006.7	648,789.12	677,042.60	32.7827756	<b>-</b> 103.8917673
BHL: 350' FNL & 100' FE - plan hits target cente - Point	0.00 er	0.00	8,040.0	1,013.6	9,545.9	648,806.00	679,581 <u>.</u> 80	32.7827926	-103.8835051

#### Mewbourne Oil Company, Fresh Squeezed 6/5 Fed Com 521H Sec 6, T18S, R31E

SHL: 1300' FNL 700' FWL (Sec 6) BHL: 350' FNL 100' FEL (Sec 5)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Fresh Squeezed 6/5 Fed Com	521H

Kick	( )††	Point	/K(	ואו

TEIGH OIL I	omie (rror	,									
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County		
#N/A	6	18	31	4	350'	FNL	10'	FWL	Eddy		
		Latitude				Longitude					
32.7827205	5				-103.91682	203			83		

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
#N/A	6	18	31	4	350'	FNL	100'	FWL	Eddy
Latitude Longitude							NAD		
32.7827211				-103.91652	275			83	

Last Take Point (LTP)

	East Take Tollit (ETT)									
	UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	#N/A	5	18	31	1	350'	FNL	100'	FEL	Eddy
ı	Latitude Longitude						NAD			
ı	32.7827927					-103.88350	50			83

Is this well the defining well for the Horizontal Is this well an infill well?	Spacing Unit?	Y		
If infill is yes please provide API if available, on Spacing Unit.	Operator Name and	well number for De	fining well for Horizontal	
API#				
Operator Name:	Property Name:			Well Number

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** MEWBOURNE OIL COMPANY

WELL NAME & NO.: FRESH SQUEEZED 6/5 FED COM 521H

**APD ID:** 10400100014

**LOCATION:** Section 6, T18S, R31E. NMP

COUNTY: Eddy County, New Mexico

COA

$H_2S$	C	No	Yes			
Potash /	None	Secretary	C R-111-Q	Open Annulus		
WIPP				■ WIPP		
Cave / Karst	• Low	Medium	C High	Critical		
Wellhead	Conventional	Multibowl	C Both	<ul><li>Diverter</li></ul>		
Cementing	Primary Squeeze	Cont. Squeeze	EchoMeter	DV Tool		
Special Req	Capitan Reef	Water Disposal	▼ COM	Unit		
Waste Prev.	C Self-Certification	Waste Min. Plan	C APD Submitted p	prior to 06/10/2024		
Additional	▼ Flex Hose	Casing Clearance	Pilot Hole	Break Testing		
Language	Four-String	Offline Cementing	Fluid-Filled			

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated at spud. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### **B. CASING**

#### **Primary Casing Program**

- 1. The 13-3/8 inch surface casing shall be set at approximately 493 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 ft. above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi 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.

Not: The intermediate casing set depth was adjusted per BLM geologist's recommendation: "The operator proposes to set intermediate casing at 2,000', BLM accepts 1,700 the lower Yates Formation APD well casing set depth and rock type. Tansill/Yates formations are the common casing set depths in the region historically isolating the Salado formation salt."

- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 1,700 ft. 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.
- **3.** Operator has proposed to set **7 in.** production casing at approximately **7,399 ft.** (7,294 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

**Note:** Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the asdrilled size of the wellbore.

- **4.** The minimum required fill of cement behind the **4-1/2 in.** production liner is:
  - Cement should tie-back at least 100 feet into previous casing string. Operator shall provide method of verification.

#### **Alternate Casing Program**

- 1. The 13-3/8 inch surface casing shall be set at approximately 493 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 ft. above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi 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.

Not: The intermediate casing set depth was adjusted per BLM geologist's recommendation: "The operator proposes to set intermediate casing at 2,000', BLM accepts 1,700 the lower Yates Formation APD well casing set depth and rock type. Tansill/Yates formations are the common casing set depths in the region historically isolating the Salado formation salt."

- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 1,700 ft. 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.
- 3. Operator has proposed to set 7 in. production casing at approximately 8,289 ft. (7,867 ft. TVD). The minimum required fill of cement behind the 7 in. production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

**Note:** Excess cement is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the asdrilled size of the wellbore.

- 4. The minimum required fill of cement behind the 4-1/2 in. production liner is:
  - Cement should tie-back at least 100 feet into previous casing string. Operator shall provide method of verification.

#### **Offline Cementing**

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County:** 575-361-2822.

#### 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. The BOP/BOPE and annular preventer shall be pressure-tested in accordance with title 43 CFR 3172.
  - 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 the **title 43 CFR 3172.6(b)(9)** must be followed.

#### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

#### D. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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. When the Communitization Agreement number is known, it shall also be on the sign.

#### **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)

#### **Contact Eddy County Petroleum Engineering Inspection Staff:**

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV**; (575) 361-2822.

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. 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.
    - iii. BOP/BOPE test to be conducted per **43** CFR 3172 as soon as 2<sup>nd</sup> 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 doghouse or stairway area.
- **3.** For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following

- conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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-Q 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 43 CFR 3172.
- 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:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. 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.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. 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.
  - i. 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 cement), 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).
  - ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
  - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 43 CFR 3172.

#### 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.

SA 05/02/2025

### 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:

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

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

#### 3. Hydrogen Sulfide Safety Equipment and Systems

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

#### 1. Well Control Equipment

- A. Choke manifold with minimum of one adjustable choke/remote choke.
- B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- C. Auxiliary equipment including annular type blowout preventer.
- 2. <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 Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility - Columbia Medical Cer	nter of Carlsbad 575-492-5000

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

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

#### Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: Garbage & Trash

Amount of waste: 1500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Waste type: DRILLING

Waste content description: DRILL CUTTINGS

Amount of waste: 940 barrels

Waste disposal frequency: One Time Only

Safe containment description: DRILL CUTTINGS WILL BE PROPERLY CONTAINED IN STEEL TANKS (20 YARD ROLL

OFF BINS.)

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located

on HWY 62/180, Sec 27, T20S, R32E

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency: Weekly

Safe containment description: 2,000 gallon plastic container

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

#### **Reserve Pit**

**Operator Name: MEWBOURNE OIL COMPANY** 

Well Name: FRESH SQUEEZED 6/5 FED COM Well Number: 521H

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 width (ft.) Cuttings area length (ft.)

Cuttings area depth (ft.) Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

**Cuttings area liner** 

Cuttings area liner specifications and installation description

#### **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

#### Comments:

#### **Section 9 - Well Site**

Well Site Layout Diagram:

FRESH\_SQUEEZED\_6\_5\_FED\_COM\_521H\_WellSiteLayout\_20241101140002.pdf

Comments: NONE

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 471198

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	471198
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/5/2025
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/5/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/18/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/18/2025
ward.rikala	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.	7/18/2025
ward.rikala	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.	7/18/2025