



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

Sundry Print Report

11/19/2021

Well Name: LITTLEGIANTS 20/19 W0PM FEDCOM	Well Location: T22S / R28E / SEC 21 / SWSW / 32.3746048 / -104.100527	County or Parish/State: EDDY / NM
Well Number: 2H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM086542, NMNM86542	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546237	Well Status: Drilling Well	Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Sundry ID: 2387318

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 05/14/2021

Time Sundry Submitted: 03:20

Date proposed operation will begin: 05/14/2021

Procedure Description: Mewbourne Oil Company request approval to make the following changes to the approved APD. Change well name from Little Giants 20/19 W0PM Fed Com #2H to Little Giants 20/19 W0IL Fed Com #1H. Change SHL from: 1310' FSL & 205' FWL to 1310' FSL & 750' FWL, Sec 21, T22S, R28E Change BHL from: 1310' FSL & 330' FWL to 1800' FSL & 330' FWL, Sec 19, T22S, R28E Adjust casing and cement design as detailed in the attachment Call Mike Loy if any questions

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Little_Giants_20_19_W0IL_Fed_Com_1H_Csg_Assumptions_20210514151916.doc

Little_Giants_20_19_W0IL_Fed_Com_1H_Dir_Plot_20210514151915.pdf

Little_Giants_20_19_W0IL_Fed_Com_1H_Dir_Plan_20210514151915.pdf

Little_Giants_20_19_W0IL_Fed_Com_1H_Plat_Signed_20210514151915.pdf

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Operator Certification

I certify that the foregoing is true and correct. 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 of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BRADLEY BISHOP**Signed on:** MAY 14, 2021 03:19 PM**Name:** MEWBOURNE OIL COMPANY**Title:** Regulatory**Street Address:** PO Box 5270**City:** Hobbs**State:** NM**Phone:** (575) 393-5905**Email address:** bbishop@mewbourne.com**Field Representative****Representative Name:** Mike Loy**Street Address:****City:** Hobbs**State:** NM**Zip:** 88240**Phone:****Email address:** mloy@mewbourne.com**BLM Point of Contact****BLM POC Name:** CHRISTOPHER WALLS**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752342234**BLM POC Email Address:** cwalls@blm.gov**Disposition:** Approved**Disposition Date:** 06/23/2021**Signature:** Chris Walls

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46237		² Pool Code 98220		³ Pool Name Purple Sage ; Wolfcamp (6AS)	
⁴ Property Code 326048		⁵ Property Name LITTLE GIANTS 20/19 WOIL FED COM			⁶ Well Number 1H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3066'
¹⁰ Surface Location					
UL or lot no. M	Section 21	Township 22S	Range 28E	Lot Idn	Feet from the 1310
			North/South line SOUTH	Feet From the 750	East/West line WEST
			County EDDY		
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. 10	Section 19	Township 22S	Range 28E	Lot Idn	Feet from the 1800
			North/South line SOUTH	Feet from the 330	East/West line WEST
			County EDDY		
¹² Dedicated Acres		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	

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

<p>16</p> <p>CORNER DATA NAD 83 GRID - NM EAST A: CALCULATED CORNER N: 498738.4 - E: 602695.4 B: FOUND BRASS CAP "1943" N: 501392.4 - E: 602705.4 C: FOUND BRASS CAP "1916" N: 504054.4 - E: 602698.6 D: FOUND BRASS CAP "1943" N: 503977.8 - E: 605000.8 E: FOUND BRASS CAP "1943" N: 503984.6 - E: 607656.7 F: FOUND BRASS CAP "1943" N: 503997.0 - E: 610302.1 G: FOUND BRASS CAP "1943" N: 504006.3 - E: 612949.6 H: FOUND BRASS CAP "1943" N: 504049.7 - E: 615622.3</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 500092.1 - E: 613754.7 LAT: 32.3746045° N LONG: 104.0987621° W</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST BOTTOM HOLE N: 500535.7 - E: 603032.1 LAT: 32.3758837° N LONG: 104.1334914° W</p>		<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Mike Loy</i> Date: 5-14-21 Printed Name: Mike Loy E-mail Address: mloy@mewbourne.com</p>
<p>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: 04/21/2021 Signature and Seal of Professional Surveyor: <i>Robert M. Howett</i> Certificate Number: 19680</p>		<p>Job No.: LS18101193R2</p>

Mewbourne Oil Company, Little Giants 20/19 W0IL Fed Com #1H**Sec 21, T22S, R28E****SHL: 1310' FSL & 750' FWL, Sec 21****BHL: 1800' FSL & 330' FWL, Sec 19****Casing Program**

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	450'	13.375"	48	H40	STC	3.74	8.40	14.91	25.05
12.25"	0'	2555'	9.625"	40	J55	LTC	1.52	2.65	4.92	6.13
8.75"	0'	9803'	7"	26	HCP110	LTC	1.63	2.08	2.72	3.35
6.125"	9046'	19,982'	4.5"	13.5	P110	LTC	2.16	2.51	2.29	2.86
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
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.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Little Giants 20/19 W0IL Fed Com #1H**Sec 21, T22S, R28E****SHL: 1310' FSL & 750' FWL, Sec 21****BHL: 1800' FSL & 330' FWL, Sec 19****Cementing Program**

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	170	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter	365	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod 1 st Stg	440	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV Tool @ 3510'						
Prod 2 nd Stg	50	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	440	11.2	2.97	18	16	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	2355'	25%
Liner	9046'	25%

Mud Program

MD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	450'	Spud Mud	8.6-8.8	28-34	N/C
0'	2555'	Brine	10.0	28-34	N/C
2555'	9803'	Cut Brine	8.6-9.7	28-34	N/C
9803'	19,982'	OBM	10.0-12.0	30-40	<10cc

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?	Pason/PVT/Visual Monitoring
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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM086542
WELL NAME & NO.:	LITTLEGIANTS 20-19 W0IL Fed Com 1H
SURFACE HOLE FOOTAGE:	1310'/S & 750'/W
BOTTOM HOLE FOOTAGE:	1800'/S & 330'/W
LOCATION:	Section 21, T.22 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **450** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **9-5/8** inch intermediate casing shall be set at approximately **2555** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **7** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)**Communitization Agreement**

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

OTA05162021

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

COMMENTS

Action 62789

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 62789
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 11/23/2021	11/23/2021

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 62789

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 62789
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	FTP and LTP must be at least 110' from the spacing unit boundary. Otherwise an NSL administrative application for an NSL must be approved prior to putting the well into production	11/23/2021
kpickford	Adhere to previous NMOCD Conditions of Approval	11/23/2021