

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON OLD Hobbs
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

Hobbs Field Office
HOBBS OCD
SEP 05 2018
RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM094095
2. Name of Operator MEWBOURNE OIL COMPANY Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com		6. If Indian, Allottee or Tribe Name
3a. Address PO BOX 5270 HOBBS, NM 88241	3b. Phone No. (include area code) Ph: 575-393-5905	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T21S R32E Mer NMP NESW 1615FSL 2020FWL		8. Well Name and No. CAPER 20/29 B2CN FEDERAL COM 1H
		9. API Well No. 30-025-45087
		10. Field and Pool or Exploratory Area 5695
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mewbourne Oil Company requests approval to make the following changes:

- 1) Change BHL to 100' FSL & 1980' FWL, Sec 29.
- 2) Change casing and cement to suit new plan.
- 3) Move surface location to 1615' FSL & 2020' FWL, Sec 17.

Please see attachments containing C-102, new drilling plan, and casing and cement information.

Please contact Bo Talley with any questions.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

PCM 8/23/18 Same COAs as original BIA
Engineering Coord. See attached COA. 2S 8/20/18

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #431789 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Hobbs
Committed to AFMSS for processing by ZOTA STEVENS on 08/20/2018 ()

Name (Printed/Typed) BO TALLEY	Title ENGINEER
Signature (Electronic Submission)	Date 08/17/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>Cody Taylor</i>	Title <i>PCM - LPR</i>	Date <i>08/24/18</i>
Conditions of approval, if any, are attached. Approval of this notice 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.		Office <i>CFO</i>

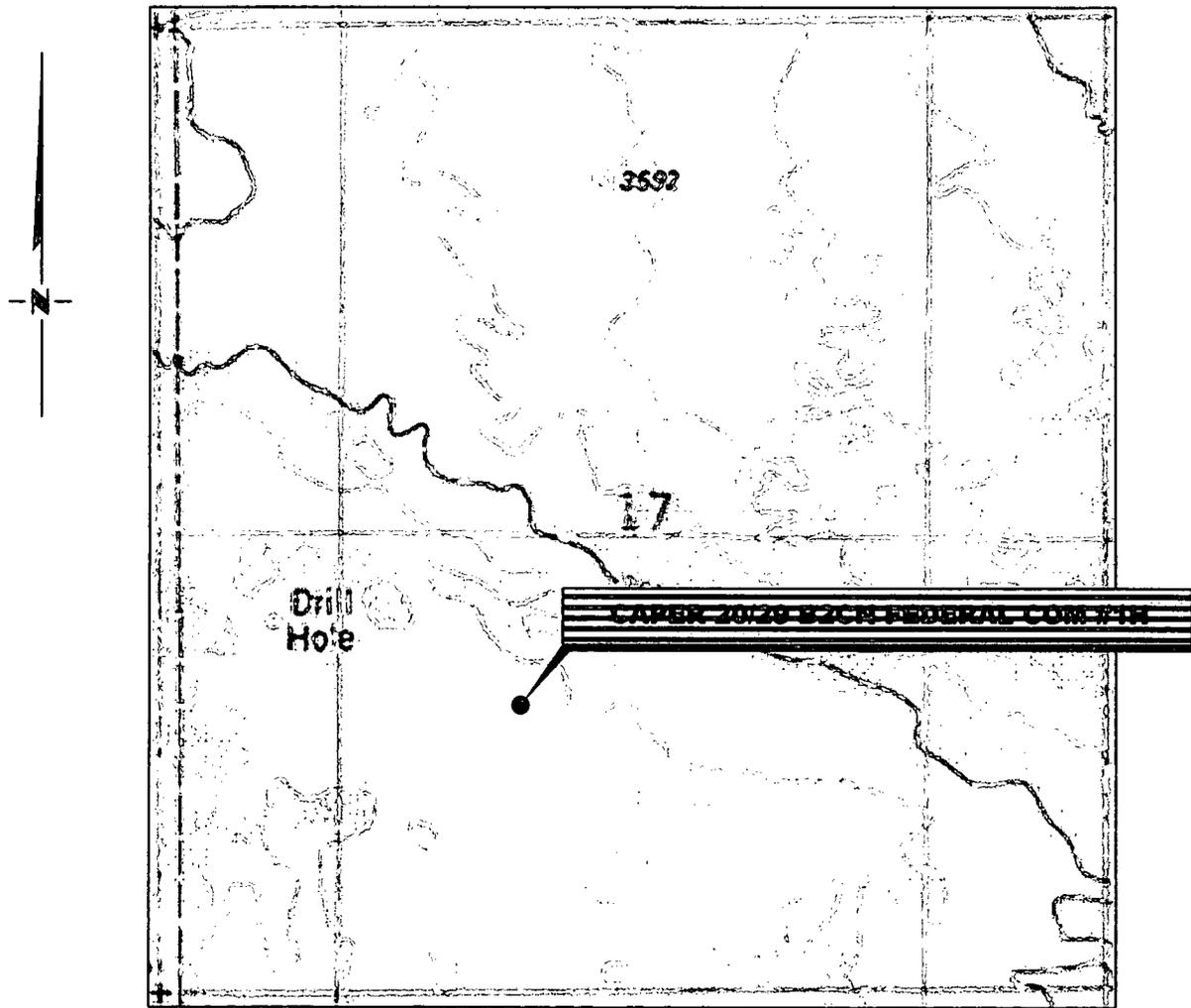
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

KZ

LOCATION VERIFICATION MAP



*SECTION 17, TWP. 21 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA CO., NEW MEXICO*

OPERATOR: Mewbourne Oil Company
 LEASE: Caper 20/29 B2CN Federal Com
 WELL NO.: 1H
 ELEVATION: 3637'

LOCATION: 1615' FSL & 2020' FWL
 CONTOUR INTERVAL: 10'
 USGS TOPO. SOURCE MAP:
The Divide, NM (P. E. 1984)

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NO.	REVISION	DATE
JOB NO.: LS1703142R		
DWG. NO.: 1703142R-2		

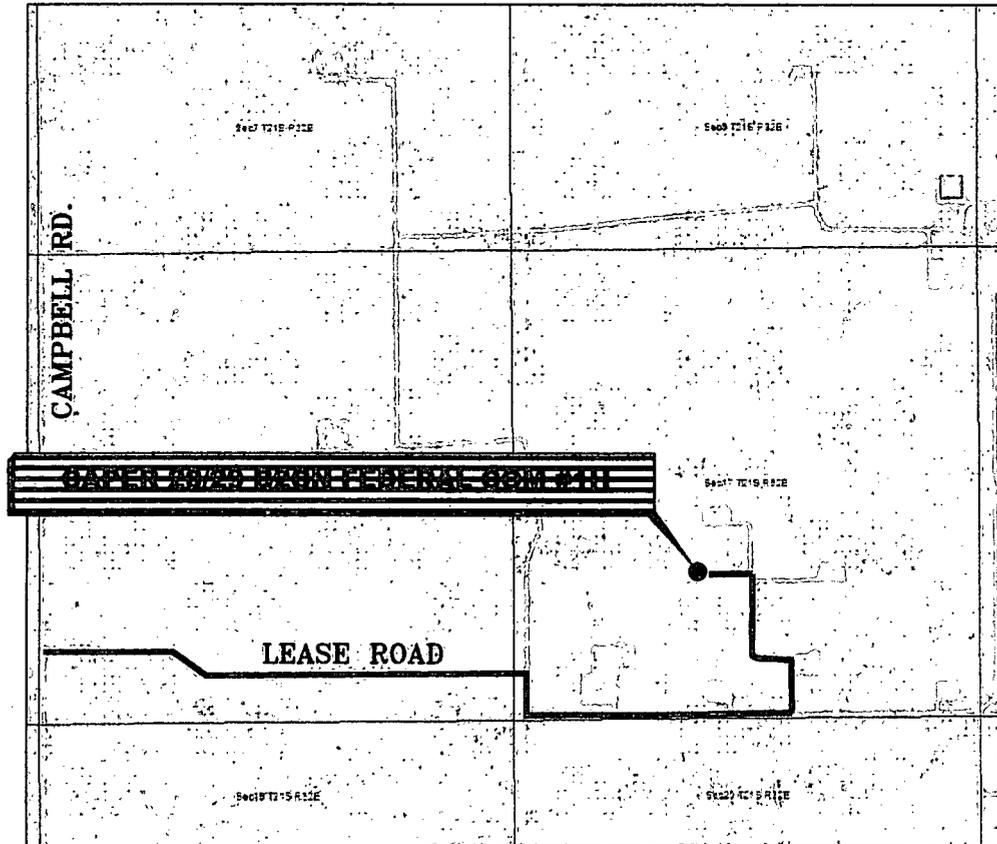
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 08-06-2018
SURVEYED BY: ML/JL
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

VICINITY MAP

NOT TO SCALE



SECTION 17, TWP. 21 SOUTH, RGE. 32 EAST,
N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company
 LEASE: Caper 20/29 B2CN Federal Com
 WELL NO.: 1H

LOCATION: 1615' FSL & 2020' FWL
 ELEVATION: 3637'

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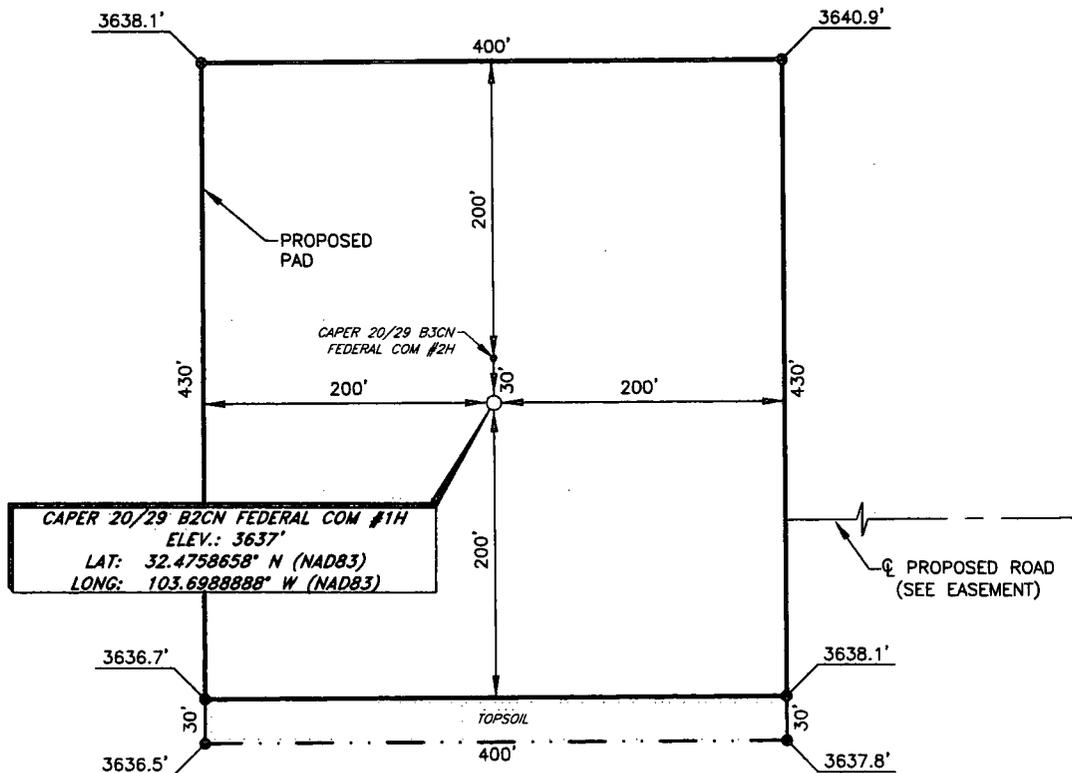
NO.	REVISION	DATE
JOB NO.: LS1703142R		
DWG. NO.: 1703142R-3		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 08-06-2018
SURVEYED BY: ML/JL
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
CAPER 20/29 B2CN FEDERAL COM #1H
(1615' FSL & 2020' FWL)
SECTION 17, T21S, R32E
N. M. P. M., LEA COUNTY, NEW MEXICO



CAPER 20/29 B2CN FEDERAL COM #1H
ELEV.: 3637'
LAT: 32.4758658° N (NAD83)
LONG: 103.6988888° W (NAD83)

DIRECTIONS TO LOCATION

*From the intersection of U.S. Hwy. 62/180 and Campbell road;
 Go South on Campbell approx. 5.7 miles to a lease road on the left;
 Turn left and go East approx. 1.7 miles to a lease road on the left;
 Turn left and go North approx. 0.1 miles to a left curve in the road;
 Turn left and follow the road West approx. 0.1 miles to a curve to the right;
 Stay right and follow the road North approx. 0.1 miles to a proposed road on the left;
 Turn left and go West approx 0.1 miles to location on the left.*



SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 83 GRID - NM EAST
 DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
 Robert M. Howett NM PS 19680



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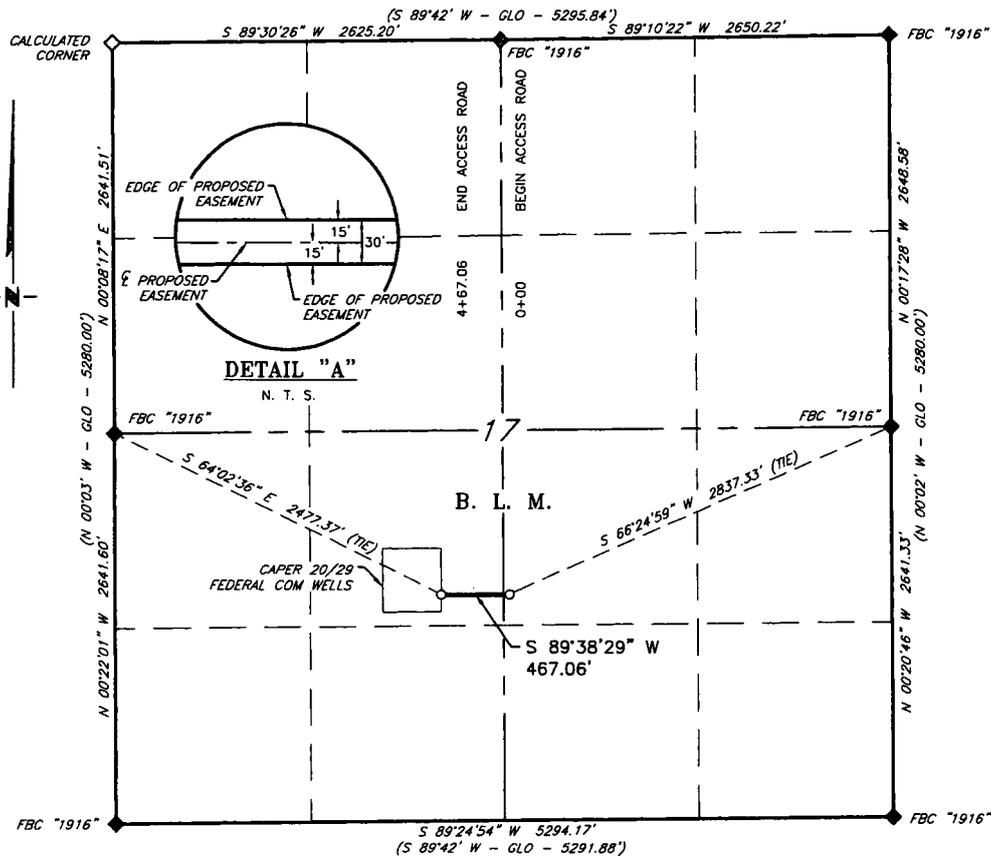
NO.	REVISION	DATE
JOB NO.: LS1703142R		
DWG. NO.: 1703142R-4		



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 08-06-2018
SURVEYED BY: ML/JL
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

**MEWBOURNE OIL COMPANY
PROPOSED ACCESS ROAD FOR THE
CAPER 20/29 FEDERAL COM WELLS
SECTION 17, T21S, R32E
N. M. P. M., LEA CO., NEW MEXICO**



DESCRIPTION

A strip of land 30 feet wide, being 467.06 feet or 28.307 rods in length, lying in Section 17, Township 21 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land:

BEGINNING at Engr. Sta. 0+00, a point in the Southeast quarter of Section 17, which bears, S 66°24'59" W, 2,837.33 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 17;

Thence S 89°38'29" W, 467.06 feet, to Engr. Sta. 4+67.06, the End of Survey, a point in the Southwest quarter of Section 17, which bears, S 64°02'36" E, 2,477.37 feet from a brass cap, stamped "1916", found for the West quarter corner of Section 17.

Said strip of land contains 0.322 acres, more or less, and is allocated by forties as follows:

NW 1/4 SE 1/4	2.428 Rods	0.028 Acres
NE 1/4 SW 1/4	25.879 Rods	0.294 Acres

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

- () RECORD DATA - GLO
- ◆ FOUND MONUMENT AS NOTED
- ◇ CALCULATED CORNER

— PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.: LS1703242R		
DWG. NO.: 1703242R-5		



308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 08-06-2018
SURVEYED BY: ML/JL
DRAWN BY: KAKN
APPROVED BY: RMH
SHEET: 1 OF 1

Mewbourne Oil Company, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

BHL: 100' FSL & 1980' FWL, Sec 29

2. 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'	1055'	13.375"	48	H40	STC	1.59	3.58	6.36	10.68
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	3.16	3.94
12.25"	3453'	3926'	9.625"	40	J55	LTC	1.26	1.93	27.48	33.30
8.75"	0'	11793'	7"	26	HCP110	LTC	1.40	1.79	2.13	2.71
6.125"	11046'	23398'	4.5"	13.5	P110	LTC	1.70	1.98	2.03	2.53
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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

BHL: 100' FSL & 1980' FWL, Sec 29

1. Geologic Formations

TVD of target	10504'	Pilot hole depth	NA
MD at TD:	23398'	Deepest expected fresh water:	125'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	981	Water	
Top Salt	1390		
Castile			
Base Salt	3326		
Lamar	4314	Oil/Gas	
Bell Canyon	4578	Oil/Gas	
Cherry Canyon	5524	Oil/Gas	
Manzanita Marker	5698		
Brushy Canyon	6718	Oil/Gas	
Bone Spring	8437	Oil/Gas	
1 st Bone Spring Sand	9534		
2 nd Bone Spring Sand	10169	Target Zone	
3 rd Bone Spring Sand			
Abo			
Wolfcamp			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

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3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	570	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.	645	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
Prod. Stg 1	320	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	13	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV Tool @ 5700'						
Prod. Stg 2	305	12.5	2.12	11	16	Lead: Class C + Gel + Retarder + Defoamer + Extender
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	500	11.2	2.97	17	16	Class C + 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, etc.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	855'	25%
Liner	11046'	25%

Mewbourne Oil Company, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

BHL: 100' FSL & 1980' FWL, Sec 29

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

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. 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.

X	Formation integrity test will be performed per Onshore Order #2. 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 Onshore Oil and Gas Order #2 III.B.1.i.
Y	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.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. <ul style="list-style-type: none"> Provide description here: See attached schematic.

Mewbourne Oil Company, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

BHL: 100' FSL & 1980' FWL, Sec 29

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1055'	Spud Mud	8.6-8.8	28-34	N/C
1055'	3926'	BW	10.0	28-34	N/C
3926'	11046'	FW w/ Polymer	8.6-9.7	28-34	N/C
11046'	12080'	OBM	8.6-10.0	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?	Visual Monitoring
---	-------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11046') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
X	Gamma Ray
	Density
	CBL
	Mud log
	PEX
	11046' (KOP) to TD

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6281 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Mewbourne Oil Company, Caper 20/29 B2CN Federal Com #1H

Sec 17, T21S, R32E

SL: 1615' FSL & 2020' FWL, Sec 17

BHL: 100' FSL & 1980' FWL, Sec 29

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.	
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<input type="checkbox"/>	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

Directional Plan

Other, describe