

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 WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM0556290

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.
326-222

8. Well Name and No.
PERAZZI 9 B2MP FEDERAL 1H

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
MEWBOURNE OIL COMPANY

Contact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com

9. API Well No.
30-015-43853-00-X1

3a. Address
P O BOX 5270
HOBBS, NM 88241

3b. Phone No. (include area code)
Ph: 575-393-5905

10. Field and Pool or Exploratory Area
PARKWAY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 8 T20S R29E SESE 735FSL 210FEL

11. County or Parish, State
EDDY 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"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Hydraulic Fracturing
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other
	Change to Original APD
	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Change to Injection
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Temporarily Abandon
	<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 recomple 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 recomple 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 to the approved APD:

- 1) Change well name to Perazzi 9/10 W0MP Fed #1H ✓
- 2) Change target zone to Wolfcamp & pool to Purple Sage Wolfcamp ✓
- 3) Change SHL to 750' FSL & 210' FEL, Sec 8, T20S, R29E ✓
- 3) Change casing & cement design as detailed in attached drilling program.

*PCM 10/8/19
same COAs*

See attachments for C-102, drilling program & directional plan
Please contact Andy Taylor with any questions.

Engineering Good P. COAs Attached

Carlsbad Field Office
OCD Artesia *Apply*

Eng. All Previous COAs Still Apply, Except For the Following: P.

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

Electronic Submission #486868 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/07/2019 (20PP0073SE)

Name (Printed/Typed) ANDY TAYLOR Title ENGINEER

Signature (Electronic Submission) Date 10/07/2019

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 17 2019
RECEIVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *[Signature]* Acting AFM Title *Sup PE* Date *10/8/19*

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 *CFO*

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) ** BLM REVISED **

RWP 10-21-19

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Perazzi 9/10 WOMP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

BHL: 440' FSL & 100' FEL, Sec 10

Plan: Design #1

Standard Planning Report

19 August, 2019

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Perazzi 9/10 WOMP Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site:	Perazzi 9/10 WOMP Fed #1H	North Reference:	Grid
Well:	Sec 8, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10		
Design:	Design #1		

Project:	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Perazzi 9/10 WOMP Fed #1H				
Site Position:	Map	Northing:	575,835.00 usft	Latitude:	32.5827875
From:		Easting:	616,504.00 usft	Longitude:	-104.0892955
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well:	Sec 8, T20S, R29E					
Well Position	+N-S	0.0 usft	Northing:	575,835.00 usft	Latitude:	32.5827875
	+E-W	0.0 usft	Easting:	616,504.00 usft	Longitude:	-104.0892955
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,300.0 usft	Ground Level:	3,273.0 usft

Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2019	6.84	60.23	47,937

Design:	Design #1				
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Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	

Vertical Section:	Depth From (TVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)
	0.0	0.0	0.0	91.52

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Dogleg Rate (°/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,150.0	0.00	0.00	3,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,398.5	3.73	208.74	3,398.3	-7.1	-3.9	1.50	1.50	0.00	208.74	
8,588.4	3.73	208.74	8,577.2	-302.9	-166.1	0.00	0.00	0.00	0.00	
8,836.9	0.00	0.00	8,825.5	-310.0	-170.0	1.50	-1.50	0.00	180.00	KOP: 440' FSL & 380'
9,582.0	89.41	89.86	9,303.0	-308.8	302.6	12.00	12.00	0.00	89.86	
19,967.0	89.41	89.86	9,410.0	-283.0	10,687.0	0.00	0.00	0.00	0.00	BHL: 440' FSL & 100'

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Perazzi 9/10 WOMP Fed #1H
Company	Mewbourne Oil Company	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Project	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site	Perazzi 9/10 WOMP Fed #1H	North Reference:	Grid
Well	Sec 8, T20S, R29E	Survey/Calculation Method:	Minimum Curvature
Wellbore	BHL: 440' FSL & 100' FEL, Sec 10		
Design	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
SHL: 750' FSL & 210' FEL (8)										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,150.0	0.00	0.00	3,150.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,200.0	0.75	208.74	3,200.0	-0.3	-0.2	-0.1	1.50	1.50	0.00	0.00
3,300.0	2.25	208.74	3,300.0	-2.6	-1.4	-1.3	1.50	1.50	0.00	0.00
3,398.5	3.73	208.74	3,398.3	-7.1	-3.9	-3.7	1.50	1.50	0.00	0.00
3,400.0	3.73	208.74	3,399.8	-7.2	-3.9	-3.7	0.00	0.00	0.00	0.00
3,500.0	3.73	208.74	3,499.6	-12.9	-7.1	-6.7	0.00	0.00	0.00	0.00
3,600.0	3.73	208.74	3,599.4	-18.6	-10.2	-9.7	0.00	0.00	0.00	0.00
3,700.0	3.73	208.74	3,699.2	-24.3	-13.3	-12.7	0.00	0.00	0.00	0.00
3,800.0	3.73	208.74	3,799.0	-30.0	-16.4	-15.6	0.00	0.00	0.00	0.00
3,900.0	3.73	208.74	3,898.8	-35.7	-19.6	-18.6	0.00	0.00	0.00	0.00
4,000.0	3.73	208.74	3,998.6	-41.4	-22.7	-21.6	0.00	0.00	0.00	0.00
4,100.0	3.73	208.74	4,098.3	-47.1	-25.8	-24.6	0.00	0.00	0.00	0.00
4,200.0	3.73	208.74	4,198.1	-52.8	-28.9	-27.5	0.00	0.00	0.00	0.00
4,300.0	3.73	208.74	4,297.9	-58.5	-32.1	-30.5	0.00	0.00	0.00	0.00
4,400.0	3.73	208.74	4,397.7	-64.2	-35.2	-33.5	0.00	0.00	0.00	0.00
4,500.0	3.73	208.74	4,497.5	-69.9	-38.3	-36.5	0.00	0.00	0.00	0.00
4,600.0	3.73	208.74	4,597.3	-75.6	-41.4	-39.4	0.00	0.00	0.00	0.00
4,700.0	3.73	208.74	4,697.1	-81.3	-44.6	-42.4	0.00	0.00	0.00	0.00
4,800.0	3.73	208.74	4,796.9	-87.0	-47.7	-45.4	0.00	0.00	0.00	0.00
4,900.0	3.73	208.74	4,896.6	-92.7	-50.8	-48.3	0.00	0.00	0.00	0.00
5,000.0	3.73	208.74	4,996.4	-98.4	-53.9	-51.3	0.00	0.00	0.00	0.00

Planning Report

Database Company:	Hobbs Mewbourne Oil Company	Local Co-ordinate Reference:	Site Perazzi 9/10 WOMP Fed #1H
Project:	Eddy County, New Mexico NAD 83	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site:	Perazzi 9/10 WOMP Fed #1H	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Well:	Sec 8, T20S, R29E	North Reference:	Grid
Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10	Survey Calculation Method:	Minimum Curvature
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	3.73	208.74	5,096.2	-104.1	-57.1	-54.3	0.00	0.00	0.00	
5,200.0	3.73	208.74	5,196.0	-109.8	-60.2	-57.3	0.00	0.00	0.00	
5,300.0	3.73	208.74	5,295.8	-115.5	-63.3	-60.2	0.00	0.00	0.00	
5,400.0	3.73	208.74	5,395.6	-121.2	-66.4	-63.2	0.00	0.00	0.00	
5,500.0	3.73	208.74	5,495.4	-126.9	-69.6	-66.2	0.00	0.00	0.00	
5,600.0	3.73	208.74	5,595.2	-132.6	-72.7	-69.2	0.00	0.00	0.00	
5,700.0	3.73	208.74	5,695.0	-138.3	-75.8	-72.1	0.00	0.00	0.00	
5,800.0	3.73	208.74	5,794.7	-144.0	-79.0	-75.1	0.00	0.00	0.00	
5,900.0	3.73	208.74	5,894.5	-149.7	-82.1	-78.1	0.00	0.00	0.00	
6,000.0	3.73	208.74	5,994.3	-155.4	-85.2	-81.1	0.00	0.00	0.00	
6,100.0	3.73	208.74	6,094.1	-161.1	-88.3	-84.0	0.00	0.00	0.00	
6,200.0	3.73	208.74	6,193.9	-166.8	-91.5	-87.0	0.00	0.00	0.00	
6,300.0	3.73	208.74	6,293.7	-172.5	-94.6	-90.0	0.00	0.00	0.00	
6,400.0	3.73	208.74	6,393.5	-178.2	-97.7	-93.0	0.00	0.00	0.00	
6,500.0	3.73	208.74	6,493.3	-183.9	-100.8	-95.9	0.00	0.00	0.00	
6,600.0	3.73	208.74	6,593.1	-189.6	-104.0	-98.9	0.00	0.00	0.00	
6,700.0	3.73	208.74	6,692.8	-195.3	-107.1	-101.9	0.00	0.00	0.00	
6,800.0	3.73	208.74	6,792.6	-201.0	-110.2	-104.9	0.00	0.00	0.00	
6,900.0	3.73	208.74	6,892.4	-206.7	-113.3	-107.8	0.00	0.00	0.00	
7,000.0	3.73	208.74	6,992.2	-212.4	-116.5	-110.8	0.00	0.00	0.00	
7,100.0	3.73	208.74	7,092.0	-218.1	-119.6	-113.8	0.00	0.00	0.00	
7,200.0	3.73	208.74	7,191.8	-223.8	-122.7	-116.7	0.00	0.00	0.00	
7,300.0	3.73	208.74	7,291.6	-229.5	-125.8	-119.7	0.00	0.00	0.00	
7,400.0	3.73	208.74	7,391.4	-235.2	-129.0	-122.7	0.00	0.00	0.00	
7,500.0	3.73	208.74	7,491.1	-240.9	-132.1	-125.7	0.00	0.00	0.00	
7,600.0	3.73	208.74	7,590.9	-246.6	-135.2	-128.6	0.00	0.00	0.00	
7,700.0	3.73	208.74	7,690.7	-252.3	-138.3	-131.6	0.00	0.00	0.00	
7,800.0	3.73	208.74	7,790.5	-258.0	-141.5	-134.6	0.00	0.00	0.00	
7,900.0	3.73	208.74	7,890.3	-263.7	-144.6	-137.6	0.00	0.00	0.00	
8,000.0	3.73	208.74	7,990.1	-269.4	-147.7	-140.5	0.00	0.00	0.00	
8,100.0	3.73	208.74	8,089.9	-275.1	-150.8	-143.5	0.00	0.00	0.00	
8,200.0	3.73	208.74	8,189.7	-280.8	-154.0	-146.5	0.00	0.00	0.00	
8,300.0	3.73	208.74	8,289.5	-286.5	-157.1	-149.5	0.00	0.00	0.00	
8,400.0	3.73	208.74	8,389.2	-292.2	-160.2	-152.4	0.00	0.00	0.00	
8,500.0	3.73	208.74	8,489.0	-297.9	-163.4	-155.4	0.00	0.00	0.00	
8,588.4	3.73	208.74	8,577.2	-302.9	-166.1	-158.0	0.00	0.00	0.00	
8,600.0	3.55	208.74	8,588.8	-303.6	-166.5	-158.4	1.50	-1.50	0.00	
8,700.0	2.05	208.74	8,688.7	-307.9	-168.8	-160.6	1.50	-1.50	0.00	
8,800.0	0.55	208.74	8,788.7	-309.8	-169.9	-161.7	1.50	-1.50	0.00	
8,836.9	0.00	0.00	8,825.5	-310.0	-170.0	-161.7	1.50	-1.50	0.00	
KOP: 440' FSL & 380' FEL (8)										
8,900.0	7.58	89.86	8,888.5	-310.0	-165.8	-157.6	12.00	12.00	0.00	
9,000.0	19.57	89.86	8,985.5	-309.9	-142.4	-134.1	12.00	12.00	0.00	
9,100.0	31.57	89.86	9,075.6	-309.8	-99.3	-91.1	12.00	12.00	0.00	
9,200.0	43.57	89.86	9,154.7	-309.7	-38.4	-30.2	12.00	12.00	0.00	
9,300.0	55.57	89.86	9,219.4	-309.5	37.5	45.7	12.00	12.00	0.00	
9,400.0	67.57	89.86	9,266.9	-309.3	125.3	133.5	12.00	12.00	0.00	
9,500.0	79.57	89.86	9,295.1	-309.0	221.1	229.2	12.00	12.00	0.00	
9,582.0	89.41	89.86	9,303.0	-308.8	302.6	310.7	11.99	11.99	0.00	
LP/FTP: 440' FSL & 100' FWL (9)										
9,600.0	89.41	89.86	9,303.2	-308.8	320.6	328.6	0.00	0.00	0.00	
9,700.0	89.41	89.86	9,304.2	-308.5	420.6	428.6	0.00	0.00	0.00	
9,800.0	89.41	89.86	9,305.2	-308.3	520.6	528.5	0.00	0.00	0.00	
9,900.0	89.41	89.86	9,306.3	-308.0	620.6	628.5	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Perazzi 9/10 WOMP Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site:	Perazzi 9/10 WOMP Fed #1H	North Reference:	Grid
Well:	Sec 8, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,000.0	89.41	89.86	9,307.3	-307.8	720.6	728.5	0.00	0.00	0.00	
10,100.0	89.41	89.86	9,308.3	-307.5	820.6	828.4	0.00	0.00	0.00	
10,200.0	89.41	89.86	9,309.4	-307.3	920.5	928.4	0.00	0.00	0.00	
10,300.0	89.41	89.86	9,310.4	-307.0	1,020.5	1,028.3	0.00	0.00	0.00	
10,400.0	89.41	89.86	9,311.4	-306.8	1,120.5	1,128.3	0.00	0.00	0.00	
10,500.0	89.41	89.86	9,312.5	-306.5	1,220.5	1,228.2	0.00	0.00	0.00	
10,600.0	89.41	89.86	9,313.5	-306.3	1,320.5	1,328.2	0.00	0.00	0.00	
10,700.0	89.41	89.86	9,314.5	-306.0	1,420.5	1,428.1	0.00	0.00	0.00	
10,800.0	89.41	89.86	9,315.5	-305.8	1,520.5	1,528.1	0.00	0.00	0.00	
10,900.0	89.41	89.86	9,316.6	-305.5	1,620.5	1,628.0	0.00	0.00	0.00	
11,000.0	89.41	89.86	9,317.6	-305.3	1,720.5	1,728.0	0.00	0.00	0.00	
11,100.0	89.41	89.86	9,318.6	-305.0	1,820.5	1,827.9	0.00	0.00	0.00	
11,200.0	89.41	89.86	9,319.7	-304.8	1,920.5	1,927.9	0.00	0.00	0.00	
11,300.0	89.41	89.86	9,320.7	-304.6	2,020.5	2,027.8	0.00	0.00	0.00	
11,400.0	89.41	89.86	9,321.7	-304.3	2,120.5	2,127.8	0.00	0.00	0.00	
11,500.0	89.41	89.86	9,322.8	-304.1	2,220.5	2,227.7	0.00	0.00	0.00	
11,600.0	89.41	89.86	9,323.8	-303.8	2,320.5	2,327.7	0.00	0.00	0.00	
11,700.0	89.41	89.86	9,324.8	-303.6	2,420.5	2,427.7	0.00	0.00	0.00	
11,800.0	89.41	89.86	9,325.9	-303.3	2,520.5	2,527.6	0.00	0.00	0.00	
11,900.0	89.41	89.86	9,326.9	-303.1	2,620.5	2,627.6	0.00	0.00	0.00	
12,000.0	89.41	89.86	9,327.9	-302.8	2,720.4	2,727.5	0.00	0.00	0.00	
12,100.0	89.41	89.86	9,328.9	-302.6	2,820.4	2,827.5	0.00	0.00	0.00	
12,200.0	89.41	89.86	9,330.0	-302.3	2,920.4	2,927.4	0.00	0.00	0.00	
12,300.0	89.41	89.86	9,331.0	-302.1	3,020.4	3,027.4	0.00	0.00	0.00	
12,400.0	89.41	89.86	9,332.0	-301.8	3,120.4	3,127.3	0.00	0.00	0.00	
12,500.0	89.41	89.86	9,333.1	-301.6	3,220.4	3,227.3	0.00	0.00	0.00	
12,600.0	89.41	89.86	9,334.1	-301.3	3,320.4	3,327.2	0.00	0.00	0.00	
12,700.0	89.41	89.86	9,335.1	-301.1	3,420.4	3,427.2	0.00	0.00	0.00	
12,800.0	89.41	89.86	9,336.2	-300.8	3,520.4	3,527.1	0.00	0.00	0.00	
12,900.0	89.41	89.86	9,337.2	-300.6	3,620.4	3,627.1	0.00	0.00	0.00	
13,000.0	89.41	89.86	9,338.2	-300.3	3,720.4	3,727.0	0.00	0.00	0.00	
13,100.0	89.41	89.86	9,339.2	-300.1	3,820.4	3,827.0	0.00	0.00	0.00	
13,200.0	89.41	89.86	9,340.3	-299.8	3,920.4	3,926.9	0.00	0.00	0.00	
13,300.0	89.41	89.86	9,341.3	-299.6	4,020.4	4,026.9	0.00	0.00	0.00	
13,400.0	89.41	89.86	9,342.3	-299.3	4,120.4	4,126.8	0.00	0.00	0.00	
13,500.0	89.41	89.86	9,343.4	-299.1	4,220.4	4,226.8	0.00	0.00	0.00	
13,600.0	89.41	89.86	9,344.4	-298.8	4,320.4	4,326.8	0.00	0.00	0.00	
13,700.0	89.41	89.86	9,345.4	-298.6	4,420.4	4,426.7	0.00	0.00	0.00	
13,800.0	89.41	89.86	9,346.5	-298.3	4,520.3	4,526.7	0.00	0.00	0.00	
13,900.0	89.41	89.86	9,347.5	-298.1	4,620.3	4,626.6	0.00	0.00	0.00	
14,000.0	89.41	89.86	9,348.5	-297.8	4,720.3	4,726.6	0.00	0.00	0.00	
14,100.0	89.41	89.86	9,349.6	-297.6	4,820.3	4,826.5	0.00	0.00	0.00	
14,200.0	89.41	89.86	9,350.6	-297.3	4,920.3	4,926.5	0.00	0.00	0.00	
14,300.0	89.41	89.86	9,351.6	-297.1	5,020.3	5,026.4	0.00	0.00	0.00	
14,400.0	89.41	89.86	9,352.6	-296.8	5,120.3	5,126.4	0.00	0.00	0.00	
14,500.0	89.41	89.86	9,353.7	-296.6	5,220.3	5,226.3	0.00	0.00	0.00	
14,600.0	89.41	89.86	9,354.7	-296.3	5,320.3	5,326.3	0.00	0.00	0.00	
14,700.0	89.41	89.86	9,355.7	-296.1	5,420.3	5,426.2	0.00	0.00	0.00	
14,800.0	89.41	89.86	9,356.8	-295.8	5,520.3	5,526.2	0.00	0.00	0.00	
14,900.0	89.41	89.86	9,357.8	-295.6	5,620.3	5,626.1	0.00	0.00	0.00	
15,000.0	89.41	89.86	9,358.8	-295.4	5,720.3	5,726.1	0.00	0.00	0.00	
15,100.0	89.41	89.86	9,359.9	-295.1	5,820.3	5,826.0	0.00	0.00	0.00	
15,200.0	89.41	89.86	9,360.9	-294.9	5,920.3	5,926.0	0.00	0.00	0.00	
15,300.0	89.41	89.86	9,361.9	-294.6	6,020.3	6,026.0	0.00	0.00	0.00	

Planning Report

Database Company:	Hobbs Mewbourne Oil Company	Local/Co-ordinate Reference:	Site Perazzi 9/10 WOMP Fed #1H
Project:	Eddy County, New Mexico NAD 83	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site:	Perazzi 9/10 WOMP Fed #1H	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Well:	Sec 8, T20S, R29E	North Reference:	Grid
Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10	Survey Calculation Method:	Minimum Curvature
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,400.0	89.41	89.86	9,362.9	-294.4	6,120.3	6,125.9	0.00	0.00	0.00	
15,500.0	89.41	89.86	9,364.0	-294.1	6,220.3	6,225.9	0.00	0.00	0.00	
15,600.0	89.41	89.86	9,365.0	-293.9	6,320.2	6,325.8	0.00	0.00	0.00	
15,700.0	89.41	89.86	9,366.0	-293.6	6,420.2	6,425.8	0.00	0.00	0.00	
15,800.0	89.41	89.86	9,367.1	-293.4	6,520.2	6,525.7	0.00	0.00	0.00	
15,900.0	89.41	89.86	9,368.1	-293.1	6,620.2	6,625.7	0.00	0.00	0.00	
16,000.0	89.41	89.86	9,369.1	-292.9	6,720.2	6,725.6	0.00	0.00	0.00	
16,100.0	89.41	89.86	9,370.2	-292.6	6,820.2	6,825.6	0.00	0.00	0.00	
16,200.0	89.41	89.86	9,371.2	-292.4	6,920.2	6,925.5	0.00	0.00	0.00	
16,300.0	89.41	89.86	9,372.2	-292.1	7,020.2	7,025.5	0.00	0.00	0.00	
16,400.0	89.41	89.86	9,373.2	-291.9	7,120.2	7,125.4	0.00	0.00	0.00	
16,500.0	89.41	89.86	9,374.3	-291.6	7,220.2	7,225.4	0.00	0.00	0.00	
16,600.0	89.41	89.86	9,375.3	-291.4	7,320.2	7,325.3	0.00	0.00	0.00	
16,700.0	89.41	89.86	9,376.3	-291.1	7,420.2	7,425.3	0.00	0.00	0.00	
16,800.0	89.41	89.86	9,377.4	-290.9	7,520.2	7,525.2	0.00	0.00	0.00	
16,900.0	89.41	89.86	9,378.4	-290.6	7,620.2	7,625.2	0.00	0.00	0.00	
17,000.0	89.41	89.86	9,379.4	-290.4	7,720.2	7,725.1	0.00	0.00	0.00	
17,100.0	89.41	89.86	9,380.5	-290.1	7,820.2	7,825.1	0.00	0.00	0.00	
17,200.0	89.41	89.86	9,381.5	-289.9	7,920.2	7,925.1	0.00	0.00	0.00	
17,300.0	89.41	89.86	9,382.5	-289.6	8,020.1	8,025.0	0.00	0.00	0.00	
17,400.0	89.41	89.86	9,383.6	-289.4	8,120.1	8,125.0	0.00	0.00	0.00	
17,500.0	89.41	89.86	9,384.6	-289.1	8,220.1	8,224.9	0.00	0.00	0.00	
17,600.0	89.41	89.86	9,385.6	-288.9	8,320.1	8,324.9	0.00	0.00	0.00	
17,700.0	89.41	89.86	9,386.6	-288.6	8,420.1	8,424.8	0.00	0.00	0.00	
17,800.0	89.41	89.86	9,387.7	-288.4	8,520.1	8,524.8	0.00	0.00	0.00	
17,900.0	89.41	89.86	9,388.7	-288.1	8,620.1	8,624.7	0.00	0.00	0.00	
18,000.0	89.41	89.86	9,389.7	-287.9	8,720.1	8,724.7	0.00	0.00	0.00	
18,100.0	89.41	89.86	9,390.8	-287.6	8,820.1	8,824.6	0.00	0.00	0.00	
18,200.0	89.41	89.86	9,391.8	-287.4	8,920.1	8,924.6	0.00	0.00	0.00	
18,300.0	89.41	89.86	9,392.8	-287.1	9,020.1	9,024.5	0.00	0.00	0.00	
18,400.0	89.41	89.86	9,393.9	-286.9	9,120.1	9,124.5	0.00	0.00	0.00	
18,500.0	89.41	89.86	9,394.9	-286.6	9,220.1	9,224.4	0.00	0.00	0.00	
18,600.0	89.41	89.86	9,395.9	-286.4	9,320.1	9,324.4	0.00	0.00	0.00	
18,700.0	89.41	89.86	9,396.9	-286.2	9,420.1	9,424.3	0.00	0.00	0.00	
18,800.0	89.41	89.86	9,398.0	-285.9	9,520.1	9,524.3	0.00	0.00	0.00	
18,900.0	89.41	89.86	9,399.0	-285.7	9,620.1	9,624.2	0.00	0.00	0.00	
19,000.0	89.41	89.86	9,400.0	-285.4	9,720.1	9,724.2	0.00	0.00	0.00	
19,100.0	89.41	89.86	9,401.1	-285.2	9,820.0	9,824.2	0.00	0.00	0.00	
19,200.0	89.41	89.86	9,402.1	-284.9	9,920.0	9,924.1	0.00	0.00	0.00	
19,300.0	89.41	89.86	9,403.1	-284.7	10,020.0	10,024.1	0.00	0.00	0.00	
19,400.0	89.41	89.86	9,404.2	-284.4	10,120.0	10,124.0	0.00	0.00	0.00	
19,500.0	89.41	89.86	9,405.2	-284.2	10,220.0	10,224.0	0.00	0.00	0.00	
19,600.0	89.41	89.86	9,406.2	-283.9	10,320.0	10,323.9	0.00	0.00	0.00	
19,700.0	89.41	89.86	9,407.2	-283.7	10,420.0	10,423.9	0.00	0.00	0.00	
19,800.0	89.41	89.86	9,408.3	-283.4	10,520.0	10,523.8	0.00	0.00	0.00	
19,900.0	89.41	89.86	9,409.3	-283.2	10,620.0	10,623.8	0.00	0.00	0.00	
19,967.0	89.41	89.86	9,410.0	-283.0	10,687.0	10,690.7	0.00	0.00	0.00	

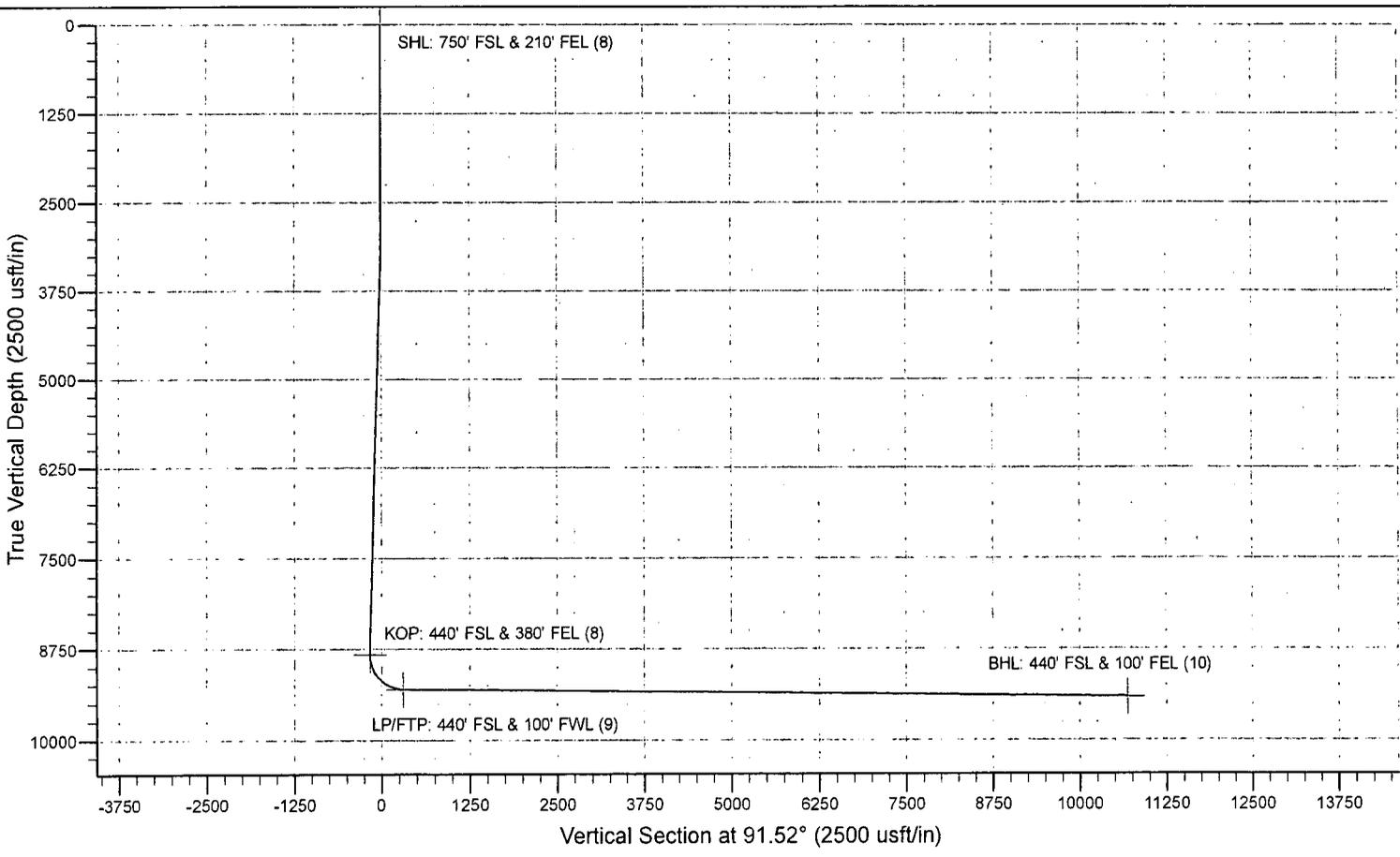
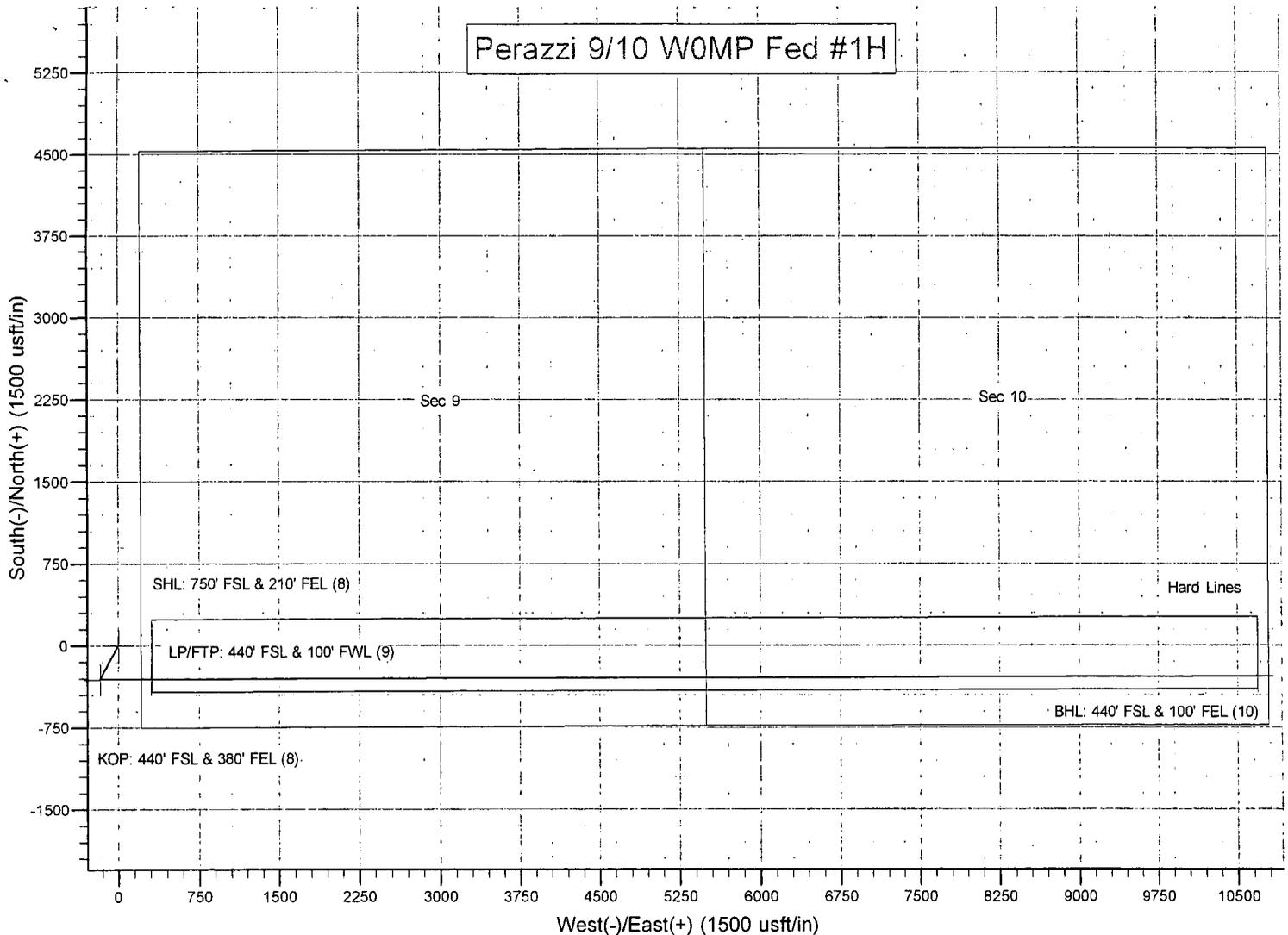
BHL: 440' FSL & 100' FEL (10)

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Perazzi 9/10 WOMP Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3300.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3300.0usft (Original Well Elev)
Site:	Perazzi 9/10 WOMP Fed #1H	North Reference:	Grid
Well:	Sec 8, T20S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 440' FSL & 100' FEL, Sec 10		
Design:	Design #1		

Design Targets										
Target Name	hit/miss:target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SHL: 750' FSL & 210' FE		0.00	0.00	0.0	0.0	0.0	575,835.00	616,504.00	32.5827875	-104.0892955
- plan hits target center										
- Point										
KOP: 440' FSL & 380' FI		0.00	0.00	8,825.5	-310.0	-170.0	575,525.00	616,334.00	32.5819365	-104.0898497
- plan hits target center										
- Point										
LP/FTP: 440' FSL & 100'		0.00	0.00	9,303.0	-308.8	302.6	575,526.20	616,806.60	32.5819368	-104.0883154
- plan hits target center										
- Point										
BHL: 440' FSL & 100' FE		0.00	0.00	9,410.0	-283.0	10,687.0	575,552.00	627,191.00	32.5819375	-104.0546015
- plan hits target center										
- Point										

Perazzi 9/10 WOMP Fed #1H



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brusos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-43853		2 Well Code 98220		3 Well Name Purple Sage Wotcamp.	
4 Property Code 326222		5 Property Name PERAZZI 9/10 WOMP FED			6 Well Number 1H
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3273'

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	8	20S	29E		750	SOUTH	210	EAST	EDDY

11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	20S	29E		440	SOUTH	100	EAST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16

GEODETTIC DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1916" N 575088.6 - E 611425.3	J: FOUND BRASS CAP "1916" N 575112.3 - E 627291.8
B: FOUND BRASS CAP "1916" N 577730.5 - E 611419.2	K: FOUND BRASS CAP "1916" N 575108.8 - E 624645.4
C: FOUND BRASS CAP "1916" N 580372.5 - E 611413.2	L: FOUND BRASS CAP "1916" N 575105.3 - E 621999.3
D: FOUND BRASS CAP "1916" N 580369.0 - E 614058.1	M: FOUND BRASS CAP "1916" N 575095.2 - E 619357.5
E: FOUND BRASS CAP "1916" N 580365.0 - E 616706.0	N: FOUND BRASS CAP "1916" N 575085.0 - E 616714.9
F: FOUND BRASS CAP "1916" N 580378.3 - E 619346.4	O: FOUND BRASS CAP "1916" N 575086.5 - E 614071.1
G: FOUND BRASS CAP "1916" N 580390.8 - E 621985.4	P: FOUND BRASS CAP "1916" N 577725.0 - E 616710.4
H: FOUND BRASS CAP "1916" N 580392.7 - E 624633.9	Q: FOUND BRASS CAP "1916" N 577747.9 - E 621992.4
I: FOUND BRASS CAP "1916" N 580395.9 - E 627283.8	

GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 575834.9 - E: 616503.7
LAT: 32.5827873° N
LONG: 104.0892965° W

BOTTOM HOLE
N: 575552.1 - E: 627191.2
LAT: 32.5819376° N
LON: 104.0546009° W

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.

Signature: Andrew Taylor Date: 9/25/2019
Printed Name: Andrew Taylor
E-mail Address: ataylor@mewbourne.com

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.

04-08-19
Date of Survey

Signature and Seal of Professional Surveyor

19680
Certificate Number

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

Job No.: LS19040480

RW
10-21-19

Mewbourne Oil Company, Perazzi 9/10 W0MP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

BHL: 440' FSL & 100' FEL, Sec 10

1. Geologic Formations

TVD of target	9410'	Pilot hole depth	NA
MD at TD:	19,967'	Deepest expected fresh water:	75'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler		Water	
Top of Salt	540		
Castile			
Base Salt	930		
Yates	1115	Oil/Gas	
Capitan	1345	Water	
Queen		Oil/Gas	
Grayburg			
Delaware	3150	Oil/Gas	
Bone Spring	5800	Oil/Gas	
1 st Bone Spring Sand	6950		
2 nd Bone Spring Sand	7544		
3 rd Bone Spring Sand	8800		
Abo			
Wolfcamp	9210	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, Perazzi 9/10 W0MP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

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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								
26"	0'	330'	20"	94	J55	BTC	3.61	14.64	45.20	47.71
17.5"	0'	1250'	13.375"	48	H40	STC	1.18	2.66	5.37	9.02
12.25"	0'	3075'	9.625"	36	J55	LTC	1.26	2.20	4.09	5.09
8.75"	0'	9400'	7"	26	HCP110	LTC	1.62	2.17	2.84	3.40
6.125"	8837'	19,967'	4.5"	13.5	P110	LTC	1.68	1.95	2.25	2.81
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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
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?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	

Mewbourne Oil Company, Perazzi 9/10 W0MP Fed #1H

Sec 8, T20S, R29E

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Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	345	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
1 st Inter.	450	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
2 nd Inter. Stg 1	205	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
ECP/DV Tool @ 1300'						
2 nd Inter. Stg 2	225	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	510	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	445	11.2	2.97	17	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, etc.

Casing String	TOC	% Excess
Surface	0'	100%
1 st Intermediate	0'	25%
2 nd Intermediate	0'	25%
Production	1295'	25%
Liner	8837'	25%

Mewbourne Oil Company, Perazzi 9/10 W0MP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

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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.
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Mewbourne Oil Company, Perazzi 9/10 WOMP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

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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 <p>See attached schematic.</p>

5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	330'	FW Gel	8.6-8.8	28-34	N/C
330'	1250'	Saturated Brine	10.0	28-34	N/C
1250'	9267'	Cut Brine	8.6-9.7	28-34	N/C
9267'	9410'	OBM	10-12.0	30-40	<20cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing:	
X	Will run GR/CNL from KOP (8837') 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
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Mewbourne Oil Company, Perazzi 9/10 WOMP Fed #1H

Sec 8, T20S, R29E

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X	Gamma Ray	8837' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5872 psi
Abnormal Temperature	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

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

Mewbourne Oil Company, Perazzi 9/10 W0MP Fed #1H

Sec 8, T20S, R29E

SHL: 750' FSL & 210' FEL, Sec 8

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4 High

20 surface csg in a 26 inch hole.										Design Factors		SURFACE	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight					
"A"	94.00	J 55	BTC	39.77	3.03	3.76	375	35,250					
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,313				Tail Cmt	does not	circ to sfc.	Totals:	375					
Comparison of Proposed to Minimum Required Cement Volumes													
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
26"	1.5053	545	999	698	43	8.80	323	2M	2.50				

13 3/8 casing inside the 20										Design Factors		INTERMEDIATE	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight					
"A"	48.00	H 40	STC	6.21	1.37	1.07	1,080	51,840					
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	1,080					
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		375	overlap.					
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
17 1/2"	0.6946	650	1222	911	34	10.00	914	2M	1.56				

9 5/8 casing inside the 13 3/8										Design Factors		INTERMEDIATE	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight					
"A"	36.00	J 55	LTC	3.91	1.24	0.74	3,220	115,920					
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,059							Totals:	3,220					
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		1080	overlap.					
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
12 1/4"	0.3132	look	0	1096		9.70	2671	3M	0.81				
Setting Depths for D V Tool(s):				1300	sum of sx		Σ CuFt	Σ%excess					
% excess cmt by stage:				13	28		730	1314	20				

Burst Frac Gradient(s) for Segment(s): A, B, C, D =
1.09, b, c, d All > 0.70, OK.

7 casing inside the 9 5/8										Design Factors		PRODUCTION	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight					
"A"	26.00	HCP 110	LTC	2.84	1.75	2.1	8,837	229,762					
"B"	26.00	HCP 110	LTC	4.55	1.48	2.1	563	14,638					
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,944							Totals:	9,400					
B Segment Design Factors would be:				47.34	1.65	if it were a vertical wellbore.		MEOC					
No Pilot Hole Planned				MTD 9400	Max VTD 9410	Csg VD 8837	Curve KOP 68	Dogleg° 12	Severity° 9400				
The cement volume(s) are intended to achieve a top of				1295	ft from surface or a		1925	overlap.					
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
8 3/4"	0.1503	910	1553	1260	23	9.70	4285	5M	0.55				
Capitan Reef est top XXXX.													

Tail cmt										Design Factors		LINER	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight					
"A"	13.50	P 110	LTC	2.66	1.52	1.95	745	10,058					
"B"	13.50	P 110	LTC	2.89	1.68	1.95	10,385	140,198					
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,944							Totals:	11,130					
A Segment Design Factors would be:				1.75	1.68	if it were a vertical wellbore.		MEOC					
No Pilot Hole Planned				MTD 19967	Max VTD 9410	Csg VD 9410	Curve KOP 8837	Dogleg° 89	Severity° 12	9,582			
The cement volume(s) are intended to achieve a top of				8837	ft from surface or a		563	overlap.					
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
6 1/8"	0.0942	445	1322	1058	25	13.00			0.56				
Class 'H' tail cmt yld > 1.20													

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	EOG RESOURCES, INC.
LEASE NO.:	NMNM0556290
WELL NAME & NO.:	PERAZZI 9/10 WOMP FED 1H
SURFACE HOLE FOOTAGE:	750'/S & 210'/W
BOTTOM HOLE FOOTAGE	440'/S & 100'/E
LOCATION:	Section 08, T.20 S., R.29 E., NMPM
COUNTY:	EDDY County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input 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 type="radio"/> Medium	<input checked="" 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 checked="" type="checkbox"/> 4 String Area	<input checked="" 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 type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **East Burton Pool** from an undesignated formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **20** inch surface casing shall be set at approximately **375** 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 **13 3/8** inch first intermediate casing shall be set at approximately **1080** feet and the minimum required fill of cement behind the **13-3/8** inch first 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 High 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.
 - ❖ In Capitan Reef 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.
 - ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
3. The **9 5/8** inch second intermediate casing shall be set at approximately **3220** feet and the minimum required fill of cement behind the **9-5/8** inch second intermediate casing is:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top. 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.

4. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** above into previous casing string. Operator shall provide method of verification.
5. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

JJP10082019

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
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, 2) until cement has been in place at least 24 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-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.