<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101 August 1, 2011

Permit 364945

	APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD	A ZONE
Operator Name and Address		2. OGRID Numb

Operator Name and Address		2. OGRID Number
MEWBOURNE OIL CO	14744	
P.O. Box 5270		3. API Number
Hobbs, NM 88241		30-015-55110
4. Property Code	5. Property Name	6. Well No.
335936	YARDBIRDS 34 27 FEE	713H

7 Surface Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	K	34	23S	28E	K	2200	S	1820	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	27	23S	28E	С	330	N	1700	W	Eddv

9. Pool Information

98220 PURPLE SAGE; WOLFCAMP (GAS)

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		Private	3044
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	17238	Wolfcamp		6/3/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			opecca caeg .			
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	1200	860	0
Int1	12.25	9.625	36	2510	530	0
Prod	8.75	7	26	8943	840	2310
Liner1	6.125	4.5	13.5	17238	540	8743

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equiptment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	SCHAFFER
Double Ram	5000	5000	SCHAFFER
Annular	5000	2500	SHCAFFER

knowledge and b I further certify I X, if applicable.	pelief.	s true and complete to the best of my NMAC 🗵 and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	DN DIVISION
Signature:					
Printed Name:	Electronically filed by Monty Whe	etstone	Approved By:	Dean McClure	
Title: Vice President Operations			Title:	Petroleum Specialist - A	
Email Address: fking@mewbourne.com			Approved Date:	6/4/2024	Expiration Date: 6/4/2026
Date: 5/6/2024 Phone: 903-561-2900			Conditions of Appr	roval Attached	_

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

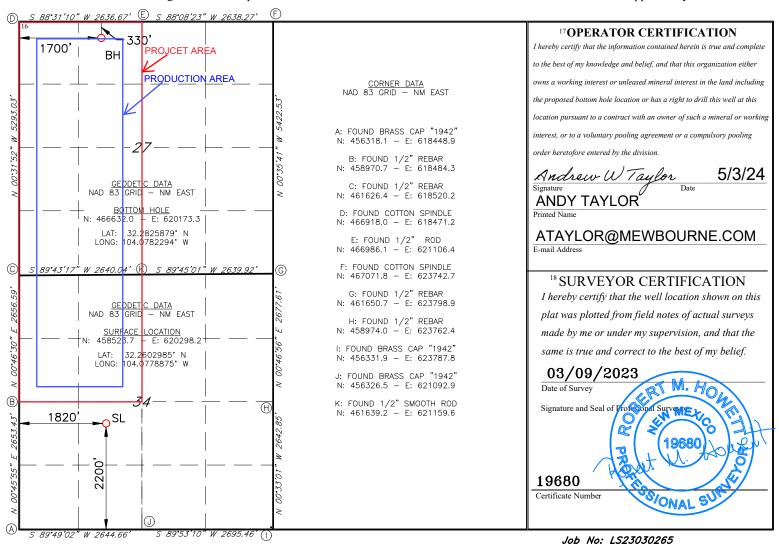
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 2 Pool Code 3 Pool Name 98220 PURPLE SAGE; WOLFCAMP							
⁴ Property Code 335936		YARDBIRDS 34/27 FEE 6Well Number 713H					
70GRID NO. 14744	1	**Operator Name MEWBOURNE OIL COMPANY					

¹⁰ Surface Location

						Dui iuce .	Location			
UL	or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
	K	34	23S	28E		2200	SOUTH	1820	WEST	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
	C	27	23S	28E		330	NORTH	1700	WEST	EDDY

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.



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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**

Form APD Conditions

Permit 364945

PERMIT CONDITIONS OF APPROVAL

		API Number:
ı	MEWBOURNE OIL CO [14744]	30-015-55110
F	P.O. Box 5270	Well:
H	Hobbs, NM 88241	YARDBIRDS 34 27 FEE #713H
OCD	Condition	
Reviewer		

OCD Reviewer	Condition
dmcclure	Notify OCD 24 hours prior to casing & cement
dmcclure	Will require a File As Drilled C-102 and a Directional Survey with the C-104
dmcclure	Will require a administrative order for non-standard location prior to placing the well on production
dmcclure	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
dmcclure	Cement is required to circulate on both surface and intermediate1 strings of casing
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
dmcclure	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
dmcclure	If cement does not circulate on any string, a CBL is required for that string of casing



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

- 1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
- 2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
- 3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
- 4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
- 5. The rig will then walk to the next well.
- 6. Confirm that the well is static and remove the capping flange.
- 7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
- 8. Install a test plug into the wellhead.
- 9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
- 10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
- 11. The annular, blind rams and lower pipe rams will then be function tested.
- 12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- · Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- · Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.



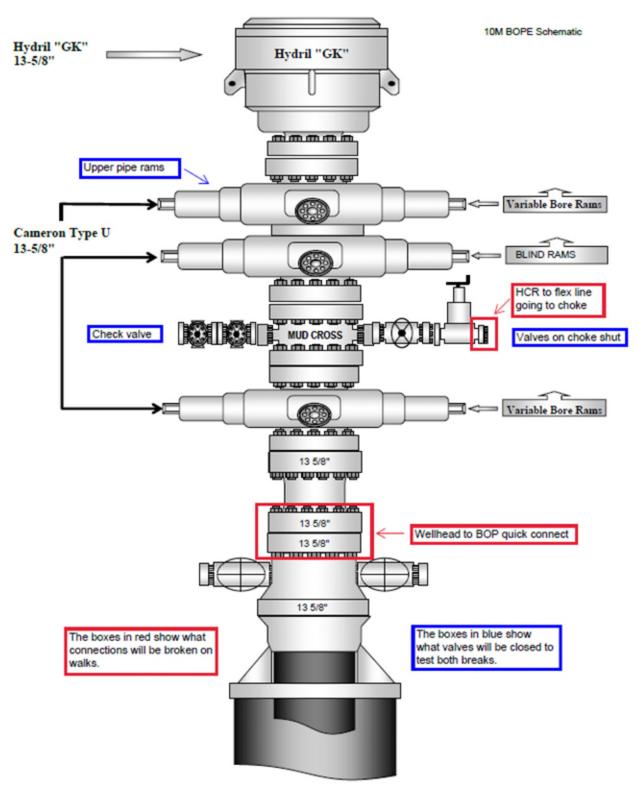


Figure 1. BOP diagram



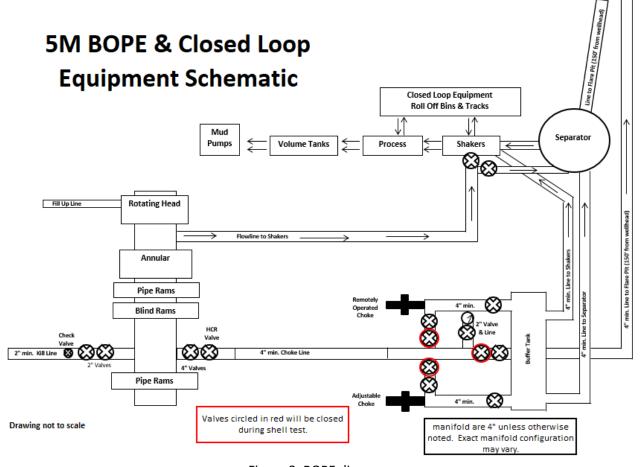


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



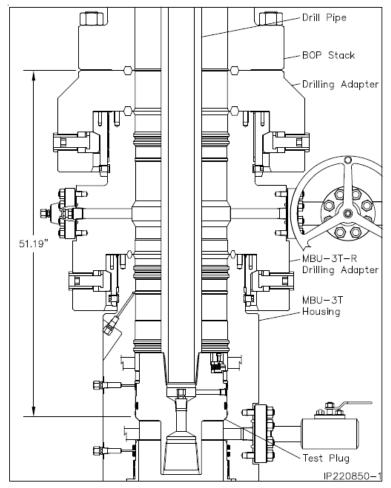


Figure 5. Cactus 5M wellhead with BOP quick connect

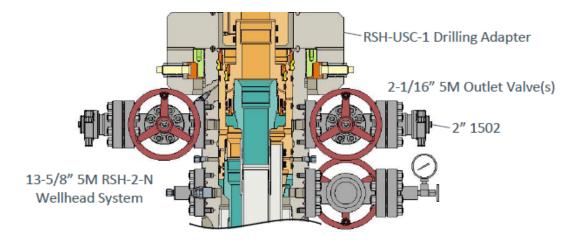


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

- 1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
- Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static.
- 4. Make up 13 %" wellhead or wellhead landing ring assembly and land on 20" conductor.
- 5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint.
- 8. Walk rig to next well on pad with cement crew standing by to rig up.
- 9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
- 10. Make up cement head on top of offline cement tool with forklift.
- 11. Commence cement operations.
- 12. If cement circulates, confirm well is static and proceed to step 16.
- 13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 15. Confirm well is static.
- 16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
- 17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus



After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

- 1. Run 20" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 4. Confirm well is static.
- 5. Back out landing joint and pull to rig floor. Lay down landing joint.
- 6. Make up cement head.
- 7. Walk rig to next well on pad with cement crew standing by to rig up.
- 8. Commence cement operations.
- 9. If cement circulates, confirm well is static and proceed to step 13.
- 10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 12. Confirm well is static.
- 13. Once cement job is complete, remove cement head and install cap.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

- 1. Run casing as per normal operations (float shoe and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static (if running SBM).
- 4. Land casing.
- 5. Fill pipe, circulate casing capacity and confirm floats are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
- 8. Nipple down BOP.
- 9. Walk rig to next well on pad with cement crew standing by to rig up.
- 10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 8).
- 11. Make up cement head on top of offline cement tool.
- 12. Commence cement operations.
- 13. If cement circulates, confirm well is static and proceed to step 16.
- 14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 15. Pump remedial cement job if required.
- 16. Confirm well is static.
- 17. Remove cement head and offline cementing tool.
- 18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing



Risks:

- Pressure build up in annulus before cementing
 - o Contact BLM if a well control event occurs.
 - o Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

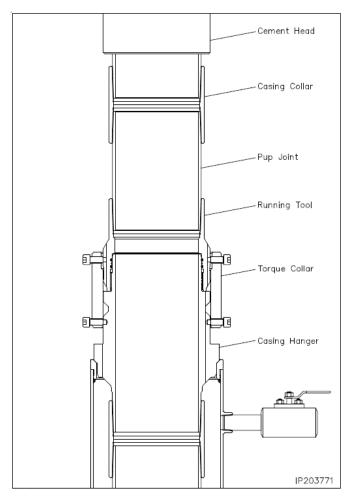


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



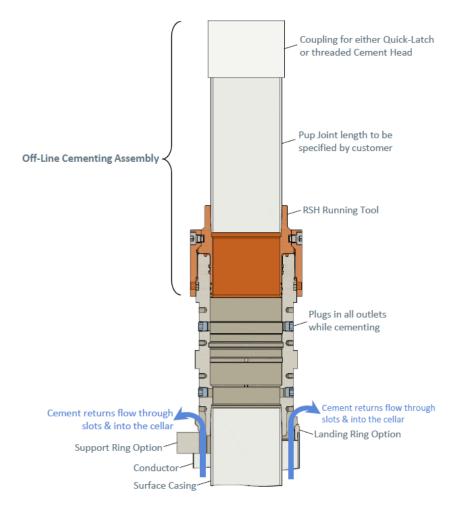


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



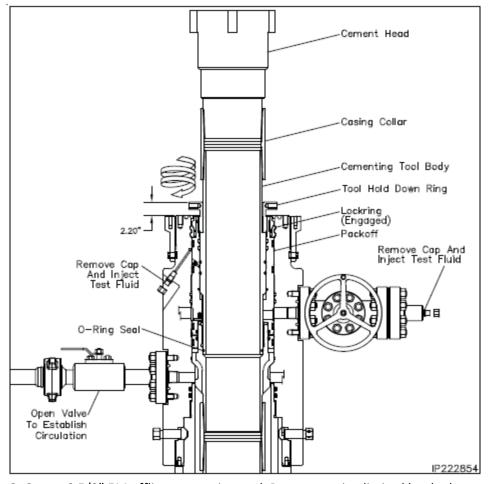


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



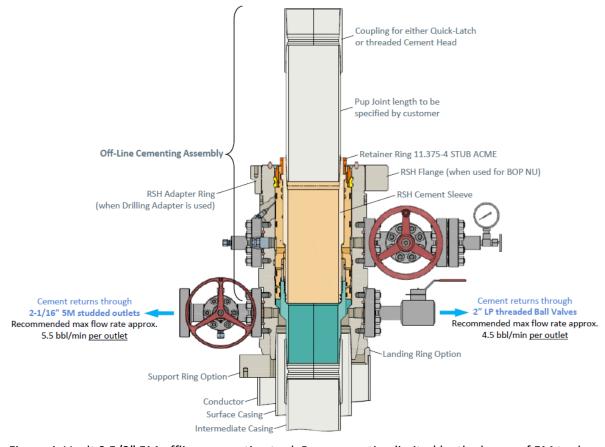


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



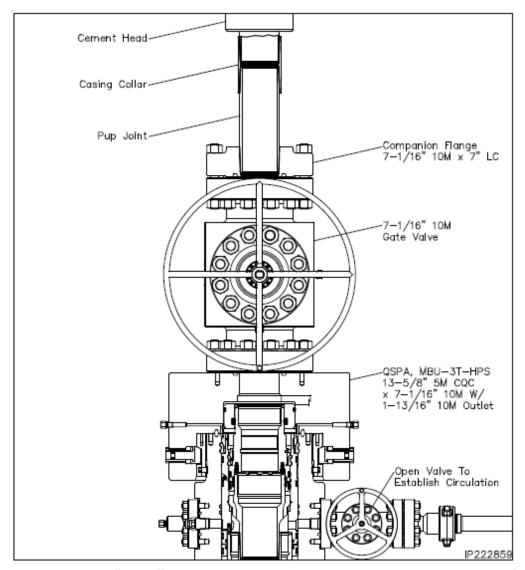


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



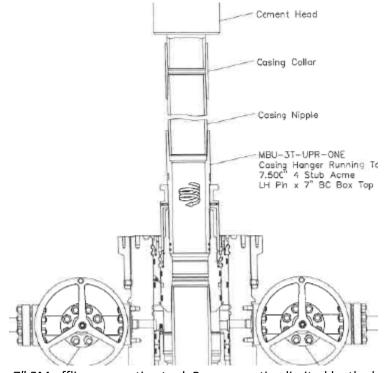


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



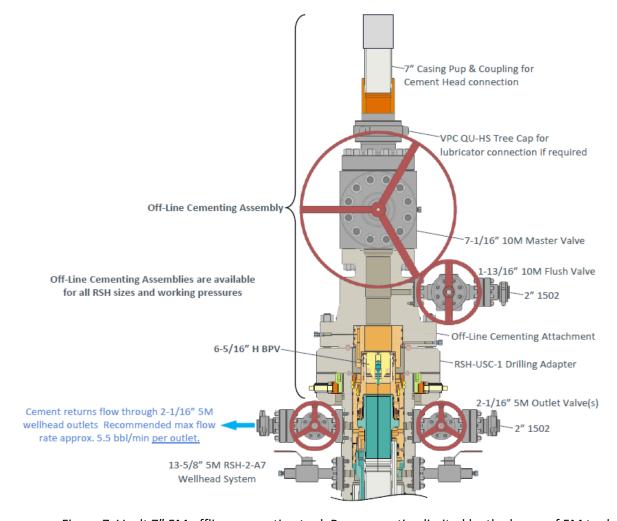
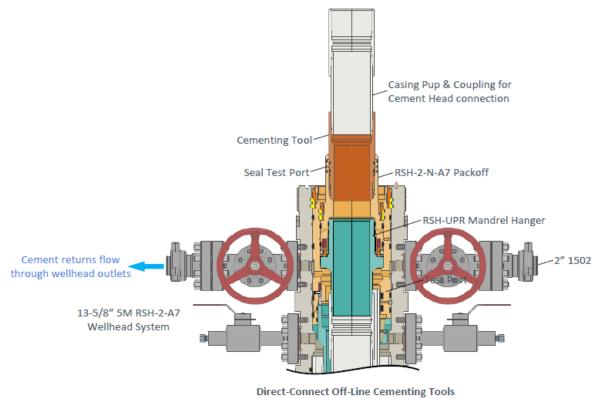


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.





for production casing are available for all RSH Systems

Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



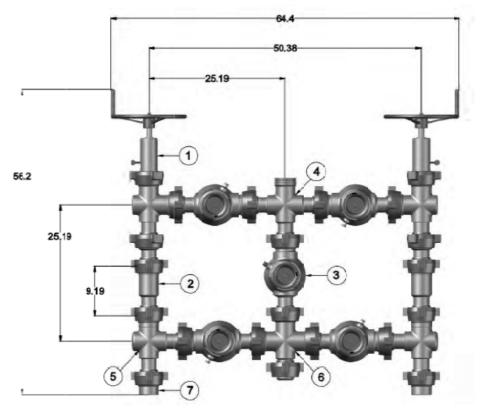


Figure 9. Five valve 15k choke manifold.

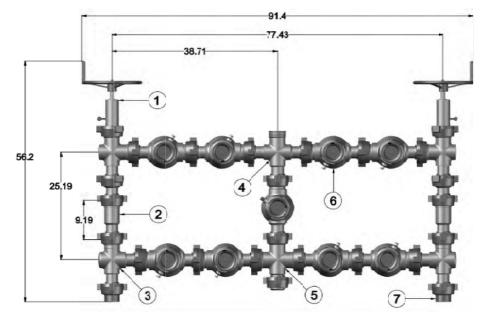


Figure 10. Nine valve 15k choke manifold.

Mewbourne Oil Company, Yardbirds 34/27 Fee713H Sec 34, T23S, R28E

SHL: 2200' FSL & 1820' FWL (Sec 34) BHL: 330' FNL & 1700' FWL (Sec 27)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Yardbirds 34/27 Fee	713H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
K	34	23S	28E	-	2405'	FSL	1700'	FWL	Eddy
		Latitude				Long	itude		NAD
32.2608629					-104.078264	15			83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	23S	28E	-	2333'	#REF!	1700'	FWL	Eddy
		Latitude				Long	itude		NAD
32.262438					-104.078261	19			83

Last Take Point (LTP)

API#

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	27	23S	28E	-	330'	FNL	1700'	FWL	Eddy
		Latitude					NAD		
32.2825879					-104.078229	94			83

Is this well an infill well?	N	

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

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

Operator Name:	Property Name:	Well
		Number

			Yardbirds 34	/27 Fee 713H					
		•							
SHL: 2200' FSL & 1820' FWL (Sec 34) BHL: 330' FNL & 1700' FWL (Sec 27)									
Casing Type	Fluid Type	Hole Size	Casing Descripion	Top MD	Setting Depth	Sacks Cement	Top of Cement		
Surface	Fresh Water	17.5"	13.375" 48# H40 STC	48.0 lb/ft	0'	1200'	860	0'	
Intermediate	Brine	12.25"	9.625" 36# J55 LTC	36.0 lb/ft	0'	2510'	530	0'	
Production	OBM	8.75"	7" 26# P110 LTC	26.0 lb/ft	0'	8943'	840	2310'	
Liner	OBM	6.125"	4.5" 13.5# P110 LTC	13.5 lb/ft	8743'	17238'	540	8743'	

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Yardbirds 34/27 Fee #713H

Sec 34, T23S, R28E

SHL: 2200' FSL & 1820' FWL (Sec 34) BHL: 330' FNL & 1700' FWL (Sec 27)

Plan: Design #1

Standard Planning Report

09 August, 2023

Hobbs Database:

Company: Mewbourne Oil Company Project: Eddy County, New Mexico NAD 83

Site: Yardbirds 34/27 Fee #713H Well: Sec 34, T23S, R28E

Wellbore:

BHL: 330' FNL & 1700' FWL (Sec 27) Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Yardbirds 34/27 Fee #713H

WELL @ 3072.0usft (Original Well Elev) WELL @ 3072.0usft (Original Well Elev)

Minimum Curvature

Project Eddy County, New Mexico NAD 83

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone:

System Datum:

Ground Level

Yardbirds 34/27 Fee #713H Site

Northing: 458,523.70 usft Site Position: 32.2602985 Latitude: From: Мар Easting: 620,298.20 usft Longitude: -104.0778876

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

Well Sec 34, T23S, R28E

Well Position +N/-S 0.0 usft 458,523.70 usft Latitude: 32.2602985 Northing: +E/-W 0.0 usft Easting: 620,298.20 usft Longitude: -104.0778876

Position Uncertainty 0.0 usft Wellhead Elevation: 3,072.0 usft Ground Level: 3,044.0 usft

0.14° **Grid Convergence:**

Wellbore BHL: 330' FNL & 1700' FWL (Sec 27)

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 48,206.87484122 7.38 IGRF2010 12/31/2014 60.05

Design #1 Design

Audit Notes:

PROTOTYPE Tie On Depth: 0.0 Version: Phase:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 359.12

Plan Survey Tool Program Date 8/9/2023

Depth From Depth To

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

0.0 Design #1 (BHL: 330' FNL & 1700 0.0

Plan Sections Dogleg Measured Vertical Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) Target 0.00 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00

Database: Hobbs
Company: Mewbour

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Yardbirds 34/27 Fee #713H
Well: Sec 34, T23S, R28E

Wellbore: BHL: 330' FNL & 1700' FWL (Sec 27)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Yardbirds 34/27 Fee #713H

WELL @ 3072.0usft (Original Well Elev) WELL @ 3072.0usft (Original Well Elev)

Grid

lanned	Survey									
1	Measured			Vertical			Vertical	Dogleg	Build	Turn
	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	, ,			` ′	, ,	• •	` ′	·		
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
		SL & 1820' FWL		400.0					2.22	2.22
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	1 000 0	0.00	0.00	1 000 0	0.0	0.0	0.0	0.00	0.00	0.00
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,300.0	1.00	330.30	1,300.0	0.4	-0.2	0.4	2.00	2.00	0.00
	1,338.2	1.76	330.30	1,338.2	1.2	-0.7	1.2	2.00	2.00	0.00
	1,400.0	1.76	330.30	1,400.0	2.8	-1.6	2.9	0.00	0.00	0.00
	1,500.0	1.76	330.30	1,499.9	5.5	-3.1	5.6	0.00	0.00	0.00
	1,600.0	1.76	330.30	1,599.9	8.2	-4.7	8.2	0.00	0.00	0.00
	1,700.0	1.76	330.30	1,699.8	10.9	-6.2	10.9	0.00	0.00	0.00
	1,800.0	1.76	330.30	1,799.8	13.5	-7.7	13.6	0.00	0.00	0.00
	1,900.0	1.76	330.30	1,899.7	16.2	-9.2	16.3	0.00	0.00	0.00
	2,000.0	1.76	330.30	1,999.7	18.9	-10.8	19.0	0.00	0.00	0.00
	2,100.0	1.76	330.30	2,099.6	21.5	-12.3	21.7	0.00	0.00	0.00
	2,200.0	1.76	330.30	2,199.6	24.2	-13.8	24.4	0.00	0.00	0.00
	2,300.0	1.76	330.30	2,299.5	26.9	-15.3	27.1	0.00	0.00	0.00
	2,400.0	1.76	330.30	2,399.5	29.6	-16.9	29.8	0.00	0.00	0.00
	2,500.0	1.76	330.30	2,499.4	32.2	-18.4	32.5	0.00	0.00	0.00
	2,600.0	1.76	330.30	2,599.4	34.9	-19.9	35.2	0.00	0.00	0.00
	2,700.0	1.76	330.30	2,699.3	37.6	-21.4	37.9	0.00	0.00	0.00
	2,800.0	1.76	330.30	2,799.3	40.3	-23.0	40.6	0.00	0.00	0.00
	2,900.0	1.76	330.30	2,899.2	42.9	-24.5	43.3	0.00	0.00	0.00
	3,000.0	1.76	330.30	2,999.2	45.6	-26.0	46.0	0.00	0.00	0.00
	3,100.0	1.76	330.30	3,099.2	48.3	-27.5	48.7	0.00	0.00	0.00
	3,200.0	1.76	330.30	3,199.1	51.0	-29.1	51.4	0.00	0.00	0.00
	3,300.0	1.76	330.30	3,299.1	53.6	-30.6	54.1	0.00	0.00	0.00
	3,400.0	1.76	330.30	3,399.0	56.3	-32.1	56.8	0.00	0.00	0.00
	3,500.0	1.76	330.30	3,499.0	59.0	-33.6	59.5	0.00	0.00	0.00
	3,600.0	1.76	330.30	3,598.9	61.7	-35.2	62.2	0.00	0.00	0.00
	3,700.0	1.76	330.30	3,698.9	64.3	-36.7	64.9	0.00	0.00	0.00
	3,800.0	1.76	330.30	3,798.8	67.0	-38.2	67.6	0.00	0.00	0.00
	3,900.0	1.76	330.30	3,898.8	69.7	-39.7	70.3	0.00	0.00	0.00
	4,000.0	1.76	330.30	3,998.7	72.3	-41.3	73.0	0.00	0.00	0.00
	4,100.0	1.76	330.30	4,098.7	75.0	-42.8	75.7	0.00	0.00	0.00
	4,200.0	1.76	330.30	4,198.6	77.7	-44.3	78.4	0.00	0.00	0.00
	4,300.0	1.76	330.30	4,298.6	80.4	-45.8	81.1	0.00	0.00	0.00
	4,400.0	1.76	330.30	4,398.5	83.0	-47.4	83.8	0.00	0.00	0.00
	4,500.0	1.76	330.30	4,498.5	85.7	-48.9	86.5	0.00	0.00	0.00
	4,600.0	1.76	330.30	4,598.4	88.4	-50.4	89.2	0.00	0.00	0.00
	4,700.0	1.76	330.30	4,698.4	91.1	-51.9	91.9	0.00	0.00	0.00
	4,800.0	1.76	330.30	4,798.3	93.7	-53.5	94.6	0.00	0.00	0.00
	4,900.0	1.76	330.30	4,898.3	96.4	-55.0	97.2	0.00	0.00	0.00
	5,000.0	1.76	330.30	4,998.3	99.1	-56.5	99.9	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Yardbirds 34/27 Fee #713H
Well: Sec 34, T23S, R28E

Wellbore: BHL: 330' FNL & 1700' FWL (Sec 27)

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Site Yardbirds 34/27 Fee #713H WELL @ 3072.0usft (Original Well Elev) WELL @ 3072.0usft (Original Well Elev)

esign:	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 5,200.0	1.76 1.76	330.30 330.30	5,098.2 5,198.2	101.8 104.4	-58.0 -59.6	102.6 105.3	0.00 0.00	0.00 0.00	0.00 0.00
5,300.0	1.76	330.30	5,298.1	107.1	-61.1	108.0	0.00	0.00	0.00
5,400.0	1.76	330.30	5,398.1	109.8	-62.6	110.7	0.00	0.00	0.00
5,500.0	1.76	330.30	5,498.0	112.5	-64.2	113.4	0.00	0.00	0.00
5,600.0	1.76	330.30	5,598.0	115.1	-65.7	116.1	0.00	0.00	0.00
5,700.0	1.76	330.30	5,697.9	117.8	- 67.2	118.8	0.00	0.00	0.00
5,800.0	1.76	330.30	5,797.9	120.5	-68.7	121.5	0.00	0.00	0.00
5,900.0	1.76	330.30	5,897.8	123.2	-70.3	124.2	0.00	0.00	0.00
6,000.0	1.76	330.30	5,997.8	125.8	-71.8	126.9	0.00	0.00	0.00
6,100.0	1.76	330.30	6,097.7	128.5	-73.3	129.6	0.00	0.00	0.00
6,200.0	1.76	330.30	6,197.7	131.2	-74.8	132.3	0.00	0.00	0.00
6,300.0	1.76	330.30	6,297.6	133.8	-76.4	135.0	0.00	0.00	0.00
6,400.0	1.76	330.30	6,397.6	136.5	-77.9	137.7	0.00	0.00	0.00
6,500.0	1.76	330.30	6,497.5	139.2	-79.4	140.4	0.00	0.00	0.00
6,600.0	1.76	330.30	6,597.5	141.9	-80.9	143.1	0.00	0.00	0.00
6,700.0	1.76	330.30	6,697.4	144.5	-82.5	145.8	0.00	0.00	0.00
6,800.0	1.76	330.30	6,797.4	147.2	-84.0	148.5	0.00	0.00	0.00
6,900.0	1.76	330.30	6,897.4	149.9	-85.5	151.2	0.00	0.00	0.00
7,000.0	1.76	330.30	6,997.3	152.6	-87.0	153.9	0.00	0.00	0.00
7,100.0	1.76	330.30	7,097.3	155.2	-88.6	156.6	0.00	0.00	0.00
7,200.0	1.76	330.30	7,197.2	157.9	-90.1	159.3	0.00	0.00	0.00
7,300.0	1.76	330.30	7,297.2	160.6	-91.6	162.0	0.00	0.00	0.00
7,400.0	1.76	330.30	7,397.1	163.3	-93.1	164.7	0.00	0.00	0.00
7,500.0	1.76	330.30	7,497.1	165.9	-94.7	167.4	0.00	0.00	0.00
7,600.0	1.76	330.30	7,597.0	168.6	-96.2	170.1	0.00	0.00	0.00
7,700.0	1.76	330.30	7,697.0	171.3	-97.7	172.8	0.00	0.00	0.00
7,800.0	1.76	330.30	7,796.9	174.0	-99.2	175.5	0.00	0.00	0.00
7,900.0	1.76	330.30	7,896.9	176.6	-100.8	178.2	0.00	0.00	0.00
8,000.0	1.76	330.30	7,996.8	179.3	-102.3	180.9	0.00	0.00	0.00
8,100.0	1.76	330.30	8,096.8	182.0	-103.8	183.5	0.00	0.00	0.00
8,200.0	1.76	330.30	8,196.7	184.6	-105.3	186.2	0.00	0.00	0.00
8,300.0	1.76	330.30	8,296.7	187.3	-106.9	188.9	0.00	0.00	0.00
8,400.0	1.76	330.30	8,396.6	190.0	-108.4	191.6	0.00	0.00	0.00
8,500.0	1.76	330.30	8,496.6	192.7	-109.9	194.3	0.00	0.00	0.00
8,600.0	1.76	330.30	8,596.5	195.3	-111.4	197.0	0.00	0.00	0.00
8,700.0	1.76	330.30	8,696.5	198.0	-113.0	199.7	0.00	0.00	0.00
8,800.0	1.76	330.30	8,796.4	200.7	-114.5	202.4	0.00	0.00	0.00
8,900.0	1.76	330.30	8,896.4	203.4	-116.0	205.1	0.00	0.00	0.00
8,919.4	1.76	330.30	8,915.8	203.9	-116.3	205.6	0.00	0.00	0.00
9,007.6	0.00	0.00	9,004.0	205.1	-117.0	206.8	2.00	-2.00	0.00
	SL & 1700' FWL								
9,050.0	4.24	359.94	9,046.3	206.6	-117.0	208.4	10.00	10.00	0.00
9,100.0	9.24	359.94	9,096.0	212.5	-117.0	214.3	10.00	10.00	0.00
9,150.0	14.24	359.94	9,144.9	222.7	-117.0	224.4	10.00	10.00	0.00
9,200.0	19.24	359.94	9,192.8	237.1	-117.0	238.8	10.00	10.00	0.00
9,250.0	24.24	359.94	9,239.2	255.6	-117.0	257.3	10.00	10.00	0.00
9,300.0	29.24	359.94	9,283.9	278.1	-117.1	279.8	10.00	10.00	0.00
9,350.0	34.24	359.94	9,326.4	304.3	-117.1	306.1	10.00	10.00	0.00
9,400.0	39.23	359.94	9,366.4	334.2	-117.1	336.0	10.00	10.00	0.00
9,450.0	44.23	359.94	9,403.7	367.5	-117.1	369.3	10.00	10.00	0.00
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9,500.0	49.23	359.94	9,438.0	403.9	-117.2	405.7	10.00	10.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Yardbirds 34/27 Fee #713H
Well: Sec 34, T23S, R28E

Wellbore: BHL: 330' FNL & 1700' FWL (Sec 27)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Yardbirds 34/27 Fee #713H

WELL @ 3072.0usft (Original Well Elev) WELL @ 3072.0usft (Original Well Elev)

Grid

esign:	Design #1								
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	59.23	359.94	9,496.4	484.9	-117.3	486.7	10.00	10.00	0.00
9,650.0	64.23	359.94	9,520.0	529.0	-117.3	530.7	10.00	10.00	0.00
9,700.0	69.23	359.94	9,539.8	574.9	-117.3	576.6	10.00	10.00	0.00
9,750.0	74.23	359.94	9,555.4	622.4	-117.4	624.1	10.00	10.00	0.00
9,800.0	79.23	359.94	9,566.9	671.0	-117.4	672.7	10.00	10.00	0.00
9,850.0	84.23	359.94	9,574.1	720.5	-117.5	722.2	10.00	10.00	0.00
9,900.0	89.23	359.94	9,577.0	770.4	-117.5	772.1	10.00	10.00	0.00
9,906.1	89.84	359.94	9,577.0	776.5	-117.6	778.2	10.00	10.00	0.00
9,907.7	89.84	359.94	9,577.0	778.1	-117.6	779.8	0.00	0.00	0.00
·			9,511.0	770.1	-117.0	779.0	0.00	0.00	0.00
10,000.0	3' FNL & 1700' F 89.84	359.94	9,577.3	870.4	-117.6	872.1	0.00	0.00	0.00
,									
10,100.0	89.84	359.94	9,577.5	970.4	-117.7	972.1	0.00	0.00	0.00
10,200.0	89.84	359.94	9,577.8	1,070.4	-117.8	1,072.1	0.00	0.00	0.00
10,300.0	89.84	359.94	9,578.1	1,170.4	-117.9	1,172.0	0.00	0.00	0.00
10,400.0	89.84	359.94	9,578.3	1,270.4	-118.0	1,272.0	0.00	0.00	0.00
10,500.0	89.84	359.94	9,578.6	1,370.4	-118.1	1,372.0	0.00	0.00	0.00
10,600.0	89.84	359.94	9,578.9	1,470.4	-118.2	1,472.0	0.00	0.00	0.00
10,700.0	89.84	359.94	9,579.2	1,570.4	-118.3	1,572.0	0.00	0.00	0.00
10,800.0	89.84	359.94	9,579.4	1,670.4	-118.4	1,672.0	0.00	0.00	0.00
10,900.0	89.84	359.94	9,579.7	1,770.4	-118.5	1,772.0	0.00	0.00	0.00
11,000.0	89.84	359.94	9,580.0	1,870.4	-118.6	1,872.0	0.00	0.00	0.00
11,100.0	89.84	359.94	9,580.3	1,970.4	-118.7	1,972.0	0.00	0.00	0.00
11,200.0	89.84	359.94	9,580.5	2,070.4	-118.8	2,072.0	0.00	0.00	0.00
11,300.0	89.84	359.94	9,580.8	2,170.4	-118.9	2,171.9	0.00	0.00	0.00
11,400.0	89.84	359.94	9,581.1	2,270.4	-119.0	2,271.9	0.00	0.00	0.00
11,500.0	89.84	359.94	9,581.3	2,370.4	-119.1	2,371.9	0.00	0.00	0.00
11,600.0	89.84	359.94	9,581.6	2,470.4	-119.2	2,471.9	0.00	0.00	0.00
11,700.0	89.84	359.94	9,581.9	2,570.4	-119.3	2,571.9	0.00	0.00	0.00
11,800.0	89.84	359.94	9,582.2	2,670.4	-119.4	2,671.9	0.00	0.00	0.00
11,900.0	89.84	359.94	9,582.4	2,770.4	-119.5	2,771.9	0.00	0.00	0.00
12,000.0	89.84	359.94	9,582.7	2,870.4	-119.5	2,771.9	0.00	0.00	0.00
12,000.0	09.04	309.94	9,56∠.1	2,010.4	-119.0	۷,011.9	0.00	0.00	0.00
12,100.0	89.84	359.94	9,583.0	2,970.4	-119.7	2,971.9	0.00	0.00	0.00
12,200.0	89.84	359.94	9,583.3	3,070.4	-119.8	3,071.8	0.00	0.00	0.00
12,300.0	89.84	359.94	9,583.5	3,170.4	-119.9	3,171.8	0.00	0.00	0.00
12,400.0	89.84	359.94	9,583.8	3,270.4	-120.1	3,271.8	0.00	0.00	0.00
12,500.0	89.84	359.94	9,584.1	3,370.4	-120.2	3,371.8	0.00	0.00	0.00
,									
12,600.0	89.84	359.94	9,584.3	3,470.4	-120.3	3,471.8	0.00	0.00	0.00
12,700.0	89.84	359.94	9,584.6	3,570.4	-120.4	3,571.8	0.00	0.00	0.00
12,800.0	89.84	359.94	9,584.9	3,670.4	-120.5	3,671.8	0.00	0.00	0.00
12,900.0	89.84	359.94	9,585.2	3,770.4	-120.6	3,771.8	0.00	0.00	0.00
13,000.0	89.84	359.94	9,585.4	3,870.4	-120.7	3,871.8	0.00	0.00	0.00
13,100.0	89.84	359.94	9,585.7	3,970.4	-120.8	3,971.7	0.00	0.00	0.00
13,200.0	89.84	359.94	9,586.0	4,070.4	-120.9	4,071.7	0.00	0.00	0.00
13,300.0	89.84	359.94	9,586.3	4,170.4	-120.9	4,071.7	0.00	0.00	0.00
13,400.0	89.84	359.94	9,586.5	4,270.4	-121.1 121.2	4,271.7	0.00	0.00	0.00
13,500.0	89.84	359.94	9,586.8	4,370.4	-121.2	4,371.7	0.00	0.00	0.00
13,600.0	89.84	359.94	9,587.1	4,470.4	-121.3	4,471.7	0.00	0.00	0.00
13,700.0	89.84	359.94	9,587.3	4,570.4	-121.4	4,571.7	0.00	0.00	0.00
13,800.0	89.84	359.94	9,587.6	4,670.4	-121.5	4,671.7	0.00	0.00	0.00
13,900.0	89.84	359.94	9,587.9	4,770.4	-121.6	4,771.7	0.00	0.00	0.00
14,000.0	89.84	359.94	9,588.2	4,870.4	-121.7	4,871.7	0.00	0.00	0.00
14,100.0	89.84	359.94	9,588.4	4,970.4	-121.8	4,971.6	0.00	0.00	0.00
14,200.0	89.84	359.94	9,588.7	5,070.4	-121.9	5,071.6	0.00	0.00	0.00
14,300.0	89.84	359.94	9,589.0	5,170.4	-122.0	5,171.6	0.00	0.00	0.00

Hobbs Database:

Company: Mewbourne Oil Company Eddy County, New Mexico NAD 83 Project: Site: Yardbirds 34/27 Fee #713H

Well: Sec 34, T23S, R28E

BHL: 330' FNL & 1700' FWL (Sec 27) Wellbore:

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Yardbirds 34/27 Fee #713H

WELL @ 3072.0usft (Original Well Elev) WELL @ 3072.0usft (Original Well Elev)

Measured Depth Inclination Azimuth Depth HNS Let. Section Section Rate Rate Rate (*1100usft) (*100usft) (*1100usft) (*1100us	ed Survey									
14,500.0 89.84 359.94 9,589.5 5,370.4 -122.2 5,371.6 0.00 0.00 0.00 14,600.0 89.84 359.94 9,589.8 5,470.4 -122.3 5,471.6 0.00 0.00 0.00 14,800.0 89.84 359.94 9,590.1 5,570.4 -122.5 5,671.6 0.00 0.00 0.00 14,900.0 89.84 359.94 9,590.6 5,770.4 -122.6 5,771.6 0.00 0.00 0.00 15,000.0 89.84 359.94 9,590.9 5,870.4 -122.7 5,871.5 0.00 0.00 0.00 15,000.0 89.84 359.94 9,591.4 6,070.4 -122.8 5,971.5 0.00 0.00 0.00 15,200.0 89.84 359.94 9,591.7 6,170.3 -123.0 6,171.5 0.00 0.00 0.00 15,300.0 89.84 359.94 9,591.7 6,170.3 -123.0 6,171.5 0.00 0.00 0.00 <th>Depth</th> <th></th> <th></th> <th>Depth</th> <th></th> <th></th> <th>Section</th> <th>Rate</th> <th>Rate</th> <th>Rate</th>	Depth			Depth			Section	Rate	Rate	Rate
14,700.0 89.84 359.94 9,590.1 5,570.4 -122.4 5,671.6 0.00 0.00 0.00 14,800.0 89.84 359.94 9,590.3 5,670.4 -122.5 5,671.6 0.00 0.00 0.00 14,900.0 89.84 359.94 9,590.9 5,870.4 -122.7 5,871.5 0.00 0.00 0.00 15,000.0 89.84 359.94 9,591.2 5,970.4 -122.8 5,971.5 0.00 0.00 0.00 15,200.0 89.84 359.94 9,591.2 5,970.4 -122.8 5,971.5 0.00 0.00 0.00 15,300.0 89.84 359.94 9,591.7 6,170.3 -123.0 6,171.5 0.00 0.00 0.00 15,400.0 89.84 359.94 9,592.3 6,370.3 -123.1 6,271.5 0.00 0.00 0.00 15,600.0 89.84 359.94 9,592.5 6,470.3 -123.4 6,571.5 0.00 0.00 0.00 <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				,						
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15,100.0 89.84 359.94 9,591.2 5,970.4 -122.8 5,971.5 0.00 0.00 0.00 15,200.0 89.84 359.94 9,591.7 6,170.3 -123.0 6,171.5 0.00 0.00 0.00 15,400.0 89.84 359.94 9,592.0 6,270.3 -123.1 6,271.5 0.00 0.00 0.00 0.00 15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 0.00 15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 0.00 15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 0.00 15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 0.00 15,700.0 89.84 359.94 9,593.1 6,670.3 -123.4 6,571.5 0.00 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.7 6,871.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.7 6,871.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.7 6,871.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.7 123.8 6,971.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,593.9 6,970.3 -123.7 123.9 7,071.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,595.0 7,370.3 -124.0 7,171.4 0.00 0.00 0.00 0.00 16,400.0 89.84 359.94 9,595.5 7,570.3 -124.1 7,271.4 0.00 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.5 7,570.3 -124.2 7,371.4 0.00 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.2 7,371.4 0.00 0.00 0.00 0.00 16,000 0.98 84 359.94 9,595.5 7,570.3 -124.5 7,671.4 0.00 0.00 0.00 0.00 16,000 0.98 84 359.94 9,595.5 7,570.3 -124.6 7,771.3 0.00 0.00 0.00 0.00 16,000 0.98 84 359.94 9,595.5 7,570.3 -124.6 7,771.3 0.00 0.00 0.00 0.00 17,000 0.98 84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 0.00 17,000 0.98 84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 0.00 17,200.0 8										
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15,300.0 89.84 359.94 9,591.7 6,170.3 -123.0 6,171.5 0.00 0.00 0.00 15,400.0 89.84 359.94 9,592.0 6,270.3 -123.1 6,271.5 0.00 0.00 0.00 15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 15,600.0 89.84 359.94 9,592.5 6,470.3 -123.3 6,471.5 0.00 0.00 0.00 15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.4 6,571.5 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 <td>15,100.0</td> <td>89.84</td> <td>359.94</td> <td>9,591.2</td> <td>5,970.4</td> <td>-122.8</td> <td>5,971.5</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	15,100.0	89.84	359.94	9,591.2	5,970.4	-122.8	5,971.5	0.00	0.00	0.00
15,400.0 89.84 359.94 9,592.0 6,270.3 -123.1 6,271.5 0.00 0.00 0.00 15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 15,600.0 89.84 359.94 9,592.5 6,470.3 -123.3 6,471.5 0.00 0.00 0.00 15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.6 6,771.4 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.6 6,870.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,594.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.8 6,971.4 0.00 0.00 0.00 <td>15,200.0</td> <td>89.84</td> <td>359.94</td> <td>9,591.4</td> <td>6,070.4</td> <td>-122.9</td> <td>6,071.5</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	15,200.0	89.84	359.94	9,591.4	6,070.4	-122.9	6,071.5	0.00	0.00	0.00
15,500.0 89.84 359.94 9,592.3 6,370.3 -123.2 6,371.5 0.00 0.00 0.00 15,600.0 89.84 359.94 9,592.5 6,470.3 -123.3 6,471.5 0.00 0.00 0.00 15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.5 6,671.5 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.7 7,270.3 -124.0	15,300.0	89.84	359.94	9,591.7	6,170.3	-123.0	6,171.5	0.00	0.00	0.00
15,600.0 89.84 359.94 9,592.5 6,470.3 -123.3 6,471.5 0.00 0.00 0.00 15,700.0 89.84 359.94 9,593.1 6,670.3 -123.5 6,671.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.5 6,671.5 0.00 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 0.00 16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.8 6,971.4 0.00 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 0.00 16,500.0 89.84 359.94 9,594.7 7,270.3 -124.1 7,271.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.2 7,371.4 0.00 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.4 7,571.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 0.00 16,800.0 89.84 359.94 9,596.1 7,770.3 -124.5 7,671.4 0.00 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.6 7,970.3 -124.5 7,671.4 0.00 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	15,400.0	89.84	359.94	9,592.0	6,270.3	-123.1	6,271.5	0.00	0.00	0.00
15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.5 6,671.5 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.6 6,870.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.8 6,971.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.0 7,171.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.7 7,270.3 -124.0 7,171.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.3	15,500.0	89.84	359.94	9,592.3	6,370.3	-123.2	6,371.5	0.00	0.00	0.00
15,700.0 89.84 359.94 9,592.8 6,570.3 -123.4 6,571.5 0.00 0.00 0.00 15,800.0 89.84 359.94 9,593.1 6,670.3 -123.5 6,671.5 0.00 0.00 0.00 15,900.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,594.7 7,270.3 -124.0 7,171.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.3	15,600.0	89.84	359.94	9,592.5	6,470.3	-123.3	6,471.5	0.00	0.00	0.00
15,900.0 89.84 359.94 9,593.4 6,770.3 -123.6 6,771.4 0.00 0.00 0.00 16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.0 7,171.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.4	15,700.0	89.84		9,592.8	6,570.3	-123.4	6,571.5	0.00	0.00	0.00
16,000.0 89.84 359.94 9,593.6 6,870.3 -123.7 6,871.4 0.00 0.00 0.00 16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.0 7,371.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.3 7,470.3 -124.2 7,371.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.3 7,471.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5	15,800.0	89.84	359.94	9,593.1	6,670.3	-123.5	6,671.5	0.00	0.00	0.00
16,100.0 89.84 359.94 9,593.9 6,970.3 -123.8 6,971.4 0.00 0.00 0.00 16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.1 7,271.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.5 7,570.3 -124.2 7,371.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.3 7,471.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.5	15,900.0	89.84	359.94	9,593.4	6,770.3	-123.6	6,771.4	0.00	0.00	0.00
16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.1 7,271.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.3 7,470.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.3 7,471.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.5 7,671.4 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7	16,000.0	89.84	359.94	9,593.6	6,870.3	-123.7	6,871.4	0.00	0.00	0.00
16,200.0 89.84 359.94 9,594.2 7,070.3 -123.9 7,071.4 0.00 0.00 0.00 16,300.0 89.84 359.94 9,594.4 7,170.3 -124.0 7,171.4 0.00 0.00 0.00 16,400.0 89.84 359.94 9,594.7 7,270.3 -124.1 7,271.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.3 7,470.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.3 7,471.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.4 7,571.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.5 7,671.4 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.1 7,870.3 -124.6	16,100.0	89.84	359.94	9,593.9	6,970.3	-123.8	6,971.4	0.00	0.00	0.00
16,400.0 89.84 359.94 9,594.7 7,270.3 -124.1 7,271.4 0.00 0.00 0.00 16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.3 7,470.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.4 7,571.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.8	16,200.0	89.84		9,594.2	7,070.3	-123.9	7,071.4	0.00	0.00	0.00
16,500.0 89.84 359.94 9,595.0 7,370.3 -124.2 7,371.4 0.00 0.00 0.00 16,600.0 89.84 359.94 9,595.3 7,470.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.4 7,571.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,300.0	89.84	359.94	9,594.4	7,170.3	-124.0	7,171.4	0.00	0.00	0.00
16,600.0 89.84 359.94 9,595.3 7,470.3 -124.3 7,471.4 0.00 0.00 0.00 16,700.0 89.84 359.94 9,595.5 7,570.3 -124.4 7,571.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,400.0	89.84	359.94	9,594.7	7,270.3	-124.1	7,271.4	0.00	0.00	0.00
16,700.0 89.84 359.94 9,595.5 7,570.3 -124.4 7,571.4 0.00 0.00 0.00 16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,500.0	89.84	359.94	9,595.0	7,370.3	-124.2	7,371.4	0.00	0.00	0.00
16,800.0 89.84 359.94 9,595.8 7,670.3 -124.5 7,671.4 0.00 0.00 0.00 16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,600.0	89.84	359.94	9,595.3	7,470.3	-124.3	7,471.4	0.00	0.00	0.00
16,900.0 89.84 359.94 9,596.1 7,770.3 -124.6 7,771.3 0.00 0.00 0.00 17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,700.0	89.84	359.94	9,595.5	7,570.3	-124.4	7,571.4	0.00	0.00	0.00
17,000.0 89.84 359.94 9,596.4 7,870.3 -124.7 7,871.3 0.00 0.00 0.00 17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,800.0	89.84	359.94	9,595.8	7,670.3	-124.5	7,671.4	0.00	0.00	0.00
17,100.0 89.84 359.94 9,596.6 7,970.3 -124.8 7,971.3 0.00 0.00 0.00 17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	16,900.0	89.84	359.94	9,596.1	7,770.3	-124.6	7,771.3	0.00	0.00	0.00
17,200.0 89.84 359.94 9,596.9 8,070.3 -124.9 8,071.3 0.00 0.00 0.00	17,000.0	89.84	359.94	9,596.4	7,870.3	-124.7	7,871.3	0.00	0.00	0.00
	17,100.0	89.84	359.94	9,596.6	7,970.3	-124.8	7,971.3	0.00	0.00	0.00
17,238.0 89.84 359.94 9,597.0 8,108.3 -124.9 8,109.3 0.00 0.00 0.00	17,200.0	89.84	359.94	9,596.9	8,070.3	-124.9	8,071.3	0.00	0.00	0.00
	17,238.0	89.84	359.94	9,597.0	8,108.3	-124.9	8,109.3	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 2200' FSL & 1820' - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	458,523.70	620,298.20	32.2602985	-104.0778876
KOP: 2405' FSL & 1700' - plan hits target cent - Point	0.00 er	0.00	9,004.0	205.1	-117.0	458,728.76	620,181.23	32.2608629	-104.0782645
FTP/LP: 2333' FNL & 17 - plan hits target cent - Point	0.00 er	0.00	9,577.0	778.1	-117.6	459,301.76	620,180.65	32.2624380	-104.0782619
BHL: 330' FNL & 1700' F - plan hits target cent - Point	0.00 er	0.00	9,597.0	8,108.3	-124.9	466,632.00	620,173.30	32.2825879	-104.0782293

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Manag	gement Plan mi	Section	1 – Plan D	<u>escription</u>	Orill (API	D) for a ne	w or recompleted well.
I. Operator: Mev	vbourne (_	ffective May 25.	14744		_ Date:	5/2/22
II. Type: X Original D					(6)(b) NM	AC □ Otl	her.
III. Well(s): Provide the be recompleted from a s					wells pro	posed to be	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Antici Gas M		Anticipated Produced Water BBL/D
YARDBIRDS 34/27 FEE 713H		K 34 23S 28E	2200' FSL x 1820'	FWL 1500	3500	0	4500
IV. Central Delivery P V. Anticipated Schedul proposed to be recomple	le: Provide the	following informa		w or recompleted w	ell or set		15.27.9(D)(1) NMAC] roposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	I	Initial Flo Back Dat	
YARDBIRDS 34/27 FEE 713H		7/2/22	8/2/22	9/2/22		9/17/22	9/17/22
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planner	tices: 🛛 Attac of 19.15.27.8	ch a complete desc NMAC. ☑ Attach a comple	ription of the ac	tions Operator wil	l take to	comply w	ith the requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well		API	Anticipated Average Natural Gas Rate MCF/I	Anticipated Volume of Natural Gas for the First Year MCF
. Natural Gas Gatl	haring System (NI	CC2):		
Naturai Gas Gati	nering System (144	3 0 3).		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

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

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

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

\square Attach Operator's plan to manage production in response to the increased line r	e pressure
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XIV. C	onfidentiality: 🗆	Operator asser	ts confidentiality	pursuant to	Section	71-2-8 N	MSA	1978 f	or the	in formation	provided in
Section	2 as provided in F	aragraph (2) of S	Subsection D of 1	9.15.27.9 NN	MAC, and	d attaches	s a full	descrip	tion of	f the specific	information
for which	ch confidentiality	is asserted and th	ne basis for such	assertion.							

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Section 3 - Certifications Effective May 25, 2021

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

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

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

- reinjection for temporary storage; **(f)**
- reinjection for enhanced oil recovery; **(g)**
- fuel cell production; and (h)
- other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5- 25 1-22/12 2
Phone:	575-393-5905
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Ap	proval:

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

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

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

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