Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

E	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
5. Lease Serial No.	NMNM96203

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

If Indian	Allottee or Tribe Name	

	form for proposals t Use Form 3160-3 (A				,			
SUBMIT IN	TRIPLICATE - Other instr	uctions on pag	e 2		7. If Unit of CA/Agre	eement,	Name and/or No.	
1. Type of Well Oil Well Gas W	Well Other				8. Well Name and No	O. GAM	BINO FEDERAL COM/004H	
2. Name of Operator MEWBOURNE	OIL COMPANY				9. API Well No. 300	155442	26	
3a. Address P O BOX 5270, HOBBS	3b. Phone No.	(include area code	e)	10. Field and Pool or Exploratory Area				
		(575) 393-590	05		PURPLE SAGE/WOLFCAMP			
4. Location of Well (Footage, Sec., T., I SEC 34/T22S/R26E/NMP	R.,M., or Survey Description,				11. Country or Parish EDDY/NM	ı, State		
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INI	DICATE NATURE	E OF NOTI	CE, REPORT OR OT	HER D	ATA	
TYPE OF SUBMISSION			TY	PE OF AC	ΓΙΟΝ			
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair		en raulic Fracturing Construction	Reco	uction (Start/Resume) amation omplete] Water Shut-Off] Well Integrity] Other	
Final Abandonment Notice	Change Plans Convert to Injection	= ~	and Abandon Back	=	porarily Abandon er Disposal			
Mewbourne Oil Company required 1. Change name from Gambir 2. Move BHL f/ 330' FNL & 23 3. Move SHL f/ 2617' FNL & 2 4. Change producing formatio 5. Request a variance to performance attached files: Updated places.	no Federal Com #4H to Pe 95' FWL to 330' FNL & 26 249' FEL to 2627' FNL & 2 n target from Purple Sage orm break testing and offlir lats, dir. plot & plan, drlg p	enny 34/36 Fed 519' FWL 2239' FEL e; Wolfcamp to ne cementing program, cmt &	l Com #521H Cass Draw; Bon	e Spring.		5-5442	6):	
14. I hereby certify that the foregoing is CONNER WHITLEY / Ph: (806) 20		inted/Typed)	ENGINEE Title	ER				
Signature (Electronic Submission	(Electronic Submission) Date 08/19/2024							
	THE SPACE	FOR FEDI	ERAL OR ST	ATE OF	ICE USE			
Approved by CHRISTOPHER WALLS / Ph: (57)	5) 234-2234 / Approved		Petro Title	oleum Eng	jineer	Date	08/20/2024	
Conditions of approval, if any, are attac certify that the applicant holds legal or which would entitle the applicant to cor	equitable title to those rights			RLSBAD				
Title 18 U.S.C Section 1001 and Title 4 any false, fictitious or fraudulent statem				gly and will	fully to make to any d	lepartme	ent or agency of the United States	

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2617 FNL / 2249 FEL / TWSP: 22S / RANGE: 26E / SECTION: 34 / LAT: 32.348848 / LONG: -104.27949 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 348 FNL / 2619 FEL / TWSP: 22S / RANGE: 26E / SECTION: 34 / LAT: 32.3550606 / LONG: -104.2806875 (TVD: 8850 feet, MD: 9413 feet) BHL: NENW / 330 FNL / 2395 FWL / TWSP: 22S / RANGE: 26E / SECTION: 36 / LAT: 32.35496 / LONG: -104.246993 (TVD: 8900 feet, MD: 19667 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:MEWBOURNE OIL COMPANYWELL NAME & NO.:PENNY 34/36 FED COM 521HAPD ID:10400088016LOCATION:Section 34, T.22 S., R.26 E. NMP.COUNTY:Eddy County, New Mexico

Previously known as **GAMBINO FEDERAL COM 004H**. Changes approved through engineering via **Sundry 2807485** on 8/20/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	0	No	• Yes			
Potash /	None	O Secretary	O R-111-Q	☐ Open Annulus		
WIPP				□ WIPP		
Cave / Karst	O Low	O Medium	• High	Critical		
Wellhead	Conventional	Multibowl	O Both	Diverter		
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool		
Special Req	☐ Capitan Reef	☐ Water Disposal	✓ COM	Unit		
Waste Prev.	© Self-Certification	O Waste Min. Plan	• APD Submitted 1	prior to 06/10/2024		
Additional	✓ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing		
Language	\square Four-String	Offline Cementing	☐ Fluid-Filled			

SEE THE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed **at SPUD**. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet title 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING DESIGN

Primary Casing Design

1. The 13-3/8 inch surface casing shall be set at approximately 325 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh

water) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 1,590 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Note: Excess cement is below the BLM's recommendation of 25%. More cement might be needed.

- ❖ 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.
- **3.** Operator has proposed to set **7 inch 26# P-110** production casing at approximately **6,694 ft.** (6,137 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:
 - **Option 1 (Single Stage):** Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - **Option 2 (Two-Stage):** The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.
 - a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

- b. **Second stage above DV tool:** Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Program

- 1. The 13-3/8 inch surface casing shall be set at approximately 325 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 1,590 ft. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Note: Excess cement is below the BLM's recommendation of 25%. More cement might be needed.

❖ 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.

- **3.** Operator has proposed to set **7 inch 26# P-110** production casing at approximately **7,578 ft.** (6,710 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:
 - **Option 1 (Single Stage):** Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

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

Offline Cementing

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

C. PRESSURE CONTROL

- 1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a **multi-bowl wellhead** assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Before drilling out surface casing shoe, the BOP/BOPE and annular preventer shall be tested in accordance with **title 43 CFR 3172** and **API Standard 53**.

- 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 43 CFR 3172 must be followed.

BOPE Break Testing Variance (Approved)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

- or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 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 doghouse or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of

the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 08/20/2024



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 guick 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.



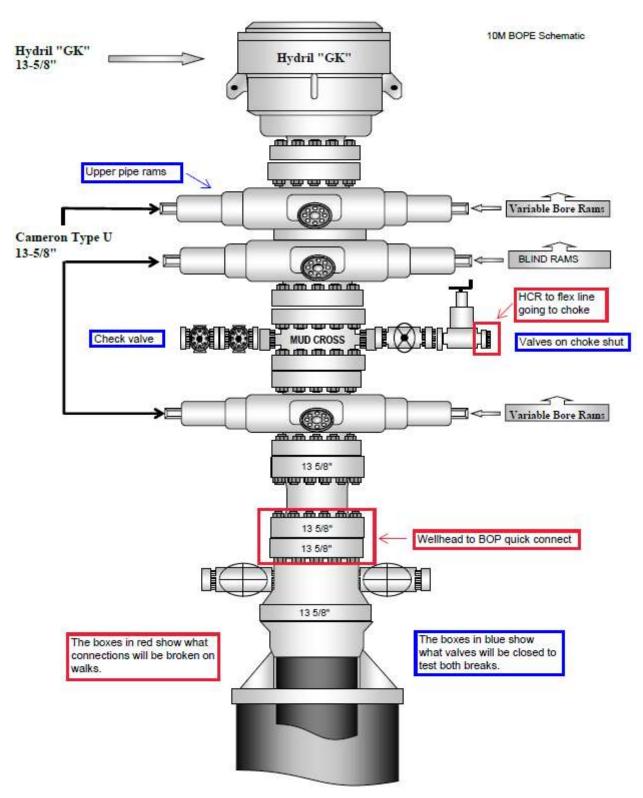


Figure 1. BOP diagram



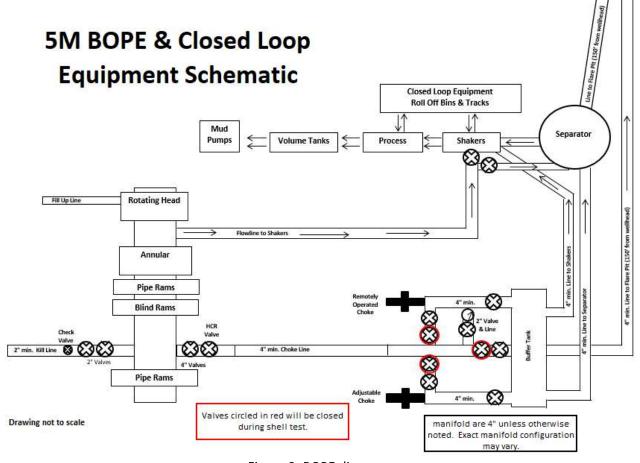


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



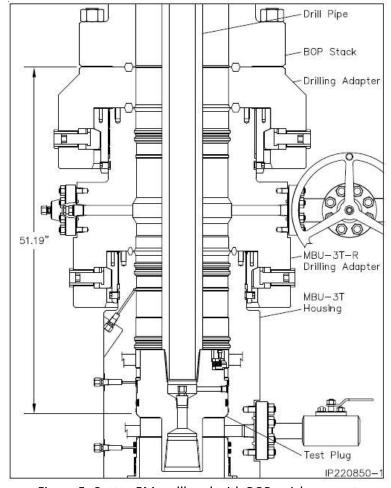


Figure 5. Cactus 5M wellhead with BOP quick connect

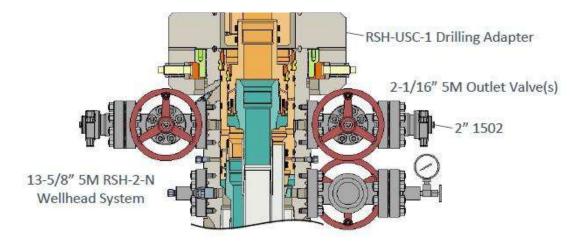


Figure 6. Vault 5M wellhead with BOP quick connect



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).
- 2. 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.

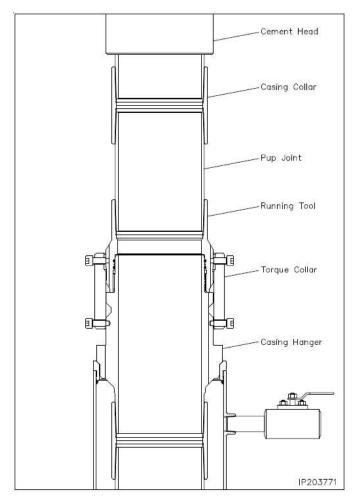


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



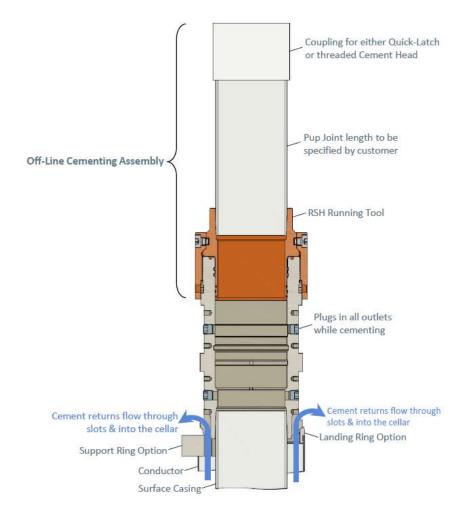


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



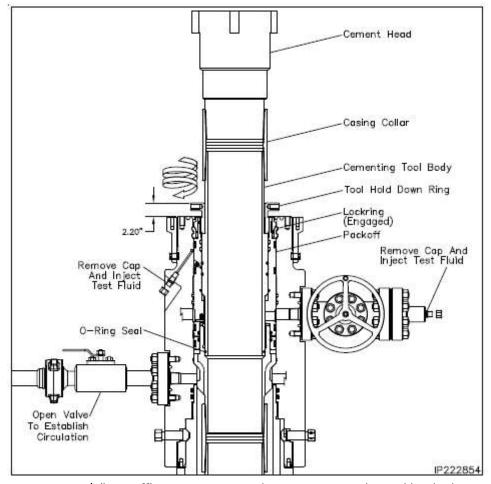


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



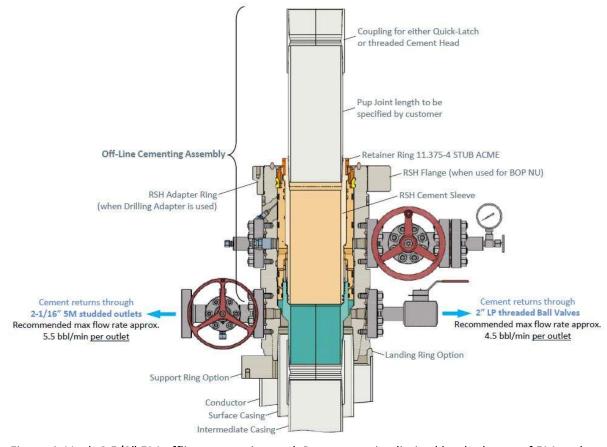


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



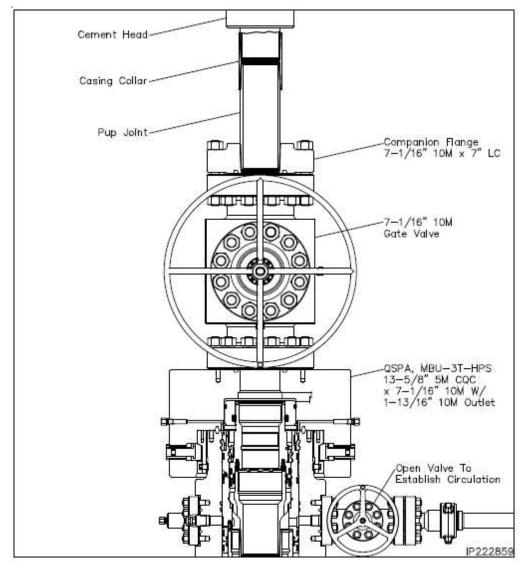


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



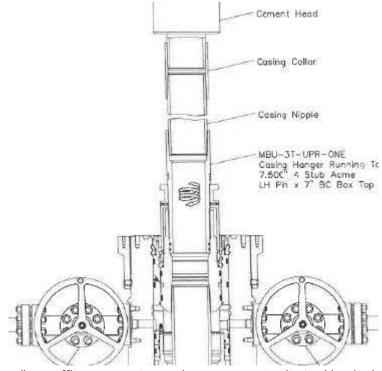


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



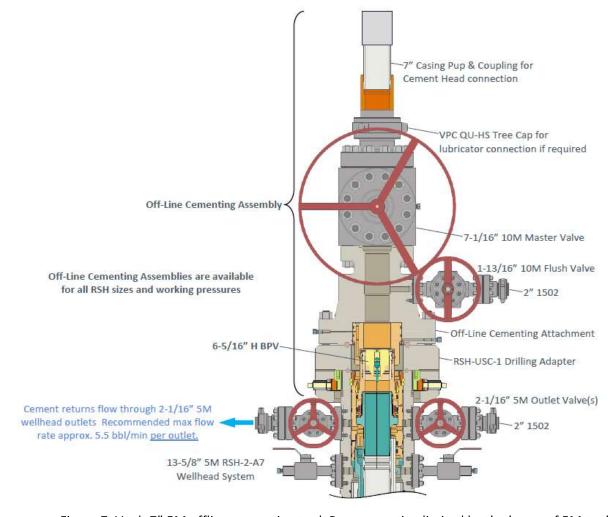


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



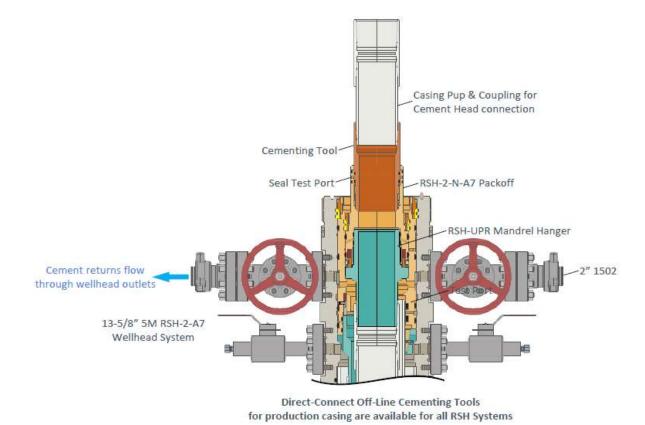


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



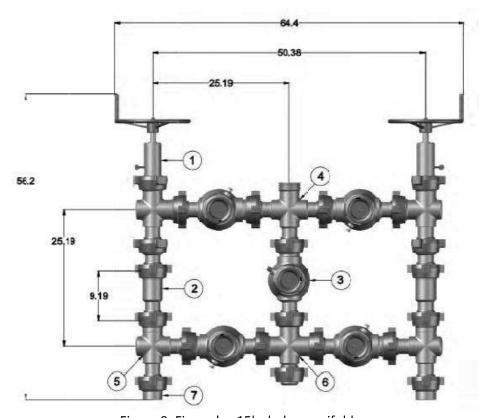


Figure 9. Five valve 15k choke manifold.

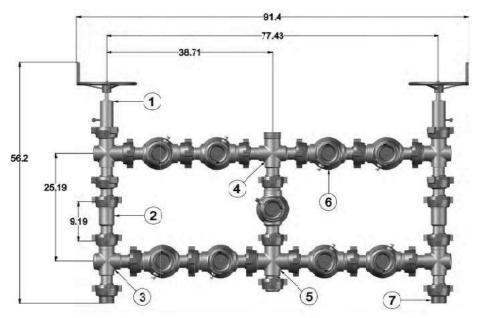
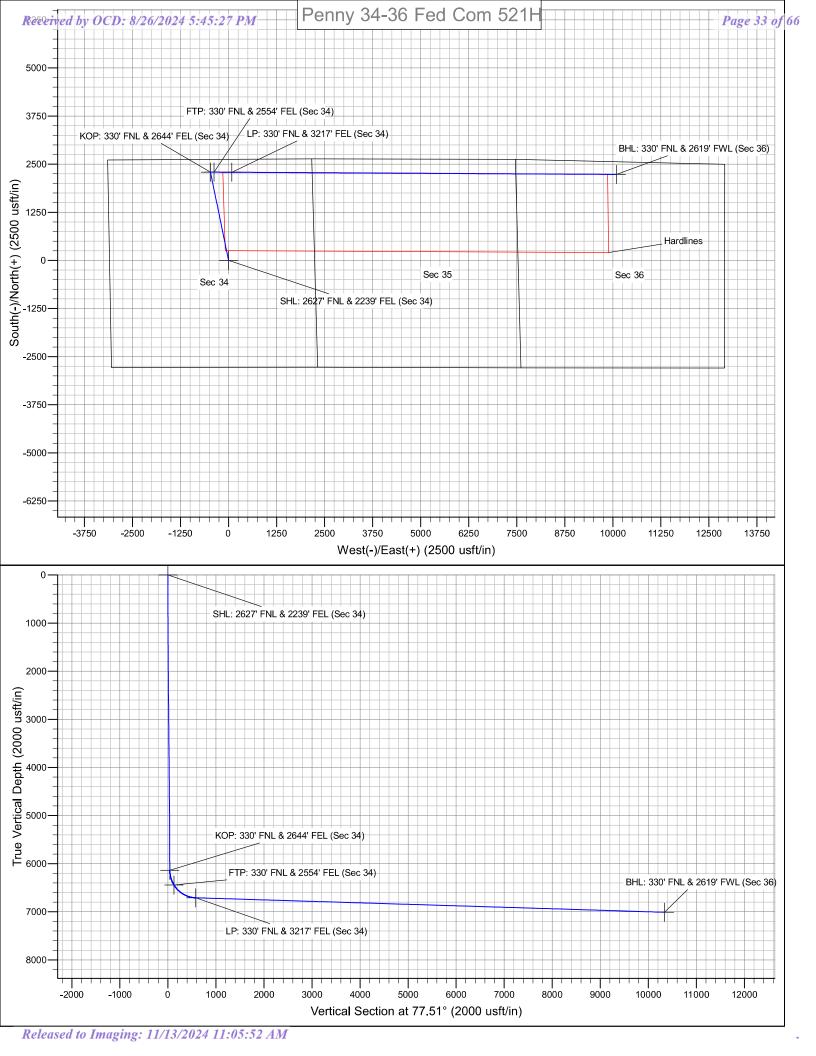


Figure 10. Nine valve 15k choke manifold.



Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Penny 34-36 Fed Com 521H Sec 34, T22S, R26E

SHL: 2627' FNL & 2239' FEL (Sec 34) BHL: 330' FNL & 2619' FWL (Sec 36)

Plan: Design #1

Standard Planning Report

19 August, 2024

Planning Report

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Penny 34-36 Fed Com 521H

Well: Sec 34, T22S, R26E

Wellbore: BHL: 330' FNL & 2619' FWL (Sec 36)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

Minimum Curvature

Project Eddy County, New Mexico NAD 83

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

System Datum:

Ground Level

Site Penny 34-36 Fed Com 521H

 Site Position:
 Northing:
 490,637.30 usft
 Latitude:
 32.3488214

 From:
 Map
 Easting:
 557,974.90 usft
 Longitude:
 -104.2794573

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

Well Sec 34, T22S, R26E

 Well Position
 +N/-S
 0.0 usft
 Northing:
 490,637.30 usft
 Latitude:
 32.3488214

 +E/-W
 0.0 usft
 Easting:
 557,974.90 usft
 Longitude:
 -104.2794573

Position Uncertainty

0.0 usft

Wellhead Elevation: 3,298.0 usfl

Ground Level: 3,270.0 usfl

Grid Convergence: 0.03 °

Wellbore BHL: 330' FNL & 2619' FWL (Sec 36)

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2010
 12/31/2014
 7.48
 60.09
 48,236.19272399

Design Design #1

Audit Notes:

Version: PROTOTYPE Tie On Depth: 0.0

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

 0.0
 0.0
 0.0
 77.51

Plan Survey Tool Program Date 8/19/2024

Depth From Depth To

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

1 0.0 17,588.9 Design #1 (BHL: 330' FNL & 261!

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	
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,051.6	30.03	348.40	1,983.8	376.7	-77.3	2.00	2.00	0.00	348.40	
5,192.8	30.03	348.40	4,703.2	1,916.8	-393.3	0.00	0.00	0.00	0.00	
6,694.3	0.00	0.00	6,137.0	2,293.5	-470.6	2.00	-2.00	0.00	180.00 K	OP: 330' FNL & 2
7,577.6	88.28	90.32	6,710.0	2,290.4	85.5	9.99	9.99	0.00	90.32	
17,588.9	88.28	90.32	7,010.0	2,234.6	10,092.1	0.00	0.00	0.00	0.00 B	HL: 330' FNL & 2

Planning Report

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Penny 34-36 Fed Com 521H

Well:

Sec 34, T22S, R26E

BHL: 330' FNL & 2619' FWL (Sec 36)

Wellbore: Design:

Project:

Site:

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

Minimum Curvature

Design:	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 2627 100.0 200.0 300.0 400.0	" FNL & 2239" 0.00 0.00 0.00 0.00	FEL (Sec 34) 0.00 0.00 0.00 0.00 0.00	100.0 200.0 300.0 400.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	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
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	1.00	348.40	600.0	0.4	-0.1	0.0	2.00	2.00	0.00
700.0	3.00	348.40	699.9	3.8	-0.8	0.1	2.00	2.00	0.00
800.0	5.00	348.40	799.7	10.7	-2.2	0.2	2.00	2.00	0.00
900.0	7.00	348.40	899.1	20.9	-4.3	0.3	2.00	2.00	0.00
1,000.0	9.00	348.40	998.2	34.6	-7.1	0.5	2.00	2.00	0.00
1,100.0	11.00	348.40	1,096.6	51.6	-10.6	0.8	2.00	2.00	0.00
1,200.0	13.00	348.40	1,194.4	71.9	-14.8	1.1	2.00	2.00	0.00
1,300.0	15.00	348.40	1,291.5	95.6	-19.6	1.5	2.00	2.00	0.00
1,400.0	17.00	348.40	1,387.6	122.6	-25.2	1.9	2.00	2.00	0.00
1,500.0	19.00	348.40	1,482.7	152.9	-31.4	2.4	2.00	2.00	0.00
1,600.0	21.00	348.40	1,576.6	186.4	-38.2	3.0	2.00	2.00	0.00
1,700.0	23.00	348.40	1,669.4	223.1	-45.8	3.5	2.00	2.00	0.00
1,800.0	25.00	348.40	1,760.7	262.9	-54.0	4.2	2.00	2.00	0.00
1,900.0	27.00	348.40	1,850.6	305.9	-62.8	4.8	2.00	2.00	0.00
2,000.0	29.00	348.40	1,938.9	351.9	-72.2	5.6	2.00	2.00	0.00
2,051.6	30.03	348.40	1,983.8	376.7	-77.3	6.0	2.00	2.00	0.00
2,100.0	30.03	348.40	2,025.7	400.5	-82.2	6.3	0.00	0.00	0.00
2,200.0	30.03	348.40	2,112.3	449.5	-92.2	7.1	0.00	0.00	0.00
2,300.0	30.03	348.40	2,198.8	498.5	-102.3	7.9	0.00	0.00	0.00
2,400.0	30.03	348.40	2,285.4	547.6	-112.4	8.7	0.00	0.00	0.00
2,500.0	30.03	348.40	2,372.0	596.6	-122.4	9.5	0.00	0.00	0.00
2,600.0	30.03	348.40	2,458.6	645.6	-132.5	10.2	0.00	0.00	0.00
2,700.0	30.03	348.40	2,545.1	694.6	-142.5	11.0	0.00	0.00	0.00
2,800.0	30.03	348.40	2,631.7	743.7	-152.6	11.8	0.00	0.00	0.00
2,900.0	30.03	348.40	2,718.3	792.7	-162.7	12.6	0.00	0.00	0.00
3,000.0	30.03	348.40	2,804.9	841.7	-172.7	13.3	0.00	0.00	0.00
3,100.0	30.03	348.40	2,891.4	890.8	-182.8	14.1	0.00	0.00	0.00
3,200.0	30.03	348.40	2,978.0	939.8	-192.8	14.9	0.00	0.00	0.00
3,300.0	30.03	348.40	3,064.6	988.8	-202.9	15.7	0.00	0.00	0.00
3,400.0	30.03	348.40	3,151.2	1,037.8	-213.0	16.4	0.00	0.00	0.00
3,500.0	30.03	348.40	3,237.7	1,086.9	-223.0	17.2	0.00	0.00	0.00
3,600.0	30.03	348.40	3,324.3	1,135.9	-233.1	18.0	0.00	0.00	0.00
3,700.0	30.03	348.40	3,410.9	1,184.9	-243.1	18.8	0.00	0.00	0.00
3,800.0	30.03	348.40	3,497.5	1,233.9	-253.2	19.6	0.00	0.00	0.00
3,900.0	30.03	348.40	3,584.0	1,283.0	-263.2	20.3	0.00	0.00	0.00
4,000.0	30.03	348.40	3,670.6	1,332.0	-273.3	21.1	0.00	0.00	0.00
4,100.0	30.03	348.40	3,757.2	1,381.0	-283.4	21.9	0.00	0.00	0.00
4,200.0	30.03	348.40	3,843.8	1,430.0	-293.4	22.7	0.00	0.00	0.00
4,300.0	30.03	348.40	3,930.3	1,479.1	-303.5	23.4	0.00	0.00	0.00
4,400.0	30.03	348.40	4,016.9	1,528.1	-313.5	24.2	0.00	0.00	0.00
4,500.0	30.03	348.40	4,103.5	1,577.1	-323.6	25.0	0.00	0.00	0.00
4,600.0	30.03	348.40	4,190.1	1,626.1	-333.7	25.8	0.00	0.00	0.00
4,700.0	30.03	348.40	4,276.6	1,675.2	-343.7	26.5	0.00	0.00	0.00
4,800.0	30.03	348.40	4,363.2	1,724.2	-353.8	27.3	0.00	0.00	0.00
4,900.0	30.03	348.40	4,449.8	1,773.2	-363.8	28.1	0.00	0.00	0.00
5,000.0	30.03	348.40	4,536.4	1,822.2	-373.9	28.9	0.00	0.00	0.00

Database: Hobbs

Site:

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

Eddy County, New Mexico NAD 83
Penny 34-36 Fed Com 521H

Well: Sec 34, T22S, R26E

Wellbore: BHL: 330' FNL & 2619' FWL (Sec 36)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

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 5,192.8	30.03 30.03	348.40 348.40	4,622.9 4,703.2	1,871.3 1,916.8	-384.0 -393.3	29.7 30.4	0.00 0.00	0.00 0.00	0.00 0.00
5,200.0 5,300.0 5,400.0 5,500.0 5,600.0	29.89 27.89 25.89 23.89 21.89	348.40 348.40 348.40 348.40 348.40	4,709.5 4,797.1 4,886.3 4,977.0 5,069.1	1,920.3 1,967.6 2,011.9 2,053.1 2,091.2	-394.0 -403.7 -412.8 -421.3 -429.1	30.4 31.2 31.9 32.5 33.1	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
5,700.0 5,800.0 5,900.0 6,000.0 6,100.0	19.89 17.89 15.89 13.89 11.89	348.40 348.40 348.40 348.40 348.40	5,162.5 5,257.1 5,352.8 5,449.4 5,546.9	2,126.2 2,157.9 2,186.3 2,211.5 2,233.3	-436.3 -442.8 -448.6 -453.8 -458.3	33.7 34.2 34.6 35.0 35.4	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
6,200.0 6,300.0 6,400.0 6,500.0 6,600.0	9.89 7.89 5.89 3.89 1.89	348.40 348.40 348.40 348.40 348.40	5,645.1 5,743.9 5,843.2 5,942.8 6,042.7	2,251.8 2,267.0 2,278.7 2,287.0 2,292.0	-462.0 -465.2 -467.6 -469.3 -470.3	35.7 35.9 36.1 36.2 36.3	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
6,694.3	0.00 FNL & 2644' F	0.00 FL (Sec 34)	6,137.0	2,293.5	-470.6	36.3	2.00	-2.00	0.00
6,700.0 6,750.0 6,800.0 6,850.0 6,900.0 6,950.0 7,000.0 7,019.9	-NL & 2644 F	90.32 90.32 90.32 90.32 90.32 90.32 90.32 90.32	6,142.7 6,192.6 6,242.1 6,290.8 6,338.3 6,384.3 6,428.4 6,445.3 6,509.6 6,546.2 6,579.6 6,609.6 6,636.1 6,658.8 6,677.5 6,692.1 6,702.4 6,708.5 6,710.0	2,293.5 2,293.4 2,293.4 2,293.3 2,293.2 2,293.0 2,292.9 2,292.7 2,292.5 2,292.3 2,292.1 2,291.6 2,291.4 2,291.4 2,291.1 2,290.8 2,290.6 2,290.4	-470.6 -467.9 -460.9 -449.6 -434.1 -414.5 -391.0 -380.6 -363.8 -333.0 -298.8 -261.7 -221.7 -179.3 -134.8 -88.4 -40.6 8.3 57.9 85.5	36.4 39.0 45.8 56.8 71.9 91.0 113.9 124.1 140.5 170.6 203.8 240.1 279.0 320.4 363.8 409.0 455.6 503.3 551.7 578.6	9.99 9.99 9.99 9.99 9.99 9.99 9.99 9.9	9.99 9.99 9.99 9.99 9.99 9.99 9.99 9.9	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
7,600.0 7,700.0 7,800.0 7,900.0 8,000.0 8,100.0 8,200.0	IL & 3217' FEL 88.28 88.28 88.28 88.28 88.28 88.28 88.28 88.28	90.32 90.32 90.32 90.32 90.32 90.32 90.32 90.32	6,710.7 6,713.7 6,716.7 6,719.7 6,722.7 6,725.7 6,728.7	2,290.3 2,289.7 2,289.2 2,288.6 2,288.0 2,287.5 2,286.9	107.8 207.8 307.7 407.7 507.6 607.6 707.6	600.4 697.9 795.3 892.8 990.3 1,087.8 1,185.2	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
8,300.0 8,400.0 8,500.0 8,600.0 8,700.0	88.28 88.28 88.28 88.28 88.28	90.32 90.32 90.32 90.32 90.32 90.32	6,726.7 6,731.6 6,734.6 6,737.6 6,740.6 6,743.6	2,286.4 2,285.8 2,285.3 2,284.7 2,284.1	707.6 807.5 907.5 1,007.4 1,107.4 1,207.3	1,165.2 1,282.7 1,380.2 1,477.6 1,575.1 1,672.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

Database: Company: Project:

Site:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Penny 34-36 Fed Com 521H

Well:

Sec 34, T22S, R26E

BHL: 330' FNL & 2619' FWL (Sec 36)

Wellbore: Design:

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

Minimum Curvature

9									
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)
8,800.0	88.28	90.32	6,746.6	2,283.6	1,307.3	1,770.0	0.00	0.00	0.00
8,900.0	88.28	90.32	6,749.6	2,283.0	1,407.2	1,867.5	0.00	0.00	0.00
9,000.0 9,100.0 9,200.0	88.28 88.28 88.28	90.32 90.32 90.32	6,752.6 6,755.6 6,758.6	2,282.5 2,281.9 2,281.4	1,507.2 1,607.1 1,707.1 1.807.0	1,965.0 2,062.4 2,159.9	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,300.0 9,400.0	88.28 88.28	90.32 90.32	6,761.6 6,764.6	2,280.8 2,280.2	1,907.0	2,257.4 2,354.9	0.00	0.00	0.00 0.00
9,500.0	88.28	90.32	6,767.6	2,279.7	2,007.0	2,452.3	0.00	0.00	0.00
9,600.0	88.28	90.32	6,770.6	2,279.1	2,106.9	2,549.8	0.00	0.00	0.00
9,700.0	88.28	90.32	6,773.6	2,278.6	2,206.9	2,647.3	0.00	0.00	0.00
9,800.0	88.28	90.32	6,776.6	2,278.0	2,306.8	2,744.7	0.00	0.00	0.00
9,900.0	88.28	90.32	6,779.6	2,277.5	2,406.8	2,842.2	0.00	0.00	0.00
10,000.0 10,100.0 10,200.0 10,300.0	88.28 88.28 88.28 88.28	90.32 90.32 90.32 90.32	6,782.6 6,785.6 6,788.6 6,791.6	2,276.9 2,276.3 2,275.8 2,275.2	2,506.7 2,606.7 2,706.6 2,806.6	2,939.7 3,037.1 3,134.6 3,232.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,400.0	88.28	90.32	6,794.6	2,274.7	2,906.5	3,329.5	0.00	0.00	0.00
10,500.0	88.28	90.32	6,797.6	2,274.1	3,006.5	3,427.0	0.00	0.00	0.00
10,600.0	88.28	90.32	6,800.6	2,273.6	3,106.4	3,524.5	0.00	0.00	0.00
10,700.0 10,800.0 10,900.0 11,000.0	88.28 88.28 88.28 88.28	90.32 90.32 90.32 90.32	6,803.6 6,806.6 6,809.6 6,812.6	2,273.0 2,272.4 2,271.9 2,271.3	3,206.4 3,306.3 3,406.3 3,506.3	3,622.0 3,719.4 3,816.9 3.914.4	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,100.0 11,200.0 11,300.0 11,400.0	88.28 88.28 88.28 88.28	90.32 90.32 90.32 90.32	6,815.6 6,818.5 6,821.5 6,824.5	2,270.8 2,270.2 2,269.7 2,269.1	3,606.2 3,706.2 3,806.1 3,906.1	4,011.8 4,109.3 4,206.8 4,304.2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
11,500.0	88.28	90.32	6,827.5	2,268.5	4,006.0	4,401.7	0.00	0.00	0.00
11,600.0	88.28	90.32	6,830.5	2,268.0	4,106.0	4,499.2	0.00	0.00	0.00
11,700.0	88.28	90.32	6,833.5	2,267.4	4,205.9	4,596.7	0.00	0.00	0.00
11,800.0	88.28	90.32	6,836.5	2,266.9	4,305.9	4,694.1	0.00	0.00	0.00
11,900.0	88.28	90.32	6,839.5	2,266.3	4,405.8	4,791.6	0.00	0.00	0.00
12,000.0	88.28	90.32	6,842.5	2,265.8	4,505.8	4,889.1	0.00	0.00	0.00
12,100.0	88.28	90.32	6,845.5	2,265.2	4,605.7	4,986.5	0.00	0.00	0.00
12,200.0	88.28	90.32	6,848.5	2,264.6	4,705.7	5,084.0	0.00	0.00	0.00
12,300.0	88.28	90.32	6,851.5	2,264.1	4,805.6	5,181.5	0.00	0.00	0.00
12,400.0	88.28	90.32	6,854.5	2,263.5	4,905.6	5,278.9	0.00	0.00	0.00
12,500.0	88.28	90.32	6,857.5	2,263.0	5,005.6	5,376.4	0.00	0.00	0.00
12,600.0	88.28	90.32	6,860.5	2,262.4	5,105.5	5,473.9	0.00	0.00	0.00
12,700.0	88.28	90.32	6,863.5	2,261.8	5,205.5	5,571.3	0.00	0.00	0.00
12,800.0	88.28	90.32	6,866.5	2,261.3	5,305.4	5,668.8	0.00	0.00	0.00
12,900.0	88.28	90.32	6,869.5	2,260.7	5,405.4	5,766.3	0.00	0.00	0.00
13,000.0	88.28	90.32	6,872.5	2,260.2	5,505.3	5,863.8	0.00	0.00	0.00
13,100.0	88.28	90.32	6,875.5	2,259.6	5,605.3	5,961.2	0.00	0.00	0.00
13,200.0	88.28	90.32	6,878.5	2,259.1	5,705.2	6,058.7	0.00	0.00	0.00
13,300.0	88.28	90.32	6,881.5	2,258.5	5,805.2	6,156.2	0.00	0.00	0.00
13,400.0	88.28	90.32	6,884.5	2,257.9	5,905.1	6,253.6	0.00	0.00	0.00
13,500.0	88.28	90.32	6,887.5	2,257.4	6,005.1	6,351.1	0.00	0.00	0.00
13,600.0	88.28	90.32	6,890.5	2,256.8	6,105.0	6,448.6	0.00	0.00	0.00
13,700.0	88.28	90.32	6,893.5	2,256.3	6,205.0	6,546.0	0.00	0.00	0.00
13,800.0	88.28	90.32	6,896.5	2,255.7	6,305.0	6,643.5	0.00	0.00	0.00
13,900.0	88.28	90.32	6,899.5	2,255.2	6,404.9	6,741.0	0.00	0.00	0.00
14,000.0	88.28	90.32	6,902 . 5	2,254.6	6,504.9	6,838.4	0.00	0.00	0.00
14,100.0	88.28	90.32	6,905 . 5	2,254.0	6,604.8	6,935.9	0.00	0.00	0.00

Database: Company: Project:

Site:

Wellbore:

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Penny 34-36 Fed Com 521H

Well: Sec 34, T22S, R26E

BHL: 330' FNL & 2619' FWL (Sec 36)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

Minimum Curvature

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)
14,200.0	88.28	90.32	6,908.4	2,253.5	6,704.8	7,033.4	0.00	0.00	0.00
14,300.0	88.28	90.32	6,911.4	2,252.9	6,804.7	7,130.9	0.00	0.00	0.00
14,400.0	88.28	90.32	6,914.4	2,252.4	6,904.7	7,228.3	0.00	0.00	0.00
14,500.0	88.28	90.32	6,917.4	2,251.8	7,004.6	7,325.8	0.00	0.00	0.00
14,600.0	88.28	90.32	6,920.4	2,251.3	7,104.6	7,423.3	0.00	0.00	0.00
14,700.0	88.28	90.32	6,923.4	2,250.7	7,204.5	7,520.7	0.00	0.00	0.00
14,800.0	88.28	90.32	6,926.4	2,250.1	7,304.5	7,618.2	0.00	0.00	0.00
14,900.0	88.28	90.32	6,929.4	2,249.6	7,404.4	7,715.7	0.00	0.00	0.00
15,000.0	88.28	90.32	6,932.4	2,249.0	7,504.4	7,813.1	0.00	0.00	0.00
15,100.0	88.28	90.32	6,935.4	2,248.5	7,604.3	7,910.6	0.00	0.00	0.00
15,200.0	88.28	90.32	6,938.4	2,247.9	7,704.3	8,008.1	0.00	0.00	0.00
15,300.0	88.28	90.32	6,941.4	2,247.4	7,804.3	8,105.5	0.00	0.00	0.00
15,400.0	88.28	90.32	6,944.4	2,246.8	7,904.2	8,203.0	0.00	0.00	0.00
15,500.0	88.28	90.32	6,947.4	2,246.2	8,004.2	8,300.5	0.00	0.00	0.00
15,600.0	88.28	90.32	6,950.4	2,245.7	8,104.1	8,398.0	0.00	0.00	0.00
15,700.0	88.28	90.32	6,953.4	2,245.1	8,204.1	8,495.4	0.00	0.00	0.00
15,800.0	88.28	90.32	6,956.4	2,244.6	8,304.0	8,592.9	0.00	0.00	0.00
15,900.0	88.28	90.32	6,959.4	2,244.0	8,404.0	8,690.4	0.00	0.00	0.00
16,000.0	88.28	90.32	6,962.4	2,243.5	8,503.9	8,787.8	0.00	0.00	0.00
16,100.0	88.28	90.32	6,965.4	2,242.9	8,603.9	8,885.3	0.00	0.00	0.00
16,200.0	88.28	90.32	6,968.4	2,242.3	8,703.8	8,982.8	0.00	0.00	0.00
16,300.0	88.28	90.32	6,971.4	2,241.8	8,803.8	9,080.2	0.00	0.00	0.00
16,400.0	88.28	90.32	6,974.4	2,241.2	8,903.7	9,177.7	0.00	0.00	0.00
16,500.0	88.28	90.32	6,977.4	2,240.7	9,003.7	9,275.2	0.00	0.00	0.00
16,600.0	88.28	90.32	6,980.4	2,240.1	9,103.7	9,372.7	0.00	0.00	0.00
16,700.0	88.28	90.32	6,983.4	2,239.6	9,203.6	9,470.1	0.00	0.00	0.00
16,800.0	88.28	90.32	6,986.4	2,239.0	9,303.6	9,567.6	0.00	0.00	0.00
16,900.0	88.28	90.32	6,989.4	2,238.4	9,403.5	9,665.1	0.00	0.00	0.00
17,000.0	88.28	90.32	6,992.4	2,237.9	9,503.5	9,762.5	0.00	0.00	0.00
17,100.0	88.28	90.32	6,995.3	2,237.3	9,603.4	9,860.0	0.00	0.00	0.00
17,200.0	88.28	90.32	6,998.3	2,236.8	9,703.4	9,957.5	0.00	0.00	0.00
17,300.0	88.28	90.32	7,001.3	2,236.2	9,803.3	10,054.9	0.00	0.00	0.00
17,400.0	88.28	90.32	7,004.3	2,235.7	9,903.3	10,152.4	0.00	0.00	0.00
17,500.0 17,588.9 BHL: 330'	88.28 88.28	90.32 90.32	7,007.3 7,010.0	2,235.1 2,234.6	10,003.2 10,092.1	10,249.9 10,336.5	0.00 0.00	0.00 0.00	0.00 0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Penny 34-36 Fed Com 521H

Well: Sec 34, T22S, R26E

Wellbore: BHL: 330' FNL & 2619' FWL (Sec 36)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Penny 34-36 Fed Com 521H

WELL @ 3298.0usft (Original Well Elev) WELL @ 3298.0usft (Original Well Elev)

Grid

Minimum Curvature

Design Targets									
Target Name - hit/miss target Di - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 2627' FNL & 220 - plan hits target cent - Point	0.00 ter	0.00	0.0	0.0	0.0	490,637.30	557,974.90	32.3488214	-104.2794573
KOP: 330' FNL & 264 - plan hits target cent - Point	0.00 ter	0.00	6,137.0	2,293.5	-470.6	492,930.80	557,504.30	32.3551265	-104.2809775
FTP: 330' FNL & 2554 - plan hits target cent - Point	0.00 ter	0.00	6,445.3	2,293.0	-380.6	492,930.30	557,594.27	32.3551250	-104.2806862
LP: 330' FNL & 3217' - plan hits target cent - Point	0.00 ter	0.00	6,710.0	2,290.4	85.5	492,927.70	558,060.40	32.3551173	-104.2791766
BHL: 330' FNL & 2619 - plan hits target cent - Point	0.00 ter	0.00	7,010.0	2,234.6	10,092.1	492,871.90	568,067.00	32.3549458	-104.2467707

SHL: 2627' FNL 2239' FEL (Sec 34) BHL: 330' FNL 2619' FWL (Sec 36)

Well Location GL: 3270'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 2627' FNL & 2239' FEL (Sec 34)	NMNM096203	SWNE	34	22S	26E	Eddy	32.3488210	104.2794570	0'	0'
KOP	KOP: 330' FNL & 2644' FEL (Sec 34)	NMNM096203	NWNE	34	22S	26E	Eddy	32.3551270	104.2897800	6,137'	6,694'
FTP	FTP: 330' FNL & 2554' FEL (Sec 34)	NMNM096203	NWNE	34	22S	26E	Eddy	32.3551280	104.2806860	6,445'	7,019'
BHL	BHL: 330' FNL & 2619' FWL (Sec 36)	State	NENW	36	22S	26E	Eddy	32.3549460	104.2497710	7,010'	17,589'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	1667'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	350'	Salt	None	Bell Canyon	1811'	Sandstone	Oil/Natural Gas
Salt Base	1360'	Salt	None	Cherry Canyon	2504'	Sandstone	Oil/Natural Gas
Yates				Manzanita Marker	2624'	Limestone	Oil/Natural Gas
Seven Rivers				Basal Brushy Canyon	3536'	Sandstone	Oil/Natural Gas
Queen				Bone Spring	5037'	Limestone	Oil/Natural Gas
Capitan				1st Bone Spring	6018'	Sandstone	Oil/Natural Gas
Grayburg				2nd Bone Spring	6529'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring	8191'	Sandstone	Oil/Natural Gas
Glorietta				Wolfcamp			

	Casing Program Design A					BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Int	12.25"	0'	0'	1590'	1590'	9.625" 36# J55 LTC	2.33	4.05	7.91	9.85
Production	8.75"	0'	0'	6694'	6137'	7" 26# P110 LTC	2.05	3.28	3.98	4.77
Liner	6.125"	6494'	6416'	17589'	7010'	4.5" 13.5# P110 LTC	2.55	2.96	2.26	2.82

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

	Y or N
Is easing new? If used, attach certification as required in Onshore Order #1	Y
Is easing API approved? If no, attach easing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production easing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
L. H. J. P. H. G. LSONIA	
Is well located in R-111-Q 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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Penny 34/36 Fed Com 521H Sec 34, T22S, R26E

SHL: 2627' FNL 2239' FEL (Sec 34) BHL: 330' FNL 2619' FWL (Sec 36)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	тос/вос	Volume, ft ³	% Excess	Slurry Description
13,375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	116' - 300'	268	10076	Class C: Retarder
9.625 in	LEAD	170	12.5	2.12	0' - 922'	370	25%	Class C: Salt, Gel, Extender, LCM
9.023 III	TAIL	200	14.8	1.34	922' - 1590'	268	2376	Class C: Retarder
1st Stg 7 in	LEAD	150	12.5	2.12	2599' - 4254'	320	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
1st Stg / III	TAIL	400	15.6	1.18	4254' - 6694'	472	2376	Class H: Retarder, Fluid Loss, Defoamer
					7	"' DV Tool @ 2599'		
2nd Stg 7 in	LEAD	50	12.5	2.12	1390' - 1935'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
Ziiu Sig / iii	TAIL	100	14.8	1.34	1935' - 2599'	134	2376	Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	710	13.5	1.85	6494' - 17589'	1320	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP		Туре		Tested to:	Rating Depth
		5M	A	nnular	X	2500#	
			Bli	Blind Ram			
12.25	13.375	5M	Pi	Pipe Ram		5000#	17,589'
		5M	Dou	Double Ram		5000#	
			Other*				

^{*}Specify if additional ram is utilized

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.	
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.	ĺ

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
	8.4 - 8.6	Fresh Water
0' - 300'	8.4 - 8.6	Fresh Water
300' - 1590'	9.5 - 10.5	Brine
1590' - 6694'	8.6 - 9.5	Cut-Brine
6694' - 17589'	10.0 - 11.5	OBM

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

DATE AT 1 A C 1 C

BHL: 330' FNL 2619' FWL (Sec 34)

Logging and Testing Procedures

[Logging	s, Coring and Testing.					
	NI	Will run GR/CNL from KOP (6694') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.					
Ì	Y	to logs are planned based on well control or offset log information. Offset Well: Penny 34/36 Fed Com #711H					
[N	Coring? If yes, explain:					

Open & Cased Hole Logs Run In the Well

Caliper		Cement Bond Log	CNL/FDC
Compensated Densilog		Compensated Neutron Log	Computer Generated Log
Dip Meter Log	2	Directional Survey	Dual Induction/Microresistivity
Dual Lateral Log/Microspherically Focused		Electric Log	Formation Density Compensated Log
Gamma Ray Log	2	Measurement While Drilling	Mud Log/Geological Lithology Log
Other		Porosity-Resistivity Log	Sidewall Neutron Log
Sonic Log		Spontaneous Potential Log	Temperature Log

Drilling Conditions

Condition	Specify what type and where?		
BH Pressure at deepest TVD	4192 psi		
BH Temperature	140		
Abnormal Temp, Pressure, or Geologic Hazards	No		

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

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

	Tree:
	H2S is present
X	H2S Plan attached

BHL: 330' FNL 2619' FWL (Sec 36)

Other facets of operation

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

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

		Casing Progr	am Design B		BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet	
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Int	12.25"	0'	0'	1590'	1590'	9.625" 36# J55 LTC	2.33	4.05	7.91	9.85
Production	8.75"	0'	0'	7578'	6710'	7" 26# P110 LTC	1.88	3.00	3.52	4.21
Liner	6.125"	6694'	6137'	17589'	7010'	4.5" 13.5# P110 LTC	2.55	2.96	2.30	2.87

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

An easing strings will be tested in accordance with 43 CFR 1 art 51/2. Must have table for contingency casing.	
	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft ³ /sack	TOC/BOC	Volume, ft ³	% Excess	Slurry Description			
13,375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM			
15.575 III	TAIL	200	14.8	1.34	116' - 300'	268	100%	Class C: Retarder			
9.625 in	LEAD	170	12.5	2.12	0' - 922'	370	25%	Class C: Salt, Gel, Extender, LCM			
9.023 III	TAIL	200	14.8	1.34	922' - 1590'	268	2376	Class C: Retarder			
1st Stg 7 in	LEAD	220	12.5	2.12	2599' - 5083'	470	25%	Class C: Salt, Gel, Extender, LCM, Defoamer			
1st Stg / III	TAIL	400	15.6	1.18	5083' - 7578'	472	2376	Class H: Retarder, Fluid Loss, Defoamer			
	7" DV Tool @ 2599'										
2nd Stg 7 in	LEAD	50	12.5	2.12	1390' - 1935'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer			
Zilu Sig / III	TAIL	100	14.8	1.34	1935' - 2599'	134	2376	Class C: Retarder, Fluid Loss, Defoamer			
4.5 in	LEAD	690	13.5	1.85	6694' - 17589'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent			

BHL: 330' FNL 2619' FWL (Sec 36)

		Casing Prog	ram Design A			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Int	12.25"	0'	0'	1590'	1590'	9.625" 36# J55 LTC	2.33	4.05	7.91	9.85
Production	8.75"	0'	0'	6694'	6137'	7" 26# P110 LTC	2.05	3.28	3.98	4.77
Liner	6.125"	6494'	6416'	17589'	7010'	4.5" 13.5# P110 LTC	2.55	2.96	2.26	2.82

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	тос/вос	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM
15.575 III	TAIL	200	14.8	1.34	116' - 300'	268	100%	Class C: Retarder
9.625 in	LEAD	170	12.5	2.12	0' - 922'	370	25%	Class C: Salt, Gel, Extender, LCM
9:025 III	TAIL	200	14.8	1.34	922' - 1590'	268	2376	Class C: Retarder
1st Stg 7 in	LEAD	150	12.5	2.12	2599' - 4254'	320	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
1st Stg / III	TAIL	400	15.6	1.18	4254' - 6694'	472	2376	Class H: Retarder, Fluid Loss, Defoamer
					7" DV	Tool @ 2599'		
2nd Stg 7 in	LEAD	50	12.5	2.12	1390' - 1935'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
2nd Stg / In	TAIL	100	14.8	1.34	1935' - 2599'	134	2370	Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	710	13.5	1.85	6494' - 17589'	1320	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent

Design A - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 300'	8.4 - 8.6	Fresh Water
300' - 1590'	9.5 - 10.5	Brine
1590' - 6694'	8.6 - 9.5	Cut-Brine
6694' - 17589'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	1667'	Oil/Natural Gas
Salt Top	350'	None	Bell Canyon	1811'	Oil/Natural Gas
Salt Base	1360'	None	Cherry Canyon	2504'	Oil/Natural Gas
Yates			Manzanita Marker	2624'	Oil/Natural Gas
Seven Rivers			Basal Brushy Canyon	3536'	Oil/Natural Gas
Queen			Bone Spring	5037'	Oil/Natural Gas
Capitan			1st Bone Spring	6018'	Oil/Natural Gas
Grayburg			2nd Bone Spring	6529'	Oil/Natural Gas
San Andres			3rd Bone Spring	8191'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	37 31
	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 easing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings comented to surface?	

BHL: 330' FNL 2619' FWL (Sec 34)

		Casing Prog	ram Design B			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	300'	300'	13.375" 48# H40 STC	5.74	12.90	22.36	37.57
Int	12.25"	0'	0'	1590'	1590'	9.625" 36# J55 LTC	2.33	4.05	7.91	9.85
Production	8.75"	0'	0'	7578'	6710'	7" 26# P110 LTC	1.88	3.00	3.52	4.21
Liner	6.125"	6694'	6137'	17589'	7010'	4.5" 13.5# P110 LTC	2.55	2.96	2.30	2.87

Design B - Cement Program

	agn b Cement 110g. um											
Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description				
13,375 in	LEAD	80	12.5	2.12	0' - 116'	170	100%	Class C: Salt, Gel, Extender, LCM				
13.375 III	TAIL	200	14.8	1.34	116' - 300'	268	100%	Class C: Retarder				
9.625 in	LEAD	170	12.5	2.12	0' - 922'	370	25%	Class C: Salt, Gel, Extender, LCM				
9.025 III	TAIL	200	14.8	1.34	922' - 1590'	268	2376	Class C: Retarder				
1st Stg 7 in	LEAD	220	12.5	2.12	2599' - 5083'	470	25%	Class C: Salt, Gel, Extender, LCM, Defoamer				
ist stg / iii	TAIL	400	15.6	1.18	5083' - 7578'	472	23%	Class H: Retarder, Fluid Loss, Defoamer				
					7" DV	Tool @ 2599'						
2nd Stg 7 in	LEAD	50	12.5	2.12	1390' - 1935'	110	25%	Class C: Salt, Gel, Extender, LCM, Defoamer				
2nd Sig / m	TAIL	100	14.8	1.34	1935' - 2599'	134	2376	Class C: Retarder, Fluid Loss, Defoamer				
4.5 in	LEAD	690	13.5	1.85	6694' - 17589'	1280	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti- settling Agent				

Design B - Mud Program

Depth	Mud Wt	Mud Type
	8.4 - 8.6	
0' - 300'	8.4 - 8.6	Fresh Water
300' - 1590'	9.5 - 10.5	Brine
1590' - 7578'	8.6 - 9.5	Cut-Brine
7578' - 17589'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	1667'	Oil/Natural Gas
Salt Top	350'	None	Bell Canyon	1811'	Oil/Natural Gas
Salt Base	1360'	None	Cherry Canyon	2504'	Oil/Natural Gas
Yates			Manzanita Marker	2624'	Oil/Natural Gas
Seven Rivers			Basal Brushy Canyon	3536'	Oil/Natural Gas
Queen			Bone Spring	5037'	Oil/Natural Gas
Capitan			1st Bone Spring	6018'	Oil/Natural Gas
Grayburg			2nd Bone Spring	6529'	Oil/Natural Gas
San Andres			3rd Bone Spring	8191'	Oil/Natural Gas
Glorieta			Wolfcamp		

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

	Y or N
Is easing new? If used, attach certification as required in Onshore Order #1	Y
Is easing API approved? If no, attach easing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production easing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500° into previous casing?	
Is well located in R-111-Q and SOPA?	
	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Penny 34/36 Fed Com 521H Sec 34, T22S, R26E

SHL: 2627' FNL 2239' FEL (Sec 34) BHL: 330' FNL 2619' FWL (Sec 36)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Penny 34/36 Fed Com	521H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
В	34	22	26	-	330'	FNL	NL 2644' FEL		Eddy
		Latitude				NAD			
32.355127					-104.28978	83			

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
В	34	22	26	-	330'	FNL	2554'	FEL	Eddy
		Latitude				NAD			
32.355128					-104.28068	83			

Last Take Point (LTP)

Lust Tune 1	aust rune romt (Err)											
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County			
С	36	22	26	_	330'	FNL	2619'	FWL	Eddy			
		Latitude				NAD						
32.354946					-104.24977	83						

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

ONA L

<u>C-10</u>	<u>2</u>	/26/2024 5:		ergy, Mi		al Resources Departi	nent		Revis	sed July 9, 20		
	Electronicall D Permitting	У		OIL	CONSERVA	ΓΙΟΝ DIVISION			☐ Initial Submittal			
								Submittal Type:	☑ Amended Rep	☑ Amended Report		
							☐ As Drilled					
			•		WELL LOCA	TION INFORMATION		•	•			
API Nu	imber 30 - 0	15-54426	Pool Code	10380)	Pool Name Cass	Draw; Bo	ne Sprin	ng (Oil)			
Propert	y Code		Property N	ame	PENNY	34/36 FED COM			Well Number 521	lH		
OGRIE	No. 147	744	Operator N	ame	MEWBOUR	NE OIL COMPANY			Ground Level El			
Surface	Owner:	State □ Fee □] Tribal □ Fe	deral		Mineral Owner:	State ☐ Fee 1	☐ Tribal ☐	Federal			
TIT	Castian	Tanashia	Domas	Lot	Surf Ft. from N/S	ace Location Ft. from E/W	I atituda (NI	4D 92) I	anaitada (NAD 92)	Country		
UL G	Section 34	Township 22S	Range 26E	Lot	2,627 NORTH		Latitude (NAD 83) 32.348821°		ongitude (NAD 83) -104.279457°	County EDDY		
					Rotton	Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) I	Longitude (NAD 83)	County		
C	36	22S	26E		330 NORTH	2,619 WEST	32.354946°		-104.246771°	EDDY		
		-			<u>'</u>		<u>'</u>					
	ted Acres 1280	Infill or Defi	ning Well	Definin	g Well API	Overlapping Spacing Unit (Y/N) Consolidation Code						
Order N	Numbers.	1				Well setbacks are un	der Common (Ownership:	□Yes □No			
					Kick C	Off Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)		Longitude (NAD 83)	County		
В	34	22S	26E		330 NORTH	2,644 EAST	32.3551	127°	-104.280978°	EDDY		
					First T	ake Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) L	Longitude (NAD 83)	County		
В	34	22S	26E		330 NORTH	2,554 EAST	32.3551	128°	-104.280686°	EDDY		
	I	1		· I	Last Ta	ake Point (LTP)	l					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) L	ongitude (NAD 83)	County		
С	36	22S	26E		330 NORTH	2,619 WEST	32.3549	946°	-104.246771°	EDDY		
Unitize	d Area or Ar	rea of Uniform	Interest	Spacing	Unit Type 🔲 Hori	zontal 🗆 Vertical	Grou	nd Floor Ele	evation:			
OPER 4	ATOR CERT	TIFICATIONS		•		SURVEYOR CERTIFI	CATIONS					
			tained havein in	true and oor	nplete to the best of	I hereby certify that the we		on this plat	was plotted from 1	d notes of acts		
my know organiza	vledge and beli ution either ow	e injormation con ief , and, if the we ns a working inte l bottom hole loca	ll is a vertical o rest or unleasea	r directional mineral inte	well, that this erest in the land	surveys made by me or und my belief.	ler my supervisio	on, and that th	ne same is true and sdrr	ect to the best		

location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

08/19/2024

Conner Whitley Printed Name

Signature and Seal of Professional Surveyor

August 07, 2024

cwhitley@mewbourne.com

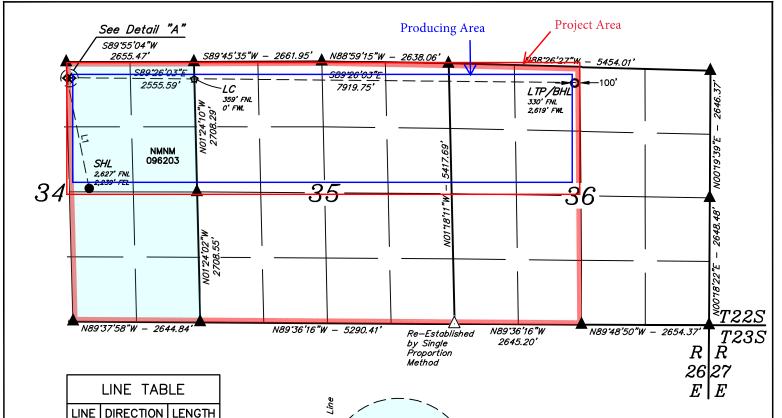
Email Address

Note: 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.

Certificate Number

Date of Survey

Property Name
PENNY 34/36 FED COM
Well Number
C.S.C. 08-09-24
Revised By



100'

FTP 330' FNL 2,554' FEL

KOP

<u>Detail</u> "A'

No Scale

330' FNL 2,644' FEL

L1 N11'21'19"W 2341.88' L2 N89'55'04"E 90.03'

= SURFACE HOLE LOCATION

♦ = KICK-OFF POINT/FIRST TAKE POINT

O = LAST TAKE POINT/ BOTTOM HOLE LOCATION

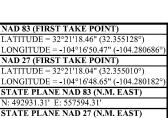
 \triangle = SECTION CORNER LOCATED

∆ = SECTION CORNER
 RE-ESTABLISHED.
 (Not Set on Ground.)

= HORIZONTAL SPACING UNIT

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°20'55.76" (32.348821°) LONGITUDE = -104°16'46.05" (-104.279457°) NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°20'55.33" (32.348704°) LONGITUDE = -104°16'44.23" (-104.278953°) STATE PLANE NAD 83 (N.M. EAST) N: 490637.27' E: 557974.94' STATE PLANE NAD 27 (N.M. EAST) N: 490578.39' E: 516793.49'

NAD 83 (KICK OFF POINT) LATITUDE = 32°21'18.46" (32.355127°) LONGITUDE = -104°16'51.52" (-104.280978°) NAD 27 (KICK OFF POINT) LATITUDE = 32°21'18.03" (32.355009°) LONGITUDE = -104°16'49.70" (-104.280473°) STATE PLANE NAD 83 (N.M. EAST) N: 492930.80' E: 557504.31' STATE PLANE NAD 27 (N.M. EAST) N: 492871.87' E: 516322.91'



N: 492872.38' E: 516412.92

	NA
	LA
0686°)	LO
	NA
	LA'
)182°)	LO
	ST
	N: 4
	ST
	N: 4

NAD 83 (LEASE CROSSING)
LATITUDE = 32°21'18.30" (32.355084°)
LONGITUDE = -104°16'20.68" (-104.272412°)
NAD 27 (LEASE CROSSING)
LATITUDE = 32°21'17.88" (32.354967°)
LONGITUDE = -104°16'18.87" (-104.271908°)

STATE PLANE NAD 83 (N.M. EAST) N: 492916.81' E: 560149.25' STATE PLANE NAD 27 (N.M. EAST) N: 492857.83' E: 518967.81'

S C A L E NAD 83 (LTP/BHL) LATITUDE = 32°21'17.80" (32.354946°)

Distances referenced on plat to section lines are perpendicular. Basis of Bearings is a Transverse

represent oil & gas leases.

Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) Colored areas within section lines

NOTE

NAD 83 (LTP/BHL)

LATITUDE = 32°21'17.80" (32.354946°)

LONGITUDE = 104°14'48.37" (-104.246771°

NAD 27 (LTP/BHL)

LATITUDE = 32°21'17.38" (32.354828°)

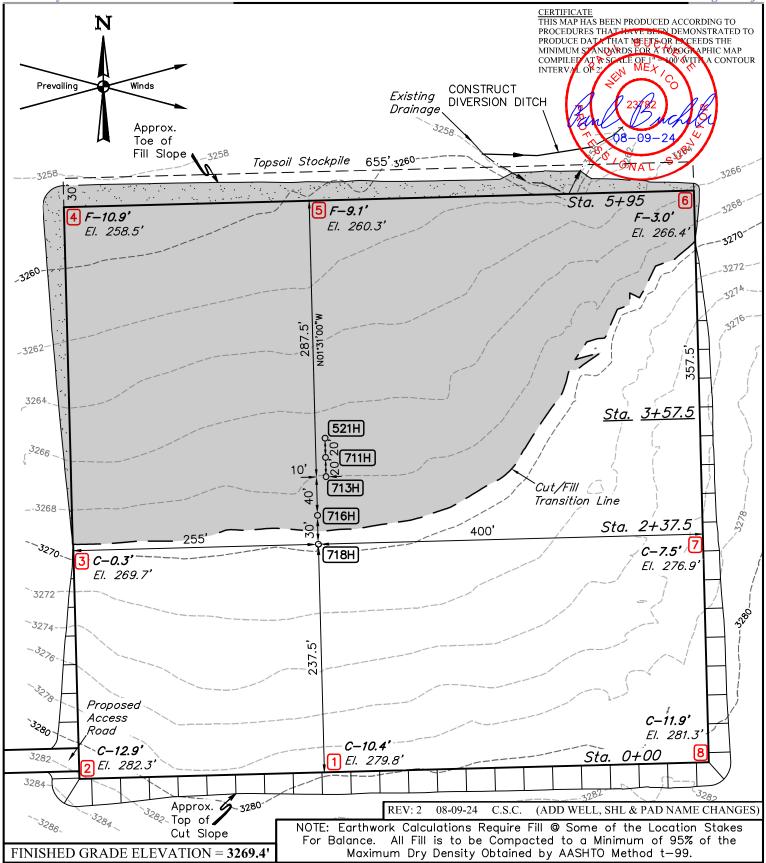
LONGITUDE = -104°14'46.56" (-104.246268°

STATE PLANE NAD 83 (N.M. EAST)

N: 492871.89' E: 568066.9'

STATE PLANE NAD 27 (N.M. EAST)

N: 492812.75' E: 526885.42'



NOTES:

Contours shown at 2' intervals.

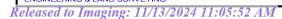
- Cut/Fill slopes 2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Construct diversion ditches as needed.

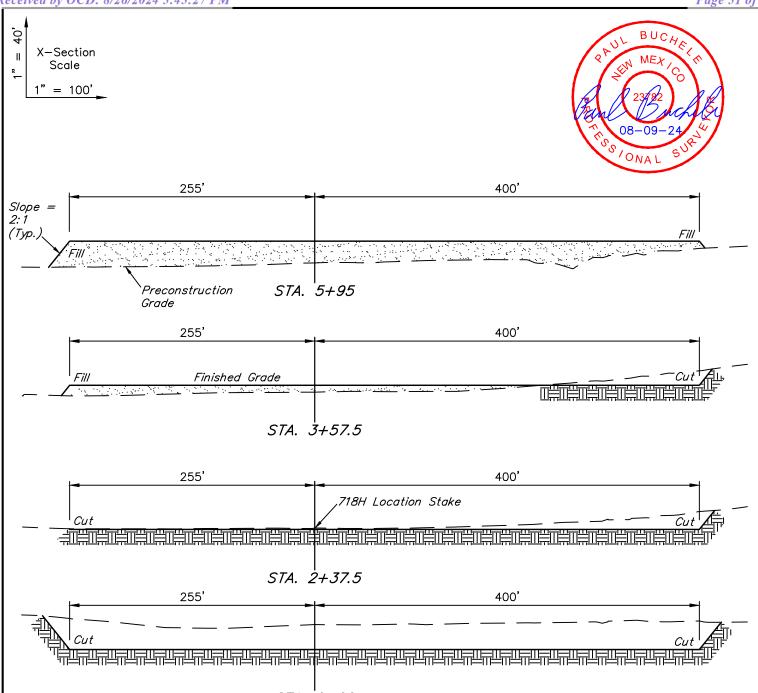
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	S.L., M.D.	05-23-22	SCALE	
DRAWN BY	T.J.S.	02-20-23	1" = 100'	
LOCATION LAYOUT				





STA. 0+00

APPROXIMATE EARTHWORK QUANTITIES		
(4") TOPSOIL STRIPPING	5,380 Cu. Yds.	
REMAINING LOCATION	38,590 Cu. Yds.	
TOTAL CUT	43,970 Cu. Yds.	
FILL	38,590 Cu. Yds.	
EXCESS MATERIAL	5,380 Cu. Yds.	
TOPSOIL	5,380 Cu. Yds.	
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.	

APPROXIMATE SURFACE DISTURBANCE AREAS				
	DISTANCE	ACRES		
WELL SITE DISTURBANCE	NA	± 10.148		
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±1,491.51'	±1.027		
30' WIDE GAS PIPELINE R-O-W DISTURBANCE	±2316.89'	±1.596		
TOTAL SURFACE USE AREA	±12.771			

REV: 2 08-09-24 C.S.C. (ADD WELL, SHL & PAD NAME CHANGES)

NOTES:

• Fill quantity includes 5% for compaction.

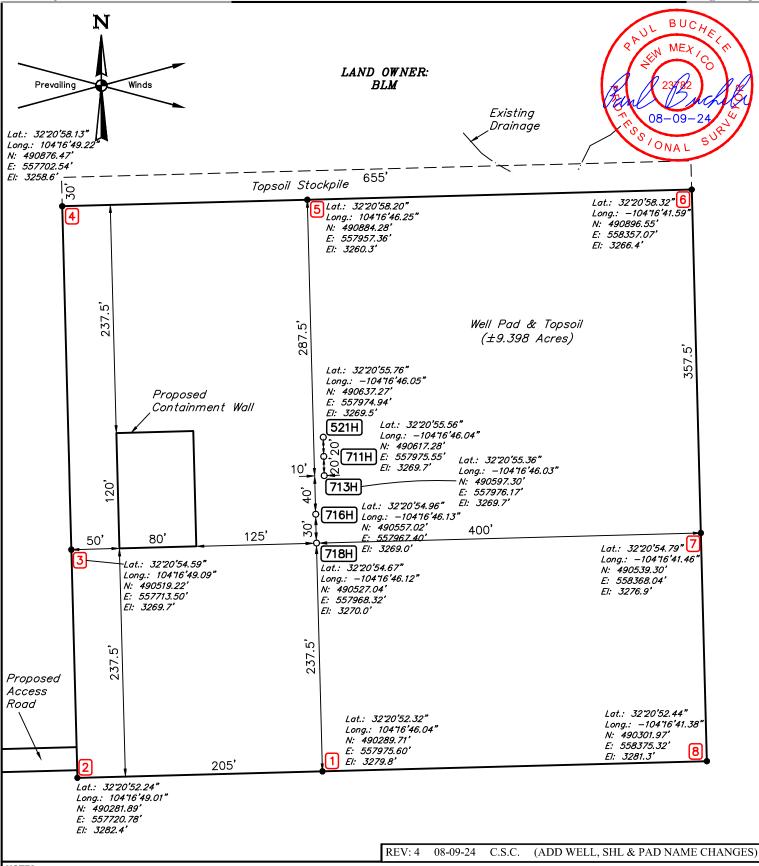
JINTAH

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	S.L., M.D.	05-23-22	SCALE	
DRAWN BY	T.J.S.	02-20-23	AS SHOWN	
TYPICAL CROSS SECTIONS				



NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

Latitude and Longitude Coordinates shown are NAD 83.

Coordinates shown are New Mexico Coordinate System of 1983, East Zone, U.S. Feet.

MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO





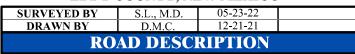
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION FROM CARLSBAD, NEW MEXICO ALONG CANAL ST. APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND NATIONAL PARKS HWY. TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND HIDALGO ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN RUBBLE LANE TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 1,492' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 8.0 MILES.

REV: 5 08-09-24 C.S.C. (PAD NAME CHANGES)

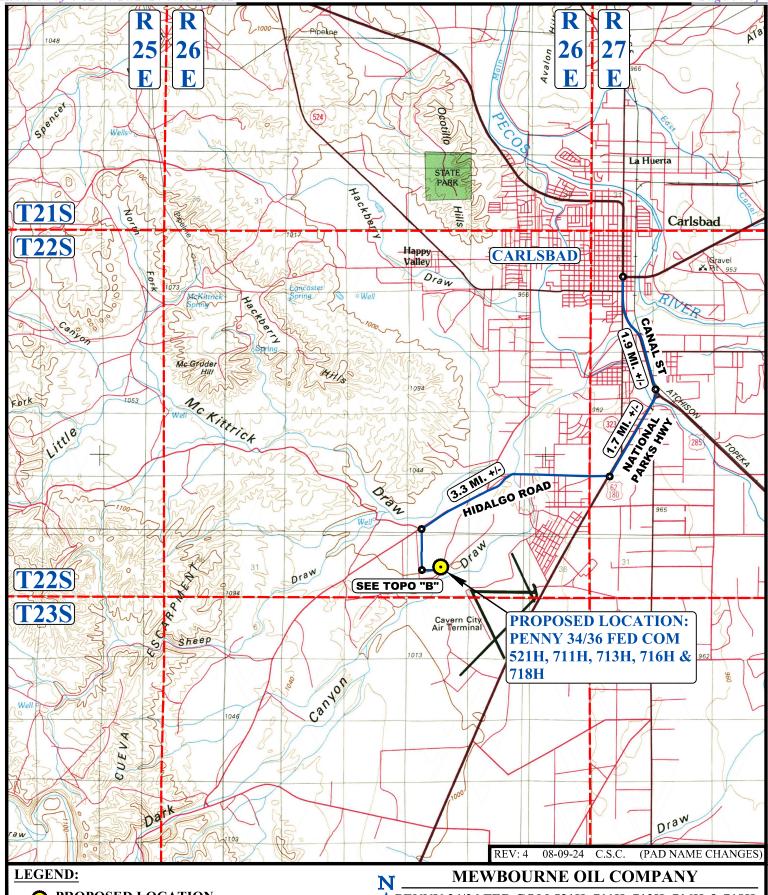
MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO





UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017



PROPOSED LOCATION



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	S.L., M.D.	05-23	3-22	SCALE
DRAWN BY	D.M.C.	12-21	1-21	1:100,000
ACCESS R	ACCESS ROAD MAP		T	OPO A



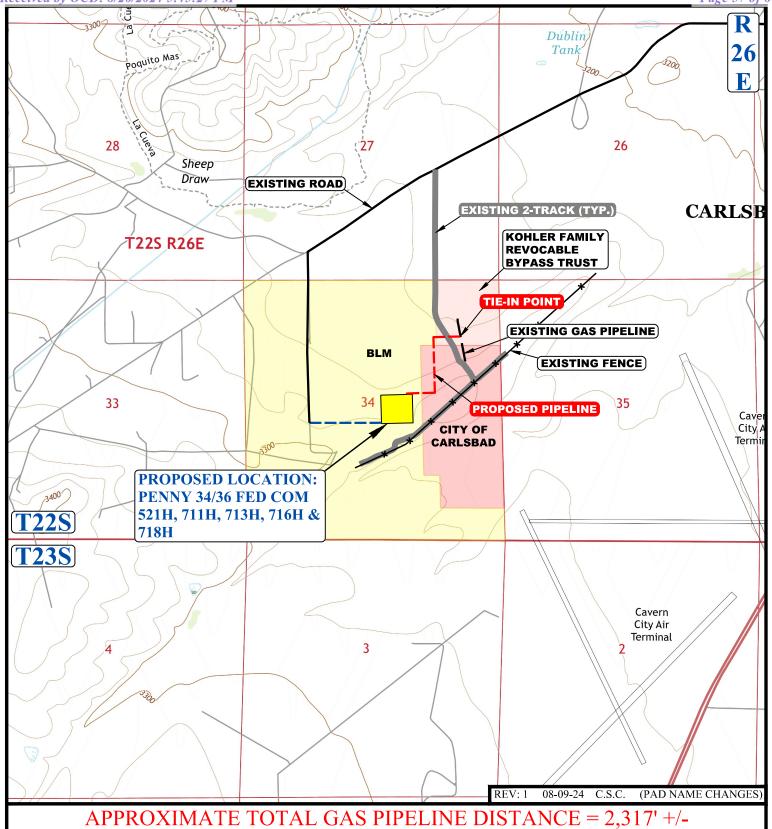
Vernal, UT 84078 * (435) 789-1017

DRAWN BY	D.M.C.	12-21-2	_	1:12,000 OPO B
SURVEYED BY	S.L., M.D.	05-23-2		SCALE



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

DRAWN BY	D.M.C.	12-2	1-21	1:36,000
WELL PROXIMITY MAP		\Box	OPO C	



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

N



LEGEND:

EXISTING ROAD
EXISTING 2-TRACK
EXISTING PIPELINE
PROPOSED PIPELINE
EXISTING FENCE
PROPOSED ROAD

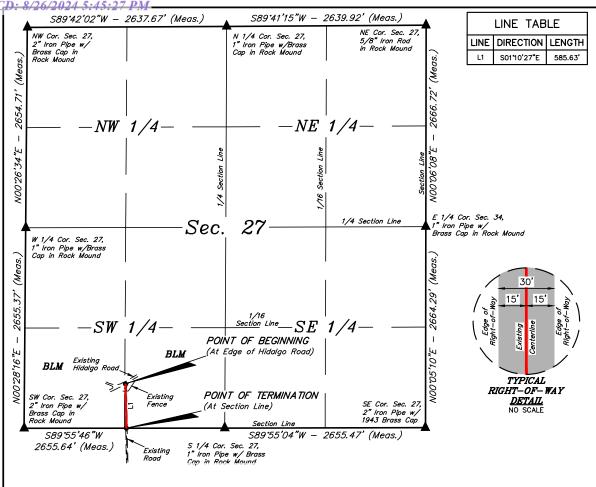
UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H NW 1/4 SE 1/4 & SW 1/4 NE 1/4, SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., T.P.	07-08-22	SCALE
DRAWN BY	A.T.	07-12-22	1:24,000
PIPELI	PIPELINE MAP		OPO D

Released to Imaging: 11/13/2024 11:05:52 AM



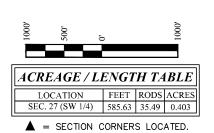
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 27, T22S, R26E, N.M.P.M.; THENCE N89'55'46"E 2655.64' ALONG THE SOUTH LINE OF THE SW 1/4 OF SAID SECTION 27 TO THE SOUTH 1/4 CORNER OF SAID SECTION 27; THENCE N66'02'50"W 1438.24" TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 27 AND THE POINT OF BEGINNING; THENCE S01'10'27"E 585.63' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S89'55'46"W 1302.38' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.403 ACRES MORE OR LESS.

EXISTING ROAD RIGHT-OF-WAY DESCRIPTION

POINT OF BEGINNING BEARS N66°02'50"W 1438.24' FROM THE SOUTH 1/4 CORNER OF SECTION 27, T22S, R26E, N.M.P.M.

POINT OF TERMINATION BEARS S89°55'46"W 1302.38' FROM THE SOUTH 1/4 CORNER OF SECTION 27, T22S, R26E, N.M.P.M.



CERTIFICATE THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE ACTUAL DUPON WHICH IT IS BASED WERE PERFORMED BY M. OR UNDER MY DIRECT SUBJECTIVE THAT I AMERICAN SIDE FOR THIS SURVEY, THE THIS SURVEY MEETS THE MINIMUM ISTANDARDS PERSURVEY WE HAVE THE SURVEY. THE SURVEY WE WENT THE SURVEY WE WENT TO THE SURVEY WE SURVEY WE WENT TO THE SURVEY WENT TO THE 08-09

Sheet 1 of 2

REV: 2 08-09-24 C.S.C. (PAD NAME CHANGES)

NOTES:

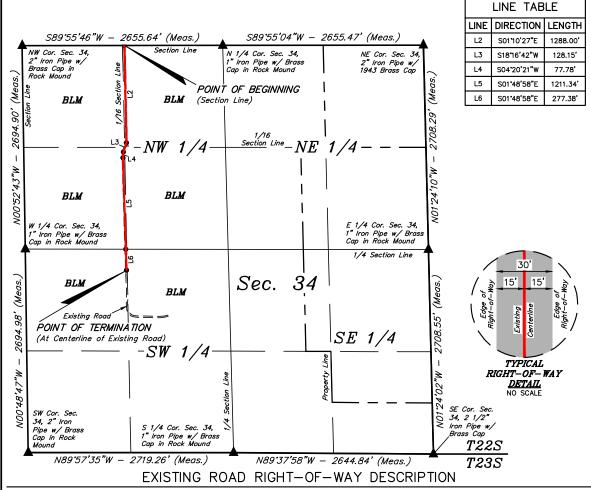
Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

MEWBOURNE OIL COMPANY N PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H ON BLM LANDS IN
SECTION 27, T22S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO SURVEYED BY 05-23-22 **SCALE** DRAWN BY

EXISTING ROAD R-O-W

P-2015 -

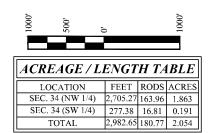


A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTHWEST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE N59'55'46"E 2655.64' ALONG THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 34 TO THE NORTH 1/4 CORNER OF SAID SECTION 34; THENCE S89'55'46"W 1302.38' ALONG THE NORTH LINE OF THE NE 1/4 NW 1/4 TO THE POINT OF BEGINNING; THENCE S01'10'27"E 1288.00'; THENCE S18'16'42"W 128.15'; THENCE S04'20'21"W 77.78'; THENCE S01'48'58"E 1211.34' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 NW 1/4 OF SAID SECTION 34, THENCE CONTINUING S01'48'58"E 277.38' TO A POINT IN THE NW 1/4 SW 1/4 OF SAID SECTION 34 AND THE POINT OF TERMINATION, WHICH BEARS S78'14'46"E 1368.12' FROM THE WEST 1/4 CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT—OF—WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 2.054 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S89'55'46"W 1302.38' FROM THE NORTH 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.

POINT OF TERMINATION BEARS \$78*14'46"E 1368.12' FROM THE WEST 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.



= SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND
THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT
IS BASED WERE PERFORMID BY M. OR UNDER MY
DIRECT SUPPRISION. THAT I AWRESTONSIBLE FOR
THIS SURVEY, THAT THIS SURVEY, MICE THE
MINIMUM STANDARDS FOR TURVAY MO IN NEW
MEXICO, AND HEAVILE THE SURVEY AND IN NEW
BEST OF MY INOWIFICE AND CORRECT TO THE
BEST OF MY INOWIFICE AND BELLIF.

23/32

108-09-24

Sheet 2 of 2

REV: 2 08-09-24 C.S.C. (PAD NAME CHANGES)

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103*53'00" (NAD 83)

Z

MEWBOURNE OIL COMPANY

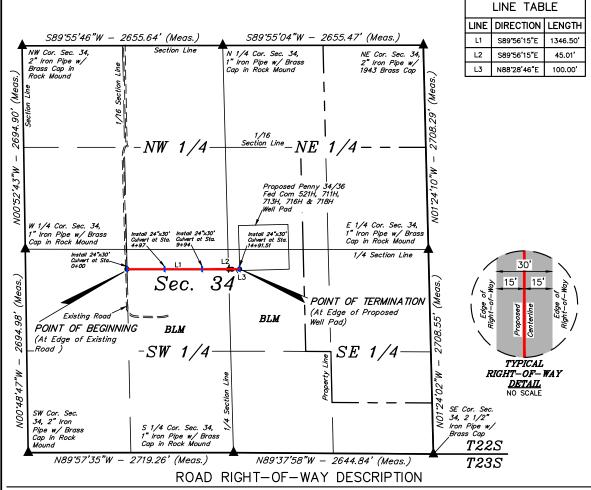
PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H
ON BLM LANDS IN
SECTION 34, T22S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

 SURVEYED BY
 S.L., M.D.
 05-23-22
 SCALE

 DRAWN BY
 Z.L.
 05-25-22
 1" = 1000'

 FILE
 P-2015 - B1
 EXISTING ROAD
 R-O-W

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

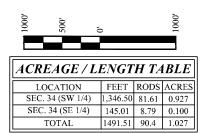


A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTHWEST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE S00'52'43"E 2694.90' ALONG THE WEST LINE OF THE NW 1/4 OF SAID SECTION 34 TO THE WEST 1/4 CORNER OF SAID SECTION 34; THENCE S78'55'08"E 1372.04' TO A POINT IN THE NE 1/4 SW 1/4 OF SAID SECTION 34 AND THE POINT OF BEGINNING; THENCE S89'56'15"E 1346.50' TO A POINT ON THE EAST LINE OF THE NE 1/4 SW 1/4 OF SAID SECTION 34, THENCE CONTINUING S89'56'15"E 45.01'; THENCE N88'28'46"E 100.00' TO A POINT IN THE NW 1/4 SE 1/4 OF SAID SECTION 34 AND THE POINT OF TERMINATION, WHICH BEARS S84'07'56"W 2511.30' FROM THE EAST 1/4 CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.027 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S78'55'08"E 1372.04' FROM THE WEST 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.

POINT OF TERMINATION BEARS \$84°07'56"W 2511.30' FROM THE EAST 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.



▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE PROUND UPON WHICH IT IS BASED WEEP PERFORMINED WAS OR UNDER MY DIRECT SUPPLYSION. THAT I AWRESTONSIBLE FOR THIS SURVEY, THAT THIS SURVEY, MICE THE MINIMUM STANDARDS WERE ARROWNED IN NEW MEXICA, AND HEAVILED THE SURVEY WAS ON NEW MEXICA, AND HEAVILED THE SURVEY SURVEY TO THE BEST OF MY ENOWLEDGE AND BELLIF.

23/82

08-09-24

REV: 5 08-09-24 C.S.C. (PAD NAME CHANGES)

NOTES:

The maximum grade of existing ground for the proposed access road is ±1.0%.

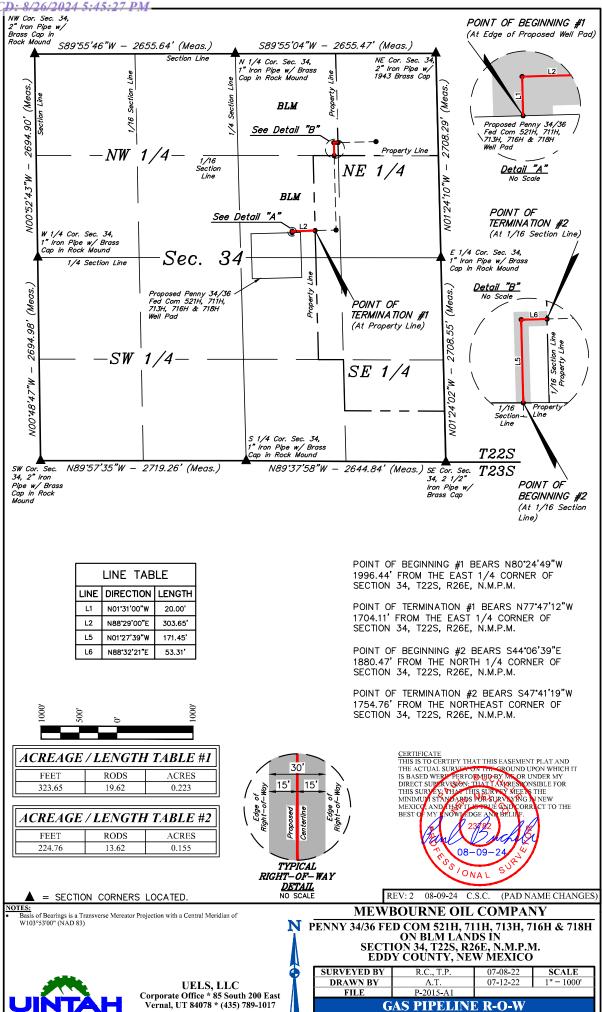
Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017 MEWBOURNE OIL COMPANY
PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H
ON RI M LANDS IN

ON BLM LANDS IN SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	S.L., M.D.	05-23-22	SCALE
DRAWN BY	T.W.	01-11-22	1" = 1000'
FILE	P-2015 - A1		
ACCESS ROAD R-O-W			



GAS PIPELINE #1 RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTHEAST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE S01'24'10"E 2708.29' ALONG THE EAST LINE OF THE NE 1/4 OF SAID SECTION 34 TO THE EAST 1/4 CORNER OF SAID SECTION 34; THENCE N80'24'49"W 1996.44' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF BEGINNING; THENCE N01'31'00"W 20.00'; THENCE N88'29'00"E 303.65' TO A POINT ON THE EAST PROPERTY LINE OF BLM LANDS IN THE SW 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF TERMINTATION, WHICH BEARS N77'47'12"W 1704.11' FROM THE EAST 1/4 CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.223 ACRES MORE OR LESS.

GAS PIPELINE #2 RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTHEAST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE S89'55'04"W 2655.47' ALONG THE NORTH LINE OF THE NE 1/4 OF SAID SECTION 34 TO THE NORTH 1/4 CORNER OF SAID SECTION 34; THENCE S44'06'39"E 1880.47' TO A POINT ON THE SOUTH LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF BEGINNING; THENCE NO1'27'39"W 171.45'; THENCE N88'32'32"E 53.31' TO A POINT ON THE EAST LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 34, WHICH BEARS S47'41'19"W 1754.76' FROM THE NORTHEAST CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.155 ACRES MORE OR LESS.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY MA OR UNDER MY DIRECT SUBPRYSION. THAT TAMKES ONSIBLE FOR THIS SURVEY, THAT THE SURVEY MEETS THE MINIMUS STANDARDS PRESURVAY MEETS THE MINIMUS STANDARDS PRESURVAY MEETS THE BEST OF MY ENONWEDGE AND BELLIF.

23782

08-09-24

08-09-24

08-09-24

REV: 2 08-09-24 C.S.C. (PAD NAME CHANGES)

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

MEWBOURNE OIL COMPANY

N PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H ON BLM LANDS IN SECTION 34, T22S, R26E, N.M.P.M. EDDY COUNTY, NEW MEXICO

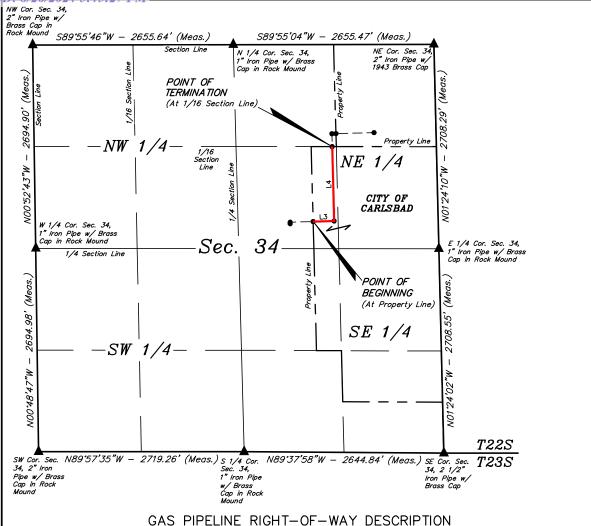
 SURVEYED BY
 R.C., T.P.
 07-08-22
 SCALE

 DRAWN BY
 A.T.
 07-12-22
 1" = 1000'

 FILE
 P-2015-A2
 The control of the



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017



A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTHEAST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE S01'24'10"E 2708.29' ALONG THE EAST LINE OF THE NE 1/4 OF SAID SECTION 34 TO THE EAST 1/4 CORNER OF SAID SECTION 34; THENCE N77'47'12"W 1704.11' TO A POINT ON THE WEST PROPERTY LINE OF CITY OF CARLSBAD LANDS IN THE SW 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF BEGINNING; THENCE N88'29'00"E 277.91', THENCE N01'27'39"W 985.96' TO A POINT ON THE NORTH LINE OF THE SW 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF TERMINATION, WHICH BEARS S44'06'39"E 1880.47' FROM THE NORTH 1/4 CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.870 ACRES MORE OR LESS.

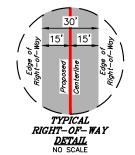


POINT OF BEGINNING BEARS N77*47'12"W 1704.11' FROM THE EAST 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.

POINT OF TERMINATION BEARS S44'06'39"E 1880.47' FROM THE NORTH 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.



ACREAGE / LENGTH TABLE			
FEET	RODS	ACRES	
1263.87	76.60	0.870	





REV: 2 08-09-24 C.S.C. (PAD NAME CHANGES)

SECTION CORNERS LOCATED.

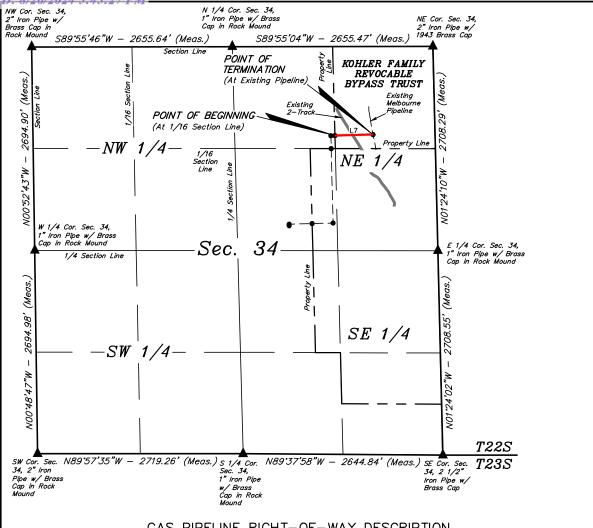
NOTES:
 Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)



MEWBOURNE OIL COMPANY

PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H
ON CITY OF CARLSBAD LANDS IN
SECTION 34, T22S, R26E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., T.P.	07-08-22	SCALE		
DRAWN BY	A.T.	07-12-22	1" = 1000'		
FILE	P-2015-B				
GAS PIPELINE R-O-W					



GAS PIPELINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE EAST 1/4 CORNER OF SECTION 34, T22S, R26E, N.M.P.M.; THENCE NO1"24'10"W 2708.29' ALONG THE EAST LINE OF THE NE 1/4 OF SAID SECTION 34 TO THE NORTHEAST CORNER OF SAID SECTION 34; THENCE S47'41'19"W 1754.76' TO A POINT ON THE WEST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF BEGINNING; THENCE N88'32'21"E 504.61' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 34 AND THE POINT OF TERMINATION, WHICH BEARS S34'10'20"W 1412.17' FROM THE NORTHEAST CORNER OF SAID SECTION 34. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.348 ACRES MORE OR LESS.

> POINT OF BEGINNING BEARS S47*41'19"W 1754.76' FROM THE NORTHEAST CORNER OF SECTION 34, T22S, R26E, N.M.P.M.

LINE TABLE POINT OF TERMINATION BEARS \$3410'20"W 1412.17' FROM THE NORTHEAST CORNER OF SECTION 34, T22S, R26E, N.M.P.M. LINE DIRECTION LENGTH



ACREAGE / LENGTH TABLE FEET RODS ACRES 504.61 30.58 0.348

= SECTION CORNERS LOCATED.

15' 15' Proposed TYPICAL RIGHT-OF-WAY **DETAIL** NO SCALE

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE ACTUAL VICTOR WHICH IT IS BASED WERE "FEFFOR HID BY MOOR UNDER MY DIRECT SUPERVISION." THAT I AMERICAN SIBLE FOR THIS SURVEY, THAT THIS SURVEY WEEKS THE MINIMUM IS TANDARDS FOR SURVEY WE HAVE THE MENIMED AND HAVE THE SURVEY WE NOT THE MEDIT OF THE MENIMED AND HAVE THE SURVEY WE NOT TO THE MEDIT OF THE MEDIT O 08-09 ONAL

REV: 2 08-09-24 C.S.C. (PAD NAME CHANGES)

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

MEWBOURNE OIL COMPANY N PENNY 34/36 FED COM 521H, 711H, 713H, 716H & 718H ON KOHLER FAMILY REVOCABLE BYPASS TRUST LANDS IN SECTION 34, T22S, R26E, N.M.P.M.

EDDY COUNTY, NEW MEXICO SURVEYED BY

SCALE DRAWN BY 1'' = 1000'P-2015-**GAS PIPELINE R-O-W**



Sundry Request:

Mewbourne Oil Company request that the following change be made to the Gambino Federal Com #4H (API #30-015-54426):

- 1. Change name from Gambino Federal Com #4H to Penny 34/36 Fed Com #521H
- 2. Move BHL f/ 330' FNL & 2395' FWL to 330' FNL & 2619' FWL
- 3. Move SHL f/ 2617' FNL & 2249' FEL to 2627' FNL & 2239' FEL
- 4. Change producing formation target from Purple Sage; Wolfcamp to Cass Draw; Bone Spring.
- 5. Request a variance to perform break testing and offline cementing

See attached files: Updated plats, drlg program, cmt & csg design, Addinfo, & variances.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 378046

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	378046
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/13/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/13/2024
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	11/13/2024