AFMSS

U.S. Department of the Interior
Bureau of Land Management

*Application for Permit to Drill*

## APD Package Report

Date Printed:

| | |
|---|---|
| APD ID: | Well Status: |
| APD Received Date: | Well Name: |
| Operator: | Well Number: |

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Spec Documents: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 3 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 3 file(s)
  -- Other Facets: 1 file(s)
  -- Other Variances: 5 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 2 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 2 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 2 file(s)
  -- Recontouring attachment: 4 file(s)
  -- Other SUPO Attachment: 2 file(s)

- PWD Report
- PWD Attachments
  -- None

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- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-56947

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
|---|---|---|
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

| 25. Signature | Name *(Printed/Typed)* | Date |
|---|---|---|
| Title | | |
| Approved by *(Signature)* | Name *(Printed/Typed)* | Date |
| Title | Office | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

**Approval Date: 08/28/2026**

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## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



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**Approval Date: 08/28/2026**

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## Additional Operator Remarks

### Location of Well

0. SHL: SESW / 409 FSL / 1979 FWL / TWSP: 26S / RANGE: 35E / SECTION: 20 / LAT: 32.022649 / LONG: -103.391559 ( TVD: 0 feet, MD: 0 feet )

PPP: SENW / 1322 FNL / 2538 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.01789 / LONG: -103.389745 ( TVD: 9400 feet, MD: 11049 feet )

PPP: NENW / 100 FNL / 2539 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.021248 / LONG: -103.389749 ( TVD: 9400 feet, MD: 9705 feet )

PPP: NESW / 2643 FSL / 2537 FWL / TWSP: 26S / RANGE: 35E / SECTION: 29 / LAT: 32.014257 / LONG: -103.389741 ( TVD: 9400 feet, MD: 12371 feet )

BHL: LOT 3 / 0 FSL / 2308 FWL / TWSP: 26S / RANGE: 35E / SECTION: 32 / LAT: 32.000293 / LONG: -103.390463 ( TVD: 9400 feet, MD: 19722 feet )

## BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

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**PECOS DISTRICT**

**SURFACE USE**

**CONDITIONS OF APPROVAL**

| | |
|---|---|
| OPERATOR'S NAME: | Permian Resources Operating LLC |
| LEASE NO.: | NMNM125400 |
| COUNTY: | Lea County, New Mexico |

# El Campeon Fed Com MW

El Campeon Fed Com 3H





**Approval Date: 08/28/2026**

# TABLE OF CONTENTS

1.GENERAL PROVISIONS ..... 4
ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES ..... 4
RANGELAND RESOURCES ..... 4
1.1.1. Cattleguards ..... 4
1.1.2. Fence Requirement ..... 5
1.1.3. Livestock Watering Requirement ..... 5
NOXIOUS WEEDS ..... 5
1.3.1 African Rue (Peganum harmala) ..... 5
LIGHT POLLUTION ..... 5
1.1.4. Downfacing ..... 5
1.1.5. Shielding ..... 5
1.1.6. Lighting Color ..... 6
2.SPECIAL REQUIREMENTS ..... 6
WATERSHED ..... 6
1.1.7. Tank Battery ..... 6
1.1.8. Buried/Surface Line(s) ..... 6
1.1.9. Electric Line(s) ..... 6
1.1.10. Temporary Use Fresh Water Frac Line(s) ..... 6
WILDLIFE ..... 7
2.3.1 Lesser Prairie Chicken ..... 7
VISUAL RESOURCE MANAGEMENT ..... 7
2.5.1 VRM IV ..... 7
2.5.2 VRM III Facility Requirement ..... 8
3. CONSTRUCTION REQUIRENMENTS ..... 8
CONSTRCUTION NOTIFICATION ..... 8
TOPSOIL ..... 8
CLOSED LOOP SYSTEM ..... 8
FEDERAL MINERAL PIT ..... 8
WELL PAD & SURFACING ..... 8
EXCLOSURE FENCING (CELLARS & PITS) ..... 8
ON LEASE ACESS ROAD ..... 9
3.1.1 Road Width ..... 9
3.1.2 Surfacing ..... 9
3.1.3 Crowning ..... 9

3.1.4 Ditching ..... 9
3.1.5 Turnouts ..... 9
3.7.6 Drainage ..... 9
3.7.7 Public Access ..... 10
4.PIPELINES ..... 12
BURIED PIPELINES ..... 12
SURFACE PIPELINES ..... 14
OVERHEAD ELECTRIC LINES ..... 16
RANGLAND MITIGATION FOR PIPELINES ..... 17
4.5.1 Fence Requirement ..... 17
4.5.2 Cattleguards ..... 17
4.5.3 Livestock Watering Requirement ..... 17
5. PRODUCTION (POST DRILLING) ..... 18
WELL STRUCTURES & FACILITIES ..... 18
5.1.1 Placement of Production Facilities ..... 18
5.1.2 Exclosure Netting (Open-top Tanks) ..... 18
5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening ..... 18
5.1.4. Open-Vent Exhaust Stack Exclosures ..... 18
5.1.5. Containment Structures ..... 18
6. RECLAMATION ..... 18
6.1 ROAD AND SITE RECLAMATION ..... 19
6.2 EROSION CONTROL ..... 19
6.3 INTERIM RECLAMATION ..... 19
6.4 FINAL ABANDONMENT & RECLAMATION ..... 19
6.5 SEEDING TECHNIQUES ..... 20
6.6 SOIL SPECIFIC SEED MIXTURE ..... 20

# 1.GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

## RANGELAND RESOURCES

### 1.1.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.1.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.1.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

## NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

**1.3.1 African Rue (Peganum harmala)**

**Spraying:** The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

**Management Practices:** In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

## LIGHT POLLUTION

1.1.4. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.1.5. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.1.6. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

# 2.SPECIAL REQUIREMENTS

## WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

1.1.7. **Tank Battery**

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

1.1.8. **Buried/Surface Line(s)**

When crossing ephemeral drainages, the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons must be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences must be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars must be placed within the corridor to divert and dissipate surface runoff. A pipeline access road is not permitted to cross ephemeral drainages. Traffic must be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

1.1.9. **Electric Line(s)**

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

1.1.10. **Temporary Use Fresh Water Frac Line(s)**

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary pipeline into a permanent pipeline.

## WILDLIFE

### 2.3.1 **Lesser Prairie Chicken**

2.3.1.1 Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

2.3.1.2 Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

2.3.1.3 Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov.

#### 2.3.1.4 Raptor Nest Mitigation

Raptor Nest Mitigation (includes Burrowing Owls)

- A BLM Wildlife Biologist must be contacted by the operator prior to construction activities to determine if the raptor nest is active.
- Raptor nests on special, natural habitat features, such as trees, large brush, cliff faces and escarpments, will be protected by not allowing surface disturbance within up to 200 meters of nests or by delaying activity for up to 90 days, or a combination of both. Exceptions to this requirement for raptor nests will be considered if the nests expected to be disturbed are inactive, the proposed activity is of short duration (e.g. habitat enhancement projects, fences, pipelines), and will not result in continuing activity in proximity to the nest.
- Exhaust noise from pump jack engines, or other equipment, must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

## VISUAL RESOURCE MANAGEMENT

### 2.5.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

2.5.2 **VRM III Facility Requirement**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Low-profile tanks, pumpjacks, and production equipment etc. must be shorter than 8 feet.

# 3. CONSTRUCTION REQUIRENMENTS

## CONSTRCUTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

## TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

## CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

## FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

## WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

## EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

ON LEASE ACESS ROAD

### 3.1.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

### 3.1.2 Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

### 3.1.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

### 3.1.4 Ditching

Ditching shall be required on both sides of the road.

### 3.1.5 Turnouts

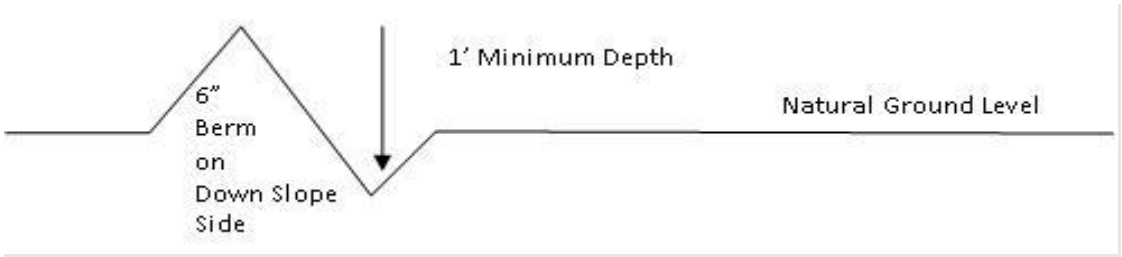
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### 3.7.6 Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

**Cross Section of a Typical Lead-off Ditch**



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

**Formula for Spacing Interval of Lead-off Ditches**

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$\text{400 foot road with 4\% road slope: } \frac{400'}{4} + 100' = 200' \text{ lead-off ditch interval}$$

3.7.7 **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





**Approval Date: 08/28/2026**

**Construction Steps**

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

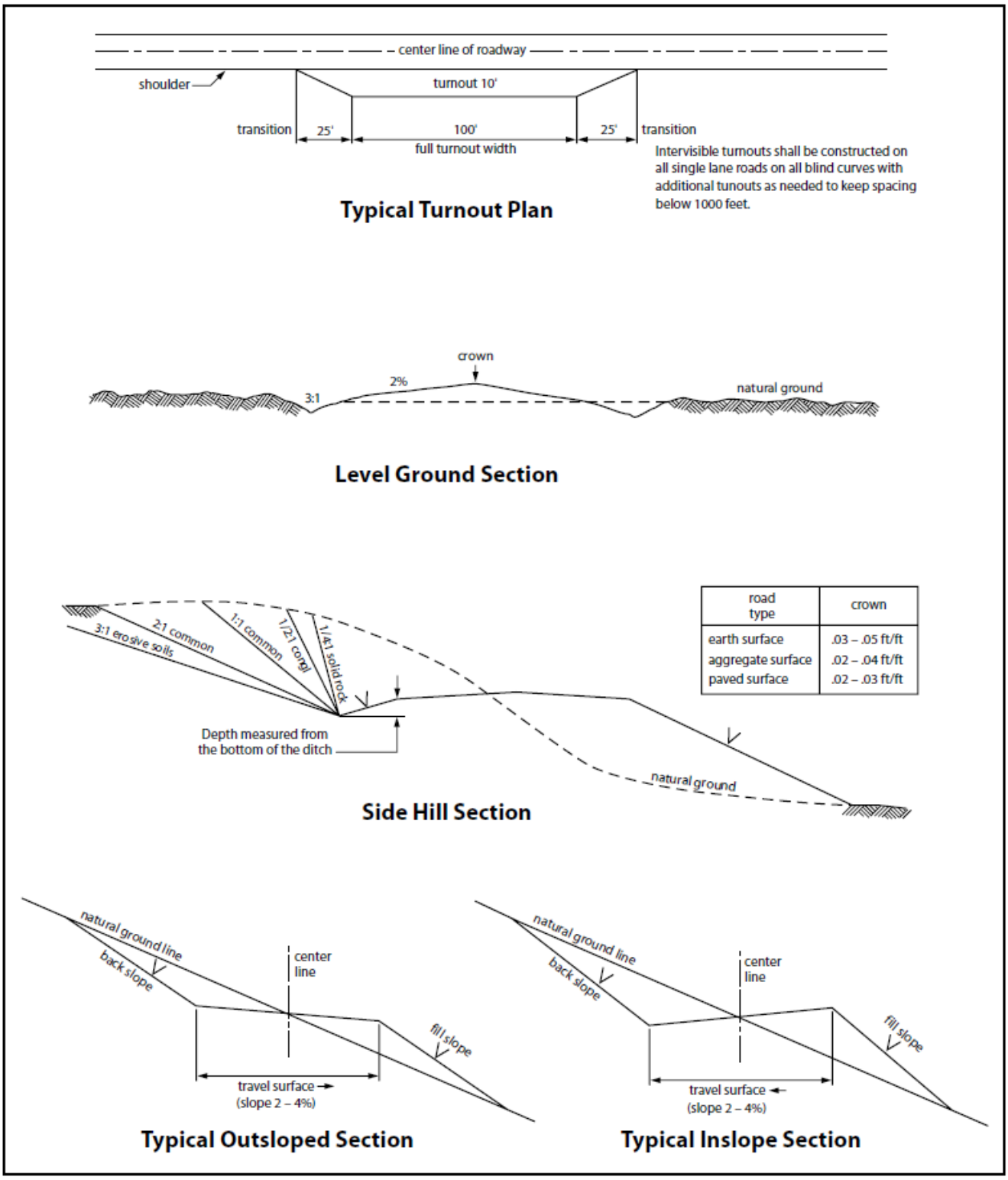



Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

# 4.PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

## BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized pipeline corridor.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:

   - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

   - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

   - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.

10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.

12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

13. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
    a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
    b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.




**Approval Date: 08/28/2026**

## SURFACE PIPELINES

**A copy of the APD and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.**

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.

2. Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the pipeline corridoror on facilities authorized under this APD (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to activity of the Operator's activity on the Pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This provision applies without regard to whether a release is caused by Operator, its agent, or unrelated third parties.

4. Operator shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Operator shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the pipeline corridor or permit area:

    a. Activities of Operator including, but not limited to: construction, operation, maintenance, and termination of the facility;

    b. Activities of other parties including, but not limited to:
        (1) Land clearing
        (2) Earth-disturbing and earth-moving work
        (3) Blasting
        (4) Vandalism and sabotage

    c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars ($1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant is discharged from the pipeline system, impacting Federal lands, the

control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Operator, regardless of fault. Upon failure of Operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as they deem necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Operator. Such action by the Authorized Officer shall not relieve Operator of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized pipeline corridor width of 30-feet. If the pipeline route follows an existing road or buried pipeline corridor, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline corridor. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or pipeline corridors.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Operator shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the operator will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the operator to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to

this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

16. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

## OVERHEAD ELECTRIC LINES

**A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.**

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

8. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
11. Special Stipulations:
    - For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

## RANGLAND MITIGATION FOR PIPELINES

### 4.5.1 **Fence Requirement**

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

### 4.5.2 **Cattleguards**

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

### 4.5.3 **Livestock Watering Requirement**

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the trench is excavated and replaced with minimal compaction) during the construction phase. Soft plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along the open trench to allow passage across the trench and provide a means of escape for livestock and wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

# 5. PRODUCTION (POST DRILLING)

## WELL STRUCTURES & FACILITIES

### 5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

### 5.1.2 **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

### 5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

### 5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

### 5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

# 6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

## 6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

## 6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

## 6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

## 6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

## 6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

## 6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

**Seed Mixture 2, for Sandy Site**

Species to be planted in pounds of pure live seed* per acre:

| Species | lb/acre |
|---|---|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

**Approval Date: 08/28/2026**

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# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | Permian Resources Operating LLC |
| **WELL NAME & NO.:** | El Campeon Federal Com 003H |
| **LOCATION:** | Sec 20-26S-35E-NMP |
| **COUNTY:** | Lea County, New Mexico |

**Create COAs**

| $H_2S$ | Cave / Karst | Waste Prevention Rule |
|---|---|---|
| Not Reported | Low | Waste Minimization Plan |

| Potash | R-111-Q Design |
|---|---|
| None | |

| Wellhead | Casing | Cementing |
|---|---|---|
| Multibowl | 3-String Well | ☐ DV Tool ☐ Bradenhead ☐ Echometer |
| ☑ Flex Hose | ☐ Liner ☑ Fluid Filled ☐ Casing Clearance | ☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole |
| ☑ Break Testing | | |

**Special Requirements**

☐ Capitan Reef ☐ Water Disposal ☑ COM ☐ Unit

**A. HYDROGEN SULFIDE**

Hydrogen Sulfide ($H_2S$) monitors shall be installed prior to drilling out the surface shoe. If $H_2S$ is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 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**

1. The **10-3/4** inch surface casing shall be set at approximately **1140** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
    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





**Approval Date: 08/28/2026**

and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including 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.

***Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.***

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall use one of the approved methods for cement verification located in the **General Requirements, Section A.1**.
   - If cement does not circulate to surface on the previous casing, this string must come to surface.

## C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

2. 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).

3. Break testing has been approved for this well ONLY on those intervals utilizing a 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.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.

a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
c. 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).
d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. 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.

## 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 3171 and 3172.
- 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.

**Offline Cementing**

Offline cementing has been approved for **all hole sections, excluding production.** Contact the BLM prior to the commencement of any offline cementing procedure.

# 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)

For multi-well pads, notifications for the following operations may be made together going from one well to the next. This does **NOT** apply to notifications for wells in the R111Q potash area:

- Casing run
- Offline cementing
- Break testing

**Contact Lea County Inspection Staff:**

Email **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; The inspector on call phone, 575-361-2822, will remain active as a secondary contact for notifications; calls only, text messages are not accepted at this number.

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 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 swell.
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 always be operational 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 & CEMENT

1. The current acceptable methods of cement verification are as follows:
    i. Observing cement circulated to surface,
    ii. Cement Bond Log (CBL),
    iii. Temperature log within 8-10 hours after completing the cement job,
    iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. 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.
3. 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.
4. 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.
5. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Well specific cement details must be onsite prior to pumping the cement for each casing string.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. If hard band 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.

9. 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. (This 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 -our 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 because of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.





**Approval Date: 08/28/2026**

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

# Operator Certification Data Report

09/08/2026

## Operator

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** JENNIFER ELROD **Signed on:** 06/23/2026

**Title:** Staff Regulatory Analyst

**Street Address:** 911 REGIONAL PARK DR

**City:** HOUSTON **State:** TX **Zip:** 77060

**Phone:** (940)452-6214

**Email address:** JELROD@NTGLOBAL.COM

## Field

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

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

# Application Data
09/08/2026

**APD ID:** 10400112703 **Submission Date:** 06/24/2026

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Section 1 - General

**APD ID:** 10400112703 **Tie to previous NOS?** N **Submission Date:** 06/24/2026

**BLM Office:** Carlsbad **User:** JENNIFER ELROD **Title:** Staff Regulatory Analyst

**Federal/Indian APD:** FED **Is the first lease penetrated for production Federal or Indian?** FED

**Lease number:** NMNM125400 **Lease Acres:** 600

**Surface access agreement in place?** **Allotted?** **Reservation:**

**Agreement in place?** NO **Federal or Indian agreement:**

**Agreement number:**

**Agreement name:**

**Keep application confidential?** Y

**Permitting Agent?** YES **APD Operator:** PERMIAN RESOURCES OPERATING LLC

**Operator letter of**

## Operator Info

**Operator Organization Name:** PERMIAN RESOURCES OPERATING LLC

**Operator Address:** 300 N MARIENFELD ST SUITE 1000 **Zip:** 79701

**Operator PO Box:**

**Operator City:** MIDLAND **State:** TX

**Operator Phone:** (432)695-4222

**Operator Internet Address:**

## Section 2 - Well Information

**Well in Master Development Plan?** NO **Master Development Plan name:**

**Well in Master SUPO?** NO **Master SUPO name:**

**Well in Master Drilling Plan?** NO **Master Drilling Plan name:**

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Field/Pool or Exploratory?** Field and Pool **Field Name:** WC-025 G-08 S263412K **Pool Name:** BONE SPRING

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Is the proposed well in an area containing other mineral resources?** NATURAL GAS,OIL

**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL **Multiple Well Pad Name:** EL CAMPEON FED COM **Number:** SESW 2

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** **Distance to nearest well:** 33 FT **Distance to lease line:** 100 FT

**Reservoir well spacing assigned acres Measurement:** 233.79 Acres

**Well plat:** EL_CAMPEON_FED_COM_3H_C102_FINAL_5_30_2026_20260730091651.pdf

**Well work start Date:** 11/01/2026 **Duration:** 30 DAYS

## Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83 **Vertical Datum:** NAVD88

**Survey number:** 12177 **Reference Datum:** GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHL Leg #1 | 409 | FSL | 1979 | FWL | 26S | 35E | 20 | Aliquot SESW | 32.022649 | -103.391559 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 134888 | 3174 | | | Y |
| KOP Leg #1 | 500 | FSL | 2529 | FWL | 26S | 35E | 20 | Aliquot SESW | 32.022898 | -103.389783 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 134888 | -5749 | 8955 | 8923 | Y |
| PPP Leg #1-1 | 100 | FNL | 2539 | FWL | 26S | 35E | 29 | Aliquot NENW | 32.021248 | -103.389749 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 125400 | -6226 | 9705 | 9400 | Y |

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPP Leg #1-2 | 1322 | FNL | 2538 | FWL | 26S | 35E | 29 | Aliquot SENW | 32.01789 | -103.389745 | LEA | NEW MEXICO | NEW MEXICO | F | FEE | -6226 | 11049 | 9400 | Y |
| PPP Leg #1-3 | 2643 | FSL | 2537 | FWL | 26S | 35E | 29 | Aliquot NESW | 32.014257 | -103.389741 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 125400 | -6226 | 12371 | 9400 | Y |
| EXIT Leg #1 | 0 | FSL | 2308 | FWL | 26S | 35E | 32 | Lot 3 | 32.000293 | -103.390463 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -6226 | 19722 | 9400 | Y |
| BHL Leg #1 | 0 | FSL | 2308 | FWL | 26S | 35E | 32 | Lot 3 | 32.000293 | -103.390463 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -6226 | 19722 | 9400 | Y |

CONFIDENTIAL

| C-102<br>Submit Electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONSERVATION DIVISION | Revised July 9, 2024<br>Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled |
|---|---|---|

WELL LOCATION INFORMATION

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-025-56947 | 96672 | WC-025 G-08 S263412K; Bone Spring |
| **Property Code** | **Property Name** | **Well Number** |
| 337197 | **EL CAMPEON FED COM** | **3H** |
| **OGRID No.** | **Operator Name** | **Ground Level Elevation** |
| **372165** | **PERMIAN RESOURCES OPERATING, LLC** | **3,174'** |

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal X | Mineral Owner X ☐ State X ☐ Fee ☐ Tribal X ☐ Federal

Surface Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| **N** | **20** | **26S** | **35E** | | **409' FSL** | **1,979' FWL** | **32.022649°** | **-103.391559°** | **LEA** |

State Line Crossing

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| **N** | **32** | **26S** | **35E** | **LOT 3** | **0' FSL** | **2,308' FWL** | **32.000293°** | **-103.390463°** | **LEA** |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 387.65 | Infill | 025-54602 | N | NSL,C |

Order Numbers. Pending | Well setbacks are under Common Ownership: ☒ Yes ☐ No X

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| **N** | **20** | **26S** | **35E** | | **500' FSL** | **2,629' FWL** | **32.022897°** | **-103.389460°** | **LEA** |

First Take Point (FTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| **C** | **29** | **26S** | **35E** | | **100' FNL** | **2,639' FWL** | **32.021248°** | **-103.389426°** | **LEA** |

Last Take Point (LTP), Bottom Hole Location (BHL)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

*LTP & BHL WILL BE IN TEXAS

| Unitized Area or Area of Uniform Interest | Spacing Unit Type ☒ Horizontal ☐ Vertical X | Ground Floor Elevation: |
|---|---|---|
| | | |

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of 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.

Jennifer Elrod 6/23/2026

Signature Date

Jennifer Elrod

Printed Name

jelrod@ntglobal.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

Date: 5/30/2026

Signature and Seal of Professional Surveyor

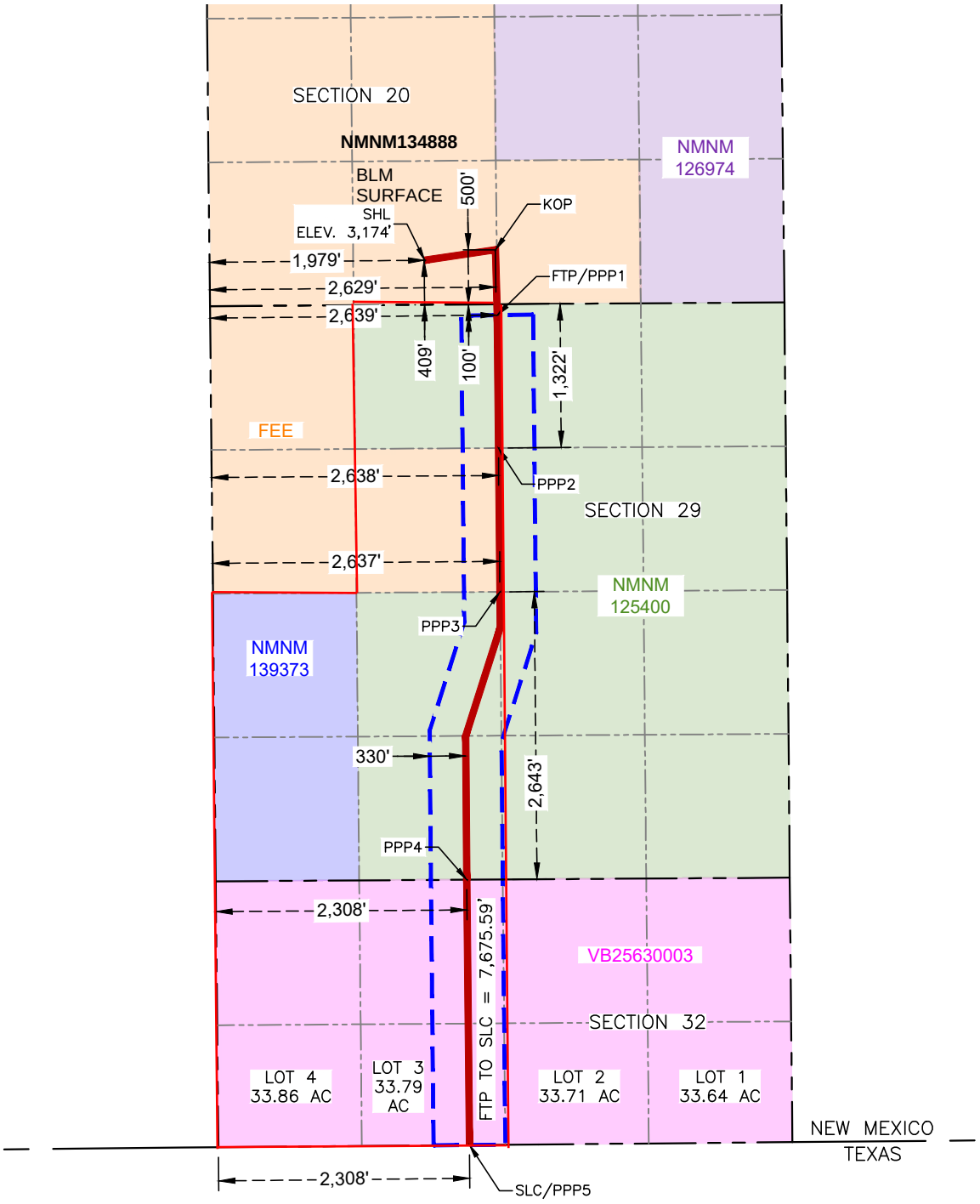
| Certificate Number | Date of Survey | Revision Number |
|---|---|---|
| 12177 | 5/30/2026 | 0 |

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.




SURFACE HOLE LOCATION
409' FSL & 1,979' FWL
ELEV. = 3,174'

NAD 83 X = 833,210.20'
NAD 83 Y = 373,250.40'
NAD 83 LAT = 32.022649°
NAD 83 LONG = -103.391559°
NAD 27 X = 792,021.87'
NAD 27 Y = 373,193.22'
NAD 27 LAT = 32.022522°
NAD 27 LONG = -103.391099°

KICK-OFF POINT
500' FSL & 2,629' FWL

NAD 83 X = 833,859.92'
NAD 83 Y = 373,346.54'
NAD 83 LAT = 32.022897°
NAD 83 LONG = -103.389460°
NAD 27 X = 792,671.59'
NAD 27 Y = 373,289.35'
NAD 27 LAT = 32.022771°
NAD 27 LONG = -103.389001°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 2,639' FWL

NAD 83 X = 833,875.81'
NAD 83 Y = 372,746.63'
NAD 83 LAT = 32.021248°
NAD 83 LONG = -103.389426°
NAD 27 X = 792,687.45'
NAD 27 Y = 372,689.46'
NAD 27 LAT = 32.021121°
NAD 27 LONG = -103.388966°

PENETRATION POINT 2
1,322' FNL & 2,638' FWL

NAD 83 X = 833,887.60'
NAD 83 Y = 371,524.93'
NAD 83 LAT = 32.017890°
NAD 83 LONG = -103.389423°
NAD 27 X = 792,699.19'
NAD 27 Y = 371,467.79'
NAD 27 LAT = 32.017763°
NAD 27 LONG = -103.388963°

PENETRATION POINT 3
2,643' FSL & 2,637' FWL

NAD 83 X = 833,900.36'
NAD 83 Y = 370,203.22'
NAD 83 LAT = 32.014256°
NAD 83 LONG = -103.389419°
NAD 27 X = 792,711.89'
NAD 27 Y = 370,146.12'
NAD 27 LAT = 32.014130°
NAD 27 LONG = -103.388959°

PENETRATION POINT 4
0' FSL & 2,308' FWL

NAD 83 X = 833,596.82'
NAD 83 Y = 367,558.47'
NAD 83 LAT = 32.006994°
NAD 83 LONG = -103.390472°
NAD 27 X = 792,408.23'
NAD 27 Y = 367,501.44'
NAD 27 LAT = 32.006868°
NAD 27 LONG = -103.390013°

STATE LINE CROSSING & PENETRATION POINT 5
0' FSL & 2,308' FWL

NAD 83 X = 833,620.96'
NAD 83 Y = 365,120.64'
NAD 83 LAT = 32.000293°
NAD 83 LONG = -103.390463°
NAD 27 X = 792,432.27'
NAD 27 Y = 365,063.68'
NAD 27 LAT = 32.000166°
NAD 27 LONG = -103.390004°

**EL CAMPEON FED COM 3H**

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

# Drilling Plan Data Report
09/08/2026

**APD ID:** 10400112703 **Submission Date:** 06/24/2026

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|---|---|---|---|---|---|---|---|
| 18781048 | RUSTLER | 2427 | 1030 | 1030 | SANDSTONE | USEABLE WATER | N |
| 18781065 | CASTILE | 887 | 1540 | 1540 | SALT | NONE | N |
| 18781049 | TOP SALT | 853 | 1574 | 1574 | SALT | NONE | N |
| 18781066 | BASE OF SALT | -493 | 2920 | 2920 | SALT | NONE | N |
| 18781053 | CHERRY CANYON | -3975 | 6402 | 6447 | SANDSTONE | NATURAL GAS, OIL | N |
| 18781055 | BRUSHY CANYON | -5430 | 7857 | 7902 | LIMESTONE, SHALE | NATURAL GAS, OIL | N |
| 18781056 | BONE SPRING | -6873 | 9300 | 9404 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | Y |
| 18781067 | WOLFCAMP | -10093 | 12520 | 12520 | SANDSTONE, SHALE, SILTSTONE | NATURAL GAS, OIL | N |

## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M **Rating Depth:** 10400

**Equipment:** BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. 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 of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermedicate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

**Requesting Variance?** YES

**Variance request:** Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.
**Testing Procedure:** Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed, b. whenever any seal subject to test pressure is broken, c. following related repairs, d. at 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

non-H2S scenarios and 150' from wellhead in H2S scenarios.

**Choke Diagram Attachment:**

5M_Choke_Manifold_20240621114516.pdf

**BOP Diagram Attachment:**

5M_BOP_20240621114521.pdf

## Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SURFACE | 13.5 | 10.75 | NEW | API | N | 0 | 1055 | 0 | 1055 | 3174 | 2119 | 1055 | J-55 | 45.5 | BUTT | 4.93 | 5.24 | DRY | 4.82 | DRY | 4.26 |
| 2 | INTERMEDIATE | 9.875 | 8.625 | NEW | NON API | N | 0 | 8855 | 0 | 8855 | 3533 | -5681 | 8855 | OTHER - P110 HSC | 32 | OTHER - MOFXL | 3.82 | 3.07 | DRY | 2.24 | DRY | 3.74 |
| 3 | PRODUCTION | 7.875 | 5.5 | NEW | NON API | N | 0 | 19722 | 0 | 9400 | 3533 | -6226 | 19722 | OTHER - P-110 RY | 17 | OTHER - BUSHMASTER SP | 1.68 | 2.15 | DRY | 2.69 | DRY | 2.69 |

**Casing Attachments**

**Casing ID:** 1 **String** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

El_Camp_Csg_Assumptions_20260727174337.pdf

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Casing Attachments**

**Casing ID:** 2 **String** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

8.625_P110_HSCY_MO_FXL_20260623134823.pdf

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

El_Camp_Csg_Assumptions_20260727174220.pdf

**Casing ID:** 3 **String** PRODUCTION

**Inspection Document:**

**Spec Document:**

5.500_x_20.00__P_110_RY_Bushmaster__SP_SC_95__RBW__SeAH_Pipe_Body__Data_Sheet_20260623132746.pdf

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

El_Camp_Csg_Assumptions_20260727174248.pdf

## Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Lead | | 0 | 840 | 330 | 1.88 | 12.9 | 620 | 100 | CLASS C | ECONOCEM-HLC + 5% SALT + 5% KOL-SEAL |
| SURFACE | Tail | | 840 | 1055 | 90 | 1.34 | 14.8 | 120 | 50 | Class C | ACCELERATOR |
| INTERMEDIATE | Lead | | 0 | 7080 | 630 | 1.88 | 12.9 | 1180 | 50 | CLASS C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| INTERMEDIATE | Tail | | 7080 | 88655 | 260 | 1.34 | 14.8 | 340 | 50 | CLASS C | Retarder |





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**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCTION | Lead | | 8355 | 8955 | 40 | 2.41 | 11.5 | 90 | 40 | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| PRODUCTION | Tail | | 8955 | 19722 | 1360 | 1.73 | 12.5 | 2340 | 25 | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |

**Additional Cementing Information:**

## Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Describe what will be on location to control well or mitigate other conditions:** Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

**Describe the mud monitoring system utilized:** Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

## Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1055 | SPUD MUD | 8.6 | 9.5 | | | | | | | |
| 1055 | 8855 | SALT SATURATED | 10 | 10 | | | | | | | |
| 8855 | 19722 | OIL-BASED MUD | 9 | 13.5 | | | | | | | |

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Will utilize MWD/LWD from intermediate hole to TD of the well

**List of open and cased hole logs run in the well:**

DIRECTIONAL SURVEY,

**Coring operation description for the well:**

N/A

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6600 **Anticipated Surface Pressure:** 4531

**Anticipated Bottom Hole Temperature(F):** 150

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

El_Campeon_H2S_20240816102229.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

EL_CAMPEON_FED_COM_3H_AC_20260727180421.pdf
EL_CAMPEON_FED_COM_3H_PLOT_20260727180421.pdf
EL_CAMPEON_FED_COM_3H_DD_20260727180421.pdf

**Other proposed operations facets description:**

WASTE MANAGEMENT PLAN

**Other proposed operations facets attachment:**

El_Camp_NGMP_20260623140239.pdf

**Other Variance request(s)?:** Y

**Other Variance attachment:**

El_Camp_BOP_Break_20240816102305.pdf
El_Camp_Batch_20240816102335.pdf

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

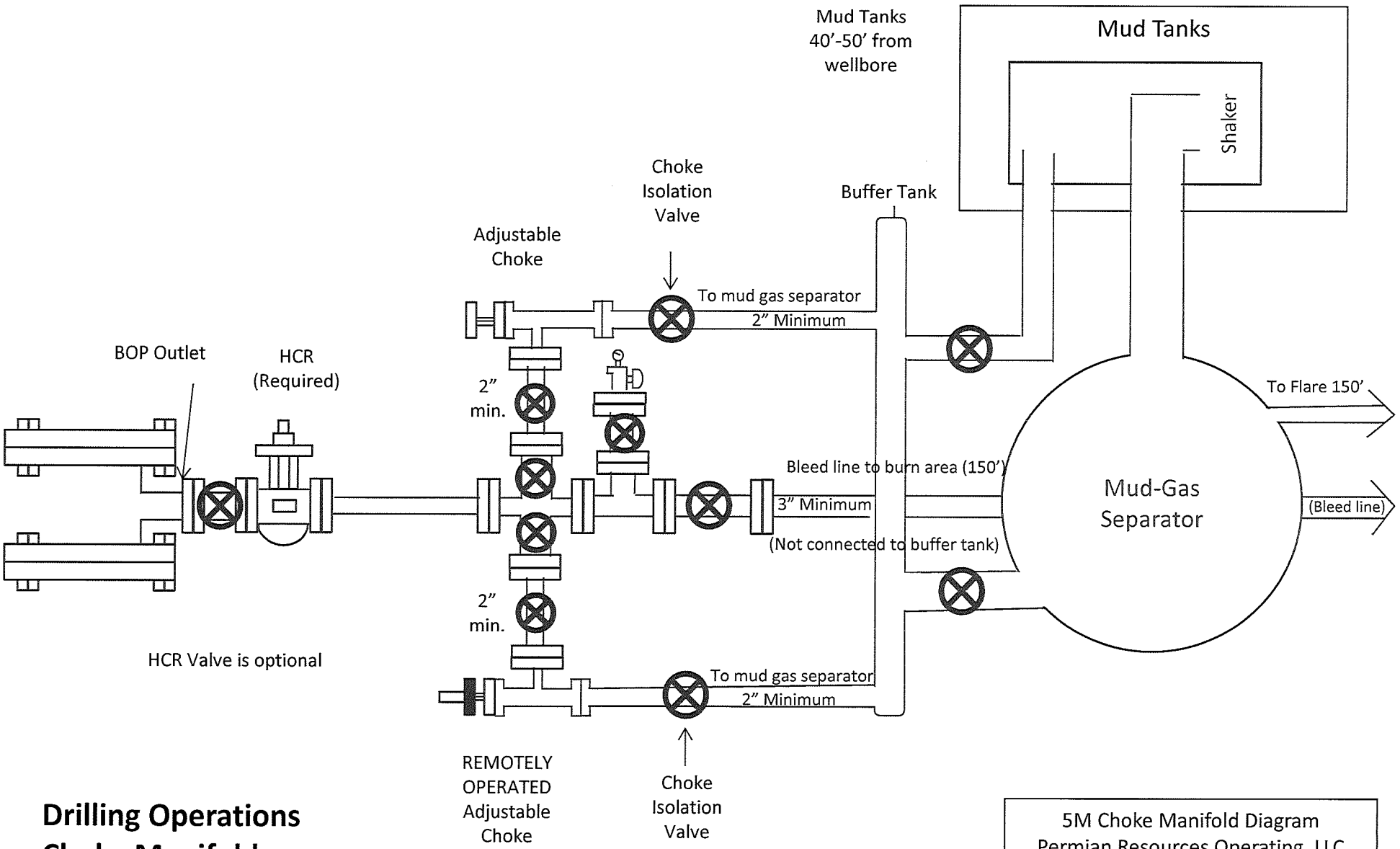
El_Camp_FH_20240816102352.pdf
El_Camp_MBS_20241126112435.pdf
El_Camp_OLCV_20240816102415.pdf

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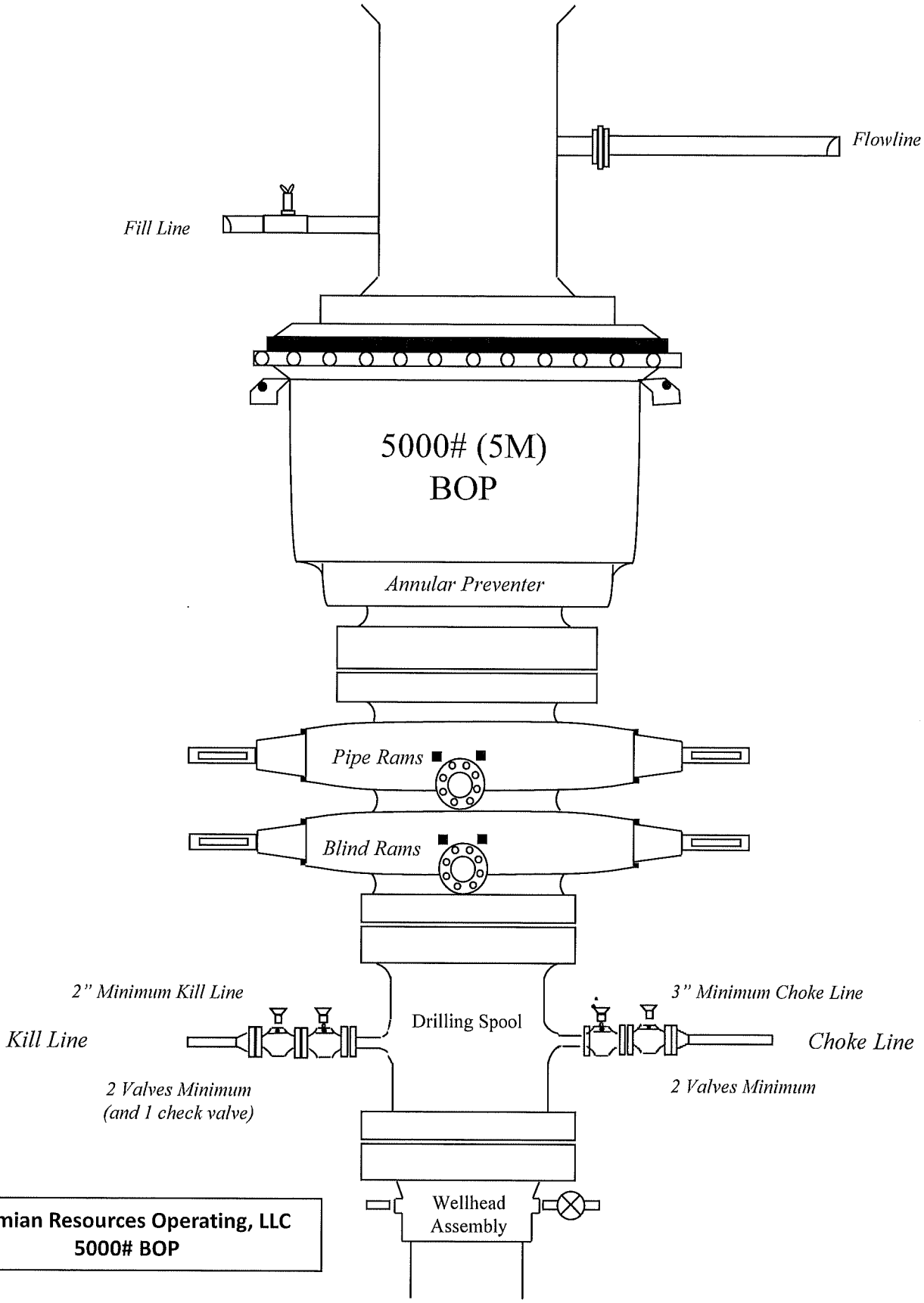
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Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.




**Drilling Operations**
**Choke Manifold**
**5M Service**

5M Choke Manifold Diagram
Permian Resources Operating, LLC




**Permian Resources Operating, LLC**
**5000# BOP**

Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.

Fermata Technologies

# 5.500 x 20.00# P-110 RY Bushmaster® SP SC 95% RBW (SeAH Pipe Body)

| Pipe Body Data | | |
|---|---|---|
| Nominal OD | 5.500 | Inches |
| Wall Thickness | 0.361 | Inches |
| Weight | 20.00 | lb/ft |
| PE Weight | 19.83 | lb/ft |
| Nominal ID | 4.778 | Inches |
| Drift | 4.653 | Inches |
| Minimum Yield Strength | 110,000 | PSI |
| Minimum Tensile Strength | 125,000 | PSI |
| RBW | 95.0% | Rating |

| Connection Data | | |
|---|---|---|
| Connection OD | 6.050 | Inches |
| Connection ID | 4.778 | Inches |
| Make-Up Loss | 4.209 | Inches |
| Tension Efficiency | 100% | Rating |
| Compression Efficiency | 100% | Rating |
| Yield Strength in Tension | 641,000 | LBS. |
| Yield Strength in Compression | 641,000 | LBS. |
| MIYP (Burst) | 13,720 | PSI |
| Collapse Pressure | 11,100 | PSI |
| Uniaxial Bending | 92 | º/100 FT |

| Make-Up Torques | | |
|---|---|---|
| Yield Torque | 46,600 | FT-LBS. |
| Max Operating Torque | 37,300 | FT-LBS. |
| Max Make-Up | 17,900 | FT-LBS. |
| Optimum Make-Up | 16,300 | FT-LBS. |
| Minimum Make-Up | 14,700 | FT-LBS. |

| Buck-On Torques | | |
|---|---|---|
| Max Buck-On | 19,900 | FT-LBS. |
| Optimum Buck-On | 18,300 | FT-LBS. |
| Minimum Buck-On | 16,700 | FT-LBS. |



**For Technical Support please email support@fermata-tech.com or call (281) 941-5257.** 1/25/2024

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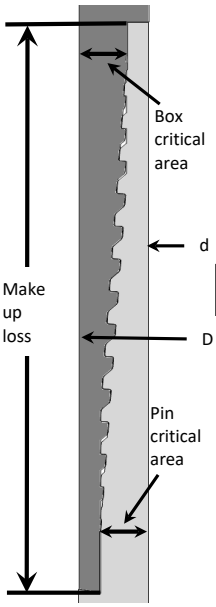
| Metal One Corp. | MO-FXL<br>*1 Pipe Body: BMP P110HSCY MinYS125ksi Min95%WT<br>Connection Data Sheet | CDS# | MO-FXL 8-5/8 32.0<br>P110HSCY<br>MinYS125ksi<br>Min95%WT |
|---|---|---|---|
| | | Date | 8-Sep-21 |

MO-FXL

## Geometry

### Pipe Body

| | Imperial | | S.I. | |
|---|---|---|---|---|
| Grade *1 | P110HSCY | | P110HSCY | |
| MinYS *1 | 125 | ksi | 125 | ksi |
| Pipe OD ( D ) | 8 5/8 | in | 219.08 | mm |
| Weight | 32.00 | lb/ft | 47.68 | kg/m |
| Actual weight | 31.10 | | 46.34 | kg/m |
| Wall Thickness ( t ) | 0.352 | in | 8.94 | mm |
| Pipe ID ( d ) | 7.921 | in | 201.19 | mm |
| Pipe body cross section | 9.149 | $in^2$ | 5,902 | $mm^2$ |
| Drift Dia. | 7.796 | in | 198.02 | mm |
| - | - | - | - | - |




### Connection

| | | | | |
|---|---|---|---|---|
| Box OD ( W ) | 8.625 | in | 219.08 | mm |
| PIN ID | 7.921 | in | 201.19 | mm |
| Make up Loss | 3.847 | in | 97.71 | mm |
| Box Critical Area | 5.853 | $in^2$ | 3686 | $mm^2$ |
| Joint load efficiency | 69 | % | 69 | % |
| Thread Taper | 1 / 10 ( 1.2" per ft ) | | | |
| Number of Threads | 5 TPI | | | |

## Performance

### Performance Properties for Pipe Body

| | | | | |
|---|---|---|---|---|
| S.M.Y.S. *1 | 1,144 | kips | 5,087 | kN |
| M.I.Y.P. *1 | 9,690 | psi | 66.83 | MPa |
| Collapse Strength *1 | 4,300 | psi | 29.66 | MPa |

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

*1: BMP P110HSCY: MinYS125ksi, Min95%WT, Collapse Strength 4,300psi

### Performance Properties for Connection

| | |
|---|---|
| Tensile Yield load | 789 kips ( 69% of S.M.Y.S. ) |
| Min. Compression Yield | 789 kips ( 69% of S.M.Y.S. ) |
| Internal Pressure | 6,780 psi ( 70% of M.I.Y.P. ) |
| External Pressure | 100% of Collapse Strength |
| Max. DLS ( deg. /100ft) | 29 |

### Recommended Torque

| | | | | |
|---|---|---|---|---|
| Min. | 13,600 | ft-lb | 18,400 | N-m |
| Opti. | 14,900 | ft-lb | 20,200 | N-m |
| Max. | 16,200 | ft-lb | 21,900 | N-m |
| Operational Max. | 28,400 | ft-lb | 38,500 | N-m |

Note : Operational Max. torque can be applied for high torque application

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The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

| String | Hole Size | Casing Size | Top | Bottom | Top TVD | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 13.5 | 10.75 | 0 | 1055 | 0 | 1055 | 1055 | J55 | 45.5 | BTC-SCC | 4.93 | 5.24 | Dry | 4.82 | Dry | 4.26 |
| Intermediate | 9.875 | 8.625 | 0 | 8855 | 0 | 8855 | 8855 | P110HSC | 32 | MOFXL | 3.82 | 3.07 | Dry | 2.24 | Dry | 3.74 |
| Production | 7.875 | 5.5 | 0 | 8355 | 0 | 9400 | 8355 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| Production | 7.875 | 5.5 | 8355 | 19722 | 9400 | 9400 | 11367 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| | | | | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

| String | Hole Size | Casing Size | Top | Bottom | Top TVD | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 13.5 | 10.75 | 0 | 1055 | 0 | 1055 | 1055 | J55 | 45.5 | BTC-SCC | 4.93 | 5.24 | Dry | 4.82 | Dry | 4.26 |
| Intermediate | 9.875 | 8.625 | 0 | 8855 | 0 | 8855 | 8855 | P110HSC | 32 | MOFXL | 3.82 | 3.07 | Dry | 2.24 | Dry | 3.74 |
| Production | 7.875 | 5.5 | 0 | 8355 | 0 | 9400 | 8355 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| Production | 7.875 | 5.5 | 8355 | 19722 | 9400 | 9400 | 11367 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| | | | | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

| String | Hole Size | Casing Size | Top | Bottom | Top TVD | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 13.5 | 10.75 | 0 | 1055 | 0 | 1055 | 1055 | J55 | 45.5 | BTC-SCC | 4.93 | 5.24 | Dry | 4.82 | Dry | 4.26 |
| Intermediate | 9.875 | 8.625 | 0 | 8855 | 0 | 8855 | 8855 | P110HSC | 32 | MOFXL | 3.82 | 3.07 | Dry | 2.24 | Dry | 3.74 |
| Production | 7.875 | 5.5 | 0 | 8355 | 0 | 9400 | 8355 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| Production | 7.875 | 5.5 | 8355 | 19722 | 9400 | 9400 | 11367 | P110RY | 20 | Bushmaster SP | 1.68 | 2.15 | Dry | 2.69 | Dry | 2.69 |
| | | | | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

PERMIAN RESOURCES

# $H_2S$ CONTINGENCY PLAN

*FOR*

## Permian Resources Corporation

## El Campeon Fed 111H, 121H, 151H

### Lea County, New Mexico

**07-02-2024**
**This plan is subject to updating**

# Table of Contents


***Section 1.0 – Introduction ..... 3***

I. Purpose
II. Scope & Applicability

***Section 2.0 - Plan Implementation.....3***

I. Activation Requirements
II. Emergency Evacuation
III. Emergency Response Activities

***Section 3.0 - Potential Hazardous Conditions.....4***

***Section 4.0 - Notification of H2S Release Event.....6***

I. Local & State Law Enforcement
II. General Public
III. New Mexico Oil Conservation Division
IV. New Mexico Environment Department
V. Bureau of Land Management

***Section 5.0 - Emergency Contact List.....7***

I. Permian Resources Management Personnel
II. Lea County Sheriff
III. New Mexico State Highway Patrol
IV. Fire / EMS
V. Lea County Hospital
VI. Emergency Response Contractors
VII. New Mexico Oil Conservation Division
VIII. New Mexico Environment Department
IX. Bureau of Land Management
X. Other Agencies

***Section 6.0 – Drilling Location Information.....9-12***

I. Site Safety Information
II. Directions to Location
III. Plat of Location including GPS Coordinates
IV. Routes of Ingress & Egress (MAP)
V. ROE Map
VI. Residences in ROE
VII. Public Roads in ROE

***Section 7.0 – Hazard Communication.....13-15***

I. Physical Characteristics of Hydrogen Sulfide Gas
II. Human Health Hazards / Toxicological Information
III. Environmental Hazards

***Section 8.0 - Regulatory Information.....15-17***

I. OSHA Information
II. New Mexico Oil Conservation Division & Bureau of Land Management

***Section 9.0 - Training Requirements.....17***

***Section 10.0 - Personal Protective Equipment.....18***

***Appendices***

I. Appendix A – $H_2S$ SDS
II. Appendix B – $SO_2$ SDS


***Section 1.0 – Introduction***

### *I. Purpose*

The purpose of this contingency plan (Plan) is to provide Permian Resources Corporation. (Permian Resources) with an organized plan of action for alerting and protecting Permian Resources employees, the general public, and any potential first responders prior to any intentional release or immediately following the accidental / unintentional release of a potentially hazardous volume / concentration of Hydrogen Sulfide Gas (H2S).

### *II. Scope & Applicability*

This Plan applies to all planned, unplanned, uncontrolled and/or unauthorized releases of hazardous concentrations of $H_2S$ or any associated hazardous byproducts of combustion, occurring at any Permian Resources owned or operated facilities including but not limited to: wells, flowlines, pipelines, tank batteries, production facilities, SWD facilities, compressor stations, gas processing plants, drilling / completions / workover operations, and any other applicable company owned property.

## *Section 2.0 - Plan Implementation*

### I. Activation Requirements

In accordance with the requirements of Bureau of Land Management Onshore Order #6 and NMAC 19.15.11, this Plan shall be activated in advance of any authorized, planned, unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of $H_2S$ gas, or $SO^2$, which could potentially adversely impact the workers, general public or the environment.

### II. Emergency Evacuation

In the event of an unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of $H_2S$ gas, the first priority is to ensure the safety of the workers and general public. Upon discovery and subsequent determination of an applicable release, which cannot be quickly mitigated, immediately by using 911, notify local authorities to begin the process of alerting the general public, evacuate any residents within the Radius of Exposure (ROE), and limit any general public or employee access to any areas within the ROE of the affected facility.

### III. Emergency Response Activities

The purpose of emergency response actions is to take steps to quickly mitigate / stop the ongoing release of the hazardous source of $H_2S$. Upon discovery of any hazardous release, immediately notify Permian Resources management to activate the Emergency Response Team (ERT). Once Permian Resources supervision arrives and assesses the situation, a work plan identifying the proper procedures shall be developed to stop the release.

## *Section 3.0 - Potential Hazardous Conditions & Response Actions*

During a planned or unplanned release of $H_2S$, there are several hazardous conditions that are presented both to employees, the general public, and emergency responders. These specific hazardous conditions are identified in the tables below.

| H2S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER | ✓ |
|---|---|
| **$H_2S$ CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH –> WARNING SIGN GREEN** | |
| **$H_2S$ concentration <10 ppm** detected by location monitors | ❑ |
| **General Actions During Condition 1** | ❑ |
| Notify Site Supervisor / Permian Resources Person-in-Charge (PIC) of any observed increase in ambient $H_2S$ concentrations | ❑ |
| All personnel check safety equipment is in adequate working order & store in accessible location | ❑ |
| Sensitize crews with safety meetings. | ❑ |
| Limit visitors and non-essential personnel on location | ❑ |
| Continuously monitor $H_2S$ concentrations and check calibration of sensors | ❑ |
| Ensure $H_2S$ scavenger is on location. | ❑ |
| **$H_2S$ CONDITION 2: MODERATE DANGER TO LIFE AND HEALTH → WARNING SIGN YELLOW** | |
| **$H_2S$ concentration >10 ppm and < 30 ppm** in atmosphere detected by location monitors: | ❑ |
| **General Actions During Condition 2** | ❑ |
| Sound $H_2S$ alarm and/or display yellow flag. | ❑ |
| Account for on-site personnel | ❑ |
| Upon sounding of an area or personal $H_2S$ monitor alarm when 10 ppm is reached, proceed to a safe briefing area upwind of the location immediately (see **MA-4**, **Figure 5-1**). | ❑ |
| Don proper respiratory protection. | ❑ |
| Alert other affected personnel | ❑ |
| **If trained and safe to do so** undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation. | ❑ |
| Account for on-site personnel at safe briefing area. | ❑ |
| Stay in safe briefing area if not working to correct the situation. | ❑ |
| Keep Site Supervisor / Permian Resources PIC informed.<br>Notify applicable government agencies **(Appendix A)**<br>If off-site impact; notify any neighbors within Radius of Exposure **(ROE)**, **Fig 5.11** | ❑ |
| Continuously monitor $H_2S$ until readings below 10 ppm. | ❑ |
| Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor. | |
| | |
| | |
| | |

| $H_2S$ CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED | |
|---|---|
| > **30 ppm $H_2S$** concentration in air detected by location monitors: Extreme danger to life | ❑ |
| **General Actions During Condition 3** | ❑ |
| Sound $H_2S$ alarm and/or display red flag. | ❑ |
| Account for on-site personnel | ❑ |
| Move away from $H_2S$ source and get out of the affected area. | ❑ |
| Proceed to designated safe briefing area; alert other affected personnel. | ❑ |
| Account for personnel at safe briefing area. | ❑ |
| If trained and safe to do so undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation. | ❑ |
| Notify vehicles or situation and divert all traffic away from location. | ❑ |
| Permian Resources Peron-in-Charge will make appropriate community notifications. | ❑ |
| Red warning flag must be on display until the situation has been corrected and the Permian Resources Person-in-Charge determines it is safe to resume operations under **Condition 1**. | ❑ |
| Notify management of the condition and action taken. If $H_2S$ concentration is increasing and steps to correct the situation are not successful – or at any time if well control is questionable – alert all responsible parties for possible activation of the $H_2S$ Contingency Plan. If well control at the surface is lost, determine if situation warrants igniting the well. | ❑ |
| If uncontrolled flow at the surface occurs, the Permian Resources PIC, with approval, if possible, from those coordinating the emergency **(as specified in the site-specific $H_2S$ Contingency Plan)** are responsible for determining if the situation warrants igniting the flow of the uncontrolled well. This decision should be made only as a last resort and in a situation where it is obvious that human life is in danger and there is no hope of controlling the flow under prevailing conditions. | ❑ |
| If the flow is ignited, burning $H_2S$ will be converted to sulfur dioxide ($SO_2$), which is also highly toxic. Do not assume that area is safe after the flow is ignited. If the well is ignited, evacuation of the area is mandatory, because $SO_2$ will remain in low-lying places under no-wind conditions. | ❑ |
| Keep Site Supervisor / Permian Resources PIC informed.<br>Notify applicable government agencies and local law enforcement **(Appendix A)**<br>If off-site impact; notify any neighbors within the Radius of Exposure **(ROE)**, see example in **Figure 5-11.** | ❑ |
| Continuously monitor $H_2S$ until readings fall below 10 ppm. | ❑ |
| Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor. | ❑ |
| **IF ABOVE ACTIONS CANNOT BE ACCOMPLISHED IN TIME TO PREVENT EXPOSURE TO THE PUBLIC** | |
| Alert public (directly or through appropriate government agencies) who may be subject to potentially harmful exposure levels. | ❑ |
| Make recommendations to public officials regarding blocking unauthorized access to the unsafe area and assist as appropriate. | ❑ |

| | |
|---|---|
| Make recommendations to public officials regarding evacuating the public and assist as appropriate. | ❑ |
| Monitor ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry. | ❑ |

***Section 4.0 - Notification of $H_2S$ Release Event***

**I. Local & State Law Enforcement**

Prior to the planned / controlled release of a hazardous concentration of $H_2S$ gas or any associated byproducts of the combustion of $H_2S$ gas, notify local law enforcement agencies regarding the contents of this plan.

In the event of the discovery of an unplanned/uncontrolled release of a hazardous concentration of $H_2S$ gas or any associated byproducts of combustion, immediately notify local and/or state law enforcement agencies of the situation and ask for their assistance.

**II. General Public**

In the event of a planned or unplanned release of a hazardous concentration of $H_2S$ gas or any associated byproducts of combustion, notify local law enforcement agencies and ask for their assistance in alerting the general public and limiting access to any public roads that may be impacted by such a release.

**III. New Mexico Oil Conservation Division**

The Permian Resources HSE Department will make any applicable notification to the New Mexico OCD regarding any release of a hazardous concentration of $H_2S$ Gas or any associated byproducts of combustion.

**IV. New Mexico Environment Department**

The Permian Resources HSE Department will make any applicable notifications to the NMED regarding any release of a hazardous concentration of $H_2S$ gas or any associated byproducts of combustion.

V. **Bureau of Land Management**

The Permian Resources Regulatory Department will make any applicable notifications to the BLM regarding any release of a hazardous concentration of $H_2S$ gas or any associated byproducts of combustion.

***Section 5.0 - Emergency Contact List***

| EMERGENCY CONTACT LIST |
|---|
| PERMIAN RESOURCES CORPORATION. |

| POSITION | NAME | OFFICE | CELL | ALT PHONE |
|---|---|---|---|---|
| **Operations** | | | | |
| Production Superintendent | Rick Lawson | | 432.530.3188 | |
| TX Production Superintendent | Josh Graham | 432.940.3191 | 432.940.3191 | |
| NM Production Superintendent | Manual Mata | 432.664.0278 | 575.408.0216 | |
| Drilling Manager | Jason Fitzgerald | 432.315.0146 | 318.347.3916 | |
| Drilling Engineer | Parker Simmons | 432.400.1038 | 281.536.9813 | |
| Production Manager | Levi Harris | 432.219.8568 | 720.261.4633 | |
| SVP Development Ops | Clayton Smith | 720.499.1416 | 361.215.2494 | |
| SVP Production Ops | Casey McCain | 432.695.4239 | 432.664.6140 | |
| **HSE & Regulatory** | | | | |
| H&S Manager | Adam Hicks | 720.499.2377 | 903.426.4556 | |
| Regulatory Manager | Stephanie Rabadue | | 432.260.4388 | |
| Environmental Manager | Montgomery Floyd | 432-315-0123 | 432-425-8321 | |
| | | | | |
| HSE Consultant | Blake Wisdom | | 918-323-2343 | |
| **Local, State, & Federal Agencies** | | | | |
| Lea County Sheriff | | 575-396-3611 | | 911 |
| New Mexico State Highway Patrol | | 505-757-2297 | | 911 |
| Eunice Fire / EMS | | 575-394-3258 | | 911 |
| Lea County Hospital | | 575-492-5000 | | |
| Secorp – Safety Contractor | Ricky Stephens | | (325)-262-0707 | |
| New Mexico Oil Conservation Division – District 1 Office – Hobbs, NM. | | 575-393-6161 | | |
| New Mexico Environment Department – District III Office – Hobbs, NM | | 575-397-6910 | | |
| New Mexico Oil Conservation Division – Hobbs, NM | 24 Hour Emergency | 575-393-6161 | | |
| Bureau of Land Management – Carlsbad, NM | | 575-706-2779 | | |
| Lea County PET Inspector | | 575-689-5981 | | |
| U.S. Fish & Wildlife | | 502-248-6911 | | |

***Section 6.0 – Drilling Location Information***

***I. Site Safety Information***

1. Safe Briefing Area
   a. There shall be two areas that will be designated as "SAFE BRIEFING AREAs". If $H_2S$ is detected in concentrations equal to or in excess of 10 ppm all personnel not assigned emergency duties are to assemble in the designated Safe Briefing area for instructions. These two areas shall be positioned in accessible locations to facilitate the availability of self-contained breathing air devices. The briefing areas shall be positioned no less than 250' from the wellhead and in such locations that at least one briefing area will be up-wind from the well at all times.

2. Wind Indicators
   a. 4 Windsocks will be installed at strategic points on the facility.
3. Danger Signs
   a. A warning sign indicating the possible well conditions will be displayed at the location entrance.

**DANGER**
**POISONOUS GAS**
**HYDROGEN SULFIDE**
**DO NOT APPROACH IF AMBER LIGHTS ARE FLASHING**

4. $H_2S$ Detectors and Alarms
    a. Continuous monitoring type $H_2S$ detectors, capable of sensing a minimum of 5ppm $H_2S$ in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type $SO_2$ detector will also be located at the combustor. The automatic $H_2S$ alarm/flashing light will be located at the site entrance and in front of tank battery.

5. Safety Trailer
    a. A safety trailer equipped with an emergency cascade breathing air system with 2 ea. Work/escape packs, a stretcher, 2 OSHA approved full body harnesses, and a 20# Class ABC fire extinguisher shall be available at the site in close proximity to the safe briefing area. The cascade system shall be able to be deployed to the drill floor when needed to provide safe breathing air to the workers as needed.

6. Well Control Equipment
    a. The location shall have a flare line to a remote automatic ignitor and back up flare gun, placed 150' from the wellhead.
    b. The location shall be equipped with a remotely operated choke system and a mud gas separator.

7. Mud Program
    a. Company shall have a mud program that contains sufficient weight and additives to control $H_2S$.

8. Metallurgy
    a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated $H_2S$ volume and pressure.

9. Communication
    a. The location shall be equipped with a means of effective communication such as a cell phones, intercoms, satellite phones or landlines.

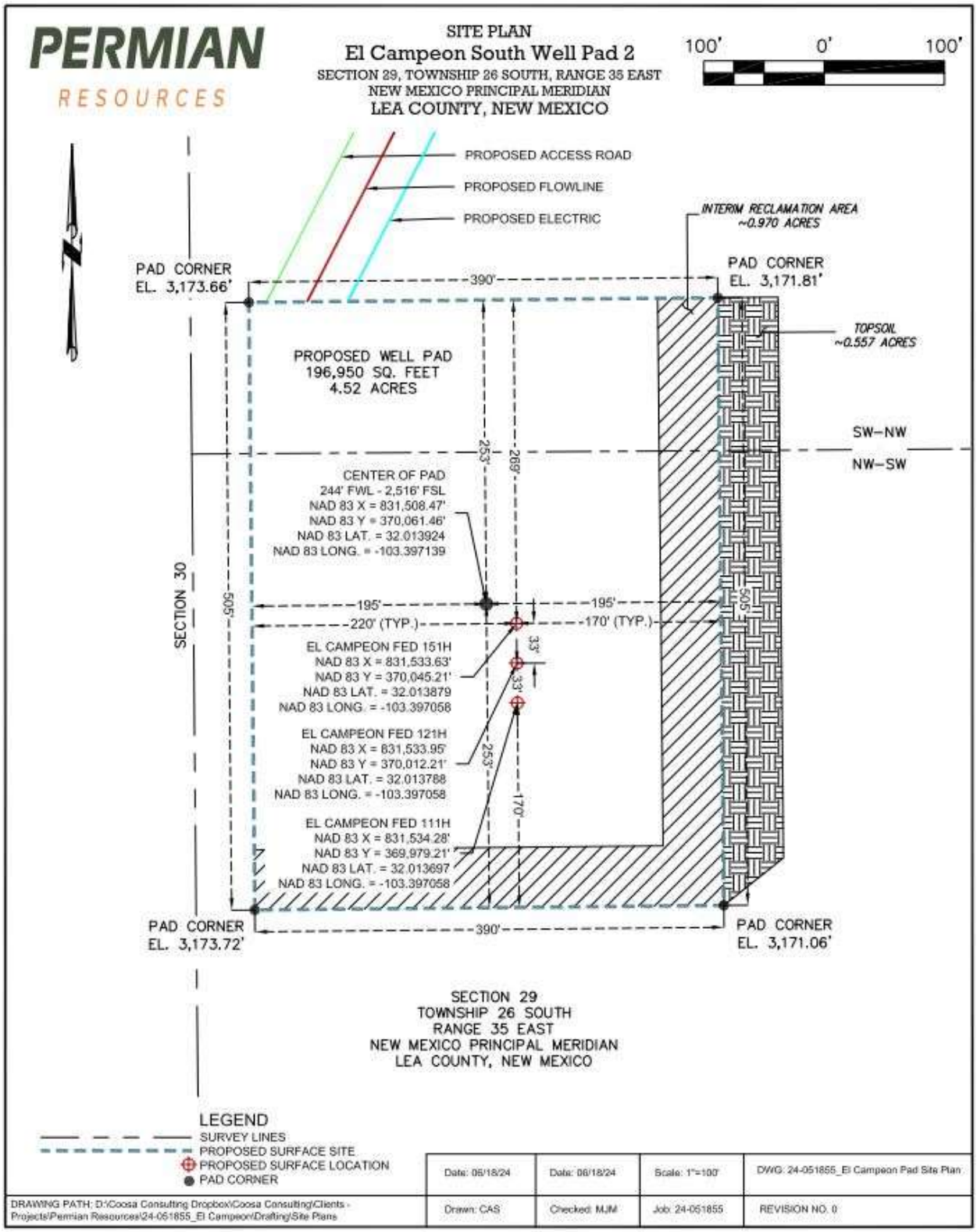
### *II. Directions to Location*

FROM THE INTERSECTION OF CR-C3 AND WHITWORTH DR. IN JAL, NEW MEXICO

1. MOVE SOUTHWEST ON CR-C3 APPROX.7 MILES.
2. KEEP RIGHT ONTO NM-322 AND CONTINUE MOVE SOUTHWEST APPROX. 2742 FEET.
3. TURN RIGHT ONTO BECKHAM RD. AND MOVE WEST APPROX. 2 MILES.
4. KEEP LEFT ONTO LEASE ROAD AND CONTINUE MOVE WEST APPROX. 3 MILES.
5. TURN RIGHT AND MOVE NORTH APPROX. 2174 FEET.
6. TURN LEFT AND MOVE WEST APPROX. 3 MILES.
7. TURN LEFT AND MOVE SOUTH APPROX. 1 MILES.
8. TURN RIGHT AND MOVE WEST APPROX. 737 FEET.
9. TURN LEFT ONTO ACCESS ROAD AND MOVE COUTH APPROX. 641 FEET TO SOUTH EAST PAD CORNER

| Permian Resources Corporation | $H_2S$ Contingency Plan<br>El Campeon Fed 111H, 121H, 151H | Lea County, New Mexico |
|---|---|---|

Plat of Location



1. Routes of Ingress & Egress (MAP)




2. Residences in proximity to the 3000’ Radius of Exposure (ROE) (MAP)

There are no residences or public gathering places with the 3000’ ROE, 100 PPM, 300 PPM, or 500 PPM ROE.

***Map of 3000' ROE Perimeter***




***100 PPM, 300 PPM, & 500 PPM Max ROE under worst case scenario***

| | | |
|---|---|---|
| **Enter $H_2S$ in PPM** | 1500 | |
| **Enter Gas flow in mcf/day (maximum worst case conditions)** | 2500 | |
| **500** ppm radius of exposure (public road) | **105** | feet |
| **300** ppm radius of exposure | **146** | feet |
| **100** ppm radius of exposure (public area) | **230** | feet |

- Location NAD 83 GPS Coordinates ***Lat: 32.013924, Long: -103.397139***

***3.*** Public Roads in proximity of the Radius of Exposure (ROE)

There are no public roads that would be within the 500 PPM ROE. The closest public road is New Mexico Road 3, which is 7.8 miles from the location.

***Section 7.0 – Hazard Communication***

***I. Physical Characteristics of Hydrogen Sulfide Gas***

Hydrogen sulfide ($H_2S$) is a colorless, poisonous gas that is soluble in water. It can be present in crude oils, condensates, natural gas and wastewater streams.

$H_2S$ is heavier than air with a vapor density of 1.189 (air = 1.0); however, $H_2S$ is most often mixed with other gases. These mixtures of $H_2S$ and other gases can be heavier or lighter than air. If the $H_2S$-containing mixture is heavier, it can collect in low areas such as ditches, ravines, firewalls, and pits; in storage tanks; and in areas of poor ventilation. Please see physical properties in **Table 7.0.**

With $H_2S$ the sense of smell is rapidly lost allowing lethal concentrations to be accumulated without warning. The toxicity of hydrogen sulfide at varying concentrations is indicated in the **Table 7.1.**

**Warning:** Do not use the mouth-to-mouth method if a victim ingested or inhaled hydrogen sulfide. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Table 7.0. Physical Properties of $H_2S$**

| Properties of H2S | Description |
|---|---|
| Vapor Density > 1 = 1.189<br>Air = 1 | ▪ H2S gas is slightly heavier than air, which can cause it to settle in low places and build in concentration.<br>▪ Produced as a mixture with other gases associated with oil and gas production. |
| Flammable Range 4.3%-46%<br>43000 ppm – 460000 ppm | ▪ H2S can be extremely flammable / explosive when these concentrations are reached by volume in air. |

Although $H_2S$ is primarily a respiratory hazard, it is also flammable and forms an explosive mixture at concentrations of 4.3%–46.0% (40,000ppm – 460,000 ppm) by volume in air.

**$H_2S$ can be encountered when:**

- Venting and draining equipment.
- Opening equipment (separators, pumps, and tanks).
- Opening piping connections (“line breaking”).
- Gauging and sampling storage tanks.
- Entering confined spaces.
- Working around wastewater pits, skimmers, and treatment facilities.

II. Human Health Hazards - Toxicological Information

**Table 7.1. Hazards & Toxicity**

| Concentration (ppm) | Symptoms/Effects |
|---|---|

| | |
|---|---|
| 0.00011-0.00033 ppm | Typical background concentrations |
| 0.01-1.5 ppm | Odor threshold (when rotten egg smell is first noticeable to some). Odor becomes more offensive at 3-5 ppm. Above 30 ppm, odor described as sweet or sickeningly sweet. |
| 2-5 ppm | Prolonged exposure may cause nausea, tearing of the eyes, headaches or loss of sleep. Airway problems (bronchial constriction) in some asthma patients. |
| 20 ppm | Possible fatigue, loss of appetite, headache, irritability, poor memory, dizziness. |
| 50-100 ppm | Slight conjunctivitis ("gas eye") and respiratory tract irritation after 1 hour. May cause digestive upset and loss of appetite. |
| 100 ppm | Coughing, eye irritation, loss of smell after 2-15 minutes (olfactory fatigue). Altered breathing, drowsiness after 15-30 minutes. Throat irritation after 1 hour. Gradual increase in severity of symptoms over several hours. Death may occur after 48 hours. |
| 100-150 ppm | Loss of smell (olfactory fatigue or paralysis). |
| 200-300 ppm | Marked conjunctivitis and respiratory tract irritation after 1 hour. Pulmonary edema may occur from prolonged exposure. |
| 500-700 ppm | Staggering, collapse in 5 minutes. Serious damage to the eyes in 30 minutes. Death after 30-60 minutes. |
| 700-1000 ppm | Rapid unconsciousness, "knockdown" or immediate collapse within 1 to 2 breaths, breathing stops, death within minutes. |
| 1000-2000 ppm | Nearly instant death |

III. Environmental Hazards

$H_2S$ and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide $SO_2$ is produced as a constituent of flaring $H_2S$ Gas and can present hazards associated, which are similar to $H_2S$. Although $SO_2$ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas. Please see the attached SDS in Appendix B for reference.

| SULFUR DIOXIDE TOXICITY | | |
|---|---|---|
| Concentration | | Effects |
| $\%SO_2$ | PPM | |
| 0.0005 | 3 to 5 | Pungent odor-normally a person can detect $SO_2$ in this range. |
| 0.0012 | 12 | Throat irritation, coughing, and constriction of the chest tearing and smarting of eyes. |
| 0.15 | 150 | So irritating that it can only be endured for a few minutes. |
| 0.05 | 500 | Causes a sense of suffocation, even with first breath. |

***Section 8.0 - Regulatory Information***

I. OSHA & NIOSH Information

**II. Table 8.0. OSHA & NIOSH $H_2S$ Information**

| PEL, IDLH, TLV | Description |
|---|---|
| NIOSH PEL 10 PPM | ▪ PEL is the Permissible Exposure Limit that an employee may be exposed up to 8 hr / day. |
| OSHA General Industry Ceiling PEL – 20 PPM | ▪ The maximum exposure limit, which cannot be exceeded for any length of time. |
| IDLH 100 PPM | ▪ Immediately Dangerous to Life and Health |
| Permian Resources PEL 10 PPM | ▪ Permian Resources Policy Regarding H2S for employee safety |

III. New Mexico OCD & BLM – $H_2S$ Concentration Threshold Requirements

New Mexico NMAC 19.15.11 and Onshore Order #6 identify two Radii of Exposure (ROE) that identify potential danger to the public and require additional compliance measures. Permian Resources is required to install safety devices, establish safety procedures and develop a written $H_2S$ contingency plan for sites where the $H_2S$ concentrations are as follows.

**Table 8.1. Calculating $H_2S$ Radius of Exposure**

| $H_2S$ Radius of Exposure | Description | Control and Equipment Requirements |
|---|---|---|
| 100 ppm | Distance from a release to where the $H_2S$ concentration in the air will dilute below 100ppm | ROE > 50-ft and includes any part of a "public area" (residence, school, business, etc., or any area that can be expected to be populated).<br>ROE > 3,000-ft |
| 500 ppm | Distance from a release to where the $H_2S$ concentration in the air will dilute below 500ppm | ROE > 50-ft and includes any part of a public road (public roads are tax supported roads or any road used for public access or use) |

**Calculating $H_2S$ Radius of Exposure**

The ROE of an $H_2S$ release is calculated to determine if a potentially hazardous volume of $H_2S$ gas at 100 or 500 parts per million (ppm) is within a regulated distance requiring further action. If information about the concentration of $H_2S$ and the potential gas release volume is known, the location of the Muster Areas will be set, and safety measures will be implemented based on the calculated radius of exposure (ROE). NMAC 19.15.11 – Hydrogen Sulfide Safety defines the ROE as the radius constructed with the gas's point of escape as its center and its length calculated by the following Pasquill-Gifford equations:

To determine the extent of the **100 ppm ROE**:

$x = [(1.589)\ (\text{mole fraction } H_2S)(Q)]^{(.6258)}$.

To determine the extent of the **500 ppm ROE**:

$x = [(0.4546)\ (\text{mole fraction } H_2S)(Q)]^{(.6258)}$.

**Table 8.2. Calculating H2S Radius of Exposure**

| ROE Variable | Description |
|---|---|
| X = | ROE in feet |
| Q = | **Max volume of gas released determined to be released in cubic feet per day ($ft^3/d$)** normalized to standard temperature and pressure, 60°F and 14.65 psia |
| *Mole fraction $H_2S$ =* | Mole fraction of $H_2S$ in the gaseous mixture released. |

The volume used as the escape rate in determining the ROE is specified in the rule as follows:

- The maximum daily volume rate of gas containing $H_2S$ handled by that system element for which the ROE is calculated.
- For existing gas wells, the current adjusted open-flow rate, or the operator's estimate of the well's capacity to flow against zero back-pressure at the wellhead.

**New Mexico Oil Conservation Division & BLM Site Requirements under NMAC 19.15.11 & Onshore Order #6**

- Two cleared areas will be designated as Safe Briefing Areas. During an emergency, personnel will assemble in one of these areas for instructions from the Permian Resources Person-in-Charge. Prevailing wind direction should be considered in locating the briefing areas 200' or more on either side of the well head. One area should offset the other at an angle of 45° to 90° with respect to prevailing wind direction to allow for wind shifts during the work period.
- In the event of either an intentional or accidental releases of hydrogen sulfide, safeguards to protect the general public from the harmful effects of hydrogen sulfide must be in place for operations. A summary of the provisions in each of three $H_2S$ ROE cases is included in **Table 8.3**.
    - **CASE 1** -100 ppm ROE < 50'
    - **CASE 2** - 100 ppm ROE is 50' or greater, but < 3000' and does not penetrate public area.
    - **CASE 3** -100 ppm ROE is 50' or greater and penetrates a public area or 500 ppm ROE includes a public road. Also if 100 ppm ROE > 3000' regardless of public area.

**Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production**

| NMAC 19.15.11 & BLM COMPLIANCE REQUIREMENTS - DRILLING & PRODUCTION |
|---|

| PROVISION | CASE 1 | CASE 2 | CASE 3 |
|---|---|---|---|
| $H_2S$ Concentration Test | X | X | X |
| H-9 | X | X | X |
| Training | X | X | X |
| District Office Notification | X | X | X |
| Drill Stem Tests Restricted | X* | X* | X |
| BOP Test | X* | X* | X |
| Materials | | X | X |
| Warning and Marker | | X | X |
| Security | | X | X |
| Contingency Plan | | | X |
| Control and Equipment Safety | | | X |
| Monitors | | X** | X** |
| Mud (ph Control or Scavenger) | | | X* |
| Wind Indicators | | X** | X |
| Protective Breathing Equipment | | X** | X |
| Choke Manifold, Secondary Remote Control, and Mud-Gas Separator | | | X |
| Flare Stacks | | | X* |

***Section 9.0 - Training Requirements***

**Training**

The following elements are considered a minimum level of training for personnel assigned to operations who may encounter $H_2S$ as part of routine or maintenance work.

- The hazards, characteristics, and properties of hydrogen sulfide ($H_2S$) and ($SO_2$).
- Sources of $H_2S$ and $SO_2$.
- Proper use of $H_2S$ and $SO_2$ detection methods used at the workplace.
- Recognition of, and proper response to, the warning signals initiated by $H_2S$ and $SO_2$ detection systems in use at the workplace.
- Symptoms of $H_2S$ exposure; symptoms of $SO_2$ exposure
- Rescue techniques and first aid to victims of $H_2S$ and $SO_2$ exposure.
- Proper use and maintenance of breathing equipment for working in $H_2S$ and $SO_2$ atmospheres, as appropriate theory and hands-on practice, with demonstrated proficiency (29 *CFR* Part 1910.134).
- Workplace practices and relevant maintenance procedures that have been established to protect personnel from the hazards of $H_2S$ and $SO_2$.
- Wind direction awareness and routes of egress.
- Confined space and enclosed facility entry procedures (if applicable).
- Emergency response procedures that have been developed for the facility or operations.
- Locations and use of safety equipment.
- Locations of safe briefing areas.

***Refresher training will be conducted annually.***

***Section 10.0 - Personal Protective Equipment***

I. Personal $H_2S$ Monitors

All personnel engaged in planned or unplanned work activity to mitigate the release of a hazardous concentration of $H_2S$ shall have on their person a personal H2S monitor.

II. Fixed $H_2S$ Detection and Alarms

- 4 channel $H_2S$ monitor
- 4 wireless $H_2S$ monitors
- $H_2S$ alarm system (Audible/Red strobe)
- Personal gas monitor for each person on location
- Gas sample tubes

III. Flame Resistant Clothing

All personnel engaged in planned or unplanned work activity associated with this Plan shall have on the appropriate level of FRC clothing.

IV. Respiratory Protection

The following respiratory protection equipment shall be available at each drilling location.

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/rescue units

Supplied air (airline or SCBA) respiratory protection against hydrogen sulfide exposure is required in the following situations:

- When routine or maintenance work tasks involve exposure to $H_2S$ concentrations of 10 ppm or greater.
- When a fixed location area monitor alarms, and re-entry to the work area is required to complete a job.
- When confined spaces are to be entered without knowledge of $H_2S$ levels present, or if initial measurements are to be taken of $H_2S$ levels.
- During rescue of employees suspected of $H_2S$ overexposure.
- For specific tasks identified with significant exposure potential and outlined in local program guidelines.
- All respiratory equipment for hydrogen sulfide must be of the supplied-air type, equipped with pressure-demand regulators and operated in the pressure-demand mode only. This is the only type of respiratory protection recommended for hydrogen sulfide application. Equipment should be approved by NIOSH/MSHA or other recognized national authority as required. If airline units are used, a five-minute egress bottle should also be carried.
- Gas masks or other air-purifying respirators MUST NEVER BE USED FOR HYDROGEN SULFIDE due to the poor warning properties of the gas.
- Use of respiratory protection should be accompanied by a written respiratory protection program.

Appendix A
$H_2S$ SDS

PRAXAIR

# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

## SECTION 1: Identification

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Substance |
| Name | : | Hydrogen sulfide |
| CAS No | : | 7783-06-4 |
| Formula | : | H2S |
| Other means of identification | : | Hydrogen sulfide |
| Product group | : | Core Products |

### 1.2. Recommended use and restrictions on use

| | | |
|---|---|---|
| Recommended uses and restrictions | : | Industrial use<br>Use as directed |

### 1.3. Supplier

Praxair Canada Inc.
1200 – 1 City Centre Drive
Mississauga - Canada L5B 1M2
T 1-905-803-1600 - F 1-905-803-1682
www.praxair.ca

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | 1-800-363-0042<br>Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.<br>For routine information, contact your supplier or Praxair sales representative. |

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

**GHS-CA classification**

| | |
|---|---|
| Flam. Gas 1 | H220 |
| Liquefied gas | H280 |
| Acute Tox. 2 (Inhalation: gas) | H330 |
| STOT SE 3 | H335 |

### 2.2. GHS Label elements, including precautionary statements

**GHS-CA labelling**

Hazard pictograms :



GHS02 GHS04 GHS06 GHS07

Signal word : DANGER

Hazard statements : **EXTREMELY FLAMMABLE GAS**
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
FATAL IF INHALED
MAY CAUSE RESPIRATORY IRRITATION
MAY FORM EXPLOSIVE MIXTURES WITH AIR
SYMPTOMS MAY BE DELAYED
EXTENDED EXPOSURE TO GAS REDUCES THE ABILITY TO SMELL SULFIDES

Precautionary statements : Do not handle until all safety precautions have been read and understood
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

Do not breathe gas
Use and store only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves, protective clothing, eye protection, respiratory protection, and/or face protection
Leaking gas fire: Do not extinguish, unless leak can be stopped safely
In case of leakage, eliminate all ignition sources
Store locked up
Dispose of contents/container in accordance with container Supplier/owner instructions
Protect from sunlight when ambient temperature exceeds 52°C (125°F)
Close valve after each use and when empty
Do not open valve until connected to equipment prepared for use
When returning cylinder, install leak tight valve outlet cap or plug
Do not depend on odour to detect the presence of gas

### 2.3. Other hazards

Other hazards not contributing to the classification : Contact with liquid may cause cold burns/frostbite.

### 2.4. Unknown acute toxicity (GHS-CA)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Name | CAS No. | % (Vol.) | Common Name (synonyms) |
|---|---|---|---|
| Hydrogen sulfide (Main constituent) | (CAS No) 7783-06-4 | 100 | Hydrogen sulfide (H2S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide |

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact : The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Obtain medical assistance. Treat with corticosteroid spray as soon as possible after inhalation.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical, Water spray or fog. Use extinguishing media appropriate for surrounding fire.

### 5.2. Unsuitable extinguishing media

No additional information available

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## Safety Data Sheet E-4611

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Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : **EXTREMELY FLAMMABLE GAS.** If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.

Explosion hazard : **EXTREMELY FLAMMABLE GAS.** Forms explosive mixtures with air and oxidizing agents.

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : **DANGER! Toxic, flammable liquefied gas**

Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : **DANGER! Toxic, flammable liquefied gas** . Forms explosive mixtures with air and oxidizing agents. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Try to stop release. Reduce vapour with fog or fine water spray. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

### 6.3. Reference to other sections

**For further information refer to section 8: Exposure controls/personal protection**

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Leak-check system with soapy water; never use a flame

All piped systems and associated equipment must be grounded

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

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# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g. NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16

**OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE:** When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hydrogen sulfide (7783-06-4) | | |
|---|---|---|
| USA - ACGIH | ACGIH TLV-TWA (ppm) | 1 ppm |
| USA - ACGIH | ACGIH TLV-STEL (ppm) | 5 ppm |
| USA - OSHA | OSHA PEL (Ceiling) (ppm) | 20 ppm |
| Canada (Quebec) | VECD (mg/m³) | 21 mg/m³ |
| Canada (Quebec) | VECD (ppm) | 15 ppm |
| Canada (Quebec) | VEMP (mg/m³) | 14 mg/m³ |
| Canada (Quebec) | VEMP (ppm) | 10 ppm |
| Alberta | OEL Ceiling (mg/m³) | 21 mg/m³ |
| Alberta | OEL Ceiling (ppm) | 15 ppm |
| Alberta | OEL TWA (mg/m³) | 14 mg/m³ |
| Alberta | OEL TWA (ppm) | 10 ppm |
| British Columbia | OEL Ceiling (ppm) | 10 ppm |
| Manitoba | OEL STEL (ppm) | 5 ppm |
| Manitoba | OEL TWA (ppm) | 1 ppm |
| New Brunswick | OEL STEL (mg/m³) | 21 mg/m³ |
| New Brunswick | OEL STEL (ppm) | 15 ppm |
| New Brunswick | OEL TWA (mg/m³) | 14 mg/m³ |
| New Brunswick | OEL TWA (ppm) | 10 ppm |
| New Foundland & Labrador | OEL STEL (ppm) | 5 ppm |
| New Foundland & Labrador | OEL TWA (ppm) | 1 ppm |
| Nova Scotia | OEL STEL (ppm) | 5 ppm |
| Nova Scotia | OEL TWA (ppm) | 1 ppm |
| Nunavut | OEL Ceiling (mg/m³) | 28 mg/m³ |
| Nunavut | OEL Ceiling (ppm) | 20 ppm |
| Nunavut | OEL STEL (mg/m³) | 21 mg/m³ |
| Nunavut | OEL STEL (ppm) | 15 ppm |
| Nunavut | OEL TWA (mg/m³) | 14 mg/m³ |
| Nunavut | OEL TWA (ppm) | 10 ppm |
| Northwest Territories | OEL STEL (ppm) | 15 ppm |

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# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

| Hydrogen sulfide (7783-06-4) | | |
|---|---|---|
| Northwest Territories | OEL TWA (ppm) | 10 ppm |
| Ontario | OEL STEL (ppm) | 15 ppm |
| Ontario | OEL TWA (ppm) | 10 ppm |
| Prince Edward Island | OEL STEL (ppm) | 5 ppm |
| Prince Edward Island | OEL TWA (ppm) | 1 ppm |
| Québec | VECD (mg/m³) | 21 mg/m³ |
| Québec | VECD (ppm) | 15 ppm |
| Québec | VEMP (mg/m³) | 14 mg/m³ |
| Québec | VEMP (ppm) | 10 ppm |
| Saskatchewan | OEL STEL (ppm) | 15 ppm |
| Saskatchewan | OEL TWA (ppm) | 10 ppm |
| Yukon | OEL STEL (mg/m³) | 27 mg/m³ |
| Yukon | OEL STEL (ppm) | 15 ppm |
| Yukon | OEL TWA (mg/m³) | 15 mg/m³ |
| Yukon | OEL TWA (ppm) | 10 ppm |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use corrosion-resistant equipment. Use an explosion-proof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): **Inadequate - Use only in a closed system.** Use explosion proof equipment and lighting.

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment : Safety glasses. Face shield. Gloves.



Hand protection : Wear work gloves when handling containers. Wear heavy rubber gloves where contact with product may occur.

Eye protection : Wear goggles and a face shield when transfilling or breaking transfer connections. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.

Respiratory protection : **Respiratory protection:** Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves.

Other information : **Other protection :** Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas. Colorless liquid at low temperature or under high pressure.

Molecular mass : 34 g/mol

Colour : Colourless.

Odour : Odour can persist. Poor warning properties at low concentrations. Rotten eggs.

Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.

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# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

| | | |
|---|---|---|
| pH | : | Not applicable. |
| pH solution | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | Not applicable. |
| Melting point | : | -86 °C |
| Freezing point | : | -82.9 °C |
| Boiling point | : | -60.3 °C |
| Flash point | : | Not applicable. |
| Critical temperature | : | 100.4 °C |
| Auto-ignition temperature | : | 260 °C |
| Decomposition temperature | : | No data available |
| Vapour pressure | : | 1880 kPa |
| Vapour pressure at 50 °C | : | No data available |
| Critical pressure | : | 8940 kPa |
| Relative vapour density at 20 °C | : | >= |
| Relative density | : | No data available |
| Relative density of saturated gas/air mixture | : | No data available |
| Density | : | No data available |
| Relative gas density | : | 1.2 |
| Solubility | : | Water: 3980 mg/l |
| Log Pow | : | Not applicable. |
| Log Kow | : | Not applicable. |
| Viscosity, kinematic | : | Not applicable. |
| Viscosity, dynamic | : | Not applicable. |
| Viscosity, kinematic (calculated value) (40 °C) | : | No data available |
| Explosive properties | : | Not applicable. |
| Oxidizing properties | : | None. |
| Flammability (solid, gas) | : | 4.3 - 46 vol % |

### 9.2. Other information

| | | |
|---|---|---|
| Gas group | : | Liquefied gas |
| Additional information | : | Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | | |
|---|---|---|
| Reactivity | : | No reactivity hazard other than the effects described in sub-sections below. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | May react violently with oxidants. Can form explosive mixture with air. |
| Conditions to avoid | : | Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. |
| Incompatible materials | : | Ammonia. Bases. Bromine pentafluoride. Chlorine trifluoride. chromium trioxide. (and heat). Copper. (powdered). Fluorine. Lead. Lead oxide. Mercury. Nitric acid. Nitrogen trifluoride. nitrogen sulfide. Organic compounds. Oxidizing agents. Oxygen difluoride. Rubber. Sodium. (and moisture). Water. |
| Hazardous decomposition products | : | Thermal decomposition may produce : Sulfur. Hydrogen. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |

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Acute toxicity (inhalation) : Inhalation:gas: FATAL IF INHALED.

| Hydrogen sulfide ( \f )7783-06-4 | |
|---|---|
| LC50 inhalation rat (mg/l) | 0.99 mg/l (Exposure time: 1 h) |
| LC50 inhalation rat (ppm) | 356 ppm/4h |
| ATE CA (gases) | 356.00000000 ppmv/4h |
| ATE CA (vapours) | 0.99000000 mg/l/4h |
| ATE CA (dust,mist) | 0.99000000 mg/l/4h |

Skin corrosion/irritation : Not classified
pH: Not applicable.

Serious eye damage/irritation : Not classified
pH: Not applicable.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : MAY CAUSE RESPIRATORY IRRITATION.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : VERY TOXIC TO AQUATIC LIFE.

| Hydrogen sulfide (7783-06-4) | |
|---|---|
| LC50 fish 1 | 0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| LC50 fish 2 | 0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

### 12.2. Persistence and degradability

| Hydrogen sulfide (7783-06-4) | |
|---|---|
| Persistence and degradability | Not applicable for inorganic gases. |

### 12.3. Bioaccumulative potential

| Hydrogen sulfide (7783-06-4) | |
|---|---|
| BCF fish 1 | (no bioaccumulation expected) |
| Log Pow | Not applicable. |
| Log Kow | Not applicable. |
| Bioaccumulative potential | No data available. |

### 12.4. Mobility in soil

| Hydrogen sulfide (7783-06-4) | |
|---|---|
| Mobility in soil | No data available. |
| Log Pow | Not applicable. |
| Log Kow | Not applicable. |
| Ecology - soil | Because of its high volatility, the product is unlikely to cause ground or water pollution. |

### 12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on the ozone layer : None

Effect on global warming : No known effects from this product

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# Hydrogen sulfide

Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

## SECTION 14: Transport information

### 14.1. Basic shipping description

In accordance with TDG

**TDG**

| | |
|---|---|
| UN-No. (TDG) | : UN1053 |
| TDG Primary Hazard Classes | : 2.3 - Class 2.3 - Toxic Gas. |
| TDG Subsidiary Classes | : 2.1 |
| Proper shipping name | : HYDROGEN SULPHIDE |
| ERAP Index | : 500 |
| Explosive Limit and Limited Quantity Index | : 0 |
| Passenger Carrying Ship Index | : Forbidden |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : Forbidden |

### 14.3. Air and sea transport

**IMDG**

| | |
|---|---|
| UN-No. (IMDG) | : 1053 |
| Proper Shipping Name (IMDG) | : HYDROGEN SULPHIDE |
| Class (IMDG) | : 2 - Gases |
| MFAG-No | : 117 |

**IATA**

| | |
|---|---|
| UN-No. (IATA) | : 1053 |
| Proper Shipping Name (IATA) | : Hydrogen sulphide |
| Class (IATA) | : 2 |

## SECTION 15: Regulatory information

### 15.1. National regulations

**Hydrogen sulfide (7783-06-4)**

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

**Hydrogen sulfide (7783-06-4)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican national Inventory of Chemical Substances)

## SECTION 16: Other information

| | |
|---|---|
| Date of issue | : 15/10/1979 |
| Revision date | : 10/08/2016 |
| Supersedes | : 15/10/2013 |

Indication of changes:

Training advice : Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard. Ensure operators understand the flammability hazard.

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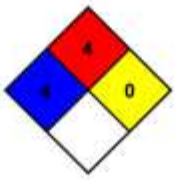
# Hydrogen sulfide

## Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

| | |
|---|---|
| Other information | : When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product<br><br>Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information<br><br>The opinions expressed herein are those of qualified experts within Praxair Canada Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair Canada Inc, it is the user's obligation to determine the conditions of safe use of the product. Praxair Canada Inc, SDSs are furnished on sale or delivery by Praxair Canada Inc, or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.ca. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write Praxair Canada Inc, (Phone: 1-888-257-5149; Address: Praxair Canada Inc, 1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2).<br><br>PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries. |
| NFPA health hazard | : 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given. |
| NFPA fire hazard | : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily. |
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |




| | |
|---|---|
| HMIS III Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA) |
| Physical | : 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air. |

SDS Canada (GHS) - Praxair

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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Appendix B

$SO_2$ SDS

MATHESON
ask. . .The Gas Professionals™

# Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**
SULFUR DIOXIDE
**Synonyms**
MTG MSDS 80; SULFUROUS ACID ANHYDRIDE; SULFUROUS OXIDE; SULPHUR DIOXIDE; SULFUROUS ANHYDRIDE; FERMENTICIDE LIQUID; SULFUR DIOXIDE(SO2); SULFUR OXIDE; SULFUR OXIDE(SO2)
**Chemical Family**
inorganic, gas
**Product Description**
Classification determined in accordance with Compressed Gas Association standards.
**Product Use**
Industrial and Specialty Gas Applications.
**Restrictions on Use**
None known.
**Details of the supplier of the safety data sheet**
MATHESON TRI-GAS, INC.
3 Mountainview Road
Warren, NJ 07059
General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

## Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**
Gases Under Pressure - Liquefied gas
Acute Toxicity - Inhalation - Gas - Category 3
Skin Corrosion/Irritation - Category 1B
Serious Eye Damage/Eye Irritation - Category 1
Simple Asphyxiant
**GHS Label Elements**
**Symbol(s)**



**Signal Word**
Danger
**Hazard Statement(s)**
Contains gas under pressure; may explode if heated.
Toxic if inhaled.
Causes severe skin burns and eye damage.
May displace oxygen and cause rapid suffocation.
**Precautionary Statement(s)**
**Prevention**
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

Wash thoroughly after handling.
Do not breathe dusts or mists.

**Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor.
Specific treatment (see label).

**Storage**

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards**

Contact with liquified gas may cause frostbite.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|---|---|---|
| 7446-09-5 | Sulfur dioxide | 100.0 |

### Section 4 - FIRST AID MEASURES

**Inhalation**

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention.

**Skin**

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). If warm water is not available, gently wrap affected parts in blankets. DO NOT induce vomiting. Get immediate medical attention.

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical attention.

**Most Important Symptoms/Effects**

**Acute**

Toxic if inhaled, frostbite, suffocation, respiratory tract burns, skin burns, eye burns

**Delayed**

No information on significant adverse effects.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

**Note to Physicians**

For inhalation, consider oxygen.

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

### Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**

carbon dioxide, regular dry chemical, Large fires: Use regular foam or flood with fine water spray.

**Unsuitable Extinguishing Media**

None known.

**Special Hazards Arising from the Chemical**

Negligible fire hazard.

**Hazardous Combustion Products**

sulfur oxides

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry.

**Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water directly on material.

**Environmental Precautions**

Avoid release to the environment.

### Section 7 - HANDLING AND STORAGE

**Precautions for Safe Handling**

Do not get in eyes, on skin, or on clothing. Do not breathe gas, fumes, vapor, or spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Keep only in original container. Avoid release to the environment.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight.
Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Keep separated from incompatible substances.

**Incompatible Materials**

bases, combustible materials, halogens, metal carbide, metal oxides, metals, oxidizing materials, peroxides, reducing agents

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits**

| **Sulfur dioxide** | **7446-09-5** |
|---|---|
| ACGIH: | 0.25 ppm STEL |

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

| | |
|---|---|
| NIOSH: | 2 ppm TWA ; 5 mg/m3 TWA |
| | 5 ppm STEL ; 13 mg/m3 STEL |
| | 100 ppm IDLH |
| OSHA (US): | 5 ppm TWA ; 13 mg/m3 TWA |
| Mexico: | 0.25 ppm STEL [PPT-CT ] |

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**
There are no biological limit values for any of this product's components.
**Engineering Controls**
Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.
**Individual Protection Measures, such as Personal Protective Equipment**
**Eye/face protection**
Wear splash resistant safety goggles with a faceshield. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
**Skin Protection**
Wear appropriate chemical resistant clothing. Wear chemical resistant clothing to prevent skin contact.
**Respiratory Protection**
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
**Glove Recommendations**
Wear appropriate chemical resistant gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | colorless gas | **Physical State** | gas |
| **Odor** | irritating odor | **Color** | colorless |
| **Odor Threshold** | 3 - 5 ppm | **pH** | (Acidic in solution ) |
| **Melting Point** | -73 °C (-99 °F ) | **Boiling Point** | -10 °C (14 °F ) |
| **Boiling Point Range** | Not available | **Freezing point** | Not available |
| **Evaporation Rate** | >1 (Butyl acetate = 1 ) | **Flammability (solid, gas)** | Not available |
| **Autoignition Temperature** | Not available | **Flash Point** | (Not flammable ) |
| **Lower Explosive Limit** | Not available | **Decomposition temperature** | Not available |
| **Upper Explosive Limit** | Not available | **Vapor Pressure** | 2432 mmHg @ 20 °C |
| **Vapor Density (air=1)** | 2.26 | **Specific Gravity (water=1)** | 1.462 at -10 °C |

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

| | | | |
|---|---|---|---|
| **Water Solubility** | 22.8 % (@ 0 °C ) | **Partition coefficient: n-octanol/water** | Not available |
| **Viscosity** | Not available | **Kinematic viscosity** | Not available |
| **Solubility (Other)** | Not available | **Density** | Not available |
| **Physical Form** | liquified gas | **Molecular Formula** | S-O2 |
| **Molecular Weight** | 64.06 | | |

**Solvent Solubility**
**Soluble**
alcohol, acetic acid, sulfuric acid, ether, chloroform, Benzene, sulfuryl chloride, nitrobenzenes, Toluene, acetone

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**
No reactivity hazard is expected.
**Chemical Stability**
Stable at normal temperatures and pressure.
**Possibility of Hazardous Reactions**
Will not polymerize.
**Conditions to Avoid**
Minimize contact with material. Containers may rupture or explode if exposed to heat.
**Incompatible Materials**
bases, combustible materials, halogens, metal carbide, metal oxides, metals, oxidizing materials, peroxides, reducing agents
**Hazardous decomposition products**
oxides of sulfur

### Section 11 - TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**
**Inhalation**
Toxic if inhaled. Causes damage to respiratory system, burns, difficulty breathing
**Skin Contact**
skin burns
**Eye Contact**
eye burns
**Ingestion**
burns, nausea, vomiting, diarrhea, stomach pain
**Acute and Chronic Toxicity**
**Component Analysis - LD50/LC50**
The components of this material have been reviewed in various sources and the following selected endpoints are published:
**Sulfur dioxide (7446-09-5)**
Inhalation LC50 Rat 965 - 1168 ppm 4 h
**Product Toxicity Data**
**Acute Toxicity Estimate**
No data available.
**Immediate Effects**

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**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

Toxic if inhaled, frostbite, suffocation, respiratory tract burns, skin burns, eye burns

**Delayed Effects**
No information on significant adverse effects.

**Irritation/Corrosivity Data**
respiratory tract burns, skin burns, eye burns

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Component Carcinogenicity**

| **Sulfur dioxide** | **7446-09-5** |
|---|---|
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| IARC: | Monograph 54 [1992] (Group 3 (not classifiable)) |

**Germ Cell Mutagenicity**
No data available.

**Tumorigenic Data**
No data available

**Reproductive Toxicity**
No data available.

**Specific Target Organ Toxicity - Single Exposure**
No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**
No target organs identified.

**Aspiration hazard**
Not applicable.

**Medical Conditions Aggravated by Exposure**
respiratory disorders

### Section 12 - ECOLOGICAL INFORMATION

**Component Analysis - Aquatic Toxicity**
No LOLI ecotoxicity data are available for this product's components.

**Persistence and Degradability**
No data available.

**Bioaccumulative Potential**
No data available.

**Mobility**
No data available.

### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Component Waste Numbers**
The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

**US DOT Information:**
**Shipping Name:** SULFUR DIOXIDE

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

**Hazard Class:** 2.3
**UN/NA #:** UN1079
**Required Label(s):** 2.3

**IMDG Information:**
**Shipping Name:** SULPHUR DIOXIDE
**Hazard Class:** 2.3
**UN#:** UN1079
**Required Label(s):** 2.3

**TDG Information:**
**Shipping Name:** SULFUR DIOXIDE
**Hazard Class:** 2.3
**UN#:** UN1079
**Required Label(s):** 2.3
**International Bulk Chemical Code**
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

### Section 15 - REGULATORY INFORMATION

**U.S. Federal Regulations**
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

| **Sulfur dioxide** | **7446-09-5** |
|---|---|
| SARA 302: | 500 lb TPQ |
| OSHA (safety): | 1000 lb TQ (Liquid ) |
| SARA 304: | 500 lb EPCRA RQ |

**SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories**
Gas Under Pressure; Acute toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Simple Asphyxiant
**U.S. State Regulations**
The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|---|---|---|---|---|---|---|
| **Sulfur dioxide** | **7446-09-5** | Yes | Yes | Yes | Yes | Yes |

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**



**WARNING**

This product can expose you to chemicals including Sulfur dioxide , which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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## Safety Data Sheet

**Material Name: SULFUR DIOXIDE** **SDS ID: MAT22290**

| | |
|---|---|
| **Sulfur dioxide** | **7446-09-5** |
| Repro/Dev. Tox | developmental toxicity , 7/29/2011 |

**Component Analysis - Inventory**
**Sulfur dioxide (7446-09-5)**

| US | CA | AU | CN | EU | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 |
|---|---|---|---|---|---|---|---|---|
| Yes | DSL | Yes | Yes | EIN | Yes | Yes | Yes | No |

| KR - REACH CCA | MX | NZ | PH | TH-TECI | TW, CN | VN (Draft) |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | Yes | Yes |

### Section 16 - OTHER INFORMATION

**NFPA Ratings**
Health: 3 Fire: 0 Instability: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**
SDS update: 02/10/2016

**Key / Legend**
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit;

PERMIAN RESOURCES

# NEW MEXICO

**(SP) LEA**
**EL CAMPEON FED PROJECT**
**EL CAMPEON FED COM 3H**

**OWB**
**PWP0**

# Anticollision Report

**27 July, 2026**

PERMIAN RESOURCES

# PR
## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Reference** PWP0

| | | | |
|---|---|---|---|
| **Filter type:** | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| **Interpolation Method:** | Stations | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum centre distance of 1,000.0usft | **Error Surface:** | Pedal Curve |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 7/27/2026

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.0 | 19,721.6 | PWP0 (OWB) | MWD | OWSG_Rev2_ MWD - Standard |

**Summary**

| Site Name / Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| EL CAMPEON FED PROJECT | | | | | | |
| EL CAMPEON FED COM 154H - OWB - PWP0 | | | | | | Out of range |
| EL CAMPEON FED COM 302H - OWB - PWP0 | 1,094.8 | 1,095.1 | 32.9 | 25.2 | 4.310 | CC |
| EL CAMPEON FED COM 302H - OWB - PWP0 | 1,100.0 | 1,100.3 | 32.9 | 25.2 | 4.290 | ES |
| EL CAMPEON FED COM 302H - OWB - PWP0 | 1,200.0 | 1,199.9 | 34.5 | 26.1 | 4.126 | SF |
| EL CAMPEON FED COM 304H - OWB - PWP0 | | | | | | Out of range |

**Offset Design:** EL CAMPEON FED PROJECT - EL CAMPEON FED COM 302H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 180.00 | -33.0 | 0.0 | 33.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 180.00 | -33.0 | 0.0 | 33.0 | 32.5 | 0.50 | 65.755 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 180.00 | -33.0 | 0.0 | 33.0 | 31.8 | 1.22 | 27.076 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 180.00 | -33.0 | 0.0 | 33.0 | 31.1 | 1.94 | 17.048 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 180.00 | -33.0 | 0.0 | 33.0 | 30.3 | 2.65 | 12.440 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 180.00 | -33.0 | 0.0 | 33.0 | 29.6 | 3.37 | 9.793 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 180.00 | -33.0 | 0.0 | 33.0 | 28.9 | 4.09 | 8.075 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 180.00 | -33.0 | 0.0 | 33.0 | 28.2 | 4.80 | 6.870 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 180.00 | -33.0 | 0.0 | 33.0 | 27.5 | 5.52 | 5.978 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 180.00 | -33.0 | 0.0 | 33.0 | 26.8 | 6.24 | 5.291 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 180.00 | -33.0 | 0.0 | 33.0 | 26.0 | 6.95 | 4.745 | |
| 1,094.8 | 1,094.8 | 1,095.1 | 1,095.1 | 3.8 | 3.8 | 105.14 | -32.5 | -1.5 | 32.9 | 25.2 | 7.62 | 4.310 | CC |
| 1,100.0 | 1,100.0 | 1,100.3 | 1,100.3 | 3.8 | 3.8 | 105.73 | -32.4 | -1.6 | 32.9 | 25.2 | 7.66 | 4.290 | ES |
| 1,200.0 | 1,199.8 | 1,199.9 | 1,199.7 | 4.2 | 4.2 | 122.66 | -30.6 | -6.5 | 34.5 | 26.1 | 8.36 | 4.126 | SF |
| 1,300.0 | 1,299.5 | 1,298.2 | 1,297.6 | 4.5 | 4.5 | 144.27 | -27.6 | -14.5 | 42.7 | 33.6 | 9.05 | 4.713 | |
| 1,341.5 | 1,340.7 | 1,338.4 | 1,337.6 | 4.7 | 4.7 | 152.17 | -26.0 | -18.7 | 48.8 | 39.5 | 9.34 | 5.228 | |
| 1,400.0 | 1,398.8 | 1,394.8 | 1,393.5 | 4.9 | 4.9 | 161.18 | -23.6 | -25.4 | 59.7 | 49.9 | 9.73 | 6.135 | |
| 1,500.0 | 1,498.1 | 1,491.8 | 1,489.7 | 5.3 | 5.2 | 170.97 | -19.1 | -37.5 | 80.8 | 70.4 | 10.41 | 7.765 | |
| 1,600.0 | 1,597.4 | 1,588.9 | 1,585.9 | 5.6 | 5.6 | 176.65 | -14.6 | -49.6 | 103.2 | 92.2 | 11.09 | 9.310 | |
| 1,700.0 | 1,696.6 | 1,685.9 | 1,682.1 | 6.0 | 6.0 | -179.72 | -10.1 | -61.7 | 126.3 | 114.5 | 11.78 | 10.723 | |
| 1,800.0 | 1,795.9 | 1,782.9 | 1,778.3 | 6.4 | 6.4 | -177.21 | -5.6 | -73.8 | 149.7 | 137.2 | 12.47 | 12.003 | |
| 1,900.0 | 1,895.2 | 1,880.0 | 1,874.4 | 6.8 | 6.7 | -175.37 | -1.1 | -85.9 | 173.3 | 160.1 | 13.17 | 13.159 | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# PR

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** EL CAMPEON FED PROJECT - EL CAMPEON FED COM 302H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,000.0 | 1,994.5 | 1,977.0 | 1,970.6 | 7.2 | 7.1 | -173.98 | 3.4 | -97.9 | 197.0 | 183.2 | 13.87 | 14.206 | |
| 2,100.0 | 2,093.8 | 2,074.1 | 2,066.8 | 7.5 | 7.5 | -172.89 | 7.9 | -110.0 | 220.9 | 206.3 | 14.57 | 15.155 | |
| 2,200.0 | 2,193.1 | 2,171.1 | 2,163.0 | 7.9 | 7.9 | -172.01 | 12.3 | -122.1 | 244.7 | 229.5 | 15.28 | 16.019 | |
| 2,300.0 | 2,292.4 | 2,268.2 | 2,259.2 | 8.3 | 8.3 | -171.28 | 16.8 | -134.2 | 268.7 | 252.7 | 15.98 | 16.808 | |
| 2,400.0 | 2,391.7 | 2,365.2 | 2,355.4 | 8.7 | 8.7 | -170.68 | 21.3 | -146.3 | 292.6 | 275.9 | 16.69 | 17.531 | |
| 2,500.0 | 2,491.0 | 2,462.3 | 2,451.6 | 9.1 | 9.1 | -170.16 | 25.8 | -158.4 | 316.6 | 299.2 | 17.40 | 18.195 | |
| 2,600.0 | 2,590.3 | 2,559.3 | 2,547.7 | 9.5 | 9.4 | -169.72 | 30.3 | -170.4 | 340.6 | 322.5 | 18.11 | 18.807 | |
| 2,700.0 | 2,689.6 | 2,656.4 | 2,643.9 | 9.9 | 9.8 | -169.34 | 34.8 | -182.5 | 364.6 | 345.8 | 18.82 | 19.373 | |
| 2,800.0 | 2,788.8 | 2,753.4 | 2,740.1 | 10.3 | 10.2 | -169.00 | 39.3 | -194.6 | 388.7 | 369.1 | 19.53 | 19.897 | |
| 2,900.0 | 2,888.1 | 2,850.4 | 2,836.3 | 10.7 | 10.6 | -168.70 | 43.8 | -206.7 | 412.7 | 392.5 | 20.25 | 20.385 | |
| 3,000.0 | 2,987.4 | 2,947.5 | 2,932.5 | 11.1 | 11.0 | -168.44 | 48.3 | -218.8 | 436.8 | 415.8 | 20.96 | 20.839 | |
| 3,100.0 | 3,086.7 | 3,044.5 | 3,028.7 | 11.5 | 11.4 | -168.20 | 52.7 | -230.9 | 460.8 | 439.2 | 21.67 | 21.262 | |
| 3,200.0 | 3,186.0 | 3,141.6 | 3,124.9 | 11.9 | 11.8 | -167.99 | 57.2 | -243.0 | 484.9 | 462.5 | 22.39 | 21.659 | |
| 3,300.0 | 3,285.3 | 3,238.6 | 3,221.0 | 12.3 | 12.2 | -167.80 | 61.7 | -255.0 | 509.0 | 485.9 | 23.10 | 22.030 | |
| 3,400.0 | 3,384.6 | 3,335.7 | 3,317.2 | 12.7 | 12.6 | -167.62 | 66.2 | -267.1 | 533.1 | 509.2 | 23.82 | 22.380 | |
| 3,500.0 | 3,483.9 | 3,432.7 | 3,413.4 | 13.1 | 13.0 | -167.46 | 70.7 | -279.2 | 557.1 | 532.6 | 24.53 | 22.708 | |
| 3,600.0 | 3,583.2 | 3,529.8 | 3,509.6 | 13.5 | 13.4 | -167.31 | 75.2 | -291.3 | 581.2 | 556.0 | 25.25 | 23.018 | |
| 3,700.0 | 3,682.5 | 3,626.8 | 3,605.8 | 13.9 | 13.8 | -167.18 | 79.7 | -303.4 | 605.3 | 579.3 | 25.97 | 23.310 | |
| 3,800.0 | 3,781.7 | 3,745.9 | 3,724.0 | 14.3 | 14.3 | -167.08 | 84.5 | -316.4 | 627.9 | 601.1 | 26.85 | 23.389 | |
| 3,900.0 | 3,881.0 | 3,870.6 | 3,848.4 | 14.7 | 14.7 | -167.13 | 87.8 | -325.1 | 646.6 | 618.9 | 27.73 | 23.320 | |
| 4,000.0 | 3,980.3 | 3,997.1 | 3,974.8 | 15.1 | 15.2 | -167.32 | 89.1 | -328.8 | 661.1 | 632.6 | 28.57 | 23.144 | |
| 4,100.0 | 4,079.6 | 4,101.9 | 4,079.6 | 15.5 | 15.5 | -167.55 | 89.1 | -328.9 | 672.8 | 643.5 | 29.29 | 22.968 | |
| 4,200.0 | 4,178.9 | 4,201.2 | 4,178.9 | 15.9 | 15.9 | -167.76 | 89.1 | -328.9 | 684.4 | 654.4 | 30.00 | 22.814 | |
| 4,300.0 | 4,278.2 | 4,300.5 | 4,278.2 | 16.3 | 16.2 | -167.97 | 89.1 | -328.9 | 696.1 | 665.4 | 30.71 | 22.666 | |
| 4,400.0 | 4,377.5 | 4,399.8 | 4,377.5 | 16.7 | 16.5 | -168.17 | 89.1 | -328.9 | 707.7 | 676.3 | 31.42 | 22.525 | |
| 4,500.0 | 4,476.8 | 4,499.1 | 4,476.8 | 17.1 | 16.8 | -168.37 | 89.1 | -328.9 | 719.4 | 687.2 | 32.13 | 22.390 | |
| 4,600.0 | 4,576.1 | 4,598.3 | 4,576.1 | 17.5 | 17.2 | -168.55 | 89.1 | -328.9 | 731.0 | 698.2 | 32.84 | 22.261 | |
| 4,700.0 | 4,675.4 | 4,697.6 | 4,675.4 | 17.9 | 17.5 | -168.74 | 89.1 | -328.9 | 742.7 | 709.1 | 33.55 | 22.137 | |
| 4,800.0 | 4,774.6 | 4,796.9 | 4,774.6 | 18.3 | 17.8 | -168.91 | 89.1 | -328.9 | 754.3 | 720.1 | 34.26 | 22.019 | |
| 4,900.0 | 4,873.9 | 4,896.2 | 4,873.9 | 18.7 | 18.2 | -169.08 | 89.1 | -328.9 | 766.0 | 731.0 | 34.97 | 21.905 | |
| 5,000.0 | 4,973.2 | 4,995.5 | 4,973.2 | 19.1 | 18.5 | -169.25 | 89.1 | -328.9 | 777.7 | 742.0 | 35.68 | 21.795 | |
| 5,100.0 | 5,072.5 | 5,094.8 | 5,072.5 | 19.5 | 18.8 | -169.41 | 89.1 | -328.9 | 789.4 | 753.0 | 36.39 | 21.690 | |
| 5,200.0 | 5,171.8 | 5,194.1 | 5,171.8 | 19.9 | 19.2 | -169.57 | 89.1 | -328.9 | 801.1 | 764.0 | 37.11 | 21.589 | |
| 5,300.0 | 5,271.1 | 5,293.4 | 5,271.1 | 20.3 | 19.5 | -169.72 | 89.1 | -328.9 | 812.8 | 775.0 | 37.82 | 21.491 | |
| 5,400.0 | 5,370.4 | 5,392.7 | 5,370.4 | 20.7 | 19.9 | -169.87 | 89.1 | -328.9 | 824.5 | 786.0 | 38.53 | 21.397 | |
| 5,500.0 | 5,469.7 | 5,492.0 | 5,469.7 | 21.1 | 20.2 | -170.01 | 89.1 | -328.9 | 836.2 | 797.0 | 39.25 | 21.307 | |
| 5,600.0 | 5,569.0 | 5,591.2 | 5,569.0 | 21.5 | 20.5 | -170.15 | 89.1 | -328.9 | 847.9 | 808.0 | 39.96 | 21.219 | |
| 5,691.0 | 5,659.3 | 5,681.6 | 5,659.3 | 21.9 | 20.8 | -170.27 | 89.1 | -328.9 | 858.6 | 818.0 | 40.61 | 21.142 | |
| 5,700.0 | 5,668.3 | 5,690.5 | 5,668.3 | 21.9 | 20.9 | -170.29 | 89.1 | -328.9 | 859.6 | 819.0 | 40.67 | 21.135 | |
| 5,800.0 | 5,767.8 | 5,790.0 | 5,767.8 | 22.3 | 21.2 | -170.43 | 89.1 | -328.9 | 869.3 | 828.0 | 41.39 | 21.005 | |
| 5,900.0 | 5,867.6 | 5,889.8 | 5,867.6 | 22.7 | 21.6 | -170.52 | 89.1 | -328.9 | 875.6 | 833.5 | 42.10 | 20.801 | |
| 6,000.0 | 5,967.5 | 5,989.8 | 5,967.5 | 23.0 | 21.9 | -170.56 | 89.1 | -328.9 | 878.5 | 835.7 | 42.80 | 20.524 | |
| 6,032.5 | 6,000.0 | 6,022.3 | 6,000.0 | 23.1 | 22.0 | -90.41 | 89.1 | -328.9 | 878.6 | 835.6 | 43.03 | 20.421 | |
| 6,100.0 | 6,067.5 | 6,089.8 | 6,067.5 | 23.3 | 22.2 | -90.41 | 89.1 | -328.9 | 878.6 | 835.1 | 43.49 | 20.201 | |
| 6,200.0 | 6,167.5 | 6,189.8 | 6,167.5 | 23.7 | 22.6 | -90.41 | 89.1 | -328.9 | 878.6 | 834.5 | 44.19 | 19.885 | |
| 6,300.0 | 6,267.5 | 6,289.8 | 6,267.5 | 24.0 | 22.9 | -90.41 | 89.1 | -328.9 | 878.6 | 833.8 | 44.88 | 19.578 | |
| 6,400.0 | 6,367.5 | 6,389.8 | 6,367.5 | 24.3 | 23.3 | -90.41 | 89.1 | -328.9 | 878.6 | 833.1 | 45.57 | 19.280 | |
| 6,500.0 | 6,467.5 | 6,489.8 | 6,467.5 | 24.6 | 23.6 | -90.41 | 89.1 | -328.9 | 878.6 | 832.4 | 46.27 | 18.990 | |
| 6,600.0 | 6,567.5 | 6,589.8 | 6,567.5 | 25.0 | 24.0 | -90.41 | 89.1 | -328.9 | 878.6 | 831.7 | 46.96 | 18.709 | |
| 6,700.0 | 6,667.5 | 6,689.8 | 6,667.5 | 25.3 | 24.3 | -90.41 | 89.1 | -328.9 | 878.6 | 831.0 | 47.66 | 18.436 | |
| 6,800.0 | 6,767.5 | 6,789.8 | 6,767.5 | 25.6 | 24.7 | -90.41 | 89.1 | -328.9 | 878.6 | 830.3 | 48.36 | 18.170 | |
| 6,900.0 | 6,867.5 | 6,889.8 | 6,867.5 | 25.9 | 25.0 | -90.41 | 89.1 | -328.9 | 878.6 | 829.6 | 49.05 | 17.912 | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# PR

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** EL CAMPEON FED PROJECT - EL CAMPEON FED COM 302H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD **Rule Assigned:** **Offset Well Error:** 0.0 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,000.0 | 6,967.5 | 6,989.8 | 6,967.5 | 26.3 | 25.4 | -90.41 | 89.1 | -328.9 | 878.6 | 828.9 | 49.75 | 17.661 | |
| 7,100.0 | 7,067.5 | 7,089.8 | 7,067.5 | 26.6 | 25.7 | -90.41 | 89.1 | -328.9 | 878.6 | 828.2 | 50.45 | 17.416 | |
| 7,200.0 | 7,167.5 | 7,189.8 | 7,167.5 | 26.9 | 26.1 | -90.41 | 89.1 | -328.9 | 878.6 | 827.5 | 51.15 | 17.178 | |
| 7,300.0 | 7,267.5 | 7,289.8 | 7,267.5 | 27.3 | 26.4 | -90.41 | 89.1 | -328.9 | 878.6 | 826.8 | 51.85 | 16.947 | |
| 7,400.0 | 7,367.5 | 7,389.8 | 7,367.5 | 27.6 | 26.8 | -90.41 | 89.1 | -328.9 | 878.6 | 826.1 | 52.55 | 16.721 | |
| 7,500.0 | 7,467.5 | 7,489.8 | 7,467.5 | 27.9 | 27.1 | -90.41 | 89.1 | -328.9 | 878.6 | 825.4 | 53.25 | 16.501 | |
| 7,600.0 | 7,567.5 | 7,589.8 | 7,567.5 | 28.3 | 27.5 | -90.41 | 89.1 | -328.9 | 878.6 | 824.7 | 53.95 | 16.287 | |
| 7,700.0 | 7,667.5 | 7,689.8 | 7,667.5 | 28.6 | 27.8 | -90.41 | 89.1 | -328.9 | 878.6 | 824.0 | 54.65 | 16.078 | |
| 7,800.0 | 7,767.5 | 7,789.8 | 7,767.5 | 28.9 | 28.2 | -90.41 | 89.1 | -328.9 | 878.6 | 823.3 | 55.35 | 15.874 | |
| 7,900.0 | 7,867.5 | 7,889.8 | 7,867.5 | 29.3 | 28.5 | -90.41 | 89.1 | -328.9 | 878.6 | 822.6 | 56.05 | 15.675 | |
| 8,000.0 | 7,967.5 | 7,989.8 | 7,967.5 | 29.6 | 28.9 | -90.41 | 89.1 | -328.9 | 878.6 | 821.9 | 56.75 | 15.482 | |
| 8,100.0 | 8,067.5 | 8,089.8 | 8,067.5 | 30.0 | 29.2 | -90.41 | 89.1 | -328.9 | 878.6 | 821.2 | 57.46 | 15.292 | |
| 8,200.0 | 8,167.5 | 8,189.8 | 8,167.5 | 30.3 | 29.6 | -90.41 | 89.1 | -328.9 | 878.6 | 820.5 | 58.16 | 15.107 | |
| 8,300.0 | 8,267.5 | 8,289.8 | 8,267.5 | 30.6 | 29.9 | -90.41 | 89.1 | -328.9 | 878.6 | 819.8 | 58.86 | 14.927 | |
| 8,400.0 | 8,367.5 | 8,389.8 | 8,367.5 | 31.0 | 30.3 | -90.41 | 89.1 | -328.9 | 878.6 | 819.1 | 59.57 | 14.751 | |
| 8,500.0 | 8,467.5 | 8,489.8 | 8,467.5 | 31.3 | 30.6 | -90.41 | 89.1 | -328.9 | 878.6 | 818.4 | 60.27 | 14.578 | |
| 8,600.0 | 8,567.5 | 8,589.8 | 8,567.5 | 31.7 | 31.0 | -90.41 | 89.1 | -328.9 | 878.6 | 817.7 | 60.97 | 14.410 | |
| 8,700.0 | 8,667.5 | 8,689.8 | 8,667.5 | 32.0 | 31.3 | -90.41 | 89.1 | -328.9 | 878.6 | 817.0 | 61.68 | 14.245 | |
| 8,800.0 | 8,767.5 | 8,789.8 | 8,767.5 | 32.3 | 31.7 | -90.41 | 89.1 | -328.9 | 878.6 | 816.3 | 62.38 | 14.084 | |
| 8,900.0 | 8,867.5 | 8,889.8 | 8,867.5 | 32.7 | 32.0 | -90.41 | 89.1 | -328.9 | 878.6 | 815.6 | 63.09 | 13.927 | |
| 8,955.0 | 8,922.5 | 8,944.8 | 8,922.5 | 32.9 | 32.2 | -90.41 | 89.1 | -328.9 | 878.6 | 815.2 | 63.48 | 13.842 | |
| 8,975.0 | 8,942.5 | 8,964.9 | 8,942.6 | 32.9 | 32.3 | 90.46 | 88.7 | -328.9 | 878.6 | 815.0 | 63.61 | 13.813 | |
| 9,000.0 | 8,967.4 | 8,990.0 | 8,967.7 | 33.0 | 32.4 | 90.46 | 87.0 | -328.9 | 878.7 | 814.9 | 63.77 | 13.778 | |
| 9,025.0 | 8,992.3 | 9,015.2 | 8,992.7 | 33.1 | 32.4 | 90.46 | 84.0 | -328.8 | 878.7 | 814.7 | 63.93 | 13.744 | |
| 9,050.0 | 9,016.9 | 9,040.3 | 9,017.4 | 33.2 | 32.5 | 90.45 | 79.6 | -328.8 | 878.7 | 814.6 | 64.08 | 13.711 | |
| 9,075.0 | 9,041.3 | 9,065.5 | 9,041.9 | 33.2 | 32.6 | 90.45 | 74.0 | -328.7 | 878.7 | 814.5 | 64.24 | 13.679 | |
| 9,100.0 | 9,065.3 | 9,090.6 | 9,066.1 | 33.3 | 32.7 | 90.44 | 67.1 | -328.7 | 878.8 | 814.4 | 64.39 | 13.648 | |
| 9,125.0 | 9,088.9 | 9,115.7 | 9,089.8 | 33.4 | 32.7 | 90.43 | 58.9 | -328.6 | 878.8 | 814.3 | 64.53 | 13.618 | |
| 9,150.0 | 9,112.1 | 9,140.9 | 9,113.1 | 33.5 | 32.8 | 90.42 | 49.4 | -328.5 | 878.8 | 814.2 | 64.67 | 13.589 | |
| 9,175.0 | 9,134.8 | 9,166.0 | 9,135.9 | 33.5 | 32.9 | 90.41 | 38.8 | -328.4 | 878.9 | 814.1 | 64.81 | 13.561 | |
| 9,200.0 | 9,156.9 | 9,191.1 | 9,158.1 | 33.6 | 32.9 | 90.40 | 27.0 | -328.3 | 878.9 | 814.0 | 64.95 | 13.533 | |
| 9,225.0 | 9,178.4 | 9,216.2 | 9,179.6 | 33.6 | 33.0 | 90.39 | 14.0 | -328.1 | 879.0 | 813.9 | 65.08 | 13.506 | |
| 9,250.0 | 9,199.1 | 9,241.4 | 9,200.4 | 33.7 | 33.0 | 90.38 | 0.0 | -328.0 | 879.1 | 813.9 | 65.21 | 13.480 | |
| 9,275.0 | 9,219.1 | 9,266.5 | 9,220.4 | 33.8 | 33.1 | 90.36 | -15.2 | -327.8 | 879.2 | 813.8 | 65.34 | 13.454 | |
| 9,300.0 | 9,238.3 | 9,291.6 | 9,239.6 | 33.8 | 33.1 | 90.35 | -31.3 | -327.7 | 879.2 | 813.8 | 65.47 | 13.429 | |
| 9,325.0 | 9,256.6 | 9,316.7 | 9,257.9 | 33.9 | 33.2 | 90.33 | -48.5 | -327.5 | 879.3 | 813.7 | 65.60 | 13.404 | |
| 9,350.0 | 9,274.0 | 9,341.8 | 9,275.3 | 33.9 | 33.2 | 90.31 | -66.6 | -327.3 | 879.4 | 813.7 | 65.73 | 13.380 | |
| 9,375.0 | 9,290.4 | 9,366.9 | 9,291.7 | 34.0 | 33.3 | 90.29 | -85.6 | -327.1 | 879.5 | 813.7 | 65.85 | 13.355 | |
| 9,400.0 | 9,305.8 | 9,392.0 | 9,307.1 | 34.0 | 33.3 | 90.27 | -105.4 | -326.9 | 879.6 | 813.6 | 65.98 | 13.331 | |
| 9,425.0 | 9,320.2 | 9,417.0 | 9,321.4 | 34.1 | 33.3 | 90.25 | -126.0 | -326.7 | 879.7 | 813.6 | 66.11 | 13.307 | |
| 9,450.0 | 9,333.5 | 9,442.1 | 9,334.7 | 34.1 | 33.4 | 90.23 | -147.3 | -326.5 | 879.8 | 813.6 | 66.24 | 13.282 | |
| 9,475.0 | 9,345.6 | 9,467.2 | 9,346.7 | 34.1 | 33.4 | 90.21 | -169.2 | -326.3 | 879.9 | 813.5 | 66.37 | 13.258 | |
| 9,500.0 | 9,356.6 | 9,492.2 | 9,357.6 | 34.2 | 33.4 | 90.19 | -191.8 | -326.0 | 880.0 | 813.5 | 66.50 | 13.233 | |
| 9,525.0 | 9,366.4 | 9,517.3 | 9,367.4 | 34.2 | 33.5 | 90.17 | -214.9 | -325.8 | 880.1 | 813.5 | 66.64 | 13.208 | |
| 9,550.0 | 9,375.0 | 9,542.3 | 9,375.8 | 34.3 | 33.5 | 90.15 | -238.4 | -325.6 | 880.3 | 813.5 | 66.78 | 13.182 | |
| 9,575.0 | 9,382.4 | 9,567.4 | 9,383.1 | 34.3 | 33.6 | 90.12 | -262.4 | -325.3 | 880.4 | 813.5 | 66.92 | 13.157 | |
| 9,600.0 | 9,388.5 | 9,592.4 | 9,389.0 | 34.4 | 33.6 | 90.10 | -286.7 | -325.1 | 880.5 | 813.4 | 67.06 | 13.131 | |
| 9,625.0 | 9,393.3 | 9,617.4 | 9,393.7 | 34.5 | 33.7 | 90.08 | -311.3 | -324.8 | 880.6 | 813.4 | 67.20 | 13.105 | |
| 9,650.0 | 9,396.8 | 9,642.5 | 9,397.1 | 34.5 | 33.8 | 90.05 | -336.1 | -324.6 | 880.8 | 813.4 | 67.35 | 13.078 | |
| 9,675.0 | 9,399.0 | 9,667.5 | 9,399.2 | 34.6 | 33.8 | 90.03 | -361.0 | -324.3 | 880.9 | 813.4 | 67.49 | 13.051 | |
| 9,700.0 | 9,399.9 | 9,692.5 | 9,400.0 | 34.7 | 33.9 | 90.00 | -386.0 | -324.1 | 881.0 | 813.4 | 67.64 | 13.025 | |
| 9,705.0 | 9,400.0 | 9,697.4 | 9,400.0 | 34.7 | 33.9 | 90.00 | -391.0 | -324.0 | 881.0 | 813.4 | 67.67 | 13.019 | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# PR

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** EL CAMPEON FED PROJECT - EL CAMPEON FED COM 302H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,800.0 | 9,400.0 | 9,792.5 | 9,400.0 | 35.0 | 34.2 | 90.00 | -486.0 | -323.0 | 881.5 | 813.2 | 68.32 | 12.903 | |
| 9,900.0 | 9,400.0 | 9,892.5 | 9,400.0 | 35.4 | 34.7 | 90.00 | -586.0 | -322.0 | 882.0 | 812.9 | 69.14 | 12.756 | |
| 10,000.0 | 9,400.0 | 9,992.5 | 9,400.0 | 35.9 | 35.1 | 90.00 | -686.0 | -321.0 | 882.5 | 812.4 | 70.12 | 12.586 | |
| 10,100.0 | 9,400.0 | 10,092.5 | 9,400.0 | 36.5 | 35.7 | 90.00 | -786.0 | -320.0 | 883.0 | 811.8 | 71.23 | 12.397 | |
| 10,200.0 | 9,400.0 | 10,192.5 | 9,400.0 | 37.1 | 36.3 | 90.00 | -886.0 | -319.0 | 883.5 | 811.0 | 72.47 | 12.191 | |
| 10,300.0 | 9,400.0 | 10,292.5 | 9,400.0 | 37.8 | 37.0 | 90.00 | -985.9 | -317.9 | 884.0 | 810.2 | 73.84 | 11.972 | |
| 10,400.0 | 9,400.0 | 10,392.5 | 9,400.0 | 38.5 | 37.7 | 90.00 | -1,085.9 | -316.9 | 884.5 | 809.2 | 75.33 | 11.741 | |
| 10,500.0 | 9,400.0 | 10,492.5 | 9,400.0 | 39.3 | 38.5 | 90.00 | -1,185.9 | -315.9 | 885.0 | 808.1 | 76.93 | 11.503 | |
| 10,600.0 | 9,400.0 | 10,592.5 | 9,400.0 | 40.2 | 39.3 | 90.00 | -1,285.9 | -314.9 | 885.5 | 806.9 | 78.64 | 11.260 | |
| 10,700.0 | 9,400.0 | 10,692.5 | 9,400.0 | 41.1 | 40.2 | 90.00 | -1,385.9 | -313.9 | 886.0 | 805.5 | 80.45 | 11.013 | |
| 10,800.0 | 9,400.0 | 10,792.5 | 9,400.0 | 42.0 | 41.2 | 90.00 | -1,485.9 | -312.8 | 886.5 | 804.1 | 82.35 | 10.765 | |
| 10,900.0 | 9,400.0 | 10,892.5 | 9,400.0 | 43.0 | 42.2 | 90.00 | -1,585.9 | -311.8 | 887.0 | 802.7 | 84.34 | 10.518 | |
| 11,000.0 | 9,400.0 | 10,992.5 | 9,400.0 | 44.0 | 43.2 | 90.00 | -1,685.9 | -310.8 | 887.5 | 801.1 | 86.40 | 10.272 | |
| 11,049.3 | 9,400.0 | 11,041.9 | 9,400.0 | 44.5 | 43.7 | 90.00 | -1,735.3 | -310.3 | 887.7 | 800.3 | 87.45 | 10.152 | |
| 11,065.3 | 9,400.0 | 11,057.9 | 9,400.0 | 44.7 | 43.9 | 90.00 | -1,751.3 | -310.1 | 887.8 | 800.0 | 87.79 | 10.113 | |
| 11,100.0 | 9,400.0 | 11,092.6 | 9,400.0 | 45.1 | 44.2 | 90.00 | -1,786.0 | -309.8 | 887.8 | 799.2 | 88.54 | 10.027 | |
| 11,200.0 | 9,400.0 | 11,192.6 | 9,400.0 | 46.2 | 45.3 | 90.00 | -1,886.0 | -308.7 | 887.7 | 796.9 | 90.75 | 9.782 | |
| 11,300.0 | 9,400.0 | 11,292.6 | 9,400.0 | 47.3 | 46.5 | 90.00 | -1,986.0 | -307.7 | 887.6 | 794.6 | 93.02 | 9.542 | |
| 11,400.0 | 9,400.0 | 11,392.6 | 9,400.0 | 48.5 | 47.6 | 90.00 | -2,086.0 | -306.7 | 887.5 | 792.2 | 95.36 | 9.308 | |
| 11,500.0 | 9,400.0 | 11,492.6 | 9,400.0 | 49.7 | 48.8 | 90.00 | -2,186.0 | -305.6 | 887.5 | 789.7 | 97.74 | 9.080 | |
| 11,600.0 | 9,400.0 | 11,592.6 | 9,400.0 | 50.9 | 50.0 | 90.00 | -2,286.0 | -304.6 | 887.4 | 787.2 | 100.18 | 8.858 | |
| 11,700.0 | 9,400.0 | 11,692.6 | 9,400.0 | 52.1 | 51.3 | 90.00 | -2,386.0 | -303.6 | 887.3 | 784.7 | 102.67 | 8.642 | |
| 11,800.0 | 9,400.0 | 11,792.6 | 9,400.0 | 53.4 | 52.5 | 90.00 | -2,486.0 | -302.5 | 887.3 | 782.1 | 105.20 | 8.434 | |
| 11,900.0 | 9,400.0 | 11,892.6 | 9,400.0 | 54.6 | 53.8 | 90.00 | -2,586.0 | -301.5 | 887.2 | 779.4 | 107.78 | 8.232 | |
| 12,000.0 | 9,400.0 | 11,992.6 | 9,400.0 | 55.9 | 55.1 | 90.00 | -2,686.0 | -300.5 | 887.1 | 776.7 | 110.39 | 8.036 | |
| 12,100.0 | 9,400.0 | 12,092.6 | 9,400.0 | 57.2 | 56.4 | 90.00 | -2,786.0 | -299.4 | 887.0 | 774.0 | 113.04 | 7.847 | |
| 12,200.0 | 9,400.0 | 12,192.6 | 9,400.0 | 58.6 | 57.8 | 90.00 | -2,886.0 | -298.4 | 887.0 | 771.3 | 115.72 | 7.665 | |
| 12,300.0 | 9,400.0 | 12,292.6 | 9,400.0 | 59.9 | 59.1 | 90.00 | -2,986.0 | -297.4 | 886.9 | 768.5 | 118.43 | 7.489 | |
| 12,368.3 | 9,400.0 | 12,360.3 | 9,400.0 | 60.9 | 60.0 | 90.00 | -3,053.6 | -296.7 | 886.9 | 766.6 | 120.29 | 7.373 | |
| 12,371.0 | 9,400.0 | 12,360.3 | 9,400.0 | 60.9 | 60.0 | 90.00 | -3,053.6 | -296.7 | 886.9 | 766.5 | 120.32 | 7.371 | |
| 12,400.0 | 9,400.0 | 12,382.2 | 9,400.0 | 61.3 | 60.3 | 90.00 | -3,075.5 | -296.6 | 886.9 | 765.9 | 120.99 | 7.330 | |
| 12,500.0 | 9,400.0 | 12,450.0 | 9,400.0 | 62.6 | 61.3 | 90.00 | -3,143.3 | -297.9 | 887.0 | 763.9 | 123.10 | 7.206 | |
| 12,600.0 | 9,400.0 | 12,517.8 | 9,400.0 | 64.0 | 62.2 | 90.00 | -3,211.0 | -301.7 | 887.3 | 762.2 | 125.11 | 7.093 | |
| 12,631.5 | 9,400.0 | 12,539.1 | 9,400.0 | 64.4 | 62.5 | 90.00 | -3,232.3 | -303.4 | 887.5 | 761.7 | 125.71 | 7.060 | |
| 12,700.0 | 9,400.0 | 12,600.0 | 9,400.0 | 65.4 | 63.3 | 90.00 | -3,292.9 | -309.6 | 888.8 | 761.4 | 127.39 | 6.977 | |
| 12,800.0 | 9,400.0 | 12,653.2 | 9,400.0 | 66.7 | 64.1 | 90.00 | -3,345.6 | -316.6 | 893.3 | 764.5 | 128.75 | 6.938 | |
| 12,900.0 | 9,400.0 | 12,720.5 | 9,400.0 | 68.1 | 65.0 | 90.00 | -3,412.0 | -327.6 | 901.6 | 771.2 | 130.39 | 6.915 | |
| 13,000.0 | 9,400.0 | 12,800.0 | 9,400.0 | 69.5 | 66.1 | 90.00 | -3,489.8 | -343.7 | 913.6 | 781.2 | 132.40 | 6.900 | |
| 13,100.0 | 9,400.0 | 12,853.5 | 9,400.0 | 70.9 | 66.8 | 90.00 | -3,541.8 | -356.4 | 928.9 | 795.6 | 133.27 | 6.970 | |
| 13,200.0 | 9,400.0 | 12,918.9 | 9,400.0 | 72.3 | 67.7 | 90.00 | -3,604.8 | -373.9 | 947.8 | 813.3 | 134.51 | 7.046 | |
| 13,300.0 | 9,400.0 | 13,000.0 | 9,400.0 | 73.7 | 68.7 | 90.00 | -3,682.0 | -398.7 | 970.3 | 833.9 | 136.43 | 7.112 | |
| 13,400.0 | 9,400.0 | 13,046.7 | 9,400.0 | 75.2 | 69.3 | 90.00 | -3,726.0 | -414.4 | 995.7 | 859.1 | 136.57 | 7.291 | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

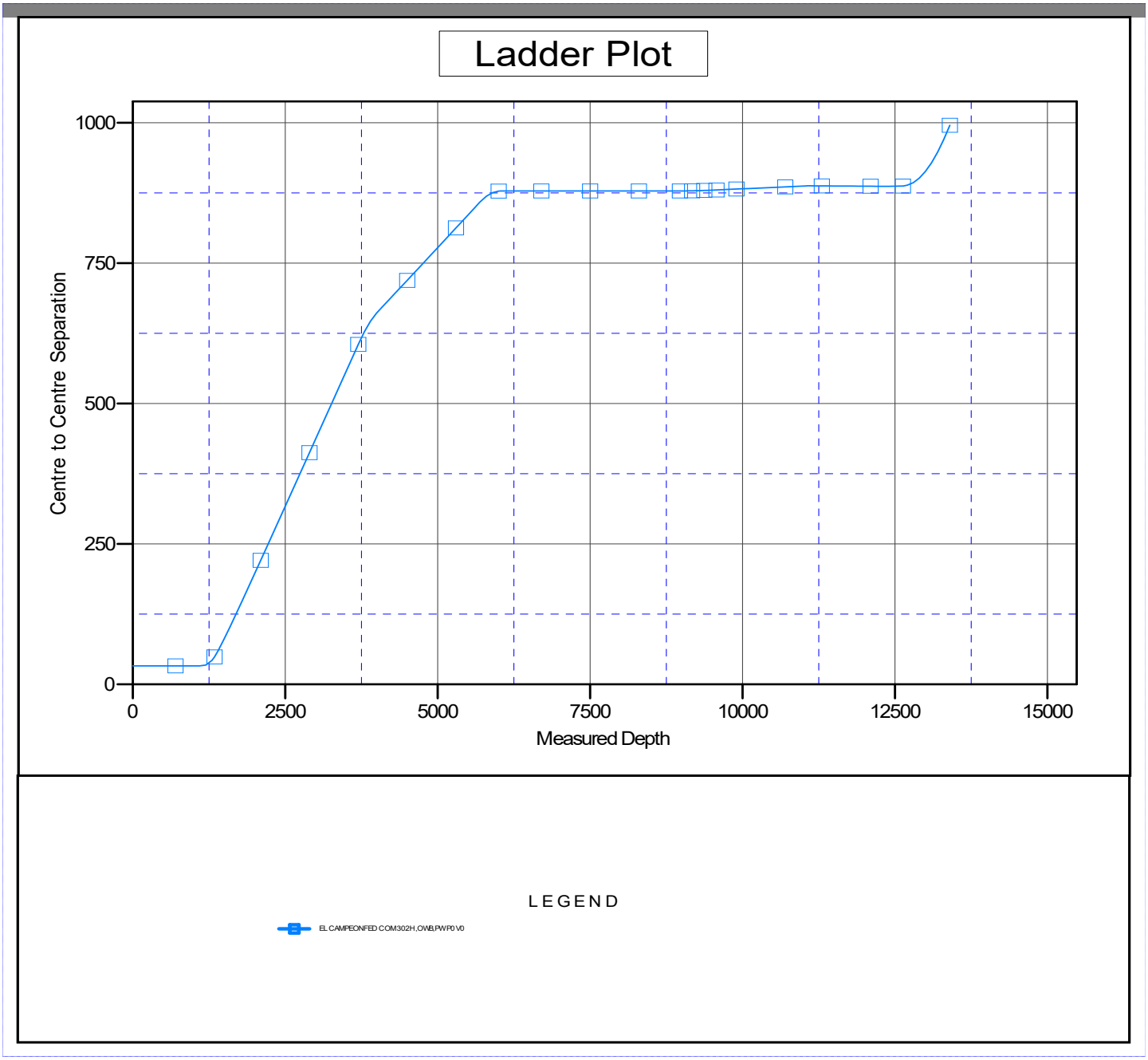
# PR

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to KB @ 3204.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: EL CAMPEON FED COM 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.50°



PERMIAN RESOURCES

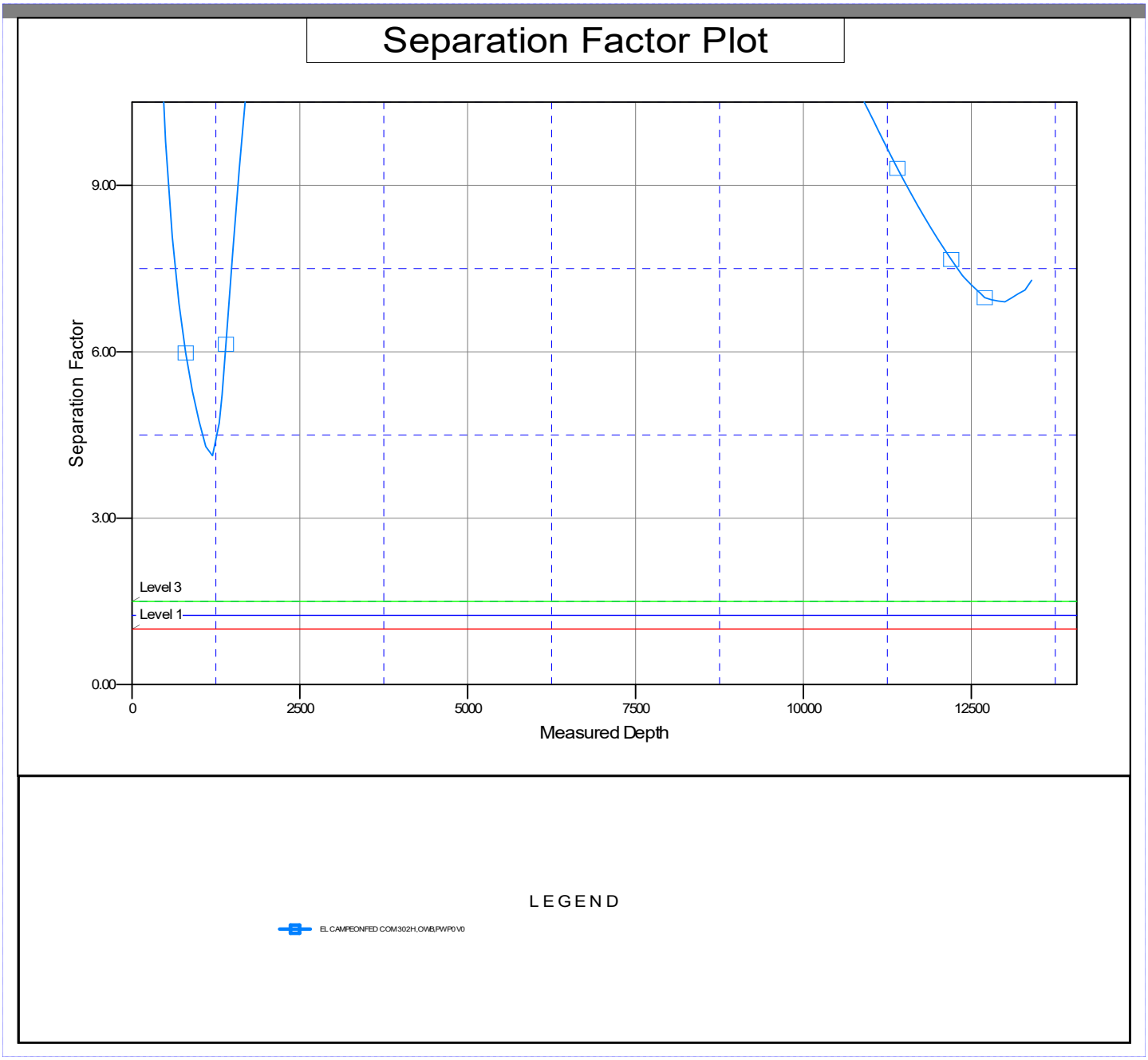
**PR**

Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Project:** | (SP) LEA | **TVD Reference:** | KB @ 3204.0usft |
| **Reference Site:** | EL CAMPEON FED PROJECT | **MD Reference:** | KB @ 3204.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_18 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to KB @ 3204.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: EL CAMPEON FED COM 3H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.50°






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PERMIAN RESOURCES

County: (SP) LEA
Site: EL CAMPEON FED PROJECT
Well: EL CAMPEON FED COM 3H
GE: 3174.0
Plan: PWP0

DESIGN TARGET DETAILS

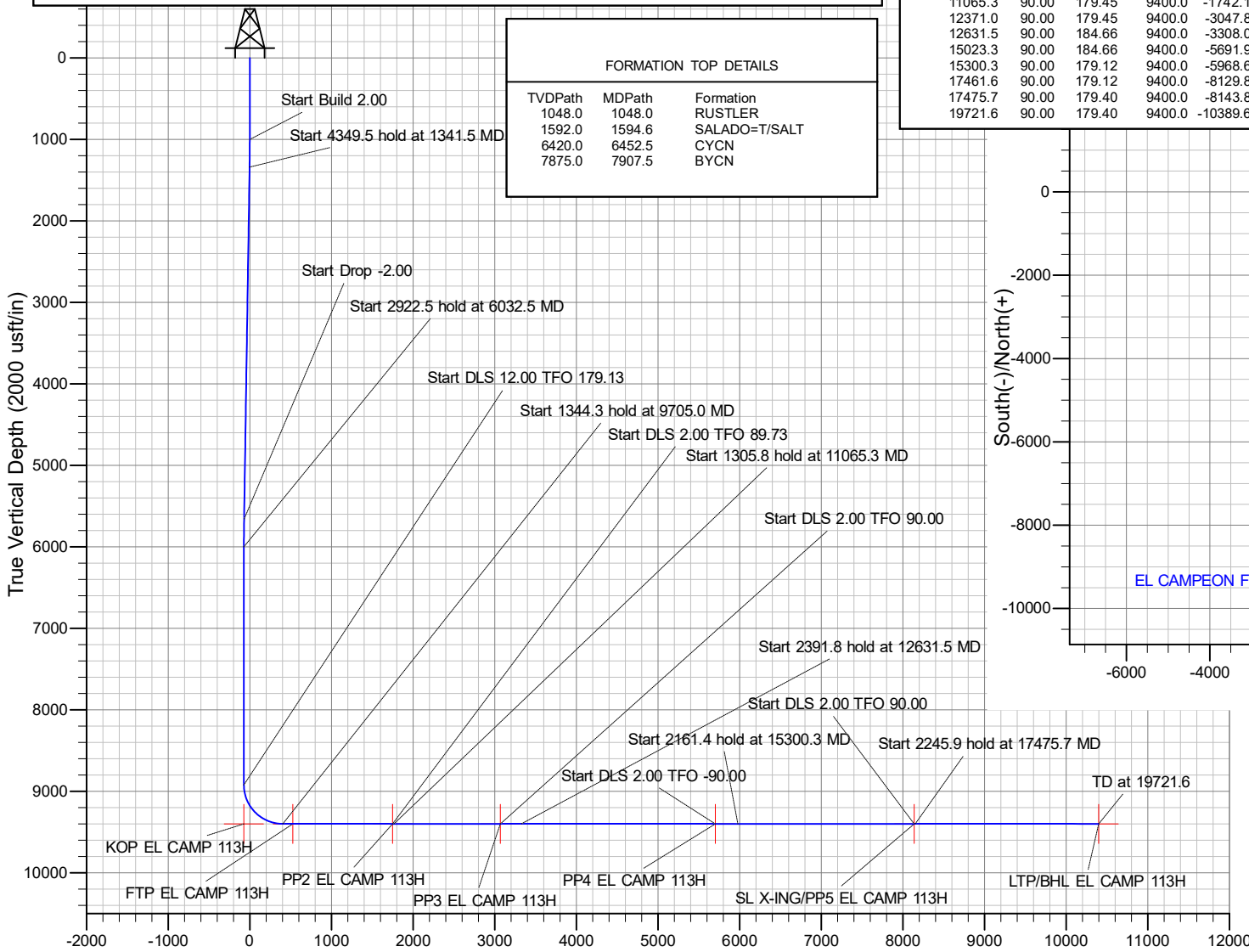
| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|---|---|---|---|---|---|
| FTP EL CAMP 113H | 9400.0 | -504.5 | 565.6 | 372745.86 | 833775.81 |
| KOP EL CAMP 113H | 9400.0 | 95.4 | 549.7 | 373345.82 | 833759.92 |
| LTP/BHL EL CAMP 113H | 9400.0 | -10389.6 | 434.5 | 362860.76 | 833644.68 |
| PP2 EL CAMP 113H | 9400.0 | -1726.2 | 577.4 | 371524.24 | 833787.60 |
| PP3 EL CAMP 113H | 9400.0 | -3047.8 | 590.2 | 370202.57 | 833800.36 |
| PP4 EL CAMP 113H | 9400.0 | -5691.9 | 386.6 | 367558.47 | 833596.82 |
| SL X-ING/PP5 EL CAMP 113H | 9400.0 | -8129.8 | 410.8 | 365120.64 | 833620.96 |

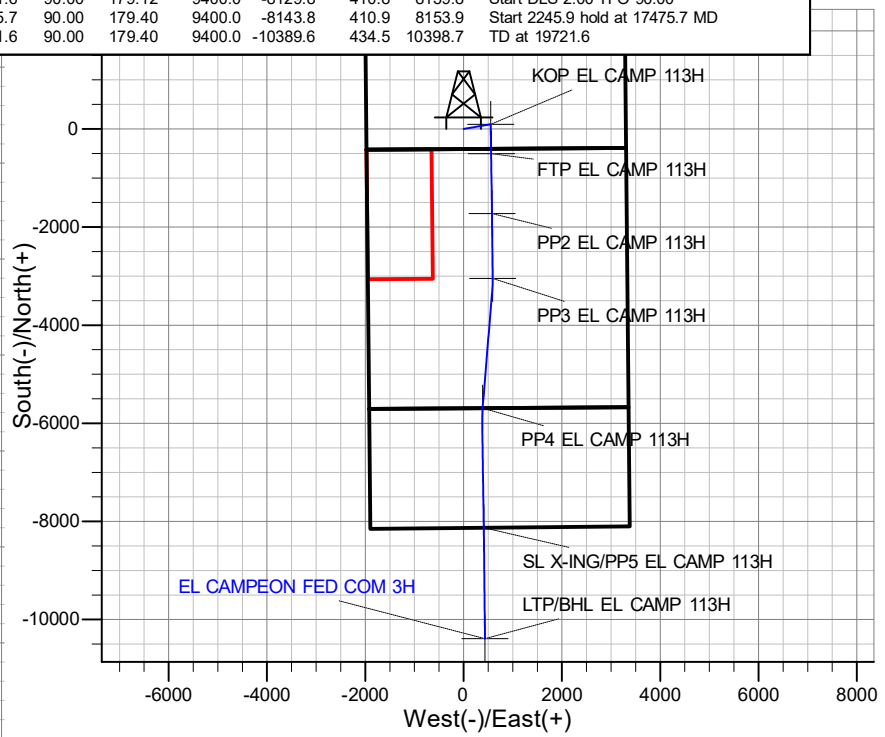
FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---|---|---|
| 1048.0 | 1048.0 | RUSTLER |
| 1592.0 | 1594.6 | SALADO=T/SALT |
| 6420.0 | 6452.5 | CYCN |
| 7875.0 | 7907.5 | BYCN |

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSect | Annotation |
|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.0 | Start Build 2.00 |
| 1341.5 | 6.83 | 80.15 | 1340.7 | 3.5 | 20.0 | -2.6 | Start 4349.5 hold at 1341.5 MD |
| 5691.0 | 6.83 | 80.15 | 5659.3 | 91.9 | 529.7 | -69.7 | Start Drop -2.00 |
| 6032.5 | 0.00 | 0.00 | 6000.0 | 95.4 | 549.7 | -72.4 | Start 2922.5 hold at 6032.5 MD |
| 8955.0 | 0.00 | 0.00 | 8922.5 | 95.4 | 549.7 | -72.4 | Start DLS 12.00 TFO 179.13 |
| 9705.0 | 90.00 | 179.13 | 9400.0 | -382.0 | 557.0 | 404.9 | Start 1344.3 hold at 9705.0 MD |
| 11049.3 | 90.00 | 179.13 | 9400.0 | -1726.2 | 577.4 | 1748.8 | Start DLS 2.00 TFO 89.73 |
| 11065.3 | 90.00 | 179.45 | 9400.0 | -1742.1 | 577.6 | 1764.7 | Start 1305.8 hold at 11065.3 MD |
| 12371.0 | 90.00 | 179.45 | 9400.0 | -3047.8 | 590.2 | 3069.8 | Start DLS 2.00 TFO 90.00 |
| 12631.5 | 90.00 | 184.66 | 9400.0 | -3308.0 | 580.8 | 3329.4 | Start 2391.8 hold at 12631.5 MD |
| 15023.3 | 90.00 | 184.66 | 9400.0 | -5691.9 | 386.6 | 5703.1 | Start DLS 2.00 TFO -90.00 |
| 15300.3 | 90.00 | 179.12 | 9400.0 | -5968.6 | 377.5 | 5979.2 | Start 2161.4 hold at 15300.3 MD |
| 17461.6 | 90.00 | 179.12 | 9400.0 | -8129.8 | 410.8 | 8139.8 | Start DLS 2.00 TFO 90.00 |
| 17475.7 | 90.00 | 179.40 | 9400.0 | -8143.8 | 410.9 | 8153.9 | Start 2245.9 hold at 17475.7 MD |
| 19721.6 | 90.00 | 179.40 | 9400.0 | -10389.6 | 434.5 | 10398.7 | TD at 19721.6 |



PERMIAN RESOURCES

# NEW MEXICO

**(SP) LEA**
**EL CAMPEON FED PROJECT**
**EL CAMPEON FED COM 3H**

**OWB**

**Plan: PWP0**

# Standard Planning Report - Geographic

**27 July, 2026**

PERMIAN RESOURCES

# PR

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Project** (SP) LEA

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Eastern Zone | | |

**Site** EL CAMPEON FED PROJECT

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 371,005.08 usft | **Latitude:** | 32° 0' 59.423 N |
| **From:** | Map | **Easting:** | 831,976.77 usft | **Longitude:** | 103° 23' 44.166 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | | |

**Well** EL CAMPEON FED COM 3H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 373,250.40 usft | **Latitude:** | 32° 1' 21.535 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 833,210.20 usft | **Longitude:** | 103° 23' 29.614 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,174.0 usft |
| **Grid Convergence:** | | 0.50 ° | | | | |

**Wellbore** OWB

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF200510 | 12/31/2009 | 7.65 | 60.09 | 48,693.32271920 |

**Design** PWP0

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 177.61 |

**Plan Survey Tool Program** **Date** 7/27/2026

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.0 | 19,721.6 | PWP0 (OWB) | MWD<br>OWSG_Rev2_ MWD - Standa | |

PERMIAN RESOURCES

# PR

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,341.5 | 6.83 | 80.15 | 1,340.7 | 3.5 | 20.0 | 2.00 | 2.00 | 0.00 | 80.15 | |
| 5,691.0 | 6.83 | 80.15 | 5,659.3 | 91.9 | 529.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,032.5 | 0.00 | 0.00 | 6,000.0 | 95.4 | 549.7 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 8,955.0 | 0.00 | 0.00 | 8,922.5 | 95.4 | 549.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,705.0 | 90.00 | 179.13 | 9,400.0 | -382.0 | 557.0 | 12.00 | 12.00 | 23.88 | 179.13 | |
| 11,049.3 | 90.00 | 179.13 | 9,400.0 | -1,726.2 | 577.4 | 0.00 | 0.00 | 0.00 | 0.00 | PP2 EL CAMP 113H |
| 11,065.3 | 90.00 | 179.45 | 9,400.0 | -1,742.1 | 577.6 | 2.00 | 0.01 | 2.00 | 89.73 | |
| 12,371.0 | 90.00 | 179.45 | 9,400.0 | -3,047.8 | 590.2 | 0.00 | 0.00 | 0.00 | 0.00 | PP3 EL CAMP 113H |
| 12,631.5 | 90.00 | 184.66 | 9,400.0 | -3,308.0 | 580.8 | 2.00 | 0.00 | 2.00 | 90.00 | |
| 15,023.3 | 90.00 | 184.66 | 9,400.0 | -5,691.9 | 386.6 | 0.00 | 0.00 | 0.00 | 0.00 | PP4 EL CAMP 113H |
| 15,300.3 | 90.00 | 179.12 | 9,400.0 | -5,968.6 | 377.5 | 2.00 | 0.00 | -2.00 | -90.00 | |
| 17,461.6 | 90.00 | 179.12 | 9,400.0 | -8,129.8 | 410.8 | 0.00 | 0.00 | 0.00 | 0.00 | SL X-ING/PP5 EL CA |
| 17,475.7 | 90.00 | 179.40 | 9,400.0 | -8,143.8 | 410.9 | 2.00 | 0.00 | 2.00 | 90.00 | |
| 19,721.6 | 90.00 | 179.40 | 9,400.0 | -10,389.6 | 434.5 | 0.00 | 0.00 | 0.00 | 0.00 | LTP/BHL EL CAMP 1 |

PERMIAN RESOURCES

# PR
Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 373,250.40 | 833,210.20 | 32° 1' 21.535 N | 103° 23' 29.614 W |
| **Start Build 2.00** | | | | | | | | | |
| 1,100.0 | 2.00 | 80.15 | 1,100.0 | 0.3 | 1.7 | 373,250.70 | 833,211.92 | 32° 1' 21.538 N | 103° 23' 29.594 W |
| 1,200.0 | 4.00 | 80.15 | 1,199.8 | 1.2 | 6.9 | 373,251.59 | 833,217.07 | 32° 1' 21.546 N | 103° 23' 29.534 W |
| 1,300.0 | 6.00 | 80.15 | 1,299.5 | 2.7 | 15.5 | 373,253.08 | 833,225.66 | 32° 1' 21.560 N | 103° 23' 29.434 W |
| 1,341.5 | 6.83 | 80.15 | 1,340.7 | 3.5 | 20.0 | 373,253.88 | 833,230.23 | 32° 1' 21.568 N | 103° 23' 29.381 W |
| **Start 4349.5 hold at 1341.5 MD** | | | | | | | | | |
| 1,400.0 | 6.83 | 80.15 | 1,398.8 | 4.7 | 26.9 | 373,255.07 | 833,237.08 | 32° 1' 21.579 N | 103° 23' 29.301 W |
| 1,500.0 | 6.83 | 80.15 | 1,498.1 | 6.7 | 38.6 | 373,257.10 | 833,248.80 | 32° 1' 21.598 N | 103° 23' 29.165 W |
| 1,600.0 | 6.83 | 80.15 | 1,597.4 | 8.7 | 50.3 | 373,259.13 | 833,260.52 | 32° 1' 21.617 N | 103° 23' 29.028 W |
| 1,700.0 | 6.83 | 80.15 | 1,696.6 | 10.8 | 62.0 | 373,261.17 | 833,272.24 | 32° 1' 21.636 N | 103° 23' 28.892 W |
| 1,800.0 | 6.83 | 80.15 | 1,795.9 | 12.8 | 73.8 | 373,263.20 | 833,283.95 | 32° 1' 21.655 N | 103° 23' 28.756 W |
| 1,900.0 | 6.83 | 80.15 | 1,895.2 | 14.8 | 85.5 | 373,265.23 | 833,295.67 | 32° 1' 21.674 N | 103° 23' 28.619 W |
| 2,000.0 | 6.83 | 80.15 | 1,994.5 | 16.9 | 97.2 | 373,267.27 | 833,307.39 | 32° 1' 21.693 N | 103° 23' 28.483 W |
| 2,100.0 | 6.83 | 80.15 | 2,093.8 | 18.9 | 108.9 | 373,269.30 | 833,319.11 | 32° 1' 21.713 N | 103° 23' 28.347 W |
| 2,200.0 | 6.83 | 80.15 | 2,193.1 | 20.9 | 120.6 | 373,271.34 | 833,330.83 | 32° 1' 21.732 N | 103° 23' 28.211 W |
| 2,300.0 | 6.83 | 80.15 | 2,292.4 | 23.0 | 132.3 | 373,273.37 | 833,342.54 | 32° 1' 21.751 N | 103° 23' 28.074 W |
| 2,400.0 | 6.83 | 80.15 | 2,391.7 | 25.0 | 144.1 | 373,275.40 | 833,354.26 | 32° 1' 21.770 N | 103° 23' 27.938 W |
| 2,500.0 | 6.83 | 80.15 | 2,491.0 | 27.0 | 155.8 | 373,277.44 | 833,365.98 | 32° 1' 21.789 N | 103° 23' 27.802 W |
| 2,600.0 | 6.83 | 80.15 | 2,590.3 | 29.1 | 167.5 | 373,279.47 | 833,377.70 | 32° 1' 21.808 N | 103° 23' 27.665 W |
| 2,700.0 | 6.83 | 80.15 | 2,689.6 | 31.1 | 179.2 | 373,281.51 | 833,389.41 | 32° 1' 21.827 N | 103° 23' 27.529 W |
| 2,800.0 | 6.83 | 80.15 | 2,788.8 | 33.1 | 190.9 | 373,283.54 | 833,401.13 | 32° 1' 21.846 N | 103° 23' 27.393 W |
| 2,900.0 | 6.83 | 80.15 | 2,888.1 | 35.2 | 202.7 | 373,285.57 | 833,412.85 | 32° 1' 21.865 N | 103° 23' 27.256 W |
| 3,000.0 | 6.83 | 80.15 | 2,987.4 | 37.2 | 214.4 | 373,287.61 | 833,424.57 | 32° 1' 21.885 N | 103° 23' 27.120 W |
| 3,100.0 | 6.83 | 80.15 | 3,086.7 | 39.2 | 226.1 | 373,289.64 | 833,436.28 | 32° 1' 21.904 N | 103° 23' 26.984 W |
| 3,200.0 | 6.83 | 80.15 | 3,186.0 | 41.3 | 237.8 | 373,291.68 | 833,448.00 | 32° 1' 21.923 N | 103° 23' 26.848 W |
| 3,300.0 | 6.83 | 80.15 | 3,285.3 | 43.3 | 249.5 | 373,293.71 | 833,459.72 | 32° 1' 21.942 N | 103° 23' 26.711 W |
| 3,400.0 | 6.83 | 80.15 | 3,384.6 | 45.3 | 261.2 | 373,295.74 | 833,471.44 | 32° 1' 21.961 N | 103° 23' 26.575 W |
| 3,500.0 | 6.83 | 80.15 | 3,483.9 | 47.4 | 273.0 | 373,297.78 | 833,483.16 | 32° 1' 21.980 N | 103° 23' 26.439 W |
| 3,600.0 | 6.83 | 80.15 | 3,583.2 | 49.4 | 284.7 | 373,299.81 | 833,494.87 | 32° 1' 21.999 N | 103° 23' 26.302 W |
| 3,700.0 | 6.83 | 80.15 | 3,682.5 | 51.4 | 296.4 | 373,301.85 | 833,506.59 | 32° 1' 22.018 N | 103° 23' 26.166 W |
| 3,800.0 | 6.83 | 80.15 | 3,781.7 | 53.5 | 308.1 | 373,303.88 | 833,518.31 | 32° 1' 22.037 N | 103° 23' 26.030 W |
| 3,900.0 | 6.83 | 80.15 | 3,881.0 | 55.5 | 319.8 | 373,305.91 | 833,530.03 | 32° 1' 22.057 N | 103° 23' 25.893 W |
| 4,000.0 | 6.83 | 80.15 | 3,980.3 | 57.5 | 331.5 | 373,307.95 | 833,541.74 | 32° 1' 22.076 N | 103° 23' 25.757 W |
| 4,100.0 | 6.83 | 80.15 | 4,079.6 | 59.6 | 343.3 | 373,309.98 | 833,553.46 | 32° 1' 22.095 N | 103° 23' 25.621 W |
| 4,200.0 | 6.83 | 80.15 | 4,178.9 | 61.6 | 355.0 | 373,312.02 | 833,565.18 | 32° 1' 22.114 N | 103° 23' 25.485 W |
| 4,300.0 | 6.83 | 80.15 | 4,278.2 | 63.7 | 366.7 | 373,314.05 | 833,576.90 | 32° 1' 22.133 N | 103° 23' 25.348 W |
| 4,400.0 | 6.83 | 80.15 | 4,377.5 | 65.7 | 378.4 | 373,316.08 | 833,588.61 | 32° 1' 22.152 N | 103° 23' 25.212 W |
| 4,500.0 | 6.83 | 80.15 | 4,476.8 | 67.7 | 390.1 | 373,318.12 | 833,600.33 | 32° 1' 22.171 N | 103° 23' 25.076 W |
| 4,600.0 | 6.83 | 80.15 | 4,576.1 | 69.8 | 401.9 | 373,320.15 | 833,612.05 | 32° 1' 22.190 N | 103° 23' 24.939 W |
| 4,700.0 | 6.83 | 80.15 | 4,675.4 | 71.8 | 413.6 | 373,322.19 | 833,623.77 | 32° 1' 22.210 N | 103° 23' 24.803 W |
| 4,800.0 | 6.83 | 80.15 | 4,774.6 | 73.8 | 425.3 | 373,324.22 | 833,635.49 | 32° 1' 22.229 N | 103° 23' 24.667 W |
| 4,900.0 | 6.83 | 80.15 | 4,873.9 | 75.9 | 437.0 | 373,326.25 | 833,647.20 | 32° 1' 22.248 N | 103° 23' 24.530 W |
| 5,000.0 | 6.83 | 80.15 | 4,973.2 | 77.9 | 448.7 | 373,328.29 | 833,658.92 | 32° 1' 22.267 N | 103° 23' 24.394 W |



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PERMIAN RESOURCES

# PR
Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 6.83 | 80.15 | 5,072.5 | 79.9 | 460.4 | 373,330.32 | 833,670.64 | 32° 1' 22.286 N | 103° 23' 24.258 W |
| 5,200.0 | 6.83 | 80.15 | 5,171.8 | 82.0 | 472.2 | 373,332.36 | 833,682.36 | 32° 1' 22.305 N | 103° 23' 24.122 W |
| 5,300.0 | 6.83 | 80.15 | 5,271.1 | 84.0 | 483.9 | 373,334.39 | 833,694.07 | 32° 1' 22.324 N | 103° 23' 23.985 W |
| 5,400.0 | 6.83 | 80.15 | 5,370.4 | 86.0 | 495.6 | 373,336.42 | 833,705.79 | 32° 1' 22.343 N | 103° 23' 23.849 W |
| 5,500.0 | 6.83 | 80.15 | 5,469.7 | 88.1 | 507.3 | 373,338.46 | 833,717.51 | 32° 1' 22.362 N | 103° 23' 23.713 W |
| 5,600.0 | 6.83 | 80.15 | 5,569.0 | 90.1 | 519.0 | 373,340.49 | 833,729.23 | 32° 1' 22.382 N | 103° 23' 23.576 W |
| 5,691.0 | 6.83 | 80.15 | 5,659.3 | 91.9 | 529.7 | 373,342.34 | 833,739.89 | 32° 1' 22.399 N | 103° 23' 23.452 W |
| **Start Drop -2.00** | | | | | | | | | |
| 5,700.0 | 6.65 | 80.15 | 5,668.3 | 92.1 | 530.7 | 373,342.52 | 833,740.93 | 32° 1' 22.401 N | 103° 23' 23.440 W |
| 5,800.0 | 4.65 | 80.15 | 5,767.8 | 93.8 | 540.4 | 373,344.21 | 833,750.63 | 32° 1' 22.416 N | 103° 23' 23.327 W |
| 5,900.0 | 2.65 | 80.15 | 5,867.6 | 94.9 | 546.7 | 373,345.29 | 833,756.90 | 32° 1' 22.427 N | 103° 23' 23.254 W |
| 6,000.0 | 0.65 | 80.15 | 5,967.5 | 95.4 | 549.5 | 373,345.79 | 833,759.74 | 32° 1' 22.431 N | 103° 23' 23.221 W |
| 6,032.5 | 0.00 | 0.00 | 6,000.0 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| **Start 2922.5 hold at 6032.5 MD** | | | | | | | | | |
| 6,100.0 | 0.00 | 0.00 | 6,067.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,200.0 | 0.00 | 0.00 | 6,167.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,300.0 | 0.00 | 0.00 | 6,267.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,400.0 | 0.00 | 0.00 | 6,367.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,500.0 | 0.00 | 0.00 | 6,467.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,600.0 | 0.00 | 0.00 | 6,567.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,700.0 | 0.00 | 0.00 | 6,667.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,800.0 | 0.00 | 0.00 | 6,767.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 6,900.0 | 0.00 | 0.00 | 6,867.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,000.0 | 0.00 | 0.00 | 6,967.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,100.0 | 0.00 | 0.00 | 7,067.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,200.0 | 0.00 | 0.00 | 7,167.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,300.0 | 0.00 | 0.00 | 7,267.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,400.0 | 0.00 | 0.00 | 7,367.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,500.0 | 0.00 | 0.00 | 7,467.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,600.0 | 0.00 | 0.00 | 7,567.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,700.0 | 0.00 | 0.00 | 7,667.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,800.0 | 0.00 | 0.00 | 7,767.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 7,900.0 | 0.00 | 0.00 | 7,867.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,000.0 | 0.00 | 0.00 | 7,967.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,100.0 | 0.00 | 0.00 | 8,067.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,200.0 | 0.00 | 0.00 | 8,167.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,300.0 | 0.00 | 0.00 | 8,267.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,400.0 | 0.00 | 0.00 | 8,367.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,500.0 | 0.00 | 0.00 | 8,467.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,600.0 | 0.00 | 0.00 | 8,567.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,700.0 | 0.00 | 0.00 | 8,667.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,800.0 | 0.00 | 0.00 | 8,767.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,900.0 | 0.00 | 0.00 | 8,867.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| 8,955.0 | 0.00 | 0.00 | 8,922.5 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |
| **Start DLS 12.00 TFO 179.13** | | | | | | | | | |
| 8,975.0 | 2.40 | 179.13 | 8,942.5 | 95.0 | 549.7 | 373,345.40 | 833,759.93 | 32° 1' 22.427 N | 103° 23' 23.219 W |
| 9,000.0 | 5.40 | 179.13 | 8,967.4 | 93.3 | 549.8 | 373,343.70 | 833,759.95 | 32° 1' 22.411 N | 103° 23' 23.219 W |
| 9,025.0 | 8.40 | 179.13 | 8,992.3 | 90.3 | 549.8 | 373,340.69 | 833,760.00 | 32° 1' 22.381 N | 103° 23' 23.219 W |
| 9,050.0 | 11.40 | 179.13 | 9,016.9 | 86.0 | 549.9 | 373,336.40 | 833,760.06 | 32° 1' 22.338 N | 103° 23' 23.219 W |
| 9,075.0 | 14.40 | 179.13 | 9,041.3 | 80.4 | 549.9 | 373,330.82 | 833,760.15 | 32° 1' 22.283 N | 103° 23' 23.218 W |
| 9,100.0 | 17.40 | 179.13 | 9,065.3 | 73.6 | 550.1 | 373,323.97 | 833,760.25 | 32° 1' 22.215 N | 103° 23' 23.218 W |
| 9,125.0 | 20.40 | 179.13 | 9,088.9 | 65.5 | 550.2 | 373,315.87 | 833,760.37 | 32° 1' 22.135 N | 103° 23' 23.217 W |
| 9,150.0 | 23.40 | 179.13 | 9,112.1 | 56.1 | 550.3 | 373,306.55 | 833,760.52 | 32° 1' 22.043 N | 103° 23' 23.216 W |
| 9,175.0 | 26.40 | 179.13 | 9,134.8 | 45.6 | 550.5 | 373,296.02 | 833,760.68 | 32° 1' 21.939 N | 103° 23' 23.216 W |

PERMIAN RESOURCES

# PR
Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 9,200.0 | 29.40 | 179.13 | 9,156.9 | 33.9 | 550.7 | 373,284.33 | 833,760.85 | 32° 1' 21.823 N | 103° 23' 23.215 W |
| 9,225.0 | 32.40 | 179.13 | 9,178.4 | 21.1 | 550.8 | 373,271.49 | 833,761.05 | 32° 1' 21.696 N | 103° 23' 23.214 W |
| 9,250.0 | 35.40 | 179.13 | 9,199.1 | 7.2 | 551.1 | 373,257.55 | 833,761.26 | 32° 1' 21.558 N | 103° 23' 23.213 W |
| 9,275.0 | 38.40 | 179.13 | 9,219.1 | -7.9 | 551.3 | 373,242.54 | 833,761.49 | 32° 1' 21.410 N | 103° 23' 23.212 W |
| 9,300.0 | 41.40 | 179.13 | 9,238.3 | -23.9 | 551.5 | 373,226.51 | 833,761.73 | 32° 1' 21.251 N | 103° 23' 23.210 W |
| 9,325.0 | 44.40 | 179.13 | 9,256.6 | -40.9 | 551.8 | 373,209.49 | 833,761.99 | 32° 1' 21.082 N | 103° 23' 23.209 W |
| 9,326.9 | 44.63 | 179.13 | 9,257.9 | -42.2 | 551.8 | 373,208.17 | 833,762.01 | 32° 1' 21.069 N | 103° 23' 23.209 W |
| **KOP EL CAMP 113H** | | | | | | | | | |
| 9,350.0 | 47.40 | 179.13 | 9,274.0 | -58.9 | 552.1 | 373,191.55 | 833,762.26 | 32° 1' 20.905 N | 103° 23' 23.208 W |
| 9,375.0 | 50.40 | 179.13 | 9,290.4 | -77.7 | 552.4 | 373,172.71 | 833,762.55 | 32° 1' 20.718 N | 103° 23' 23.206 W |
| 9,400.0 | 53.40 | 179.13 | 9,305.8 | -97.4 | 552.6 | 373,153.04 | 833,762.85 | 32° 1' 20.524 N | 103° 23' 23.205 W |
| 9,425.0 | 56.40 | 179.13 | 9,320.2 | -117.8 | 553.0 | 373,132.59 | 833,763.16 | 32° 1' 20.321 N | 103° 23' 23.203 W |
| 9,450.0 | 59.40 | 179.13 | 9,333.5 | -139.0 | 553.3 | 373,111.42 | 833,763.48 | 32° 1' 20.112 N | 103° 23' 23.202 W |
| 9,475.0 | 62.40 | 179.13 | 9,345.6 | -160.8 | 553.6 | 373,089.58 | 833,763.81 | 32° 1' 19.896 N | 103° 23' 23.200 W |
| 9,500.0 | 65.40 | 179.13 | 9,356.6 | -183.3 | 554.0 | 373,067.13 | 833,764.15 | 32° 1' 19.674 N | 103° 23' 23.198 W |
| 9,525.0 | 68.40 | 179.13 | 9,366.4 | -206.3 | 554.3 | 373,044.14 | 833,764.50 | 32° 1' 19.446 N | 103° 23' 23.197 W |
| 9,550.0 | 71.40 | 179.13 | 9,375.0 | -229.7 | 554.7 | 373,020.67 | 833,764.86 | 32° 1' 19.214 N | 103° 23' 23.195 W |
| 9,575.0 | 74.40 | 179.13 | 9,382.4 | -253.6 | 555.0 | 372,996.78 | 833,765.22 | 32° 1' 18.977 N | 103° 23' 23.193 W |
| 9,600.0 | 77.40 | 179.13 | 9,388.5 | -277.9 | 555.4 | 372,972.54 | 833,765.59 | 32° 1' 18.737 N | 103° 23' 23.191 W |
| 9,625.0 | 80.40 | 179.13 | 9,393.3 | -302.4 | 555.8 | 372,948.01 | 833,765.96 | 32° 1' 18.495 N | 103° 23' 23.189 W |
| 9,650.0 | 83.40 | 179.13 | 9,396.8 | -327.1 | 556.1 | 372,923.27 | 833,766.34 | 32° 1' 18.250 N | 103° 23' 23.188 W |
| 9,675.0 | 86.40 | 179.13 | 9,399.0 | -352.0 | 556.5 | 372,898.37 | 833,766.72 | 32° 1' 18.003 N | 103° 23' 23.186 W |
| 9,700.0 | 89.40 | 179.13 | 9,399.9 | -377.0 | 556.9 | 372,873.39 | 833,767.10 | 32° 1' 17.756 N | 103° 23' 23.184 W |
| 9,705.0 | 90.00 | 179.13 | 9,400.0 | -382.0 | 557.0 | 372,868.42 | 833,767.17 | 32° 1' 17.707 N | 103° 23' 23.183 W |
| **Start 1344.3 hold at 9705.0 MD** | | | | | | | | | |
| 9,800.0 | 90.00 | 179.13 | 9,400.0 | -477.0 | 558.4 | 372,773.41 | 833,768.62 | 32° 1' 16.767 N | 103° 23' 23.176 W |
| 9,827.7 | 90.00 | 179.13 | 9,400.0 | -504.6 | 558.8 | 372,745.76 | 833,769.04 | 32° 1' 16.493 N | 103° 23' 23.174 W |
| **FTP EL CAMP 113H** | | | | | | | | | |
| 9,900.0 | 90.00 | 179.13 | 9,400.0 | -577.0 | 559.9 | 372,673.42 | 833,770.14 | 32° 1' 15.777 N | 103° 23' 23.169 W |
| 10,000.0 | 90.00 | 179.13 | 9,400.0 | -677.0 | 561.5 | 372,573.43 | 833,771.66 | 32° 1' 14.788 N | 103° 23' 23.161 W |
| 10,100.0 | 90.00 | 179.13 | 9,400.0 | -777.0 | 563.0 | 372,473.44 | 833,773.17 | 32° 1' 13.798 N | 103° 23' 23.154 W |
| 10,200.0 | 90.00 | 179.13 | 9,400.0 | -876.9 | 564.5 | 372,373.45 | 833,774.69 | 32° 1' 12.809 N | 103° 23' 23.146 W |
| 10,300.0 | 90.00 | 179.13 | 9,400.0 | -976.9 | 566.0 | 372,273.46 | 833,776.21 | 32° 1' 11.819 N | 103° 23' 23.139 W |
| 10,400.0 | 90.00 | 179.13 | 9,400.0 | -1,076.9 | 567.5 | 372,173.47 | 833,777.73 | 32° 1' 10.830 N | 103° 23' 23.131 W |
| 10,500.0 | 90.00 | 179.13 | 9,400.0 | -1,176.9 | 569.1 | 372,073.49 | 833,779.25 | 32° 1' 9.840 N | 103° 23' 23.124 W |
| 10,600.0 | 90.00 | 179.13 | 9,400.0 | -1,276.9 | 570.6 | 371,973.50 | 833,780.77 | 32° 1' 8.851 N | 103° 23' 23.116 W |
| 10,700.0 | 90.00 | 179.13 | 9,400.0 | -1,376.9 | 572.1 | 371,873.51 | 833,782.29 | 32° 1' 7.861 N | 103° 23' 23.109 W |
| 10,800.0 | 90.00 | 179.13 | 9,400.0 | -1,476.9 | 573.6 | 371,773.52 | 833,783.81 | 32° 1' 6.872 N | 103° 23' 23.101 W |
| 10,900.0 | 90.00 | 179.13 | 9,400.0 | -1,576.9 | 575.1 | 371,673.53 | 833,785.33 | 32° 1' 5.882 N | 103° 23' 23.094 W |
| 11,000.0 | 90.00 | 179.13 | 9,400.0 | -1,676.9 | 576.7 | 371,573.54 | 833,786.85 | 32° 1' 4.893 N | 103° 23' 23.086 W |
| 11,049.3 | 90.00 | 179.13 | 9,400.0 | -1,726.2 | 577.4 | 371,524.24 | 833,787.60 | 32° 1' 4.405 N | 103° 23' 23.083 W |
| **Start DLS 2.00 TFO 89.73 - PP2 EL CAMP 113H** | | | | | | | | | |
| 11,065.3 | 90.00 | 179.45 | 9,400.0 | -1,742.1 | 577.6 | 371,508.27 | 833,787.80 | 32° 1' 4.247 N | 103° 23' 23.082 W |
| **Start 1305.8 hold at 11065.3 MD** | | | | | | | | | |
| 11,100.0 | 90.00 | 179.45 | 9,400.0 | -1,776.8 | 577.9 | 371,473.55 | 833,788.13 | 32° 1' 3.903 N | 103° 23' 23.082 W |
| 11,200.0 | 90.00 | 179.45 | 9,400.0 | -1,876.8 | 578.9 | 371,373.56 | 833,789.09 | 32° 1' 2.913 N | 103° 23' 23.080 W |
| 11,300.0 | 90.00 | 179.45 | 9,400.0 | -1,976.8 | 579.9 | 371,273.56 | 833,790.05 | 32° 1' 1.924 N | 103° 23' 23.079 W |
| 11,400.0 | 90.00 | 179.45 | 9,400.0 | -2,076.8 | 580.8 | 371,173.57 | 833,791.02 | 32° 1' 0.934 N | 103° 23' 23.078 W |
| 11,500.0 | 90.00 | 179.45 | 9,400.0 | -2,176.8 | 581.8 | 371,073.57 | 833,791.98 | 32° 0' 59.945 N | 103° 23' 23.077 W |
| 11,600.0 | 90.00 | 179.45 | 9,400.0 | -2,276.8 | 582.7 | 370,973.58 | 833,792.94 | 32° 0' 58.955 N | 103° 23' 23.076 W |
| 11,700.0 | 90.00 | 179.45 | 9,400.0 | -2,376.8 | 583.7 | 370,873.58 | 833,793.90 | 32° 0' 57.966 N | 103° 23' 23.075 W |
| 11,800.0 | 90.00 | 179.45 | 9,400.0 | -2,476.8 | 584.7 | 370,773.58 | 833,794.87 | 32° 0' 56.976 N | 103° 23' 23.074 W |
| 11,900.0 | 90.00 | 179.45 | 9,400.0 | -2,576.8 | 585.6 | 370,673.59 | 833,795.83 | 32° 0' 55.987 N | 103° 23' 23.073 W |
| 12,000.0 | 90.00 | 179.45 | 9,400.0 | -2,676.8 | 586.6 | 370,573.59 | 833,796.79 | 32° 0' 54.997 N | 103° 23' 23.072 W |

PERMIAN RESOURCES

# PR

Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 12,100.0 | 90.00 | 179.45 | 9,400.0 | -2,776.8 | 587.6 | 370,473.60 | 833,797.75 | 32° 0' 54.008 N | 103° 23' 23.071 W |
| 12,200.0 | 90.00 | 179.45 | 9,400.0 | -2,876.8 | 588.5 | 370,373.60 | 833,798.71 | 32° 0' 53.018 N | 103° 23' 23.070 W |
| 12,300.0 | 90.00 | 179.45 | 9,400.0 | -2,976.8 | 589.5 | 370,273.61 | 833,799.68 | 32° 0' 52.029 N | 103° 23' 23.069 W |
| 12,371.0 | 90.00 | 179.45 | 9,400.0 | -3,047.8 | 590.2 | 370,202.57 | 833,800.36 | 32° 0' 51.326 N | 103° 23' 23.068 W |
| **Start DLS 2.00 TFO 90.00 - PP3 EL CAMP 113H** | | | | | | | | | |
| 12,400.0 | 90.00 | 180.03 | 9,400.0 | -3,076.8 | 590.3 | 370,173.61 | 833,800.49 | 32° 0' 51.039 N | 103° 23' 23.070 W |
| 12,500.0 | 90.00 | 182.03 | 9,400.0 | -3,176.8 | 588.5 | 370,073.63 | 833,798.70 | 32° 0' 50.050 N | 103° 23' 23.101 W |
| 12,600.0 | 90.00 | 184.03 | 9,400.0 | -3,276.6 | 583.2 | 369,973.78 | 833,793.41 | 32° 0' 49.062 N | 103° 23' 23.172 W |
| 12,631.5 | 90.00 | 184.66 | 9,400.0 | -3,308.0 | 580.8 | 369,942.39 | 833,791.03 | 32° 0' 48.752 N | 103° 23' 23.203 W |
| **Start 2391.8 hold at 12631.5 MD** | | | | | | | | | |
| 12,700.0 | 90.00 | 184.66 | 9,400.0 | -3,376.3 | 575.3 | 369,874.09 | 833,785.47 | 32° 0' 48.077 N | 103° 23' 23.275 W |
| 12,800.0 | 90.00 | 184.66 | 9,400.0 | -3,476.0 | 567.1 | 369,774.42 | 833,777.35 | 32° 0' 47.091 N | 103° 23' 23.379 W |
| 12,900.0 | 90.00 | 184.66 | 9,400.0 | -3,575.6 | 559.0 | 369,674.75 | 833,769.23 | 32° 0' 46.105 N | 103° 23' 23.483 W |
| 13,000.0 | 90.00 | 184.66 | 9,400.0 | -3,675.3 | 550.9 | 369,575.08 | 833,761.11 | 32° 0' 45.120 N | 103° 23' 23.588 W |
| 13,100.0 | 90.00 | 184.66 | 9,400.0 | -3,775.0 | 542.8 | 369,475.42 | 833,752.99 | 32° 0' 44.134 N | 103° 23' 23.692 W |
| 13,200.0 | 90.00 | 184.66 | 9,400.0 | -3,874.7 | 534.7 | 369,375.75 | 833,744.87 | 32° 0' 43.149 N | 103° 23' 23.797 W |
| 13,300.0 | 90.00 | 184.66 | 9,400.0 | -3,974.3 | 526.5 | 369,276.08 | 833,736.75 | 32° 0' 42.163 N | 103° 23' 23.901 W |
| 13,400.0 | 90.00 | 184.66 | 9,400.0 | -4,074.0 | 518.4 | 369,176.41 | 833,728.63 | 32° 0' 41.178 N | 103° 23' 24.005 W |
| 13,500.0 | 90.00 | 184.66 | 9,400.0 | -4,173.7 | 510.3 | 369,076.74 | 833,720.51 | 32° 0' 40.192 N | 103° 23' 24.110 W |
| 13,600.0 | 90.00 | 184.66 | 9,400.0 | -4,273.3 | 502.2 | 368,977.07 | 833,712.39 | 32° 0' 39.207 N | 103° 23' 24.214 W |
| 13,700.0 | 90.00 | 184.66 | 9,400.0 | -4,373.0 | 494.1 | 368,877.40 | 833,704.27 | 32° 0' 38.221 N | 103° 23' 24.319 W |
| 13,800.0 | 90.00 | 184.66 | 9,400.0 | -4,472.7 | 486.0 | 368,777.73 | 833,696.15 | 32° 0' 37.236 N | 103° 23' 24.423 W |
| 13,900.0 | 90.00 | 184.66 | 9,400.0 | -4,572.3 | 477.8 | 368,678.06 | 833,688.03 | 32° 0' 36.250 N | 103° 23' 24.527 W |
| 14,000.0 | 90.00 | 184.66 | 9,400.0 | -4,672.0 | 469.7 | 368,578.39 | 833,679.91 | 32° 0' 35.265 N | 103° 23' 24.632 W |
| 14,100.0 | 90.00 | 184.66 | 9,400.0 | -4,771.7 | 461.6 | 368,478.72 | 833,671.79 | 32° 0' 34.279 N | 103° 23' 24.736 W |
| 14,200.0 | 90.00 | 184.66 | 9,400.0 | -4,871.4 | 453.5 | 368,379.05 | 833,663.67 | 32° 0' 33.293 N | 103° 23' 24.841 W |
| 14,300.0 | 90.00 | 184.66 | 9,400.0 | -4,971.0 | 445.4 | 368,279.38 | 833,655.55 | 32° 0' 32.308 N | 103° 23' 24.945 W |
| 14,400.0 | 90.00 | 184.66 | 9,400.0 | -5,070.7 | 437.2 | 368,179.71 | 833,647.43 | 32° 0' 31.322 N | 103° 23' 25.049 W |
| 14,500.0 | 90.00 | 184.66 | 9,400.0 | -5,170.4 | 429.1 | 368,080.04 | 833,639.31 | 32° 0' 30.337 N | 103° 23' 25.154 W |
| 14,600.0 | 90.00 | 184.66 | 9,400.0 | -5,270.0 | 421.0 | 367,980.37 | 833,631.19 | 32° 0' 29.351 N | 103° 23' 25.258 W |
| 14,700.0 | 90.00 | 184.66 | 9,400.0 | -5,369.7 | 412.9 | 367,880.70 | 833,623.07 | 32° 0' 28.366 N | 103° 23' 25.363 W |
| 14,800.0 | 90.00 | 184.66 | 9,400.0 | -5,469.4 | 404.8 | 367,781.03 | 833,614.95 | 32° 0' 27.380 N | 103° 23' 25.467 W |
| 14,900.0 | 90.00 | 184.66 | 9,400.0 | -5,569.0 | 396.6 | 367,681.36 | 833,606.83 | 32° 0' 26.395 N | 103° 23' 25.571 W |
| 15,000.0 | 90.00 | 184.66 | 9,400.0 | -5,668.7 | 388.5 | 367,581.69 | 833,598.71 | 32° 0' 25.409 N | 103° 23' 25.676 W |
| 15,023.3 | 90.00 | 184.66 | 9,400.0 | -5,691.9 | 386.6 | 367,558.47 | 833,596.82 | 32° 0' 25.180 N | 103° 23' 25.700 W |
| **Start DLS 2.00 TFO -90.00 - PP4 EL CAMP 113H** | | | | | | | | | |
| 15,100.0 | 90.00 | 183.12 | 9,400.0 | -5,768.5 | 381.4 | 367,481.94 | 833,591.61 | 32° 0' 24.423 N | 103° 23' 25.768 W |
| 15,200.0 | 90.00 | 181.12 | 9,400.0 | -5,868.4 | 377.7 | 367,382.02 | 833,587.91 | 32° 0' 23.434 N | 103° 23' 25.821 W |
| 15,300.3 | 90.00 | 179.12 | 9,400.0 | -5,968.6 | 377.5 | 367,281.77 | 833,587.70 | 32° 0' 22.442 N | 103° 23' 25.834 W |
| **Start 2161.4 hold at 15300.3 MD** | | | | | | | | | |
| 15,400.0 | 90.00 | 179.12 | 9,400.0 | -6,068.4 | 379.0 | 367,182.04 | 833,589.23 | 32° 0' 21.455 N | 103° 23' 25.826 W |
| 15,500.0 | 90.00 | 179.12 | 9,400.0 | -6,168.4 | 380.6 | 367,082.05 | 833,590.77 | 32° 0' 20.466 N | 103° 23' 25.819 W |
| 15,600.0 | 90.00 | 179.12 | 9,400.0 | -6,268.3 | 382.1 | 366,982.06 | 833,592.31 | 32° 0' 19.476 N | 103° 23' 25.811 W |
| 15,700.0 | 90.00 | 179.12 | 9,400.0 | -6,368.3 | 383.7 | 366,882.07 | 833,593.85 | 32° 0' 18.487 N | 103° 23' 25.803 W |
| 15,800.0 | 90.00 | 179.12 | 9,400.0 | -6,468.3 | 385.2 | 366,782.08 | 833,595.39 | 32° 0' 17.497 N | 103° 23' 25.795 W |
| 15,900.0 | 90.00 | 179.12 | 9,400.0 | -6,568.3 | 386.7 | 366,682.09 | 833,596.93 | 32° 0' 16.508 N | 103° 23' 25.788 W |
| 16,000.0 | 90.00 | 179.12 | 9,400.0 | -6,668.3 | 388.3 | 366,582.11 | 833,598.47 | 32° 0' 15.518 N | 103° 23' 25.780 W |
| 16,100.0 | 90.00 | 179.12 | 9,400.0 | -6,768.3 | 389.8 | 366,482.12 | 833,600.00 | 32° 0' 14.529 N | 103° 23' 25.772 W |
| 16,200.0 | 90.00 | 179.12 | 9,400.0 | -6,868.3 | 391.3 | 366,382.13 | 833,601.54 | 32° 0' 13.539 N | 103° 23' 25.764 W |
| 16,300.0 | 90.00 | 179.12 | 9,400.0 | -6,968.3 | 392.9 | 366,282.14 | 833,603.08 | 32° 0' 12.550 N | 103° 23' 25.757 W |
| 16,400.0 | 90.00 | 179.12 | 9,400.0 | -7,068.2 | 394.4 | 366,182.15 | 833,604.62 | 32° 0' 11.560 N | 103° 23' 25.749 W |
| 16,500.0 | 90.00 | 179.12 | 9,400.0 | -7,168.2 | 396.0 | 366,082.17 | 833,606.16 | 32° 0' 10.571 N | 103° 23' 25.741 W |
| 16,600.0 | 90.00 | 179.12 | 9,400.0 | -7,268.2 | 397.5 | 365,982.18 | 833,607.70 | 32° 0' 9.581 N | 103° 23' 25.733 W |
| 16,700.0 | 90.00 | 179.12 | 9,400.0 | -7,368.2 | 399.0 | 365,882.19 | 833,609.24 | 32° 0' 8.592 N | 103° 23' 25.726 W |

PERMIAN RESOURCES

**PR**

Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 16,800.0 | 90.00 | 179.12 | 9,400.0 | -7,468.2 | 400.6 | 365,782.20 | 833,610.78 | 32° 0' 7.602 N | 103° 23' 25.718 W |
| 16,900.0 | 90.00 | 179.12 | 9,400.0 | -7,568.2 | 402.1 | 365,682.21 | 833,612.32 | 32° 0' 6.613 N | 103° 23' 25.710 W |
| 17,000.0 | 90.00 | 179.12 | 9,400.0 | -7,668.2 | 403.7 | 365,582.23 | 833,613.85 | 32° 0' 5.623 N | 103° 23' 25.702 W |
| 17,100.0 | 90.00 | 179.12 | 9,400.0 | -7,768.2 | 405.2 | 365,482.24 | 833,615.39 | 32° 0' 4.634 N | 103° 23' 25.695 W |
| 17,200.0 | 90.00 | 179.12 | 9,400.0 | -7,868.1 | 406.7 | 365,382.25 | 833,616.93 | 32° 0' 3.644 N | 103° 23' 25.687 W |
| 17,300.0 | 90.00 | 179.12 | 9,400.0 | -7,968.1 | 408.3 | 365,282.26 | 833,618.47 | 32° 0' 2.654 N | 103° 23' 25.679 W |
| 17,400.0 | 90.00 | 179.12 | 9,400.0 | -8,068.1 | 409.8 | 365,182.27 | 833,620.01 | 32° 0' 1.665 N | 103° 23' 25.671 W |
| 17,461.6 | 90.00 | 179.12 | 9,400.0 | -8,129.8 | 410.8 | 365,120.64 | 833,620.96 | 32° 0' 1.055 N | 103° 23' 25.667 W |
| **Start DLS 2.00 TFO 90.00 - SL X-ING/PP5 EL CAMP 113H** | | | | | | | | | |
| 17,475.7 | 90.00 | 179.40 | 9,400.0 | -8,143.8 | 410.9 | 365,106.58 | 833,621.14 | 32° 0' 0.916 N | 103° 23' 25.666 W |
| **Start 2245.9 hold at 17475.7 MD** | | | | | | | | | |
| 17,500.0 | 90.00 | 179.40 | 9,400.0 | -8,168.1 | 411.2 | 365,082.28 | 833,621.40 | 32° 0' 0.675 N | 103° 23' 25.666 W |
| 17,600.0 | 90.00 | 179.40 | 9,400.0 | -8,268.1 | 412.2 | 364,982.29 | 833,622.44 | 31° 59' 59.686 N | 103° 23' 25.663 W |
| 17,700.0 | 90.00 | 179.40 | 9,400.0 | -8,368.1 | 413.3 | 364,882.29 | 833,623.49 | 31° 59' 58.696 N | 103° 23' 25.661 W |
| 17,800.0 | 90.00 | 179.40 | 9,400.0 | -8,468.1 | 414.3 | 364,782.30 | 833,624.54 | 31° 59' 57.707 N | 103° 23' 25.659 W |
| 17,900.0 | 90.00 | 179.40 | 9,400.0 | -8,568.1 | 415.4 | 364,682.30 | 833,625.59 | 31° 59' 56.717 N | 103° 23' 25.657 W |
| 18,000.0 | 90.00 | 179.40 | 9,400.0 | -8,668.1 | 416.4 | 364,582.31 | 833,626.64 | 31° 59' 55.728 N | 103° 23' 25.655 W |
| 18,100.0 | 90.00 | 179.40 | 9,400.0 | -8,768.1 | 417.5 | 364,482.32 | 833,627.68 | 31° 59' 54.738 N | 103° 23' 25.653 W |
| 18,200.0 | 90.00 | 179.40 | 9,400.0 | -8,868.1 | 418.5 | 364,382.32 | 833,628.73 | 31° 59' 53.749 N | 103° 23' 25.651 W |
| 18,300.0 | 90.00 | 179.40 | 9,400.0 | -8,968.1 | 419.6 | 364,282.33 | 833,629.78 | 31° 59' 52.759 N | 103° 23' 25.649 W |
| 18,400.0 | 90.00 | 179.40 | 9,400.0 | -9,068.1 | 420.6 | 364,182.33 | 833,630.83 | 31° 59' 51.770 N | 103° 23' 25.647 W |
| 18,500.0 | 90.00 | 179.40 | 9,400.0 | -9,168.1 | 421.7 | 364,082.34 | 833,631.88 | 31° 59' 50.780 N | 103° 23' 25.645 W |
| 18,600.0 | 90.00 | 179.40 | 9,400.0 | -9,268.1 | 422.7 | 363,982.34 | 833,632.92 | 31° 59' 49.790 N | 103° 23' 25.643 W |
| 18,700.0 | 90.00 | 179.40 | 9,400.0 | -9,368.0 | 423.8 | 363,882.35 | 833,633.97 | 31° 59' 48.801 N | 103° 23' 25.641 W |
| 18,800.0 | 90.00 | 179.40 | 9,400.0 | -9,468.0 | 424.8 | 363,782.35 | 833,635.02 | 31° 59' 47.811 N | 103° 23' 25.639 W |
| 18,900.0 | 90.00 | 179.40 | 9,400.0 | -9,568.0 | 425.9 | 363,682.36 | 833,636.07 | 31° 59' 46.822 N | 103° 23' 25.637 W |
| 19,000.0 | 90.00 | 179.40 | 9,400.0 | -9,668.0 | 426.9 | 363,582.36 | 833,637.12 | 31° 59' 45.832 N | 103° 23' 25.635 W |
| 19,100.0 | 90.00 | 179.40 | 9,400.0 | -9,768.0 | 428.0 | 363,482.37 | 833,638.16 | 31° 59' 44.843 N | 103° 23' 25.633 W |
| 19,200.0 | 90.00 | 179.40 | 9,400.0 | -9,868.0 | 429.0 | 363,382.38 | 833,639.21 | 31° 59' 43.853 N | 103° 23' 25.631 W |
| 19,300.0 | 90.00 | 179.40 | 9,400.0 | -9,968.0 | 430.1 | 363,282.38 | 833,640.26 | 31° 59' 42.864 N | 103° 23' 25.629 W |
| 19,400.0 | 90.00 | 179.40 | 9,400.0 | -10,068.0 | 431.1 | 363,182.39 | 833,641.31 | 31° 59' 41.874 N | 103° 23' 25.627 W |
| 19,500.0 | 90.00 | 179.40 | 9,400.0 | -10,168.0 | 432.2 | 363,082.39 | 833,642.36 | 31° 59' 40.885 N | 103° 23' 25.625 W |
| 19,600.0 | 90.00 | 179.40 | 9,400.0 | -10,268.0 | 433.2 | 362,982.40 | 833,643.40 | 31° 59' 39.895 N | 103° 23' 25.623 W |
| 19,700.0 | 90.00 | 179.40 | 9,400.0 | -10,368.0 | 434.3 | 362,882.40 | 833,644.45 | 31° 59' 38.905 N | 103° 23' 25.621 W |
| 19,721.6 | 90.00 | 179.40 | 9,400.0 | -10,389.6 | 434.5 | 362,860.76 | 833,644.68 | 31° 59' 38.691 N | 103° 23' 25.620 W |
| **TD at 19721.6 - LTP/BHL EL CAMP 113H** | | | | | | | | | |

PERMIAN RESOURCES

# PR
Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Compass_18 | **Local Co-ordinate Reference:** | Well EL CAMPEON FED COM 3H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3204.0usft |
| **Project:** | (SP) LEA | **MD Reference:** | KB @ 3204.0usft |
| **Site:** | EL CAMPEON FED PROJECT | **North Reference:** | Grid |
| **Well:** | EL CAMPEON FED COM 3H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| PP4 EL CAMP 113H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 9,400.0 | -5,691.9 | 386.6 | 367,558.47 | 833,596.82 | 32° 0' 25.180 N | 103° 23' 25.700 W |
| SL X-ING/PP5 EL CAMF<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 9,400.0 | -8,129.8 | 410.8 | 365,120.64 | 833,620.96 | 32° 0' 1.055 N | 103° 23' 25.667 W |
| PP2 EL CAMP 113H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 9,400.0 | -1,726.2 | 577.4 | 371,524.24 | 833,787.60 | 32° 1' 4.405 N | 103° 23' 23.083 W |
| LTP/BHL EL CAMP 113H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 9,400.0 | -10,389.6 | 434.5 | 362,860.76 | 833,644.68 | 31° 59' 38.691 N | 103° 23' 25.620 W |
| FTP EL CAMP 113H<br>- plan misses target center by 6.8usft at 9827.7usft MD (9400.0 TVD, -504.6 N, 558.8 E)<br>- Point | 0.00 | 0.00 | 9,400.0 | -504.5 | 565.6 | 372,745.86 | 833,775.81 | 32° 1' 16.494 N | 103° 23' 23.096 W |
| PP3 EL CAMP 113H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 9,400.0 | -3,047.8 | 590.2 | 370,202.57 | 833,800.36 | 32° 0' 51.326 N | 103° 23' 23.068 W |
| KOP EL CAMP 113H<br>- plan misses target center by 197.8usft at 9326.9usft MD (9257.9 TVD, -42.2 N, 551.8 E)<br>- Point | 0.00 | 0.00 | 9,400.0 | 95.4 | 549.7 | 373,345.82 | 833,759.92 | 32° 1' 22.432 N | 103° 23' 23.219 W |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 1,048.0 | 1,048.0 | RUSTLER | | | |
| 1,594.6 | 1,592.0 | SALADO=T/SALT | | | |
| 6,452.5 | 6,420.0 | CYCN | | | |
| 7,907.5 | 7,875.0 | BYCN | | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | Start Build 2.00 |
| 1,341.5 | 1,340.7 | 3.5 | 20.0 | Start 4349.5 hold at 1341.5 MD |
| 5,691.0 | 5,659.3 | 91.9 | 529.7 | Start Drop -2.00 |
| 6,032.5 | 6,000.0 | 95.4 | 549.7 | Start 2922.5 hold at 6032.5 MD |
| 8,955.0 | 8,922.5 | 95.4 | 549.7 | Start DLS 12.00 TFO 179.13 |
| 9,705.0 | 9,400.0 | -382.0 | 557.0 | Start 1344.3 hold at 9705.0 MD |
| 11,049.3 | 9,400.0 | -1,726.2 | 577.4 | Start DLS 2.00 TFO 89.73 |
| 11,065.3 | 9,400.0 | -1,742.1 | 577.6 | Start 1305.8 hold at 11065.3 MD |
| 12,371.0 | 9,400.0 | -3,047.8 | 590.2 | Start DLS 2.00 TFO 90.00 |
| 12,631.5 | 9,400.0 | -3,308.0 | 580.8 | Start 2391.8 hold at 12631.5 MD |
| 15,023.3 | 9,400.0 | -5,691.9 | 386.6 | Start DLS 2.00 TFO -90.00 |
| 15,300.3 | 9,400.0 | -5,968.6 | 377.5 | Start 2161.4 hold at 15300.3 MD |
| 17,461.6 | 9,400.0 | -8,129.8 | 410.8 | Start DLS 2.00 TFO 90.00 |
| 17,475.7 | 9,400.0 | -8,143.8 | 410.9 | Start 2245.9 hold at 17475.7 MD |
| 19,721.6 | 9,400.0 | -10,389.6 | 434.5 | TD at 19721.6 |



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State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

## Section 1 – Plan Description
**Effective May 25, 2021**

**I. Operator:** Permian Resources Operating, LLC **OGRID:** 372165 **Date:** 06 / 23 / 2026

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|---|---|---|---|---|---|---|
| EL CAMPEON FED COM 3H | Pending | N-20-26S-35E | 409'FSL, 1979' FWL | 1100 | 2200 | 3200 |
| | | | | | | |

**IV. Central Delivery Point Name:** El Campeon CTB 20 [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|---|---|---|---|---|---|---|
| EL CAMPEON FED COM 3H | Pending | 12/1/2026 | TBD | TBD | TBD | TBD |
| | | | | | | |

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## Section 2 – Enhanced Plan
**EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|---|---|---|---|
| | | | |
| | | | |

**X. Natural Gas Gathering System (NGGS):**

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|---|---|---|---|---|
| | | | | |
| | | | | |

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

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

## Section 3 - Certifications

**Effective May 25, 2021**

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

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

## Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

**(a)** Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

**(b)** Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

| | |
|---|---|
| Signature: | Released to Imaging: 9/18/2026 2:59:11 PM |
| Printed Name: | Jennifer Elrod |
| Title: | Sr. Regulatory Analyst |
| E-mail Address: | jennifer.elrod@permianres.com |
| Date: | 6/23/2026 |
| Phone: | 940-452-6214 |

**OIL CONSERVATION DIVISION**
**(Only applicable when submitted as a standalone form)**

| | |
|---|---|
| Approved By: | |
| Title: | |
| Approval Date: | |
| Conditions of Approval: | |

Permian Resources Operating, LLC (372165)

**Natural Gas Management Plan Descriptions**

**VI. Separation Equipment:**

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

**VII. Operational Practices:**

*Drilling*

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

*Flowback*

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

*Production*

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

*Performance Standards*

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

1) Appropriately sized and designed to ensure proper combustion efficiency.
2) Equipped with an automatic ignitor or continuous pilot.
3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

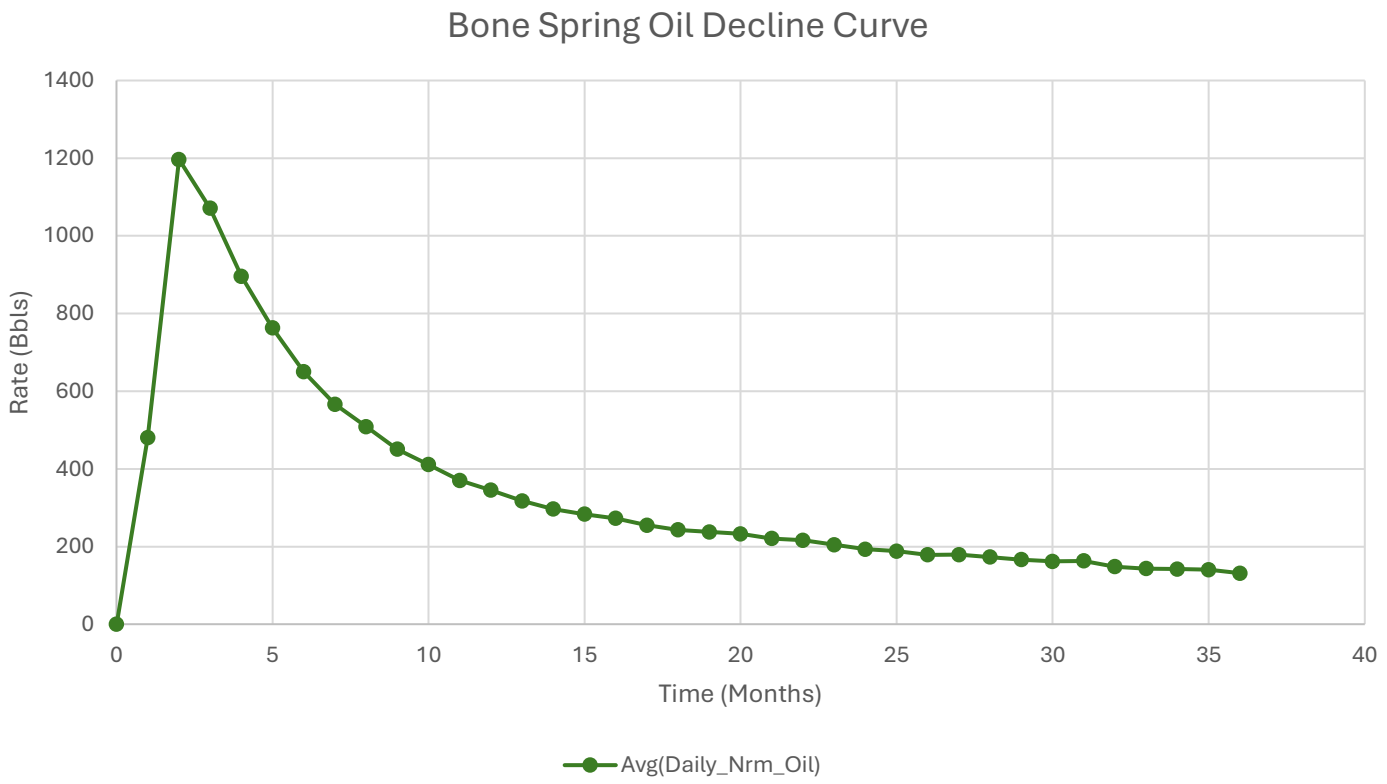
*Measurement or estimation*

Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

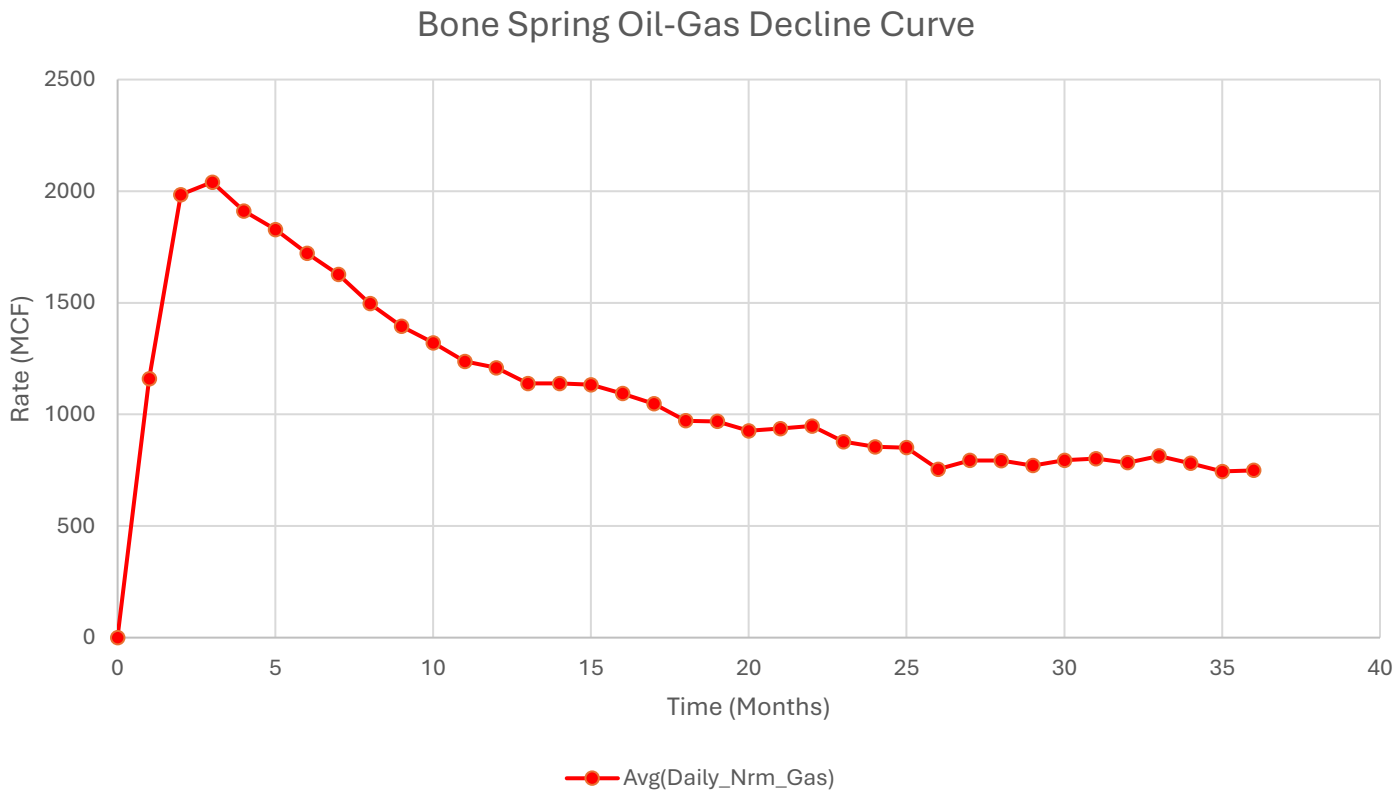
**VIII. Best Management Practices:**

Permian utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary




1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.




1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.

# Permian Resources
# BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

## Background

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

## Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

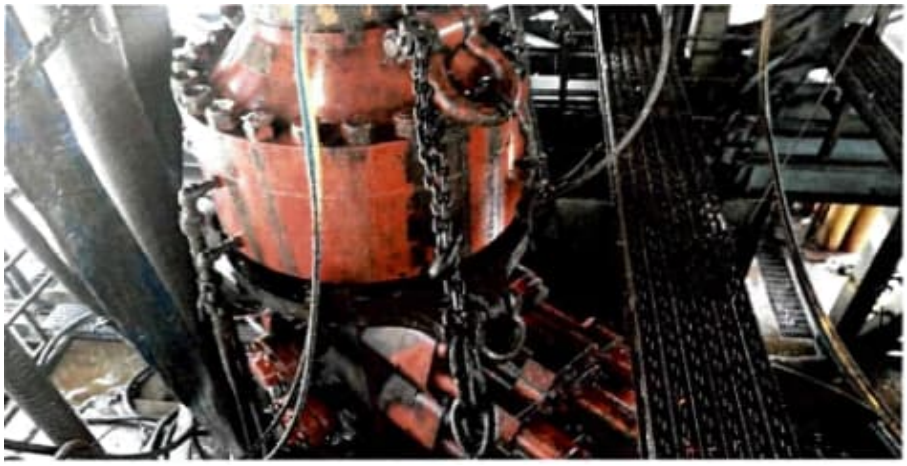


Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, 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." See Table C.4 below for reference.



**Table C.4—Initial Pressure Testing, Surface BOP Stacks**

| Component to be Pressure Tested | Pressure Test—Low Pressure[a,c] psig (MPa) | Pressure Test—High Pressure[a,c] | |
|---|---|---|---|
| | | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket |
| Annular preventer[b] | 250 to 350 (1.72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. |
| Fixed pipe, variable bore, blind, and BSR preventers[a,c] | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ITP |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2.41) | RWP of side outlet valve or wellhead system, whichever is lower | ITP |
| Choke manifold—upstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ITP |
| Choke manifold—downstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or MASP for the well program, whichever is lower | |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | |

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

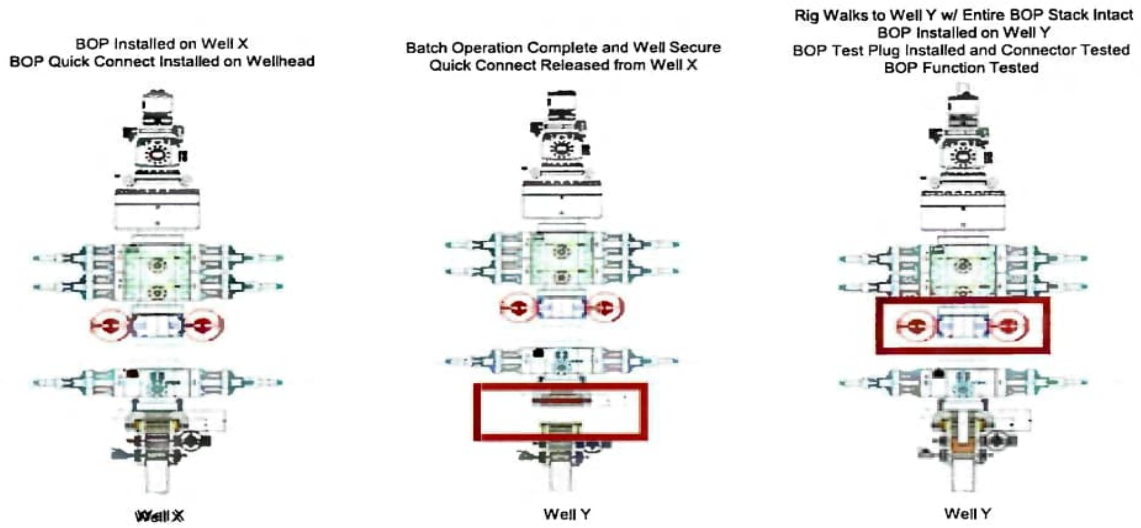
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
    a)A full BOP test will be conducted on the first well on the pad.
    b)The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
    c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
    d) A full BOP test will be required prior to drilling any production hole.
3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
    a) Between the HCV valve and choke line connection
    b)Between the BOP quick connect and the wellhead
4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6) The connections mentioned in 3a and 3b will then be reconnected.
7) Install test plug into the wellhead using test joint or drill pipe.
8) A shell test is performed against the upper pipe rams testing the two breaks.
9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

*Note: Picture below highlights BOP components that will be tested during batch operations*




Summary

A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

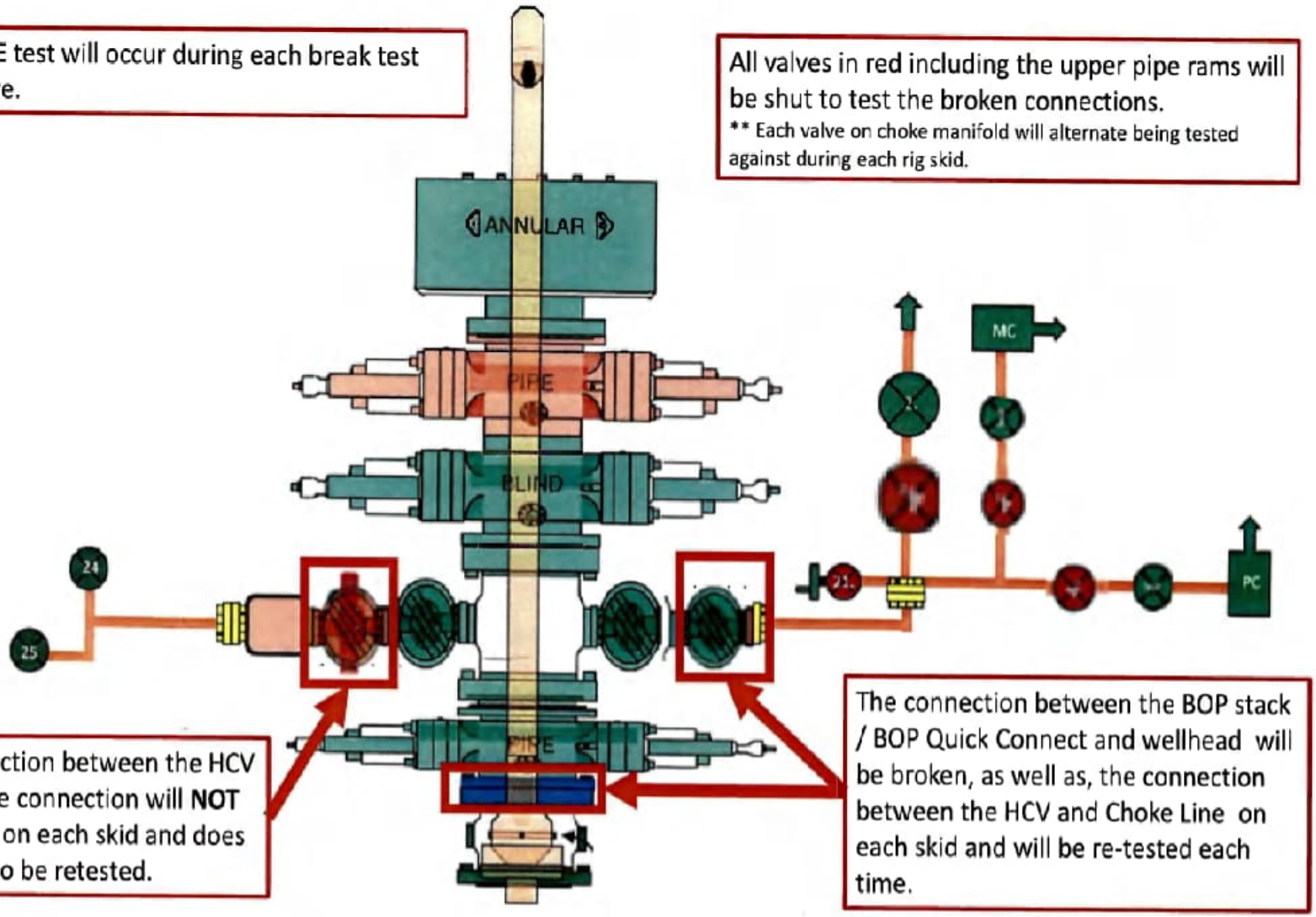
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control
event occurs prior to the commencement of a BOPE Break Testing operation.

Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1) After a full BOP test is conducted on the first well on the pad.
2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4) A full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.




The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

# Permian Resources
# Multi-Well Pad Batch Drilling Procedure

Surface Casing - PR intends to Batch set all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
3. Set packoff and test to 5k psi
4. Offline Cement
5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
6. Skid Rig to adjacent well to drill Surface hole.
7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

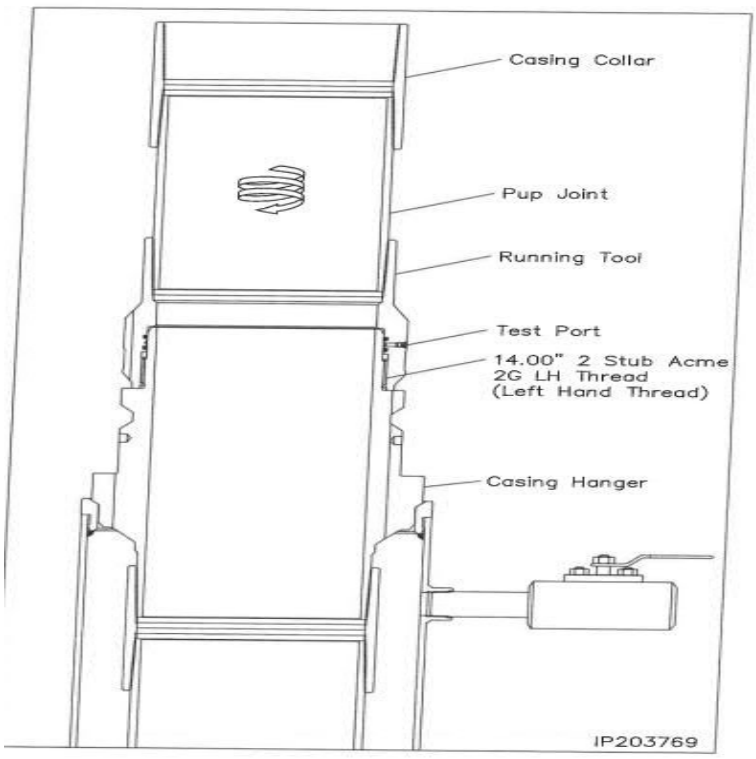



Illustration 1-1

Intermediate Casing – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

1. Rig will remove the nightcap and install and test BOPE.
2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
3. Install wear bushing then drill out surface casing shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
6. Cement casing to surface with floats holding.
7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
10. Install nightcap – skid rig to adjacent well to drill Intermediate hole.

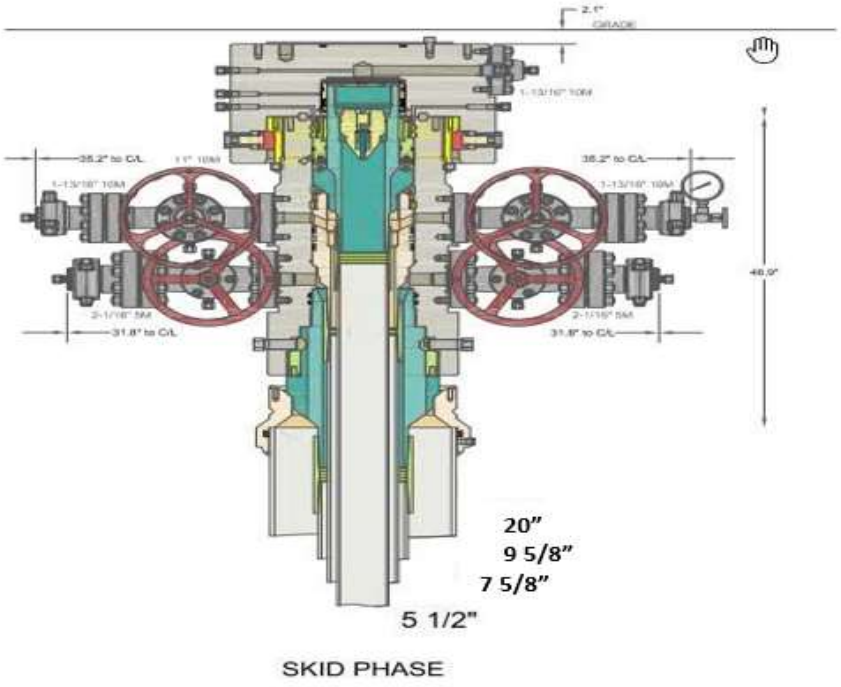



Illustration 2-2

Production Casing – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Drilling Rig will remove the nightcap and install and test BOPE.
2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
3. Drill Vertical hole to KOP – Trip out for Curve BHA.
4. Drill Curve, landing in production interval – Trip for Lateral BHA.
5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
7. Cement Production string with floats holding.
8. Run in with wash tool and wash wellhead area – install pack-off and test void to 5,000psi for 15 minutes.
9. Install BPV in Production mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
11. Skid rig to adjacent well on pad to drill production hole.

Continental

ContiTech Fluid Technology

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA

CONSIGNEE / Ship-to address:

HELMERICH & PAYNE INT'L DRILLING CO
ATTN: FLEX RIG WHSE - B-BAY
210 MAGNOLIA DRIVE
GALENA PARK TX 77547

Buyer:

HELMERICH & PAYNE INT'L DRILLING CO
1437 SOUTH BOULDER
74119 TULSA

Conditions

Incoterms EXW Houston
Ex Works

**Packing list / Delivery note**

| | |
|---|---|
| Document No. | **71461553** |
| Document Date | 28.01.2022 |
| Customer Number | 11697 |
| Customer VAT No. | |
| Supplier Number | |
| Purchase Order No. | 740362040 |
| Purchase Order Date | 18.01.2022 |
| Sales Order Number | 1388153 |
| Sales Order Date | 18.01.2022 |
| Unloading Point | |
| RAN-No. | |

**Page 1 of 2**

Weights (Gross / Net)

| | |
|---|---|
| Total Gross Weight | 2,507.000 LB |
| Total Net Weight | 2,507.000 LB |

| Item | Material/Description | Quantity | Net Weight | Gross Weight |
|---|---|---|---|---|
| | *Buyer: Jack Peebles*<br>*E-mail: Jackie.Peebles@hpinc.com*<br>*Tel: 832-782-6000*<br><br>*Rig/Whse: HOW* | | | |
| 20 | 00RECERTIFY<br>Recert of HP Hoses Serial# 67094<br>Commodity Code:<br>3" X 35 FT 10K Choke & Kill Hoses API 16C<br><br>End 1: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>End 2: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 ring groove each end<br>Standard: API Spec 16C - Monogrammed<br><br>Working Pressure: 10,000psi<br>Test Pressure: 15,000psi<br><br>Inspection & Certification includes:<br>External inspection of the hose & couplings<br>Internal boroscopic inspection of hose liner<br>Hydrostatic pressure test of hose assembly<br>Repair of any external damage to hose body and end connections (limited to minor repairs).<br>Clean & protect end connections Inspection Report<br>Disposal of hose assembly if hose fails inspection and recertification process.<br>Please Flush Hoses before sending them to our Facility. | 1 PC | 2,507.000 LB | 2,507.000 LB |

8800240
Y106-01-0101
2.9.22

ContiTech Rubber Industrial Kft.
H-6728 Szeged Budapesti út 10.
P. O. Box 152 Szeged H-6701
Phone:(62)566-700, Fax:(62)566-713
Tax Number: 11087209-2-06
EU Community VAT: HU11087209
Registration No.: Cg. 0609-002502
Registry Court: Csongrád Megyei Cégbíróság

COMMERZBANK ZRT. (HUF)
H-1054 Budapest, Széchenyi rakpart 8.
H-1245 Budapest P.O. Box 1070
Account No.:14220108-26830003
IBAN: HU83 1422 0108 2683 0003 0000 0000
SWIFT: COBA HU HXXXX

COMMERZBANK AG Hannover (EUR)
30159 Hannover, Theaterstr. 11-12.
Account No.: 3 066 156 00
Sort Code: 250 400 66
BIC: COBADEFF250
IBAN: DE41250400660306615600

**Record Rotary Hose sleeve number on the CBC Made Hose List ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !**

# Hydrostatic Test Certificate

ContiTech

| Certificate Number | COM Order Reference | Customer Name & Address |
|---|---|---|
| H100122 | 1388153 | HELMERICH & PAYNE DRILLING CO<br>1434 SOUTH BOULDER AVE<br>TULSA, OK 74119<br>USA |
| **Customer Purchase Order No:** | 740362040 | |
| **Project:** | | |

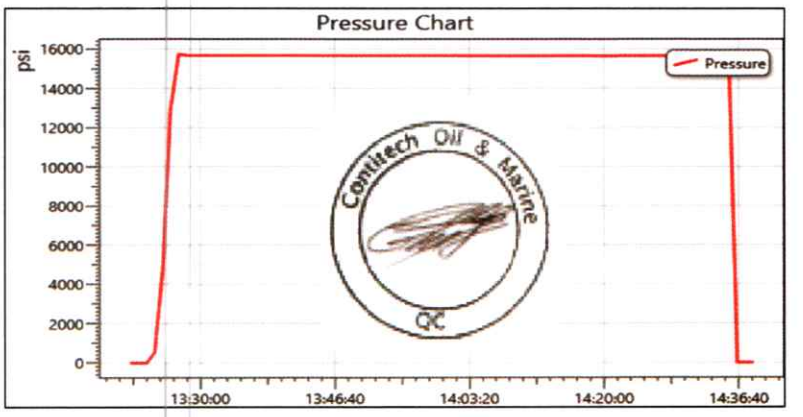
| Test Center Address | Accepted by COM Inspection | | Accepted by Client Inspection |
|---|---|---|---|
| ContiTech Oil & Marine Corp.<br>11535 Brittmoore Park Drive<br>Houston, TX 77041<br>USA | Signed:<br>Date: | Gerson Mejia-Lazo<br>02/09/22 | |

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

| Item | Part No. | Description | Qnty | Serial Number | Work. Press. (psi) | Test Press. (psi) | Test Time (minutes) |
|---|---|---|---|---|---|---|---|
| 20 | RECERTIFICATION | 3" ID 10K Choke and Kill Hose x 35ft OAL | 1 | 67094 | 10,000 | 15,000 | 60 |

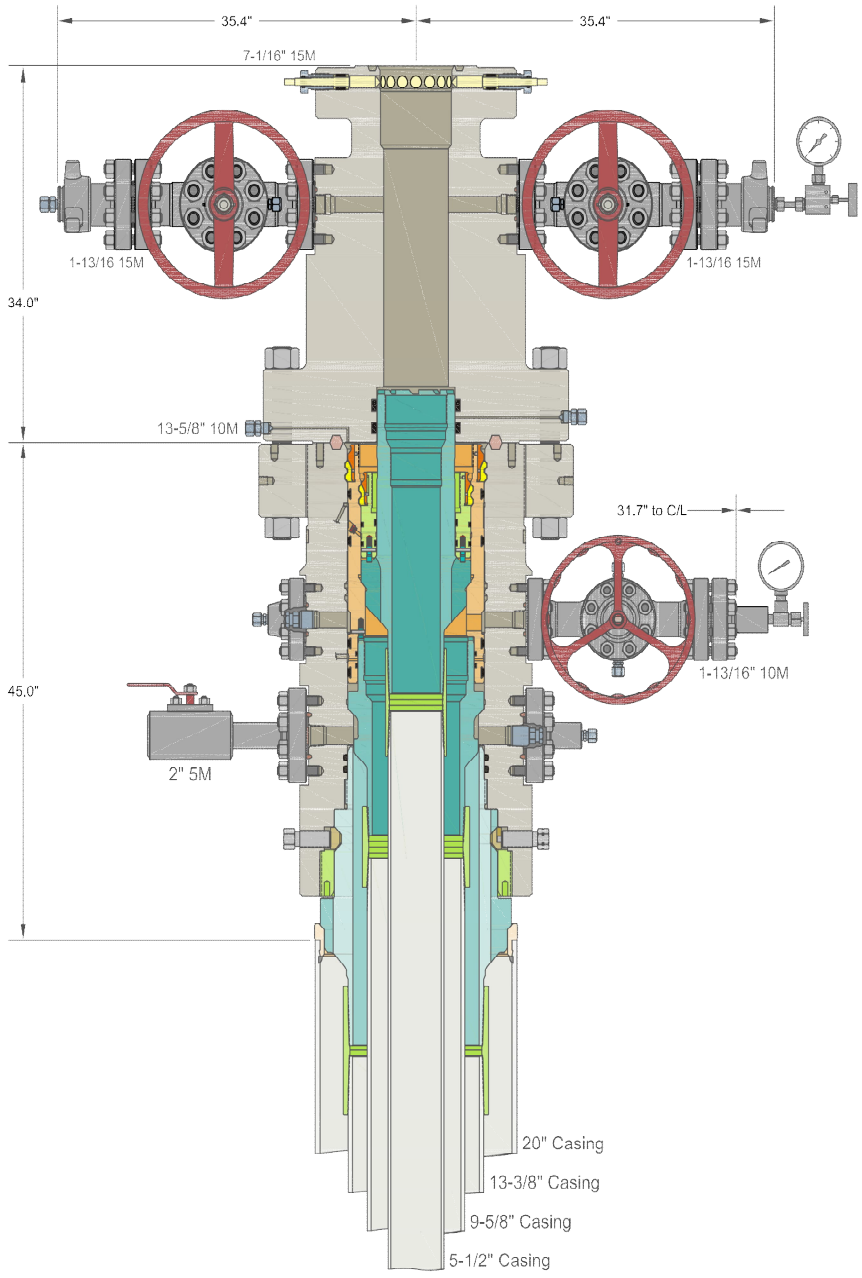
| Record Information | |
|---|---|
| Start Time | 1/27/2022 13:21:21 |
| End Time | 1/27/2022 14:38:28 |
| Interval | 00:01:00 |
| Number | 78 |
| MaxValue | 15849 |
| MinValue | -3 |
| AvgValue | 14240 |
| RecordName | 67094-sh |
| RecordNumber | 199 |

| Gauge Information | |
|---|---|
| Model | ADT680 |
| SN | 21817380014 |
| Range | (0-40000)psi |
| Unit | psi |






HOOH100122 H&P 1388153
Released to Imaging: 9/18/2026 2:59:11 PM




INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

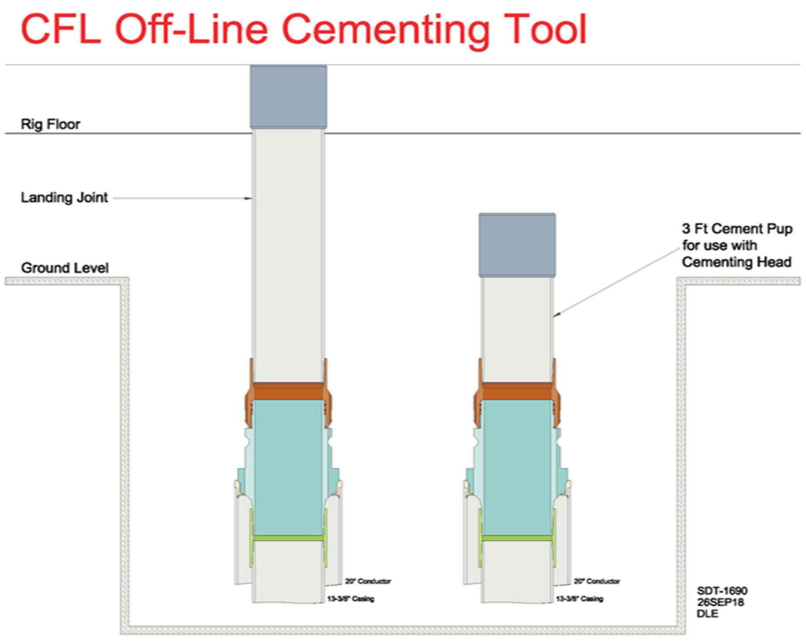
ALL DIMENSIONS APPROXIMATE

| CACTUS WELLHEAD LLC | CENTENNIAL RESOURCE DEVELOPMENT<br>LEE CO, NM | | |
|---|---|---|---|
| 20" x 13-3/8" x 9-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO System<br>With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head,<br>20" Landing Ring & Pin Down Mandrel Casing Hangers | DRAWN | DLE | 10JUN20 |
| | APPRV | | |
| | DRAWING NO. | HBE0000338 | |

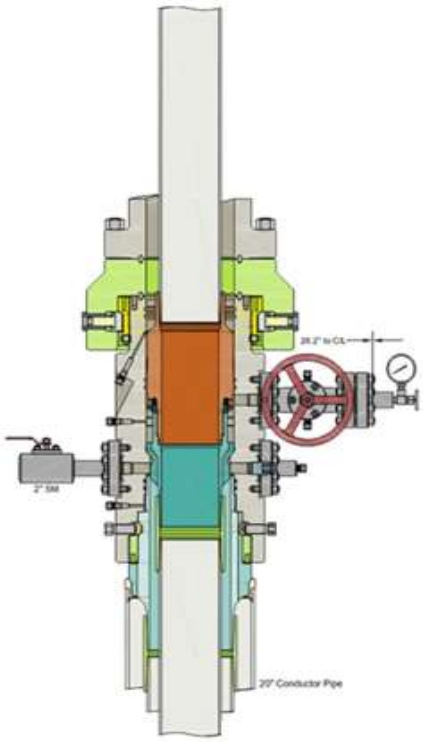
**Permian Resources Offline Cementing Procedure**
**Surface & Intermediate Casing**

1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
2. Run and casing to Depth.
3. Land casing with mandrel.
4. Circulate 1.5 csg capacity.
5. Flow test – Confirm well is static and floats are holding.
6. Set Annular packoff and pressure test. Test to 5k.
7. Nipple down BOP and install cap flange.
8. Skid rig to next well on pad
9. Remove cap flange (confirm well is static before removal)
    a) If well is not static use the casing outlet valves to kill well
    b) Drillers method will be used in well control event
    c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
    d) Kill mud will be circulated once influx is circulated out of hole
    e) Confirm well is static and remove cap flange to start offline cement operations
10. Install offline cement tool.
11. Rig up cementers.
12. Circulate bottoms up with cement truck
13. Commence planned cement job, take returns through the annulus wellhead valve
14. After plug is bumped confirm floats hold and well is static
15. Rig down cementers and equipment
16. Install night cap with pressure gauge to monitor.

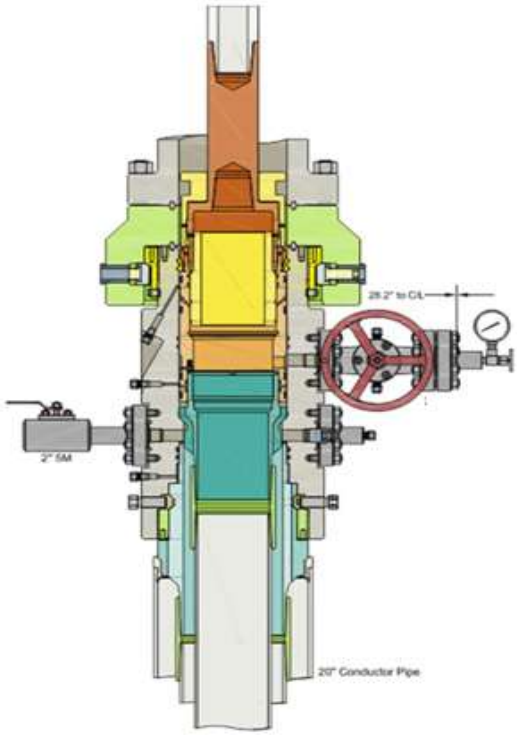
13 3/8" Surface



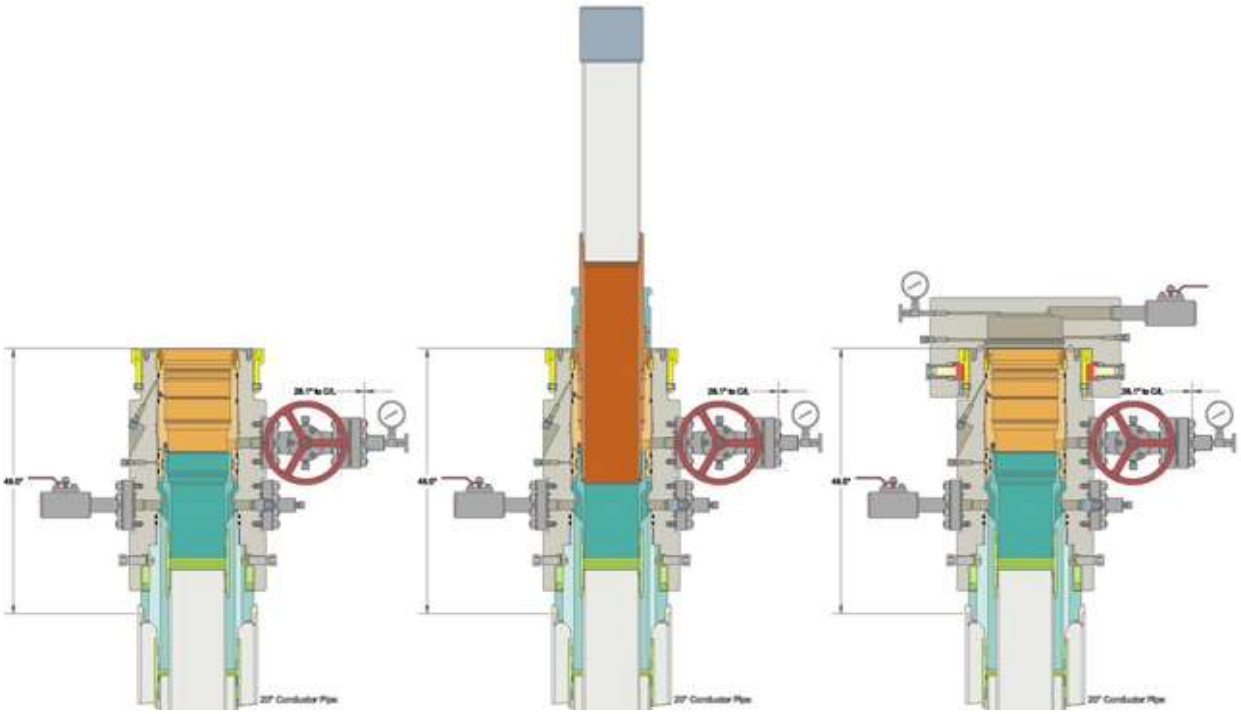
Intermediate



Run 7 5/8" Casing
Land Casing on 7 5/8" Mandrel Hanger
Cement 7 5/8" Casing
Retrieve Running Tool



Run 9 5/8" Packoff
Test Upper and Lower Seals
Engage Lockring
Retrieve Running Tool





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

# SUPO Data Report
09/08/2026

**APD ID:** 10400112703 **Submission Date:** 06/24/2026

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Well Type:** OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

El_Campeon_Pad_2_Existing_Road_Map_20240816163106.pdf
El_Campeon_Pad_2_Topo_Map_20240816163106.pdf

**Existing Road Purpose:** ACCESS **Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** NO

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Existing Well map Attachment:**

El_Campeon_Existing_Wells_20240816105002.pdf

## Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Production Facilities. No additional production facility is required for the El Campeon Fed Com project. In the event the El Campeon Fed Com wells are found productive, production volumes will flow to the previously approved El Campeon CTB 20 located in the NESW & SENW of Section 2-T26S-R35E. Plat of the existing facility is attached. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. Buried & Surface Flowlines. In the event the El Campeon Fed Com wells are found productive, three (3) 22in. or less buried composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) for transport of oil, gas, frac water, gas lift, fuel gas, and produced water are requested to the El Campeon CTB 20. If Permian Resources decides to run surface lines, two (2) 4in. or less composite flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) for transport of oil, gas and produced water will be required to the El Campeon Fed Com CTB 20. Total Flowline Length: 7287.11ft long by 30ft wide (5.018 acres). Any new lines will be place in existing ROW. Midstream Tie-In. A midstream tie-in is not requested with this project. In the event that a midstream tie-in is necessary, Permian Resources Operating, LLC will file application with the appropriate authorities to construct via right-of-way. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. A flare is not requested with this project. The flare is located on the existing CTB and submitted on the subsequent facility diagram. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. Electrical. All Electrical is existing. All lines will be primary 12,740 volt to properly run expected production equipment.

**Production Facilities map:**

El_Campeon_CTB_20_20240816112249.pdf

El_Camp_OVERALL_Flowline_Map_20260623145742.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Water source type:** OTHER

**Describe type:** The well will be drilled using a combination of water mud systems as outlined in the drilling program. The water will be obtained from a 3rd party vendor and hauled to the proposed location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased & supplied by a NGL and stored in the NGL North Andrews pit located in SWSW, Section 19, T-26S, R-35E. Anticipated water usage for drilling includes an estimated 50,000 barrels (bbls) of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules. Well completion is expected to require approximately 1,950,000 bbls of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**Water source use type:** DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

**Source latitude:** **Source longitude:**

**Source datum:**

**City:**

**Water source permit type:** PRIVATE CONTRACT

**Water source transport method:** TRUCKING

**Source land ownership:** PRIVATE

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 1950000 **Source volume (acre-feet):** 251.34153785

**Source volume (gal):** 81900000

---

**Water source and transportation**

Los_Vaq_El_Camp_Water_Source_Map_20260721141817.pdf

**Water source comments:** Water for drilling, completion and dust control will be purchased & supplied by a NGL and stored in the NGL North Andrews pit located in SWSW, Section 19, T-26S, R-35E. Water transported by truck will use the existing roads depicted in the attached exhibits. No water well will be drilled on the location.

**New water well?** N

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

## New Water Well Info

**Well latitude:** **Well Longitude:** **Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):** **Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):** **Well casing type:**

**Well casing outside diameter (in.):** **Well casing inside diameter (in.):**

**New water well casing?** **Used casing source:**

**Drilling method:** **Drill material:**

**Grout material:** **Grout depth:**

**Casing length (ft.):** **Casing top depth (ft.):**

**Well Production type:** **Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Using any construction materials:** YES

**Construction Materials description:** Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6 rolled and compacted caliche. Anticipated Caliche Location: NGL North Andrews pit located in SWSW, Section 19, T-26S, R-35E.

**Construction Materials source location**

El_Campeon_Caliche_20240816112525.pdf

## Section 7 - Methods for Handling

**Waste type:** GARBAGE

**Waste content description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

**Amount of waste:** 250 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** A LICENSED 3rd PARTY CONTRACTOR WILL BE UTILIZED TO HAUL AND DISPOSE OF GARBAGE

**Waste type:** SEWAGE

**Waste content description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Amount of waste:** 250 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** A LICENSED 3rd PARTY CONTRACTOR WILL BE USED TO HAUL AND DISPOSE OF HUMAN WASTE

**Waste type:** DRILLING

**Waste content description:** CUTTINGS

**Amount of waste:** 2100 pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
**Disposal type description:**

**Disposal location description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Waste type:** DRILLING

**Waste content description:** DRILLING FLUIDS

**Amount of waste:** 500 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** STEEL MUD BOXES

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** R360 ENVIRONMENTAL SOLUTIONS 4507 W. CARLSBAD HWY HOBBS, NM 88240

## Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

## Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** N

**Description of cuttings location**

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**Cuttings area liner**

**Cuttings area liner specifications and installation description**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

## Section 8 - Ancillary

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities**

**Comments:**

## Section 9 - Well Site

**Well Site Layout Diagram:**

El_Campeon_RL_20260623140657.pdf

EL_CAMPEON_FED_COM_PAD_2_SITE_PLAN_FINAL_6_2_2026_20260623141452.pdf

**Comments:** There are five (5) existing multi-well pads being utilized for the El Campeon Federal Com project. The proposed and existing pads will allow enough space for cuts and fills, topsoil storage, and storm water control and sizes are approximations based on these needs. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. The well site layout for all pads is attached. i) Pad SWNW South 2: Multi-Well Pad (FEE Surface) ;Existing, No Additional Surface Disturbance Topsoil: 50 East a. 505 ft x 390 ft (5.077 Acres), Including 50 Topsoil Storage. V-Door: South b. Centerpoint: 2516FSL & 244FWL ii) Pad SWSW 2: Existing, No Additional Surface Disturbance Topsoil: 30 East a. 572 ft x 519 ft (7.095 Acres), Including 30 Topsoil Storage. V-Door: South b. Centerpoint: 462FSL & 2,069FWL iii) Pad 3: Existing, No Additional Surface Disturbance. Topsoil: 30 East a. 582 ft x 528 ft (7.251 Acres), Including 30 Topsoil Storage. V-Door: South b. Centerpoint: 468FSL & 1984FEL iv) Pad 4: Existing, No Additional Surface Disturbance. Topsoil: 30 East a. 561 ft x 569 ft (7.321 Acres), Including 30 Topsoil Storage. V-Door: South b. Centerpoint: 442FSL & 671FEL

## Section 10 - Plans for Surface

**Type of disturbance:** No New Surface Disturbance **Multiple Well Pad Name:** EL CAMPEON FED COM

**Multiple Well Pad Number:** SESW 2

**Recontouring**

El_Campeon_Fed_Pad_3_Site_Map_20240816121655.pdf

El_Campeon_Pad_2_Site_Map_20240816121620.pdf

El_Campeon_Pad_4_Site_Map_20240816121707.pdf

El_Campeon_South_2_Site_Map_20240816121602.pdf

**Drainage/Erosion control construction:** : Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

**Drainage/Erosion control reclamation:** A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation. Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

| | | |
|---|---|---|
| **Well pad proposed disturbance (acres):** | **Well pad interim reclamation (acres):** 0 | **Well pad long term disturbance (acres):** 0 |
| **Road proposed disturbance (acres):** | **Road interim reclamation (acres):** 0 | **Road long term disturbance (acres):** 0 |
| **Powerline proposed disturbance (acres):** | **Powerline interim reclamation (acres):** 0 | **Powerline long term disturbance (acres):** 0 |
| **Pipeline proposed disturbance (acres):** | **Pipeline interim reclamation (acres):** 0 | **Pipeline long term disturbance (acres):** 0 |
| **Other proposed disturbance (acres):** | **Other interim reclamation (acres):** 0 | **Other long term disturbance (acres):** 0 |
| **Total proposed disturbance:** 0 | **Total interim reclamation:** 0 | **Total long term disturbance:** 0 |

**Disturbance Comments:**

**Reconstruction method:** All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded. The original stockpiled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded. A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

**Topsoil redistribution:** The original stockpiled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

**Soil treatment:** The location will then be ripped and seeded. A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

**Existing Vegetation at the well pad:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote
**Existing Vegetation at the well pad**

**Existing Vegetation Community at the road:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote
**Existing Vegetation Community at the road**

**Existing Vegetation Community at the pipeline:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosotedy Soils (Seed Mix 2) with Mesquite, Snakeweed, & Grasses

**Existing Vegetation Community at the pipeline**

**Existing Vegetation Community at other disturbances:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote
**Existing Vegetation Community at other disturbances**

**Non native seed used?** N

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** N

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed

## Seed Table

## Seed Summary

**Total pounds/Acre:**

| Seed Type | Pounds/Acre |
|---|---|

**Seed reclamation**

## Operator Contact/Responsible Official

**First Name:** **Last Name:**

**Phone:** **Email:**

**Seedbed prep:** Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

**Seed BMP:** If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
**Seed method:** Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.
**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment**

**Weed treatment plan description:** The site will be free of State or County listed noxious weeds. Invasive and non-native noxious weeds will be controlled. Weed control for all phases will be through the use of approved pesticides & herbicides according to applicable State, Fed, & local laws
**Weed treatment plan**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Monitoring plan description:** Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.
**Monitoring plan**

**Success standards:** 100% Compliance with applicable regulations

**Pit closure description:** There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet NMOCD requirements 19.15.17.
**Pit closure attachment:**

## Section 11 - Surface

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** AGREEMENT

**Surface Access Agreement Need description:** Agreement between Permian Resources, LLC and Desert Ram Holdings, LLC (400 W. Wall St., Suite 400, Midland, TX 79701)
**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** AGREEMENT

**Surface Access Agreement Need description:** Agreement between Permian Resources, LLC and Desert Ram Holdings, LLC (400 W. Wall St., Suite 400, Midland, TX 79701)
**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** AGREEMENT

**Surface Access Agreement Need description:** Agreement between Permian Resources, LLC and Desert Ram Holdings, LLC (400 W. Wall St., Suite 400, Midland, TX 79701)
**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

**Disturbance type:** OTHER

**Describe:** Overhead Electric Line

**Surface Owner:** PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** AGREEMENT

**Surface Access Agreement Need description:** Agreement between Permian Resources, LLC and Desert Ram Holdings, LLC (400 W. Wall St., Suite 400, Midland, T 79701)

**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

## Section 12 - Other

**Right of Way needed?** N **Use APD as ROW?**

**ROW Type(s):**

## ROW

**SUPO Additional Information:**

**Use a previously conducted onsite?** Y

**Previous Onsite information:** June 6, 2024 with Jeff Robertson (BLM Natural Resource Specialist). Also in attendance were Bob Ballard (BLM Natural Resource Specialist Supervisor), James Rutley (BLM Potash Geologist); Stephanie Rabadue Permian Resources Regulatory Manager; James Scott, Construction Superintendent Permian Resources; Roger Lowery, Permian Resources Surface Landman; Coosa Consulting.

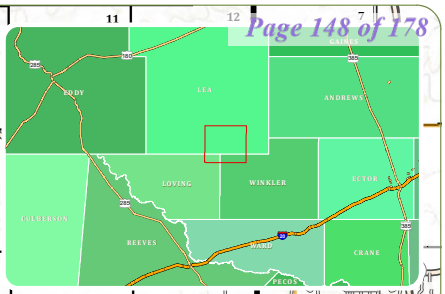
## Other SUPO

El_Campeon_Well_List_20260623151125.pdf

El_Camp_SUPO_20260624141522.pdf

# EXISTING ROAD MAP

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO










**DIRECTIONS TO LOCATION:**

FROM THE INTERSECTION OF CR-C3 AND WHITWORTH DR. IN JAL, NEW MEXICO

1. MOVE SOUTHWEST ON CR-C3 APPROX.7 MILES.
2. KEEP RIGHT ONTO NM-322 AND CONTINUE MOVE SOUTHWEST APPROX. 2742 FEET.
3. TURN RIGHT ONTO BECKHAM RD. AND MOVE WEST APPROX. 2 MILES.
4. KEEP LEFT ONTO LEASE ROAD AND CONTINUE MOVE WEST APPROX. 3 MILES.
5. TURN RIGHT AND MOVE NORTH APPROX. 2174 FEET.
6. TURN LEFT AND MOVE WEST APPROX. 3 MILES.
7. TURN LEFT AND MOVE SOUTH APPROX. 0.6 MILES.
8. TURN LEFT ON EXISTING ROAD AND MOVE EAST APPROX. 47 FEET.
9. TURN RIGHT AND MOVE SOUTH APPROX. 80 FEET
10. TURN LEFT ON EXISTING ROAD AND MOVE EAST APPROX. 33 FEET TO NORTHWEST PAD CORNER.

1:99,000

0 6,000 12,000 18,000 Feet

COOSA CONSULTING
**PERMIAN BASIN**
PO Box 1583
Midland, TX 79702
**CONTACT**
Email: info@coosaconsulting.com
Office : (432) 631-4738

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

**Legend**

- Driving Route
- Existing Road
- Freeways Highways
- Major Road
- Local Road
- Top Soil
- Well Pad

## El Campeon Fed Com SESW Well Pad 2

**OPERATOR:**
**PERMIAN RESOURCES OPERATING, LLC**

PERMIAN RESOURCES

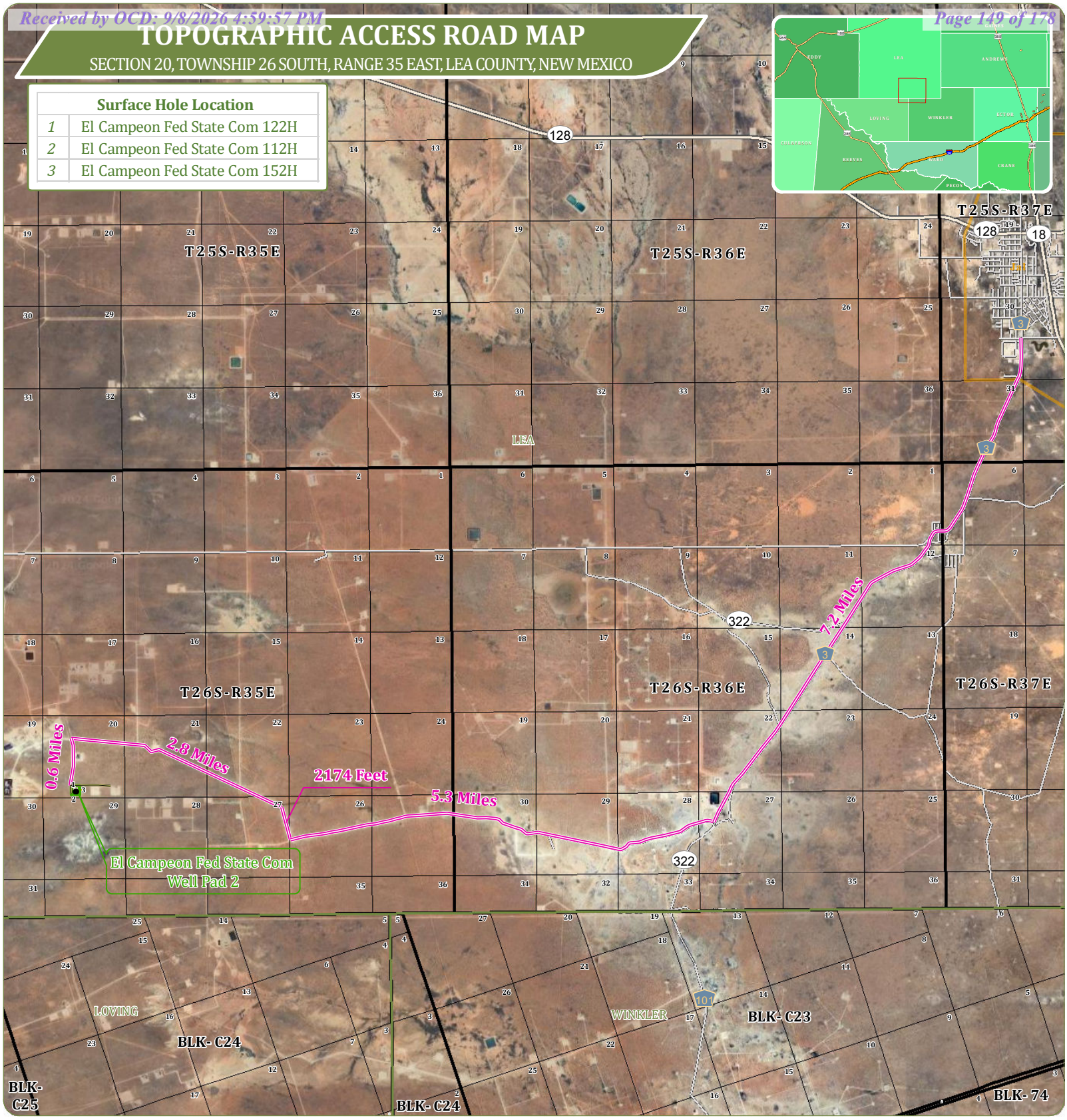


Rev: 1

# TOPOGRAPHIC ACCESS ROAD MAP

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO

| Surface Hole Location | |
|---|---|
| 1 | El Campeon Fed State Com 122H |
| 2 | El Campeon Fed State Com 112H |
| 3 | El Campeon Fed State Com 152H |




| 1:99,000 | 0 | 6,500 | 13,000 | 19,500 Feet |
|---|---|---|---|---|

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PERMIAN BASIN
PO Box 1583
Midland, TX 79702
CONTACT
Email: info@coosaconsulting.com
Office : (432) 631-4738

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

**Legend**

- SHL
- Existing Road
- Driving Route
- Freeways Highways
- Major Road
- Local Road
- Top Soil
- Well Pad

## El Campeon Fed Com SESW Well Pad 2

**OPERATOR:**
**PERMIAN RESOURCES OPERATING, LLC**

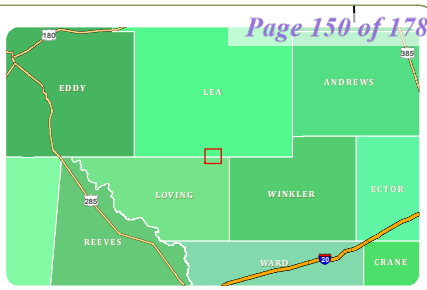
PERMIAN RESOURCES



Rev: 1

# EXISTING WELLS MAP

SECTION 29, TOWNSHIP 26 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO







| 1:30,000 | 0 | 2,000 | 4,000 | 6,000 Feet |
|---|---|---|---|---|

**Legend**

- SHL/FTP/LTP/BHL
- Existing Wells
- Wellbore
- Well Pad
- 1 Mile Buffer

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Midland, TX 79702
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Email: info@coosaconsulting.com
Office : (432) 631-4738

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

## El Campeon

**OPERATOR:**
**PERMIAN RESOURCES OPERATING, LLC**

PERMIAN RESOURCES

Rev: 0

# TITUS OIL & GAS PRODUCTION, LLC

SHEET NO. 1 OF 2

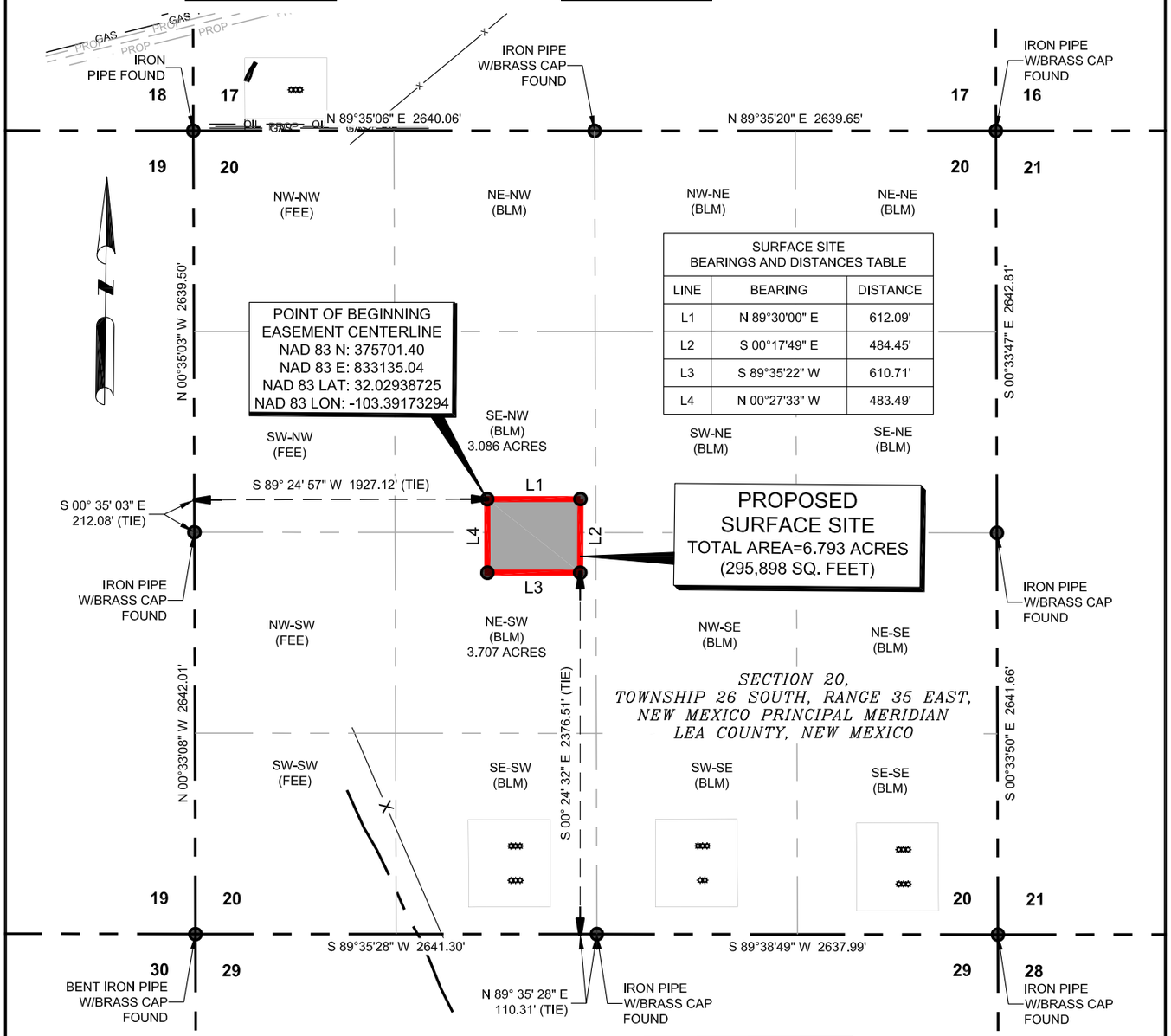
NATURE OF WORK PROPOSED WELL PAD DATE 01-20-19 SRID NO.

PROJECT- EL CAMPEON CTB 20 JOB OR AFE

SEC. 20 BLK OR RANGE 35E TWP 26S MERIDIAN NEW MEXICO PRINCIPAL MERIDIAN CO. LEA STATE NEW MEXICO

REMARKS TOTAL AREA= 6.793 ACRES (295,898 SQUARE FEET) RE: ☐ AS-BUILT ☑ STAKING

PROP. ROW. WIDTH TEMP. WORK ROW WIDTH




SURFACE SITE BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L1 | N 89°30'00" E | 612.09' |
| L2 | S 00°17'49" E | 484.45' |
| L3 | S 89°35'22" W | 610.71' |
| L4 | N 00°27'33" W | 483.49' |

SURFACE SITE BREAKDOWN BY 1/4 1/4

| 1/4 1/4 | OWNERSHIP | ACRES +/- | SQ. FEET | CL LENGTH | CL RODS |
|---|---|---|---|---|---|
| SE-NW | BLM | 3.086 | 134,405 | - | - |
| NE-SW | BLM | 3.707 | 161,493 | - | - |
| TOTAL | | 6.793 | 295,898 | - | - |

1000' 0' 1000' 2000'

SCALE: 1" = 1000'

NOTES:

1.) BEARINGS, DISTANCES, AREA AND COORDINATES SHOWN HEREON ARE CORRELATED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983, EAST ZONE, AS DETERMINED BY GPS OPUS OBSERVATIONS. ALL BEARINGS AND DISTANCES SHOWN ARE GRID.

2.) LATITUDE & LONGITUDE ARE NAD 83 DECIMAL GEOGRAPHIC.

3.) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THE REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF ALL IMPROVEMENTS WAS BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAS BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.

GARRETT J SMELKER NEW MEXICO 25036 PROFESSIONAL SURVEYOR 01/21/2020

DATE: 01-20-19 DATE SURVEYED 12-09-19 DRAFT JEB

JOB NO. 1911193 FIELD BOOK V. RF16, P. 3 REV. 1

FILE 1911193 EL CAMPEON CTB 20-PAD SITE (17)

TRANSGLOBAL SERVICES LLC
TBPLS FIRM# 10193740
1100 Macon Street
Fort Worth, Texas 76102
(817) 529-1180 ~ Fax (817) 529-1181

I, GARRETT J. SMELKER, A NEW MEXICO PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GARRETT J. SMELKER NEW MEXICO PS #25036

TITUS OIL & GAS PRODUCTION, LLC SHEET NO. 2 OF 2

NATURE OF WORK PROPOSED WELL PAD DATE 01-20-19 SRID NO.

PROJECT- EL CAMPEON CTB 20 JOB OR AFE

SEC. 20 BLK OR RANGE 35E TWP 26S MERIDIAN NEW MEXICO PRINCIPAL MERIDIAN CO. LEA STATE NEW MEXICO

REMARKS TOTAL AREA= 6.793 ACRES (295,898 SQUARE FEET) RE: ☐ AS-BUILT ☑ STAKING

PROP. ROW. WIDTH TEMP. WORK ROW WIDTH

## METES AND BOUNDS DESCRIPTION

**BEING A PROPOSED 6.793 ACRE SURFACE SITE SITUATED IN SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST, NEW MEXICO PRINCIPAL MERIDIAN, LEA COUNTY, NEW MEXICO. SAID 6.793 ACRE SURFACE SITE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:**

**BEGINNING AT A POINT IN SAID SECTION 20 FROM WHICH AN IRON PIPE WITH A BRASS CAP FOUND FOR THE WEST QUARTER CORNER OF SAID SECTION 20 BEARS S 89°24'57" W, A DISTANCE OF 1927.12 FEET (TIE) AND S 00°35'03" E, A DISTANCE OF 212.08 FEET (TIE). SAID POINT OF BEGINNING HAVING A NEW MEXICO STATE PLANE COORDINATES OF 1983, EAST ZONE, VALUE OF N: 375701.40, E:833135.04 FEET FOR REFERENCE;**

**THENCE N 89°30'00" E, A DISTANCE OF 612.09 FEET TO A POINT;**

**THENCE S 00°17'49" E, A DISTANCE OF 484.45 FEET TO A POINT FROM WHICH AN IRON PIPE WITH A BRASS CAP FOUND FOR THE SOUTH QUARTER CORNER OF SAID SECTION 20 BEARS S 00°24'32" E, A DISTANCE OF 2376.51 FEET (TIE) AND N 89°35'28" E, A DISTANCE OF 110.31 FEET (TIE);**

**THENCE S 89°35'22" W, A DISTANCE OF 610.71 FEET TO A POINT;**

**THENCE N 00°27'33" W, A DISTANCE OF 483.49 FEET TO THE POINT OF BEGINNING AND CONTAINING 6.793 ACRES OR 295,898 SQUARE FEET OF LAND IN SECTION 17.**




NOTES:

1.) BEARINGS, DISTANCES, AREA AND COORDINATES SHOWN HEREON ARE CORRELATED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983, EAST ZONE, AS DETERMINED BY GPS OPUS OBSERVATIONS. ALL BEARINGS AND DISTANCES SHOWN ARE GRID.

2.) LATITUDE & LONGITUDE ARE NAD 83 DECIMAL GEOGRAPHIC.

3.) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THE REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF ALL IMPROVEMENTS WAS BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAS BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.

DATE: 01-20-19 DATE SURVEYED 12-09-19 DRAFT JEB

JOB NO. 1911193 FIELD BOOK V. RF16, P. 3 REV. 1

FILE 1911193 EL CAMPEON CTB 20-PAD SITE (17)

TRANSGLOBAL SERVICES LLC
TBPLS FIRM# 10193740
1100 Macon Street
Fort Worth, Texas 76102
(817) 529-1180 ~ Fax (817) 529-1181

I, GARRETT J. SMELKER, A NEW MEXICO PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GARRETT J. SMELKER NEW MEXICO PS #25036

Received by OCD: 9/8/2026 4:59:57 PM


LINE TABLE A
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L1 | N 89°35'28" E | 163.99' |
| L2 | N 24°11'40" E | 728.22' |
| L3 | N 08°40'15" E | 2142.97' |
| L4 | N 08°40'47" E | 1061.04' |
| L5 | N 00°30'55" W | 519.09' |
| L6 | N 00°31'01" W | 990.13' |
| L7 | N 15°11'53" W | 418.78' |

LINE TABLE B
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L8 | N 15°20'25" W | 33.10' |
| L9 | N 15°12'24" W | 1620.41' |
| L10 | N 84°49'09" W | 481.18' |

LINE TABLE C
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L11 | N 00°33'32" W | 743.89' |

LINE TABLE D
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

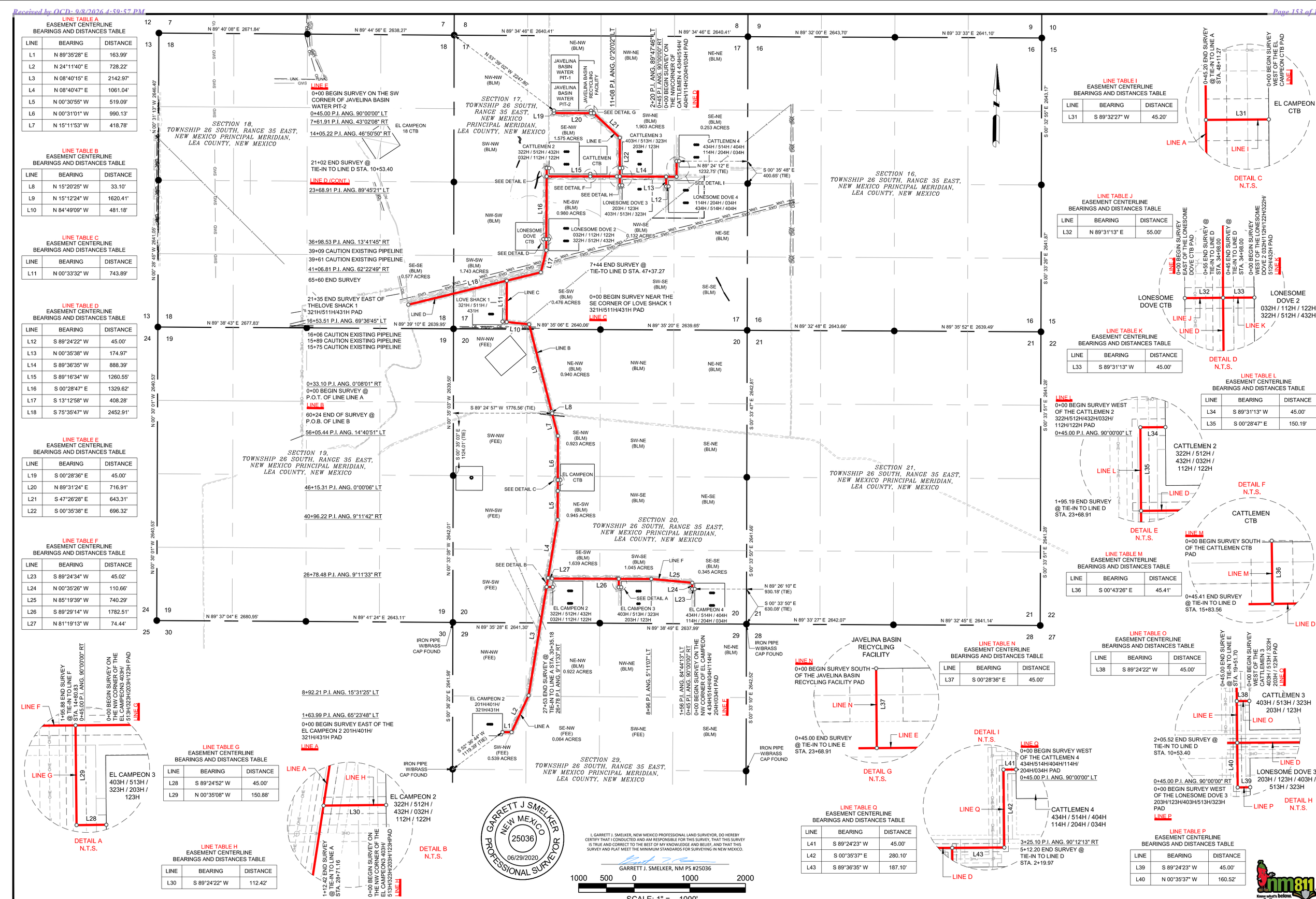
| LINE | BEARING | DISTANCE |
|---|---|---|
| L12 | S 89°24'22" W | 45.00' |
| L13 | N 00°35'38" W | 174.97' |
| L14 | S 89°36'35" W | 888.39' |
| L15 | S 89°16'34" W | 1260.55' |
| L16 | S 00°28'47" E | 1329.62' |
| L17 | S 13°12'58" W | 408.28' |
| L18 | S 75°35'47" W | 2452.91' |

LINE TABLE E
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L19 | S 00°28'36" E | 45.00' |
| L20 | N 89°31'24" E | 716.91' |
| L21 | S 47°26'28" E | 643.31' |
| L22 | S 00°35'38" E | 696.32' |

LINE TABLE F
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L23 | S 89°24'34" W | 45.02' |
| L24 | N 00°35'26" W | 110.66' |
| L25 | N 85°19'39" W | 740.29' |
| L26 | S 89°29'14" W | 1782.51' |
| L27 | N 81°19'13" W | 74.44' |







LINE TABLE G
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L28 | S 89°24'52" W | 45.00' |
| L29 | N 00°35'08" W | 150.88' |




LINE TABLE H
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L30 | S 89°24'22" W | 112.42' |




LINE TABLE I
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L31 | S 89°32'27" W | 45.20' |




LINE TABLE J
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L32 | N 89°31'13" E | 55.00' |

LINE TABLE K
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L33 | S 89°31'13" W | 45.00' |




LINE TABLE L
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L34 | S 89°31'13" W | 45.00' |
| L35 | S 00°28'47" E | 150.19' |

LINE TABLE M
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L36 | S 00°43'26" E | 45.41' |




LINE TABLE N
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L37 | S 00°28'36" E | 45.00' |




LINE TABLE Q
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L41 | S 89°24'23" W | 45.00' |
| L42 | S 00°35'37" E | 280.10' |
| L43 | S 89°36'35" W | 187.10' |

LINE TABLE O
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L38 | S 89°24'22" W | 45.00' |




LINE TABLE P
EASEMENT CENTERLINE
BEARINGS AND DISTANCES TABLE

| LINE | BEARING | DISTANCE |
|---|---|---|
| L39 | S 89°24'23" W | 45.00' |
| L40 | N 00°35'37" W | 160.52' |

GARRETT J SMELKER NEW MEXICO 25036 06/29/2020 PROFESSIONAL SURVEYOR

I, GARRETT J. SMELKER, NEW MEXICO PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GARRETT J. SMELKER, NM PS #25036

1000 500 0 1000 2000
SCALE: 1" = 1000'

XX-XXX

CASE NO.: XXXXXXXXX

TRANSGLOBAL SERVICES LLC

TBPLS FIRM# 10193740
1100 Macon St.
Fort Worth, Texas 76102
(817) 529-1180 ~ Fax (817) 529-1181

NOTES:

1.) BEARINGS, DISTANCES, AREA AND COORDINATES SHOWN HEREON ARE CORRELATED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF 1983, EAST ZONE, AS DETERMINED BY GPS OPUS OBSERVATIONS. ALL BEARINGS AND DISTANCES SHOWN ARE GRID.

2.) LATITUDE & LONGITUDE ARE NAD 83 DECIMAL GEOGRAPHIC.

3.) THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THE REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF ALL IMPROVEMENTS WAS BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAS BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.

**DESCRIPTION:**

**SURVEY FOR A STRIP OF LAND 30.0 FEET WIDE AND 21,818.80 FEET, 1,322.35 RODS OR 4.132 MILES IN LENGTH CROSSING BLM LAND IN SECTIONS 17, 18, 20 & 29, TOWNSHIP 26 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.**

**LEGEND**

EASEMENT CENTERLINE
FOUND MONUMENT
CALCULATED CORNER

1000 500 0 1000 2000
SCALE: 1" = 1000'

TITUS OIL & GAS PRODUCTION, LLC

SHEET NO. 1 OF 1

NATURE OF WORK PROPOSED FLOWLINE EASEMENT DATE 06-29-20 SRID NO. N/A

PROJECT- EL CAMPEON, CATTLEMEN, LONESOME DOVE, LOVE SHACK UNITS JOB OR AFE NO. N/A

SEC. 17, 18, 20 & 29 BLK OR RANGE 35E TWP 26S SURVEY N.M.P.M. CO. LEA STATE NM

REMARKS SEE ABOVE

PROP. PERM. ROW WIDTH 30 FEET TEMP. WORK ROW WIDTH 20 FEET DRAFTER MMP REVISION 0

TITUS PIPELINE EASEMENT OVERALL -06-29-20.DWG

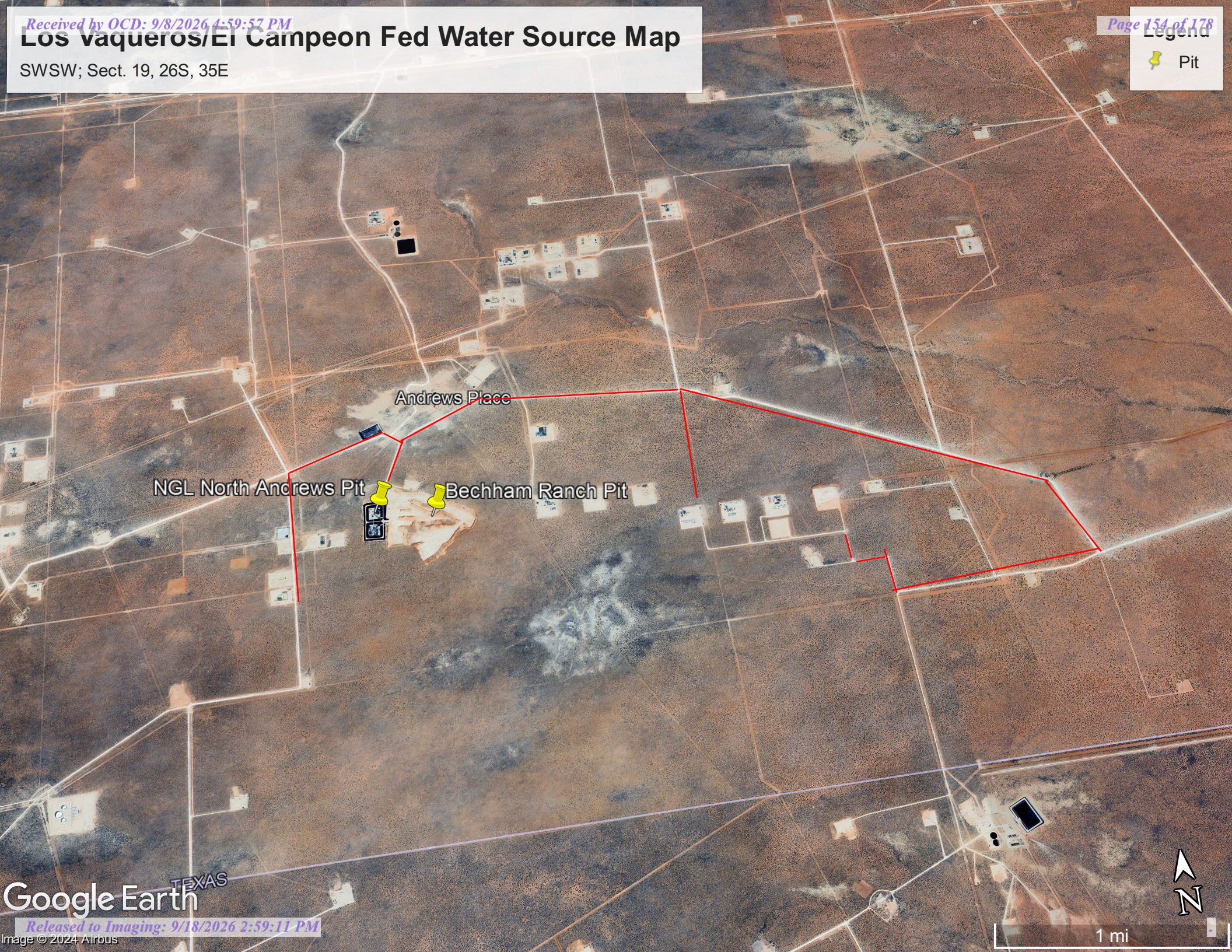
nm811 Know what's below. Call before you dig.

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Received by OCD: 9/8/2026 4:59:57 PM


# Los Vaqueros/El Campeon Fed Water Source Map

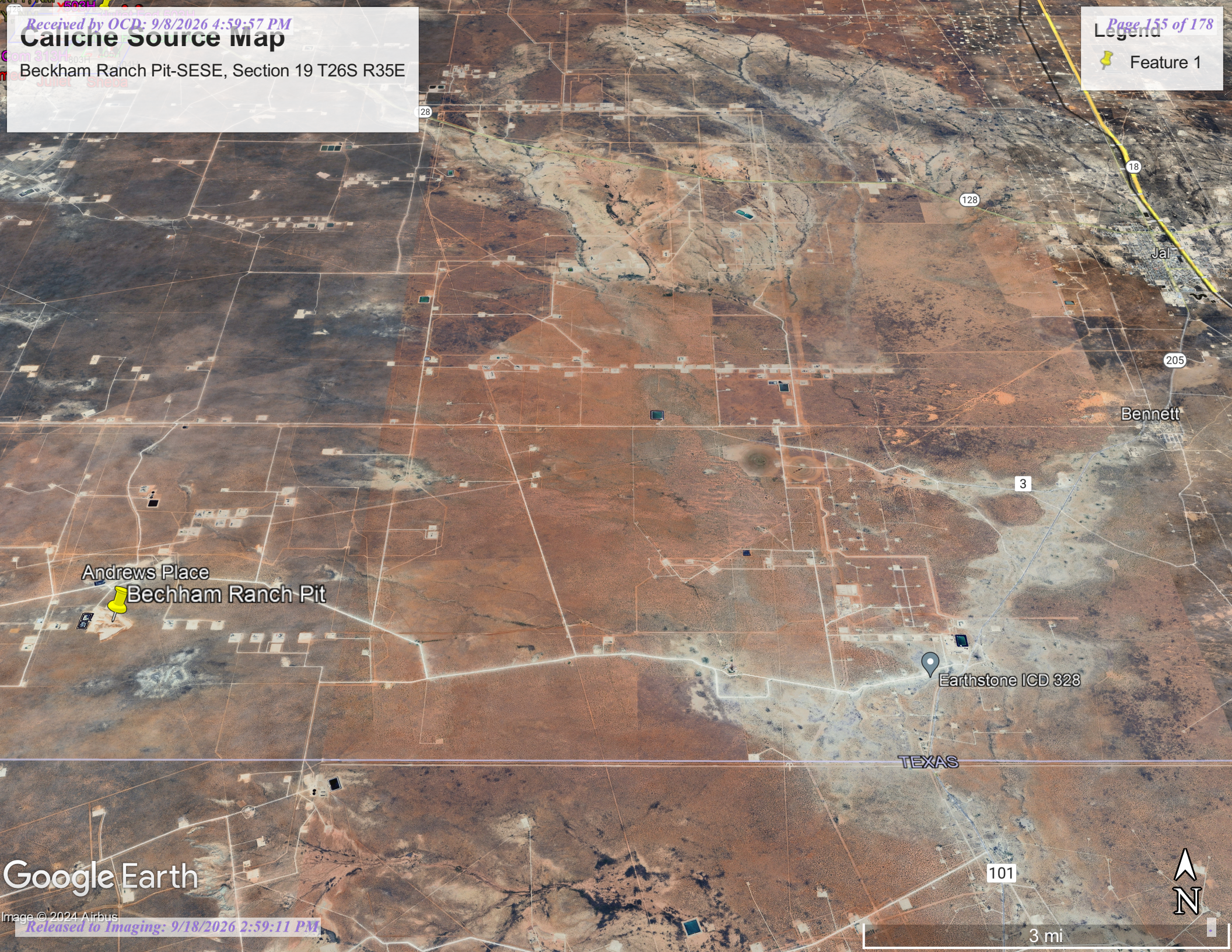
SWSW; Sect. 19, 26S, 35E

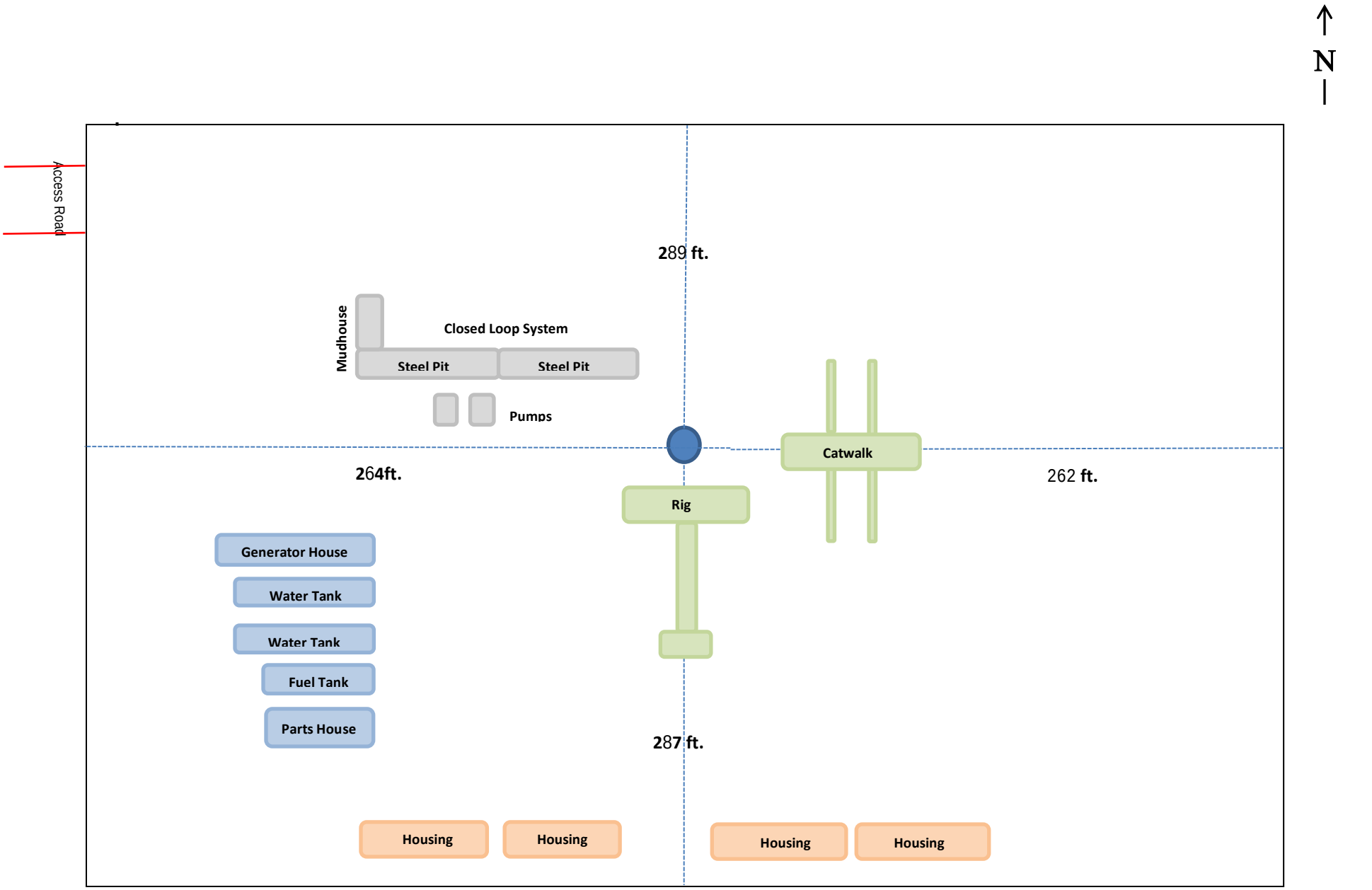



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# Caliche Source Map

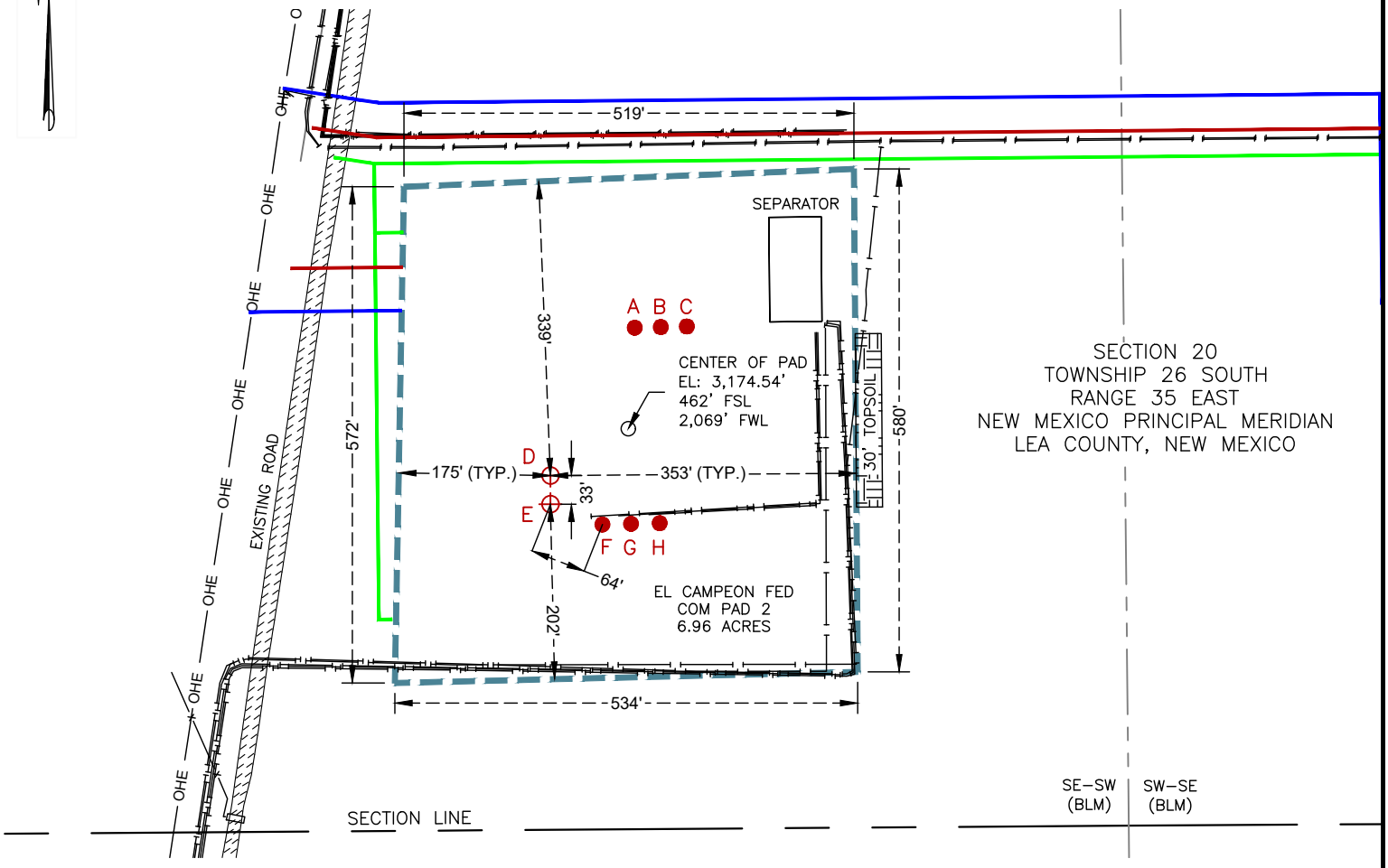
Beckham Ranch Pit-SESE, Section 19 T26S R35E






# Rig Layout
# El Campeon Pad 2

# SITE PLAN
# EL CAMPEON FED COM PAD 2
SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST, NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO




| ID | WELL NAME | DISTANCE | NAD 83 X | NAD83 Y | NAD83 LAT. | NAD83 LONG. |
|---|---|---|---|---|---|---|
| A | EL CAMPEON FED COM #412H | 578' FSL - 2,077' FWL | 833,307.47' | 373,420.93' | 32.023115° | -103.391241° |
| B | EL CAMPEON FED COM #512H | 579' FSL - 2,107' FWL | 833,337.46' | 373,421.65' | 32.023116° | -103.391144° |
| C | EL CAMPEON FED COM #432H | 579' FSL - 2,137' FWL | 833,367.46' | 373,422.37' | 32.023117° | -103.391047° |
| D | EL CAMPEON FED COM 3H | 409' FSL - 1,979' FWL | 833,210.20' | 373,250.40' | 32.022649° | -103.391559° |
| E | EL CAMPEON FED COM 302H | 376' FSL - 1,978' FWL | 833,210.20' | 373,217.40' | 32.022558° | -103.391560° |
| F | EL CAMPEON FED COM 112H | 352' FSL - 2,038' FWL | 833,270.19' | 373,193.97' | 32.022492° | -103.391367° |
| G | EL CAMPEON FED COM 122H | 352' FSL - 2,071' FWL | 833,303.18' | 373,194.76' | 32.022493° | -103.391261° |
| H | EL CAMPEON FED COM 152H | 353' FSL - 2,104' FWL | 833,336.17' | 373,195.56' | 32.022495° | -103.391154° |

## LEGEND
- SECTION LINES
- EDGE OF ROAD
- EXISTING SURFACE SITE
- FOREIGN PIPELINE
- EXISTING ACCESS ROAD
- EXISTING ELECTRIC
- EXISTING PIPELINE
- TOPSOIL
- DRILLED SURFACE HOLE
- PROPOSED SURFACE HOLE

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR
Date: 06/02/2026

200' 0' 200'

PERMIAN RESOURCES

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: EL CAMPEON FED COM_PAD_2_SITE_PLAN

DRAWING PATH: P:\Clients - Projects\Permian Resources\24-051855_El Campeon Fed Com\Drafting\Site Plans

| Drawn: VG | Date: 05/22/2026 | Job: 24-051855 | Scale: 1" = 200' |
|---|---|---|---|
| Checked: MJM | Date: 05/22/2026 | REVISION NO. 0 | SHEET 1 OF 1 |

COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701

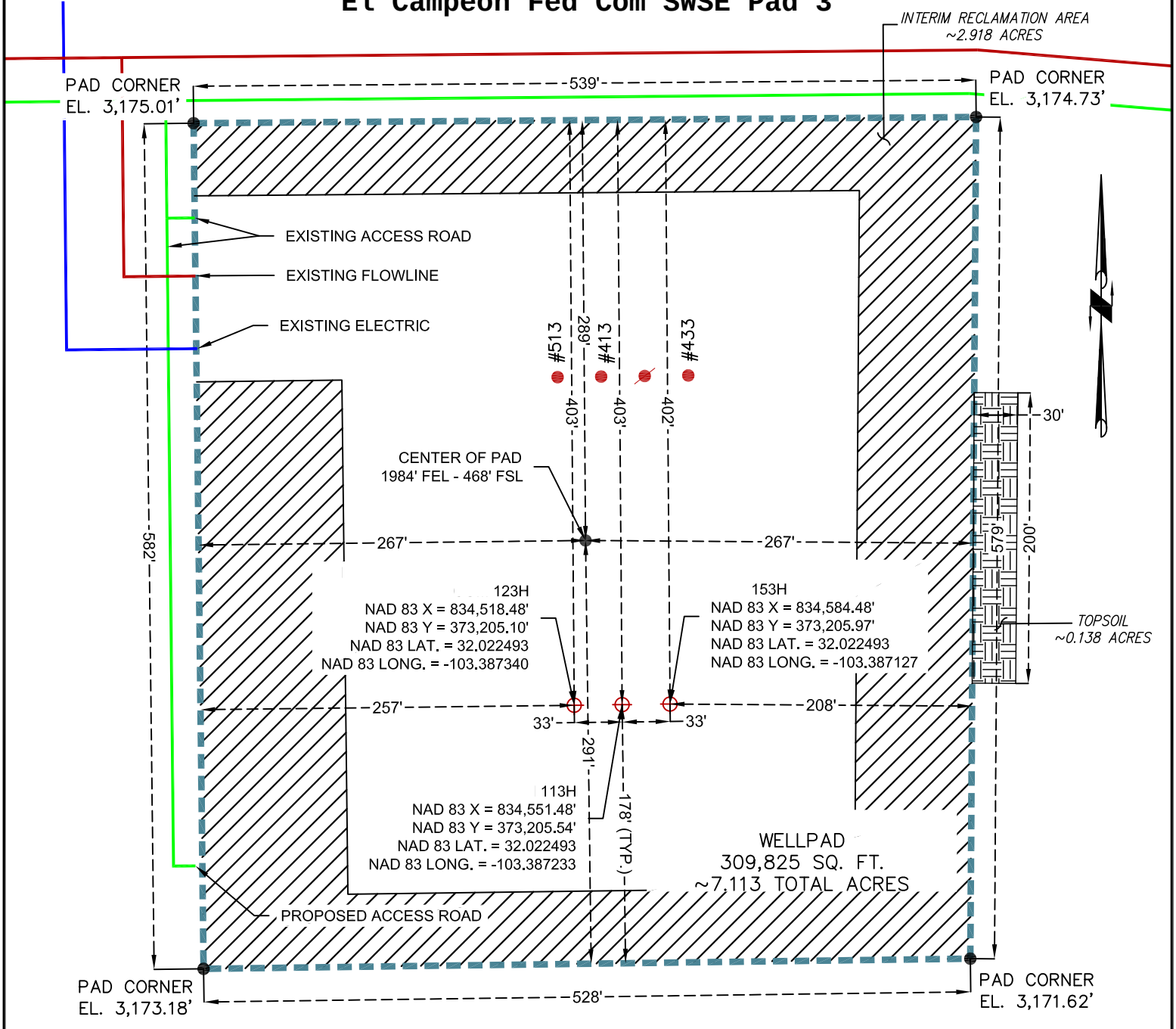
PERMIAN RESOURCES

# SITE PLAN

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

## El Campeon Fed Com SWSE Pad 3

100' 0' 100'




MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 7/23/2024

LEGEND

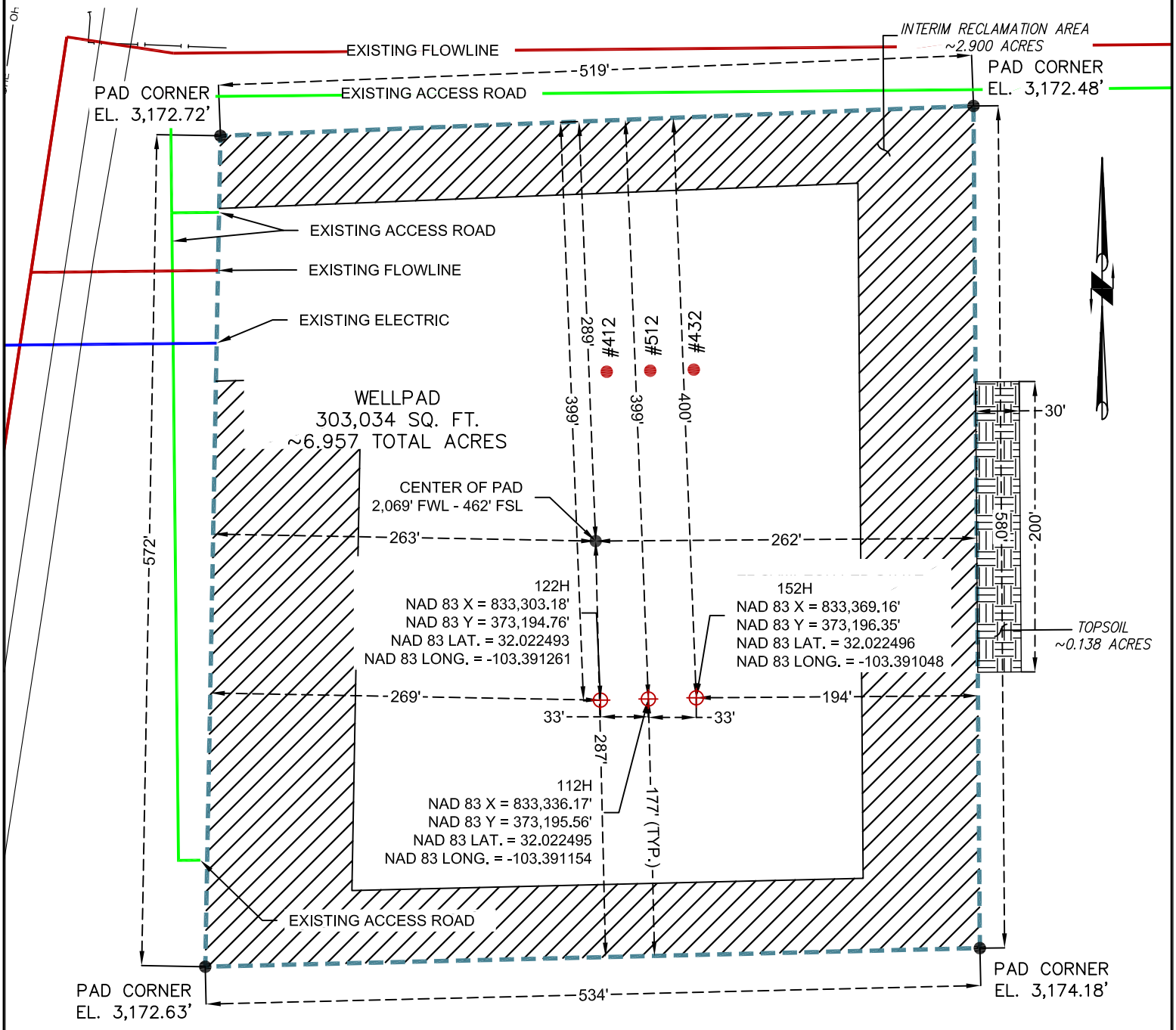
- SURVEY LINES
- PROPOSED SURFACE SITE
- EXISTING ACCESS ROAD
- EXISTING FLOWLINE
- EXISTING ELECTRIC
- PROPOSED SURFACE LOCATION
- AS-DRILLED SURFACE LOCATION
- PAD CORNER

| | | | |
|---|---|---|---|
| Date: 07/23/2024 | Date: 07/23/2024 | Scale: 1"=100' | DWG: 24-051855_El Campeon Fed State Com Pad 3 Site Plan |
| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\24-051855_El Campeon Fed State Com\Drafting\Site Plans | Drawn: MAT | Checked: MJM | Job: 24-051855 | REVISION NO. 2 |

PERMIAN RESOURCES

# SITE PLAN
# EL CAMPEON FED COM SESW PAD 2
SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

100' 0' 100'




MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 7/23/2024

## LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- EXISTING ACCESS ROAD
- EXISTING FLOWLINE
- EXISTING ELECTRIC
- PROPOSED SURFACE LOCATION
- AS-DRILLED SURFACE LOCATION
- PAD CORNER

| | | | |
|---|---|---|---|
| Date: 07/23/2024 | Date: 07/23/2024 | Scale: 1"=100' | DWG: 24-051855_EI Campeon Fed State Com Pad 2 Site Plan |
| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\24-051855_EI Campeon Fed State Com\Drafting\Site Plans | Drawn: MAT | Checked: MJM | Job: 24-051855 | REVISION NO. 2 |

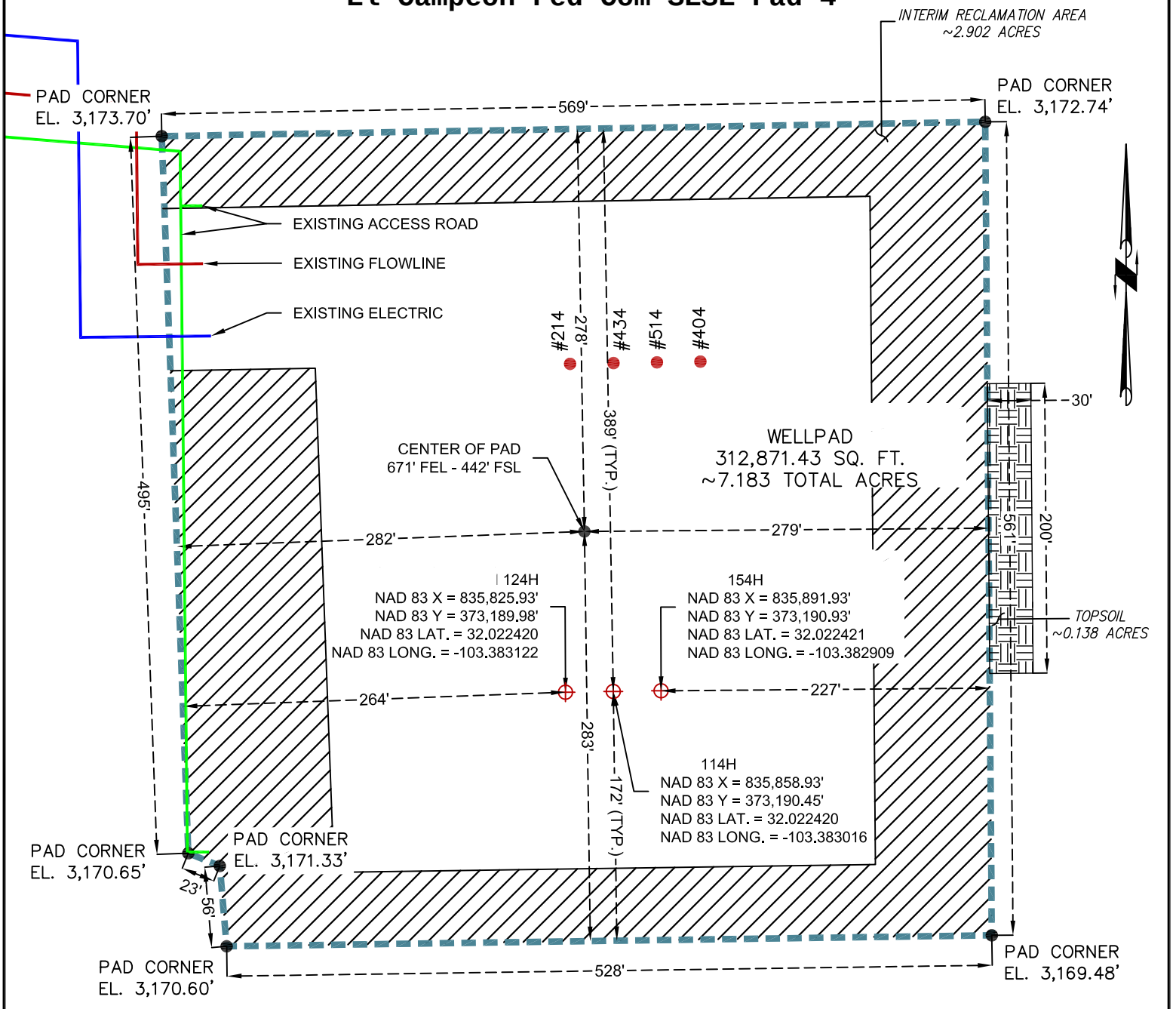
PERMIAN RESOURCES

# SITE PLAN

SECTION 20, TOWNSHIP 26 SOUTH, RANGE 35 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

## El Campeon Fed Com SESE Pad 4

100' 0' 100'




LEGEND

- SURVEY LINES
- PROPOSED SURFACE SITE
- EXISTING ACCESS ROAD
- EXISTING FLOWLINE
- EXISTING ELECTRIC
- PROPOSED SURFACE LOCATION
- AS-DRILLED SURFACE LOCATION
- PAD CORNER

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 7/23/2024

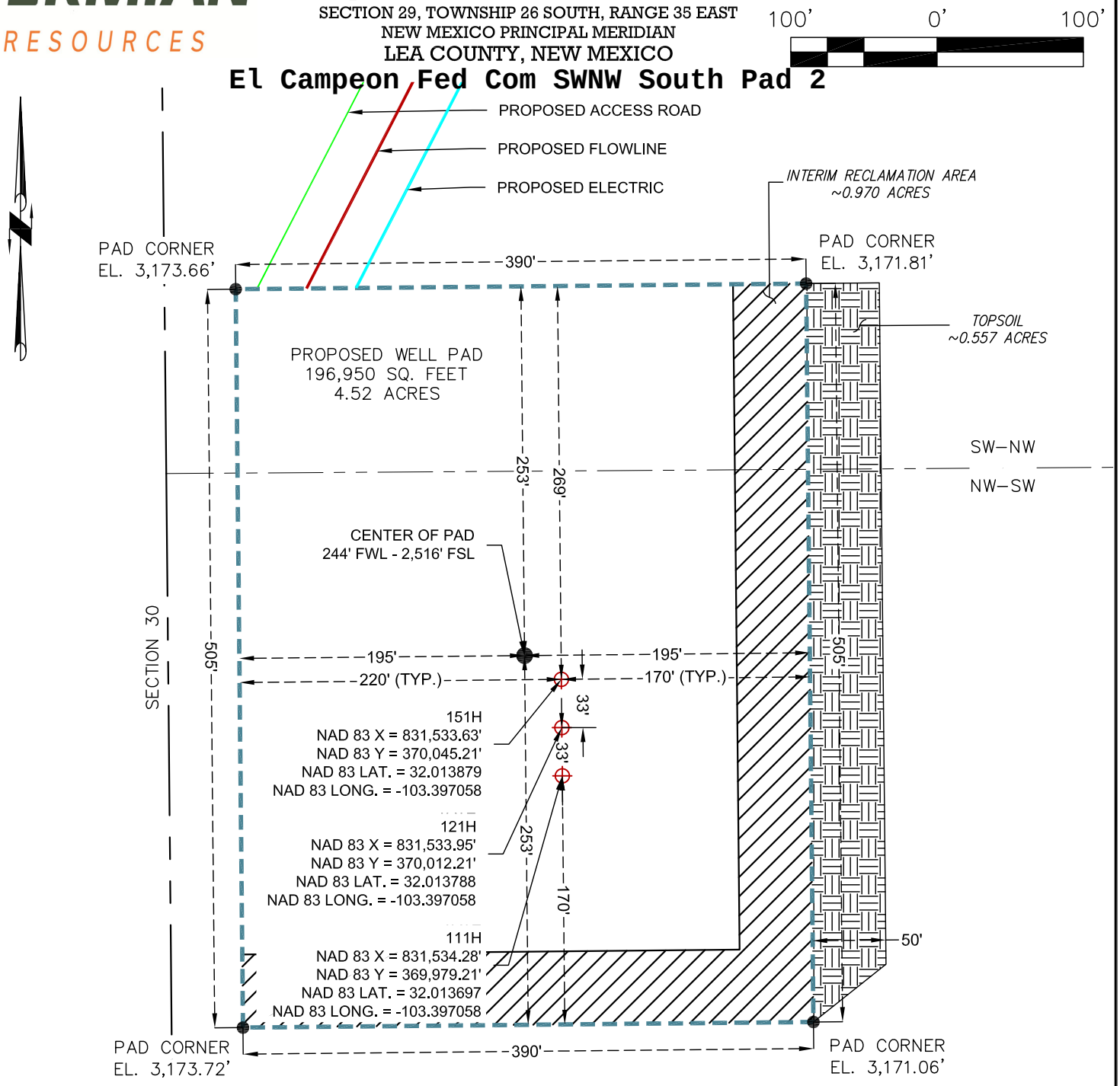
| | | | |
|---|---|---|---|
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| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\24-051855_El Campeon Fed State Com\Drafting\Site Plans | Drawn: MAT | Checked: MJM | Job: 24-051855 | REVISION NO. 2 |

PERMIAN RESOURCES

# SITE PLAN

SECTION 29, TOWNSHIP 26 SOUTH, RANGE 35 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

## El Campeon Fed Com SWNW South Pad 2




SECTION 29
TOWNSHIP 26 SOUTH
RANGE 35 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- PROPOSED SURFACE LOCATION
- PAD CORNER

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 7/19/2024

| | | | |
|---|---|---|---|
| Date: 07/03/24 | Date: 07/03/24 | Scale: 1"=100' | DWG: 24-051855_El Campeon Fed State Com Pad Site Plan |
| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\24-051855_El Campeon Fed State Com\Drafting\Site Plans | Drawn: CAS | Checked: MJM | Job: 24-051855 | REVISION NO. 1 |

**El Campeon Federal Project Well List**
**Permian Resources Operating, LLC**
6/22/2026

PAD 1

El Campeon Federal Com 301H (Permitted)
SHL: 1828’ FNL, 692’ FWL, E-29-26S-35E
SLC: 0’ FSL, 660’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 431H (Drilled)
SHL: 1828’ FNL, 722’ FWL, E-29-26S-35E
SLC: 0’ FSL, 980’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 511H (Drilled)
SHL: 1828’ FNL, 662’ FWL, E-29-26S-35E
SLC: 0’ FSL, 443’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 401H (Drilled)
SHL: 1828’ FNL, 632’ FWL, E-29-26S-35E
SLC: 0’ FSL, 342’ FWL, Lot 4-32-26S-32E

PAD 2

El Campeon Federal Com 3H:(NEW)
SHL: 409' FSL, 1,979' FWL, N-20- 26S-35E
SLC: 0’ FSL, 2308’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 302H:(Permitted-Sundried)
SHL: 376’ FSL & 1,978' FWL, N-20- 26S-35E.
SLC: 0’ FSL, 989’’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 152H:(Drilled)
SHL: 353’ FSL & 2,104' FWL, N-20- 26S-35E. SLC: 0’ FSL, 2310’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 112H:(Drilled)
SHL: 352’ FSL & 2,038' FWL, N-20-26S-35E. SLC: 0’ FSL, 1980’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 122H:(Drilled)
SHL: 352’ FSL & 2,071' FWL, N-20- 26S-35E.
SLC: 0’ FSL, 1980’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 432H (Drilled)
SHL: 579’ FSL, 2137’ FWL, N-20-26S-35E
SLC: 0’ FSL, 2259’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 412H (Drilled)
SHL: 579’ FSL, 2077’ FWL, N-20-26S-35E
SLC: 0’ FSL, 1703’ FWL, Lot 3-32-26S-35E

El Campeon Federal Com 512H (Drilled)
SHL: 579’ FSL, 2107’ FWL, N-20-26S-35E
SLC: 0’ FSL, 1873’ FWL, Lot 3-32-26S-35E

PAD 3

El Campeon Federal Com 153H:
SHL: 355' FSL & 1,927' FEL, O-20-26S-35E
SLC: 0’ FSL & 1650’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 113H:
SHL: 355' FSL & 1,960' FEL, O-20-26S-35E
SLC: 0’ FSL & 1980’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 123H:
SHL: 354' FSL & 1,993' FEL, O-20-26S-35E
SLC: 0’ FSL & 1980’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 203H (Permitted)
SHL: 355’ FSL, 1957’ FEL, O-20-26S-35E
BHL: 10’ FSL, 2308’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 433H (Drilled)
SHL: 581’ FSL, 1912’ FEL, O-20-26S-35E
BHL: 0’ FSL, 1666’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 413H (Drilled)
SHL: 581’ FSL, 1972’ FEL, O-20-26S-35E
BHL: 0’ FSL, 2308’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 513H (Drilled-Skid)
SHL: 581’ FSL, 2002’ FEL, O-20-26S-35E
BHL: 0’ FSL, 1870’ FEL, Lot 2-32-26S-35E

El Campeon Federal Com 513Y (PA)
SHL: 581’ FSL, 1942’ FEL, O-20-26S-35E

PAD 4

El Campeon Federal Com 154H: (Permitted-Sundried)
SHL: 336' FSL & 786' FEL, P-20-26S-35E
SLC: 0’ FSL & 1650’ FEL, Lot 2, 32-26S-35E

El Campeon Federal Com 304H: (Permitted-Sundried)
SHL: 369' FSL & 786' FEL, P-20-26S-35E
BHL: 0' FSL & 330' FEL, Lot 1, 32-26S-35E

El Campeon Federal Com 114H: (Drilled)
SHL: 331' FSL & 719' FEL, P-20-26S-35E
SLC: 0’ FSL & 660’ FEL, Lot 1, 32-26S-35E

El Campeon Federal Com 124H: (Drilled)
SHL: 331' FSL & 686' FEL , P-20-26S-35E
SLC: 0’ FSL & 660’ FEL, Lot 1, 32-26S-35E

El Campeon Federal Com 214H (Drilled)
SHL: 558’ FSL, 680’ FEL, P-20-26S-35E
BHL: 51’ FSL, 368’ FWL, Lot 1-32-26S-35E

El Campeon Federal Com 404H (Drilled)
SHL: 559’ FSL, 590’ FEL, P-20-26S-35E
BHL: 36’ FSL, 360’ FWL, Lot 1-32-26S-35E

El Campeon Federal Com 514H (Drilled)
SHL: 559’ FSL, 620’ FEL, P-20-26S-35E
BHL: 36’ FSL, 584’ FWL, Lot 1-32-26S-35E

El Campeon Federal Com 434H (Drilled)
SHL: 558' FSL, 650' FEL, P-20-26S-35E
BHL: 23' FSL, 985' FEL, Lot 1-32-26S-35E

El Campeon South Well Pad 2

El Campeon Federal Com 111H
SHL: 2,434' FSL & 270' FWL, L-29-26S-35E
SLC: 0’ FSL & 660’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 151H
SHL: 2500’ FWL & 269’ FWL, L-29-26S-35E
SLC: 0’FSL & 990’ FWL, Lot 4-32-26S-35E

El Campeon Federal Com 121H:
SHL: 2,467' FSL & 269’ FWL, L-29-26S-35E
BHL: 0’ FSL & 660’ FWL, Lot 4-32-26S-35E

## Well Site Locations

The results of the El Campeon Fed Com Development Program will develop economic quantities of oil and gas with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

## Surface Use Plan

1. **Existing Roads**
    A. From the intersection of CR-C3 and Whitworth Dr. in Jal, New Mexico: Move Southwest on CR-C3 approximately 7 miles, keep right onto NM-322 and continue to move Southwest approximately 2742 feet. Turn right onto Beckham Road and move West approximately 2 miles. Keep left onto lease road and move West approximately 3 miles. Turn right and move North approximately 2174 feet, turn left and move West approximately 3 miles. Turn left and move south approximately 0.6 miles. Turn left on existing road and move East approximately 47 feet. Turn right and move South approximately 80 feet, turn left on existing road and move East to SESW Pad 2 pad corner. Transportation maps identifying existing roads that will be used to access the project area are included from Coosa Consulting marked as, 'Existing Access Road Map'.
    B. Transportation Plan identifying existing roads that will be used to access the project area is included from Coosa marked as, 'Existing Access Road Map.' All equipment and vehicles will be confined to the routes shown on the 'Existing Access Road Map' as provided by Coosa Consulting. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. **New or Upgraded Access Roads**
    A. **New Roads**. No new roads are needed for this project.
    B. **Well Pads**. The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
    C. **Anticipated Traffic**. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery are completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
    D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the El Campeon Fed Com and proposed new roads provided by Coosa Consulting unless otherwise approved by the BLM and applied for by Permian Resource Production, LLC.
    E. **Road Dimensions**. The maximum width of the driving surface of new roads will be 30 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.




**Level Ground Section**

F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
G. **Fence Cuts**: No.
H. **Fences**: No.
I. **Cattle Guards**: No.
J. **Turnouts**: No.
K. **Culverts**: No.
L. **Cuts and Fills**: Not significant.
M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
N. **Maintenance**. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
O. **Drainage**. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

**3. Location of Existing Wells**

A. See attached Existing Wells map.

**4. Ancillary Facilities**

A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

**5. Location of Proposed Production Facilities**

A. **Production Facilities**. No additional production facility is required for the El Campeon Fed Com project. In the event the El Campeon Fed Com wells are found productive, production volumes will flow to the previously approved El Campeon CTB 20 located in the NESW & SENW of Section 2-T26S-R35E. Plat of the existing facility is attached. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.
B. **Buried & Surface Flowlines**. In the event the El Campeon Fed Com wells are found productive, three (3) 22in. or less buried composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) for transport of oil, gas, frac water, gas lift, fuel gas, and produced water are requested to the El Campeon CTB 20. If Permian Resources decides to run surface lines, two (2) 4in. or less composite flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) for transport of oil, gas and produced water will be required to the El Campeon Fed Com CTB 20. Total Flowline Length: 7287.11ft long by 30ft wide (5.018 acres). Any new lines will be place in existing ROW.

C. **Midstream Tie-In**. A midstream tie-in is not requested with this project. In the event that a midstream tie-in is necessary, Permian Resources Operating, LLC will file application with the appropriate authorities to construct via right-of-way.

D. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.

E. **Flare**. A flare is not requested with this project. The flare is located on the existing CTB and submitted on the subsequent facility diagram.

F. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.

G. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas.

H. **Electrical**. All Electrical is existing. All lines will be primary 12,740 volt to properly run expected production equipment.

6. **Location and Types of Water Supply**

The well will be drilled using a combination of water mud systems as outlined in the drilling program. The water will be obtained from a 3rd party vendor and hauled to the proposed location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased & supplied by a NGL and stored in the NGL North Andrews pit located in SWSW, Section 19, T-26S, R-35E.

Anticipated water usage for drilling includes an estimated 50,000 barrels (bbls) of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules. Well completion is expected to require approximately 1,950,000 bbls of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**7. Construction Activities**

1) Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
2) Anticipated Caliche Location:

NGL North Andrews Pit (Private Land) located in SWSW, Section 19, T-26S, R-35E

**8. Methods for Handling Waste**

- **Cuttings**. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids**. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.

- **Produced Fluids**. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage**. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
    i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location, and not reused at another drilling location, will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
    ii. Permian Resources Operating, LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted/promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. “Hazardous material” means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any “hazardous waste” as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
    iii. No hazardous substances or wastes will be stored on the location after completion of the well.
    iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
    v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. “Other than Major Events” will be reported in writing within 15 days.

**9. Well Site Layout**

- **Rig Plat Diagrams**: There five (5) existing multi-well pads being utilized for the El Campeon Federal Com project. The proposed and existing pads will allow enough space for cuts and fills, topsoil storage, and storm water control and sizes are approximations based on these needs. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. The well site layout for all pads is attached.
    i. El Campeon Fed Com SWNW South Pad 2: *Existing Pad, No Additional Surface Disturbance*

A. 440ft x 505ft (5.077 Acres), Including Topsoil: 50' East
B. Centerpoint: 2516'FSL & 244'FWL, Section 29-T26S-R35E
C. 3 New Wells Proposed: 111H, 121H, 151H

ii. El Campeon Fed Com SESW Pad 2: *Existing Pad, No Additional Surface Disturbance*
A. 564ft x 580ft (7.095 Acres), Including Topsoil: 30' East
B. Centerpoint: 462'FSL & 2069'FWL, Section 20-T26S-R35E
C. Adding 3 Wells to the Pad: 122H, 112H, 152H

iii. El Campeon Fed Com SWSE Pad 3: *Existing Pad, No Additional Surface Disturbance*
A. 569ft x 582ft (7.251 Acres), Including Topsoil: 30' East
B. Centerpoint: 468'FSL & 1984'FEL, Section 20-T26S-R35E
C. Adding 3 Wells to the Pad: 123H, 113H, 153H

iv. El Campeon Fed Com SESE Pad 4: *Existing Pad, No Additional Surface Disturbance*
A. 599ft x 561ft (7.321 Acres), Including Topsoil: 30' East
B. Centerpoint: 442'FSL & 671'FEL, Section 20-T26S-R35E
C. Adding 3 Wells to Pad: 124H, 114H, 154H

Existing well pads were originally approved under the following EA #DOI-BLM-NM-P020-2020-0579-EA.

- **Closed-Loop System**: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- **V-Door Orientation**: The pad was staked with a East v-door orientation in accordance to the staked section and as agreed upon with Jeff Robertson, BLM Natural Resource Specialist, present at on-site inspection.
- All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

**10. Plans for Surface Reclamation:**

Permian Resources Operating, LLC requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, Permian Resources Operating, LLC. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

*Non-Commercial Well (Not Productive), Interim & Final Reclamation:*

*Definition:* Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

*Reclamation Standards*:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants

and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State or County listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native noxious weeds will be controlled.

Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

**11. Surface Ownership**

A. 80% of the El Campeon Federal Com project area is under the administrative jurisdiction of the Bureau of Land Management. 20% of the El Campeon Federal Com project area is located on private surface.
B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

**12. Other Information**

- **Cultural Resources – Archaeology**: A Class III Cultural Resources Examination has been by Lone Mountain Archaeological Services and the results have been forwarded to the BLM Office.

- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

- **Previous EA was completed in 2025: DOI-BLM-NM P020-2025-0521-EA**

Surveying

- **Well Sites**. Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Coosa Consulting, a registered professional land surveyor. Center stake surveys with access roads have been completed on Federal lands with Jeff Robertson, Bureau of Land Management Natural Resource Specialist, in attendance.

Soils and Vegetation

- **Environmental Setting**. Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote.

- **Traffic**. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

- **Water**. There is no permanent or live water in the immediate or within the project area.

**13. Bond Coverage**

Bond Number: NMB001841

Onsite: June 6, 2024 with Jeff Robertson (BLM Natural Resource Specialist). Also in attendance were Bob Ballard (BLM Natural Resource Specialist Supervisor); Stephanie Rabadue Permian Resources Regulatory Manager; James Scott, Construction Superintendent Permian Resources; Roger Lowery, Permian Resources Surface Landman; Coosa Consulting.

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BUREAU OF LAND MANAGEMENT

# PWD Data Report
09/08/2026

**APD ID:** 10400112703 **Submission Date:** 06/24/2026

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Well Type:** OIL WELL **Well Work Type:** Drill

## Section 1 - General

**Would you like to address long-term produced water disposal?** NO

## Section 2 - Lined

**Would you like to utilize Lined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule**

**Lined pit reclamation description:**

**Lined pit reclamation**

**Leak detection system description:**

**Leak detection system**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**Lined pit Monitor description:**

**Lined pit Monitor**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information**

## Section 3 - Unlined

**Would you like to utilize Unlined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD disturbance (acres):** **PWD surface owner:**

**Other PWD Surface Owner Description:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

**Precipitated Solids Permit**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

**State**

**Unlined Produced Water Pit Estimated**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information**

## Section 4 -

**Would you like to utilize Injection PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:** **Injection well name:**

**Assigned injection well API number?** **Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection**

**Underground Injection Control (UIC) Permit?**

**UIC Permit**

## Section 5 - Surface

**Would you like to utilize Surface Discharge PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description :**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** EL CAMPEON FEDERAL COM **Well Number:** 3H

## Section 6 -

**Would you like to utilize Other PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**PWD Surface Owner Description:**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type**

**Have other regulatory requirements been met?**

**Other regulatory requirements**

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BUREAU OF LAND MANAGEMENT

# Bond Info Data
09/08/2026

**APD ID:** 10400112703
**Submission Date:** 06/24/2026
**Operator Name:** PERMIAN RESOURCES OPERATING LLC
**Well Name:** EL CAMPEON FEDERAL COM
**Well Number:** 3H
**Well Type:** OIL WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

## Bond

**Federal/Indian APD:** FED

**BLM Bond number:** NMB001841

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

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



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165 |
| | Action Number:<br>622796 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. |

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

| Operator: | OGRID: |
|---|---|
| Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | 372165 |
| | Action Number: 622796 |
| | Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| jelrod01 | Cement is required to circulate on both surface and intermediate1 strings of casing. | 9/8/2026 |
| jeffrey.harrison | If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations. | 9/18/2026 |
| jeffrey.harrison | All logs run on the well must be submitted to NMOCD. | 9/18/2026 |
| jeffrey.harrison | NSP required prior to production IF not included in an existing order OR not an infill to an appropriate defining well in the same pool and spacing unit. | 9/18/2026 |
| jeffrey.harrison | Reported spacing unit in the approved BLM permit may need to be corrected. Please review and act accordingly. | 9/18/2026 |
| jeffrey.harrison | Administrative order required for non-standard location prior to production. | 9/18/2026 |
| jeffrey.harrison | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 9/18/2026 |
| jeffrey.harrison | Notify the OCD 24 hours prior to casing & cement. | 9/18/2026 |
| jeffrey.harrison | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. | 9/18/2026 |
| jeffrey.harrison | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. | 9/18/2026 |