Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-55181 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.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 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



(Continued on page 2)

*(Instructions on page 2)

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

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

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

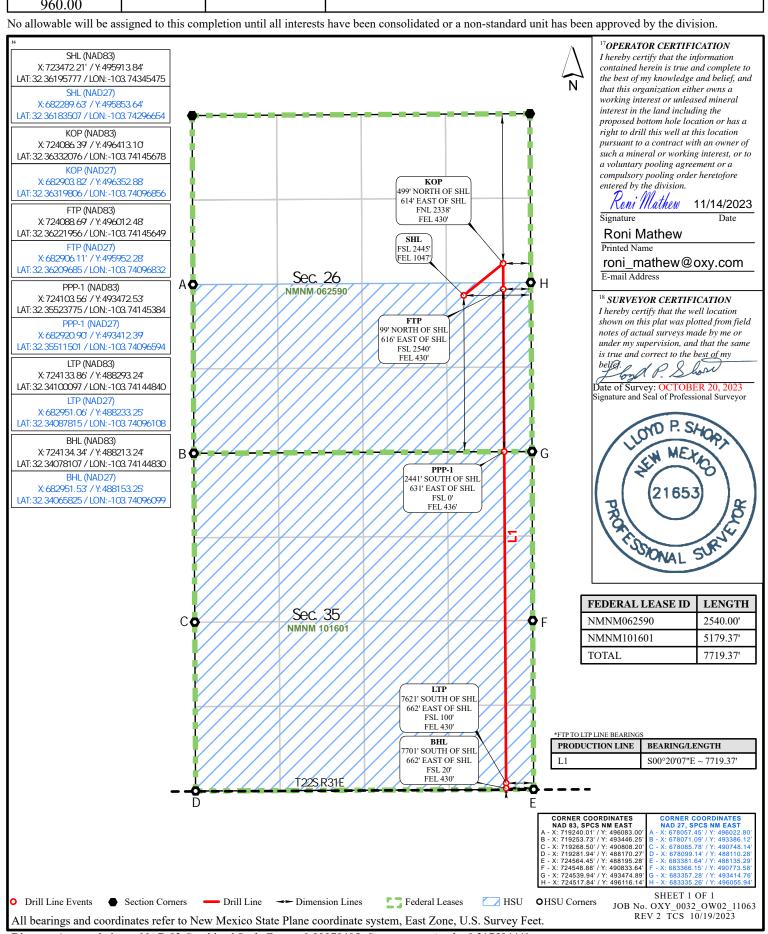
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| ¹ API Number | ² Pool Code | ³ Pool Name | |
|-----------------------------------|------------------------|---|------------------------------|
| 30-015- 55181 | 98123 | WC-015 G-08 S233102C, WOLFCAMP | |
| ⁴ Property Code 335973 | EVIL OLIVE | ^{roperty Name} 226_35 FED COM | ⁶ Well Number 37H |
| 7 OGRID No. | | perator Name | ⁹ Elevation |
| 16696 | OXY | USA INC. | 3520' |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-----------------|------------------|---------------|--------------------|-----------------|---------------|------------------|---------------|----------------|--------|
| I | 26 | 22S | 31E | | 2445' | SOUTH | 1047' | EAST | EDDY |
| | | | ¹¹ B | Bottom I | Hole Location | n If Different F | rom Surface | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| P | 35 | 22S | 31E | | 20' | SOUTH | 430' | EAST | EDDY |
| Dedicated Acres | ¹³ Jo | int or Infill | ¹⁴ Cons | solidation Code | 15 Order No. | | | | · · |



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED

WELL NAME & NO.: | EVIL OLIVE 26-35 FED COM 37H

SURFACE HOLE FOOTAGE: 2445'/S & 1047'/E BOTTOM HOLE FOOTAGE 20'/S & 430'/E

LOCATION: Section 26, T.22 S., R.31 E. COUNTY: Eddy County, New Mexico

COA

| H2S | • Yes | O No | |
|----------------------|------------------|-----------------------------|----------------|
| Potash | O None | Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | O High |
| Cave/Karst Potential | O Critical | | |
| Variance | O None | • Flex Hose | Other |
| Wellhead | Conventional | Multibowl | O Both |
| Wellhead Variance | O Diverter | | |
| Other | □4 String | ☐ Capitan Reef | □WIPP |
| Other | ☐ Fluid Filled | ☐ Pilot Hole | ☐ Open Annulus |
| Cementing | ☐ Contingency | ☐ EchoMeter | Primary Cement |
| | Cement Squeeze | | Squeeze |
| Special Requirements | ☐ Water Disposal | ☑ COM | □ Unit |
| Special Requirements | ☐ Batch Sundry | | |
| Special Requirements | Break Testing | ✓ Offline | ✓ Casing |
| Variance | | Cementing | Clearance |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

NOTE: EVIL OLIVE 26-35 FED COM WELLS INCLUDING THE ONE LISTED ABOVE ARE IN THE SECRETARY POTASH AREA, BUT IS WITHIN CLOSE PROXIMITY TO THE KPLA POTASH AREA REGULATED UNDER R-111-P. THE PROPOSED DIRECTIONAL PLANS AND WELLBORE TRAJECTORY INDICATES THAT THE BOUNDARY WILL NOT BE CROSSED (OPERATOR HAS PROPOSED MINIMAL DIRECTIONAL DEVIATION UNTILL PAST THE

SALT INTERVAL.) IN THE EVENT THAT THE DIRECTIONAL SURVEYS ADJUSTED FOR THE ERRORS INDICATE THAT THE KPLA BOUNDARY IS CROSSED (IF ANY PORTION OF THE ELLIPSE CROSSES THE BOUNDARY) PRIOR TO REACHING BASE OF SALT, OPERATOR SHALL NOTIFY THE BLM AND EXECUTE THE CONTINGENCY DESIGN COVERING THE SALT INTERVAL.

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 905 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 24 hours in the Potash Area or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at approximately **11,028**. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon

b. Second stage:

 Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The **5-1/2** inch production casing shall be set at approximately **19,889**. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

Cement should tie-back at least 500 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Contingency 4S Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 905 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of 24 hours in the Potash Area or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 10-3/4 inch intermediate casing(salt string) shall be set at approximately 4,543. If this casing is set due to the trajectory in the salt interval crossing the KPLA boundary, the setpoint will be 100' below base of salt and above any hydrocarbon bearing formation. The minimum required fill of cement behind the 10-3/4 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The **7.827** inch intermediate casing shall be set at approximately **11,028**. The minimum required fill of cement behind the 7.827 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7.827" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7.827" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

4. The **5-1/2** inch production liner shall be set at approximately **19,889**. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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 Onshore Order 1 and 43 CFR part 3170 Subpart 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.

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

BOPE Break Testing Variance

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

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Eddy County: 575-361-2822.

Casing Clearance:

- Overlap clearance OK in design A
- Casing clearance variance in place for liner overlap in design B. Clearance only not met at connections. Successfully pressure tested liner top will serve as zonal isolation barrier. CBL required if pool top is across liner interval.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

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- 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)
 - If well located in Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - If well located in Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

KPI 5/16/2024

PRD NM DIRECTIONAL PLANS (NAD 1983) EVIL OLIVE EVIL OLIVE 26_35 FED COM 37H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

26 September, 2023

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: North American Datum 1983

New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

59.95

47,594.00000000

Site EVIL OLIVE

 Site Position:
 Northing:
 495,913.90 usft
 Latitude:
 32.361958

 From:
 Map
 Easting:
 723,502.18 usft
 Longitude:
 -103.743358

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well EVIL OLIVE 26_35 FED COM 37H

Well Position +N/-S 0.00 ft Northing: 495.913.84 usf Latitude: 32.361958 +E/-W 0.00 ft Easting: 723,472.21 usf Longitude: -103.743455 **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,520.00 ft

Grid Convergence: 0.32 $^{\circ}$

Wellbore #1

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

6.40

Design Permitting Plan Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 175.09

Plan Survey Tool Program Date 9/26/2023

Depth From Depth To

HDGM FILE

epth From Depth To
(ft) (ft) Survey (Wellbore) Tool Name Remarks

9/26/2023

0.00 19,889.03 Permitting Plan (Wellbore #1) B005Mc_MWD+HRGM+SA

ISCWSA MWD + HRGM +

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,485.00 | 0.00 | 0.00 | 4,485.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,285.15 | 8.00 | 39.77 | 5,282.56 | 42.87 | 35.69 | 1.00 | 1.00 | 0.00 | 39.77 | |
| 11,128.11 | 8.00 | 39.77 | 11,068.63 | 668.00 | 556.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,089.23 | 90.00 | 179.66 | 11,700.00 | 98.65 | 616.51 | 10.00 | 8.53 | 14.56 | 139.62 | FTP (Evil Olive |
| 19,889.03 | 90.00 | 179.66 | 11,700.00 | -7,701.02 | 662.17 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL (Evil Olive |

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

Grid

| esign: | Permitting Pia | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|--|
| lanned Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | | | | | | | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | , | | | | | | | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| • | | | | | | | | | | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,800.00 | 0.00 | 0.00 | 2,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 500 00 | 0.00 | 0.00 | 3 500 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,600.00 | 0.00 | 0.00 | 3,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,700.00 | 0.00 | 0.00 | 3,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,800.00 | 0.00 | 0.00 | 3,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,900.00 | 0.00 | 0.00 | 3,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,000.00 | 0.00 | 0.00 | 4,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,100.00 | 0.00 | 0.00 | 4,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,200.00 | 0.00 | 0.00 | 4,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,300.00 | 0.00 | 0.00 | 4,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,400.00 | 0.00 | 0.00 | 4,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | | | | | | | |
| 4,485.00 | 0.00 | 0.00 | 4,485.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,500.00 | 0.15 | 39.77 | 4,500.00 | 0.02 | 0.01 | -0.01 | 1.00 | 1.00 | 0.00 | |
| 4,600.00 | 1.15 | 39.77 | 4,599.99 | 0.89 | 0.74 | -0.82 | 1.00 | 1.00 | 0.00 | |
| 4,700.00 | 2.15 | 39.77 | 4,699.95 | 3.10 | 2.58 | -2.87 | 1.00 | 1.00 | 0.00 | |
| 4,800.00 | 3.15 | 39.77 | 4,799.84 | 6.65 | 5.54 | -6.15 | 1.00 | 1.00 | 0.00 | |
| 4,900.00 | A 15 | 20.77 | 4.899.64 | 11 55 | 0.61 | 10.60 | 1.00 | 1.00 | 0.00 | |
| | 4.15 5.15 | 39.77 | , | 11.55 | 9.61 | -10.68 | 1.00 | 1.00 | | |
| 5,000.00 | 5.15 | 39.77 | 4,999.31 | 17.78 | 14.80 | -16.44 | 1.00 | 1.00 | 0.00 | |
| 5,100.00 | 6.15 | 39.77 | 5,098.82 | 25.34 | 21.10 | -23.44 | 1.00 | 1.00 | 0.00 | |
| 5,200.00 5,285.15 | 7.15 | 39.77 | 5,198.15 | 34.24 | 28.50 | -31.68 | 1.00 | 1.00 | 0.00 | |
| 5 7X5 15 | 8.00 | 39.77 | 5,282.56 | 42.87 | 35.69 | -39.66 | 1.00 | 1.00 | 0.00 | |

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

Grid

| venbore. Design: | Permitting Pla | an | | | | | | | |
|---------------------------|-----------------|----------------|---------------------------|------------------|------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,300.00 | 8.00 | 39.77 | 5,297.26 | 44.46 | 37.01 | -41.13 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 8.00 | 39.77 | 5,396.28 | 55.16 | 45.91 | -51.02 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 8.00 | 39.77 | 5,495.31 | 65.86 | 54.82 | -60.92 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 8.00 | 39.77 | 5,594.34 | 76.56 | 63.72 | -70.82 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 8.00 | 39.77 | 5,693.36 | 87.26 | 72.63 | -80.71 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 8.00 | 39.77 | 5,792.39 | 97.96 | 81.53 | -90.61 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 8.00 | 39.77 | 5,891.42 | 108.65 | 90.44 | -100.51 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 8.00 | 39.77 | 5,990.44 | 119.35 | 99.34 | -110.40 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 8.00 | 39.77 | 6,089.47 | 130.05 | 108.25 | -120.30 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 8.00 | 39.77 | 6,188.50 | 140.75 | 117.15 | -130.20 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 8.00 | 39.77 | 6,287.52 | 151.45 | 126.06 | -140.09 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 8.00 | 39.77 | 6,386.55 | 162.15 | 134.96 | -149.99 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 8.00 | 39.77 | 6,485.57 | 172.85 | 143.87 | -159.89 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 8.00 | 39.77 | 6,584.60 | 183.55 | 152.77 | -169.78 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 8.00 | 39.77 | 6,683.63 | 194.25 | 161.68 | -179.68 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 8.00 | 39.77 | 6,782.65 | 204.94 | 170.58 | -189.58 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 8.00 | 39.77 | 6,881.68 | 215.64 | 179.49 | -199.47 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 8.00 | 39.77 | 6,980.71 | 226.34 | 188.39 | -209.37 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 8.00 | 39.77 | 7,079.73 | 237.04 | 197.30 | -219.27 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 8.00 | 39.77 | 7,178.76 | 247.74 | 206.20 | -229.16 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 8.00 | 39.77 | 7,277.79 | 258.44 | 215.11 | -239.06 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 8.00 | 39.77 | 7,376.81 | 269.14 | 224.01 | -248.96 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 8.00 | 39.77 | 7,475.84 | 279.84 | 232.92 | -258.85 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 8.00 | 39.77 | 7,574.87 | 290.54 | 241.82 | -268.75 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 8.00 | 39.77 | 7,673.89 | 301.23 | 250.73 | -278.65 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 8.00 | 39.77 | 7,772.92 | 311.93 | 259.63 | -288.54 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 8.00 | 39.77 | 7,871.94 | 322.63 | 268.54 | -298.44 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 8.00 | 39.77 | 7,970.97 | 333.33 | 277.44 | -308.34 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 8.00 | 39.77 | 8,070.00 | 344.03 | 286.35 | -318.23 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 8.00 | 39.77 | 8,169.02 | 354.73 | 295.25 | -328.13 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 8.00 | 39.77 | 8,268.05 | 365.43 | 304.16 | -338.03 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 8.00 | 39.77 | 8,367.08 | 376.13 | 313.06 | -347.92 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 8.00 | 39.77 | 8,466.10 | 386.82 | 321.97 | -357.82 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 8.00 | 39.77 | 8,565.13 | 397.52 | 330.87 | -367.72 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 8.00 | 39.77 | 8,664.16 | 408.22 | 339.78 | -377.61 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 8.00 | 39.77 | 8,763.18 | 418.92 | 348.68 | -387.51 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 8.00 | 39.77 | 8,862.21 | 429.62 | 357.59 | -397.41 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 8.00 | 39.77 | 8,961.24 | 440.32 | 366.50 | -407.30 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 8.00 | 39.77 | 9,060.26 | 451.02 | 375.40 | -417.20 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 8.00 | 39.77 | 9,159.29 | 461.72 | 384.31 | -427.10 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 8.00 | 39.77 | 9,258.31 | 472.42 | 393.21 | -436.99 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 8.00 | 39.77 39.77 | 9,258.31 | 472.42 483.11 | 393.21 402.12 | -436.99 -446.89 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 8.00 | 39.77 39.77 | 9,357.34 9,456.37 | 493.81 | 402.12 411.02 | -446.89 -456.79 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 8.00 | 39.77 | 9,555.39 | 504.51 | 419.93 | -456.79 -466.68 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 8.00 | 39.77 | 9,654.42 | 515.21 | 428.83 | -476.58 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 9,800.00 | 8.00 | 39.77 | 9,753.45 | 525.91 536.61 | 437.74 | -486.48 406.37 | 0.00 | 0.00 | 0.00 |
| 9,900.00 10,000.00 | 8.00 8.00 | 39.77 39.77 | 9,852.47 9,951.50 | 536.61 547.31 | 446.64 455.55 | -496.37 -506.27 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 10,000.00 | 8.00 | 39.77 | 10,050.53 | 558.01 | 464.45 | -506.27 -516.17 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 8.00 | 39.77 | 10,030.55 | 568.71 | 473.36 | -526.06 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 10,300.00 | 8.00 | 39.77 | 10,248.58 | 579.40 | 482.26 | -535.96 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 8.00 | 39.77 | 10,347.61 | 590.10 | 491.17 | -545.86 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 8.00 | 39.77 | 10,446.63 | 600.80 | 500.07 | -555.75 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 8.00 | 39.77 39.77 | 10,545.66 | 611.50 622.20 | 508.98 517.88 | -565.65 575.55 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 8.00 | 39.77 | 10,644.68 | 622.20 | 517.88 | -575.55 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: Company: Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: **EVIL OLIVE**

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

| Design: | Permitting Pla | an | | | | | | | |
|---------------------------|--------------------|------------------|---------------------------|------------------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,800.00 | 8.00 | 39.77 | 10,743.71 | 632.90 | 526.79 | -585.44 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 8.00 | 39.77 | 10,842.74 | 643.60 | 535.69 | -595.34 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 8.00 | 39.77 | 10,941.76 | 654.30 | 544.60 | -605.24 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 8.00 | 39.77 | 11,040.79 | 665.00 | 553.50 | -615.13 | 0.00 | 0.00 | 0.00 |
| 11,128.11 | 8.00 | 39.77 | 11,068.63 | 668.00 | 556.00 | -617.91 | 0.00 | 0.00 | 0.00 |
| 11,150.00 | 6.49 | 52.42 | 11,090.34 | 669.93 | 557.96 | -619.67 | 10.00 | -6.91 | 57.78 |
| | 5.29 | | | | | | | | |
| 11,200.00 | | 101.44 | 11,140.11 | 671.20 | 562.46 | -620.54 | 10.00 | -2.41 | 98.05 |
| 11,250.00 | 7.98 | 139.40 | 11,189.79 | 668.10 | 566.98 | -617.07 | 10.00 | 5.38 | 75.91 |
| 11,300.00 | 12.21 | 154.93 | 11,239.01 | 660.67 | 571.48 | -609.29 | 10.00 | 8.47 | 31.07 |
| 11,350.00 | 16.87 | 162.29 | 11,287.40 | 648.97 | 575.93 | -597.24 | 10.00 | 9.31 | 14.71 |
| 11,400.00 | 21.68 | 166.49 | 11,334.59 | 633.07 | 580.29 | -581.03 | 10.00 | 9.61 | 8.41 |
| 11,450.00 | 26.55 | 169.22 | 11,380.22 | 613.10 | 584.54 | -560.77 | 10.00 | 9.75 | 5.46 |
| 11,500.00 | 31.46 | 171.15 | 11,423.93 | 589.21 | 588.64 | -536.62 | 10.00 | 9.82 | 3.86 |
| 11,550.00 | 36.40 | 172.61 | 11,465.41 | 561.59 | 592.56 | -508.76 | 10.00 | 9.87 | 2.91 |
| 11,600.00 | 41.34 | 173.76 | 11,504.32 | 530.44 | 596.27 | -477.41 | 10.00 | 9.90 | 2.30 |
| | | | | | | | | | |
| 11,650.00 | 46.30 | 174.70 | 11,540.38 | 496.01 | 599.73 | -442.80 | 10.00 | 9.91 | 1.89 |
| 11,700.00 | 51.27 | 175.50 | 11,573.32 | 458.54 | 602.94 | -405.21 | 10.00 | 9.93 | 1.60 |
| 11,750.00 | 56.23 | 176.19 | 11,602.88 | 418.34 | 605.85 | -364.90 | 10.00 | 9.94 | 1.39 |
| 11,800.00 | 61.21 | 176.81 | 11,628.83 | 375.70 | 608.45 | -322.19 | 10.00 | 9.94 | 1.24 |
| 11,850.00 | 66.18 | 177.37 | 11,650.98 | 330.95 | 610.72 | -277.41 | 10.00 | 9.95 | 1.12 |
| 11,900.00 | 71.16 | 177.89 | 11,669.16 | 284.43 | 612.63 | -230.90 | 10.00 | 9.95 | 1.04 |
| 11,950.00 | 76.14 | 178.38 | 11,683.24 | 236.49 | 614.19 | -183.01 | 10.00 | 9.96 | 0.98 |
| 12,000.00 | 81.11 | 178.85 | 11,693.10 | 187.51 | 615.37 | -134.10 | 10.00 | 9.96 | 0.94 |
| | | | | | | | | | |
| 12,050.00 | 86.09 | 179.31 | 11,698.66 | 137.84 | 616.16 | -84.55 | 10.00 | 9.96 | 0.91 |
| 12,089.23 | 90.00 | 179.66 | 11,700.00 | 98.65 | 616.51 | -45.47 | 10.00 | 9.96 | 0.90 |
| 12,100.00 | 90.00 | 179.66 | 11,700.00 | 87.87 | 616.58 | -34.73 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 179.66 | 11,700.00 | -12.13 | 617.16 | 64.95 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 179.66 | 11,700.00 | -112.13 | 617.75 | 164.63 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 179.66 | 11,700.00 | -212.12 | 618.33 | 264.32 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 179.66 | 11,700.00 | -312.12 | 618.92 | 364.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 12,600.00 | 90.00 | 179.66 | 11,700.00 | -412.12 | 619.50 | 463.68 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 179.66 | 11,700.00 | -512.12 | 620.09 | 563.36 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 179.66 | 11,700.00 | -612.12 | 620.67 | 663.04 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 179.66 | 11,700.00 | -712.12 | 621.26 | 762.72 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 179.66 | 11,700.00 | -812.11 | 621.84 | 862.40 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 179.66 | 11,700.00 | -912.11 | 622.43 | 962.08 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 179.66 | 11,700.00 | -1,012.11 | 623.02 | 1,061.76 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 179.66 | 11,700.00 | -1,112.11 | 623.60 | 1,161.44 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 179.66 | 11,700.00 | -1,212.11 | 624.19 | 1,261.12 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 179.66 | 11,700.00 | -1,212.11 | 624.77 | 1,360.80 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 13,600.00 | 90.00 | 179.66 | 11,700.00 | -1,412.10 | 625.36 | 1,460.49 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 179.66 | 11,700.00 | -1,512.10 | 625.94 | 1,560.17 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 179.66 | 11,700.00 | -1,612.10 | 626.53 | 1,659.85 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 179.66 | 11,700.00 | -1,712.10 | 627.11 | 1,759.53 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 179.66 | 11,700.00 | -1,812.10 | 627.70 | 1,859.21 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 179.66 | 11,700.00 | -1,912.10 | 628.28 | 1,958.89 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 179.66 | 11,700.00 | -2,012.09 | 628.87 | 2,058.57 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 179.66 | 11,700.00 | -2,012.09 -2,112.09 | 629.45 | 2,058.57 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 14,400.00 | 90.00 | 179.66 179.66 | 11,700.00 | -2,212.09 2,312.00 | 630.04 | 2,257.93 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 179.66 | 11,700.00 | -2,312.09 | 630.62 | 2,357.61 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 179.66 | 11,700.00 | -2,412.09 | 631.21 | 2,457.29 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 179.66 | 11,700.00 | -2,512.08 | 631.79 | 2,556.97 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 179.66 | 11,700.00 | -2,612.08 | 632.38 | 2,656.66 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 179.66 | 11,700.00 | -2,712.08 | 632.97 | 2,756.34 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 179.66 | 11,700.00 | -2,812.08 | 633.55 | 2,856.02 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 30.00 | 170.00 | 11,700.00 | 2,012.00 | | 2,000.02 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

Grid

| Design: | Permitting Pia | 411 | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 15,100.00 | 90.00 | 179.66 | 11,700.00 | -2,912.08 | 634.14 | 2,955.70 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 179.66 | 11,700.00 | -3,012.08 | 634.72 | 3,055.38 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 179.66 | 11,700.00 | -3,112.07 | 635.31 | 3,155.06 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 179.66 | 11,700.00 | -3,212.07 | 635.89 | 3,254.74 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 179.66 | 11,700.00 | -3,312.07 | 636.48 | 3,354.42 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 179.66 | 11,700.00 | -3,412.07 | 637.06 | 3,454.10 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 179.66 | 11,700.00 | -3,512.07 | 637.65 | 3,553.78 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 179.66 | 11,700.00 | -3,612.07 | 638.23 | 3,653.46 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 179.66 | 11,700.00 | -3,712.06 | 638.82 | 3,753.14 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 179.66 | 11,700.00 | -3,812.06 | 639.40 | 3,852.82 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 179.66 | 11,700.00 | -3,912.06 | 639.99 | 3,952.51 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 179.66 | 11,700.00 | -4,012.06 | 640.57 | 4,052.19 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 179.66 | 11,700.00 | -4,112.06 | 641.16 | 4,151.87 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 179.66 | 11,700.00 | -4,212.06 | 641.74 | 4,251.55 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 179.66 | 11,700.00 | -4,312.05 | 642.33 | 4,351.23 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 179.66 | 11,700.00 | -4,412.05 | 642.92 | 4,450.91 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 179.66 | 11,700.00 | -4,512.05 | 643.50 | 4,550.59 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.00 | 179.66 | 11,700.00 | -4,612.05 | 644.09 | 4,650.27 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.00 | 179.66 | 11,700.00 | -4,712.05 | 644.67 | 4,749.95 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 90.00 | 179.66 | 11,700.00 | -4,812.05 | 645.26 | 4,849.63 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 90.00 | 179.66 | 11,700.00 | -4,912.04 | 645.84 | 4,949.31 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 90.00 | 179.66 | 11,700.00 | -5,012.04 | 646.43 | 5,048.99 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 90.00 | 179.66 | 11,700.00 | -5,112.04 | 647.01 | 5,148.68 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 90.00 | 179.66 | 11,700.00 | -5,212.04 | 647.60 | 5,248.36 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 90.00 | 179.66 | 11,700.00 | -5,312.04 | 648.18 | 5,348.04 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 90.00 | 179.66 | 11,700.00 | -5,412.04 | 648.77 | 5,447.72 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 90.00 | 179.66 | 11,700.00 | -5,512.03 | 649.35 | 5,547.40 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 90.00 | 179.66 | 11,700.00 | -5,612.03 | 649.94 | 5,647.08 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 90.00 | 179.66 | 11,700.00 | -5,712.03 | 650.52 | 5,746.76 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 90.00 | 179.66 | 11,700.00 | -5,812.03 | 651.11 | 5,846.44 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 90.00 | 179.66 | 11,700.00 | -5,912.03 | 651.70 | 5,946.12 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 90.00 | 179.66 | 11,700.00 | -6,012.02 | 652.28 | 6,045.80 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 90.00 | 179.66 | 11,700.00 | -6,112.02 | 652.87 | 6,145.48 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 90.00 | 179.66 | 11,700.00 | -6,212.02 | 653.45 | 6,245.16 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 90.00 | 179.66 | 11,700.00 | -6,312.02 | 654.04 | 6,344.85 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 90.00 | 179.66 | 11,700.00 | -6,412.02 | 654.62 | 6,444.53 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 90.00 | 179.66 | 11,700.00 | -6,512.02 | 655.21 | 6,544.21 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 90.00 | 179.66 | 11,700.00 | -6,612.01 | 655.79 | 6,643.89 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 90.00 | 179.66 | 11,700.00 | -6,712.01 | 656.38 | 6,743.57 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 90.00 | 179.66 | 11,700.00 | -6,812.01 | 656.96 | 6,843.25 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 90.00 | 179.66 | 11,700.00 | -6,912.01 | 657.55 | 6,942.93 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 90.00 | 179.66 | 11,700.00 | -7,012.01 | 658.13 | 7,042.61 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 90.00 | 179.66 | 11,700.00 | -7,112.01 | 658.72 | 7,142.29 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 90.00 | 179.66 | 11,700.00 | -7,212.00 | 659.30 | 7,241.97 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 90.00 | 179.66 | 11,700.00 | -7,312.00 | 659.89 | 7,341.65 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 90.00 | 179.66 | 11,700.00 | -7,412.00 | 660.47 | 7,441.33 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 90.00 | 179.66 | 11,700.00 | -7,512.00 | 661.06 | 7,541.01 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 90.00 | 179.66 | 11,700.00 | -7,612.00 | 661.65 | 7,640.70 | 0.00 | 0.00 | 0.00 |
| 19,889.03 | 90.00 | 179.66 | 11,700.00 | -7,701.02 | 662.17 | 7,729.44 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well EVIL OLIVE 26_35 FED COM 37H

25' RKB @ 3545.00ft 25' RKB @ 3545.00ft

Grid

| Design Targets | | | | | | | | | |
|--|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL (Evil Olive - plan hits target cer - Point | 0.00 nter | 0.00 | 11,700.00 | -7,701.02 | 662.17 | 488,213.24 | 724,134.34 | 32.340781 | -103.741449 |
| FTP (Evil Olive 26_35 - plan hits target cer - Point | 0.00 nter | 0.00 | 11,700.00 | 98.65 | 616.51 | 496,012.48 | 724,088.69 | 32.362220 | -103.741457 |

| Formations | | | | | | |
|------------|---------------------------|---------------------------|-----------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 845.00 | 845.00 | RUSTLER | | | |
| | 1,129.00 | 1,129.00 | SALADO | | | |
| | 3,025.00 | 3,025.00 | CASTILE | | | |
| | 4,443.00 | 4,443.00 | DELAWARE | | | |
| | 4,491.00 | 4,491.00 | BELL CANYON | | | |
| | 5,338.11 | 5,335.00 | CHERRY CANYON | | | |
| | 6,584.25 | 6,569.00 | BRUSHY CANYON | | | |
| | 8,392.85 | 8,360.00 | BONE SPRING | | | |
| | 9,532.95 | 9,489.00 | BONE SPRING 1ST | | | |
| | 10,094.42 | 10,045.00 | BONE SPRING 2ND | | | |
| | 11,212.95 | 11,153.00 | BONE SPRING 3RD | | | |
| | 11,804.54 | 11,631.00 | WOLFCAMP | | | |
| | 11,828.65 | 11,642.00 | WOLFCAMP | | | |

| Plan Annotations | | | | | | |
|---------------------|--|---|---|---|---|--|
| Meas | ured | Vertical | Local Coor | dinates | | |
| Dej (f | | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment | |
| 5,2 11,1 12,0 | 485.00 285.15 128.11 089.23 389.03 | 4,485.00 5,282.55 11,068.63 11,700.00 11,700.00 | 0.00 42.87 668.00 98.64 -7,701.02 | 0.00 35.68 556.01 616.51 662.17 | Build 1°/100' Hold 8° Tangent KOP, Build & Turn 10°/100' Landing Point TD at 19889.03' MD | |



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: EVIL OLIVE

Well: EVIL OLIVE 26_35 FED COM 37H

Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

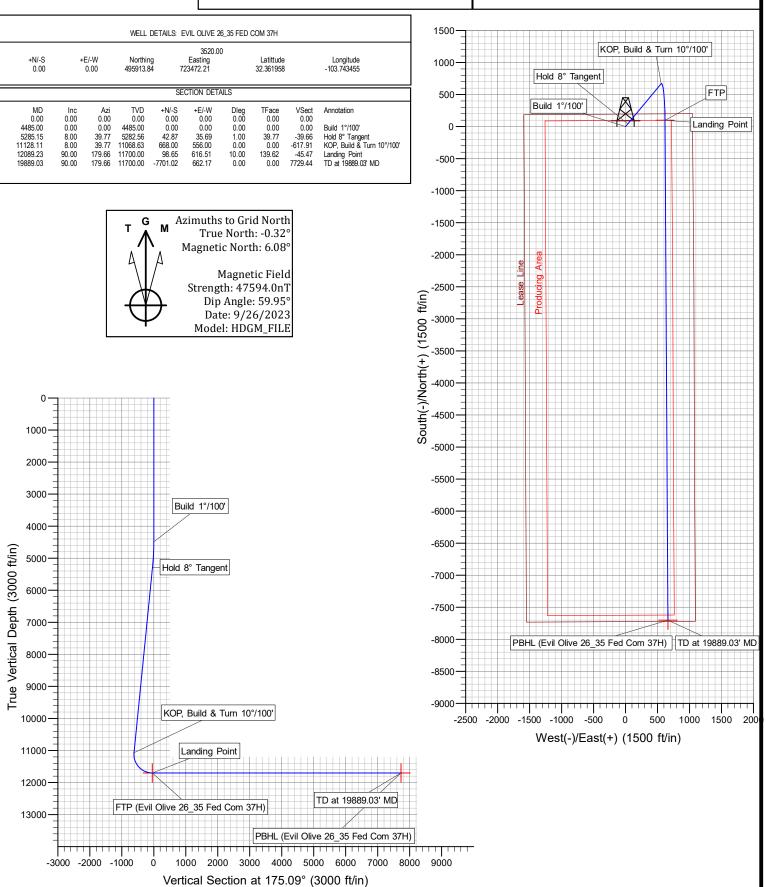
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



Oxy USA Inc. - EVIL OLIVE 26_35 FED COM 37H Drill Plan

1. Geologic Formations

| TVD of Target (ft): | 11700 | Pilot Hole Depth (ft): | |
|----------------------------|-------|------------------------------------|-----|
| Total Measured Depth (ft): | 19889 | Deepest Expected Fresh Water (ft): | 845 |

Delaware Basin

| Formation | MD-RKB (ft) | TVD-RKB (ft) | Expected Fluids |
|-----------------|-------------|--------------|------------------------|
| Rustler | 845 | 845 | |
| Salado | 1129 | 1129 | Salt |
| Castile | 3025 | 3025 | Salt |
| Delaware | 4443 | 4443 | Oil/Gas/Brine |
| Bell Canyon | 4491 | 4491 | Oil/Gas/Brine |
| Cherry Canyon | 5338 | 5335 | Oil/Gas/Brine |
| Brushy Canyon | 6584 | 6569 | Losses |
| Bone Spring | 8393 | 8360 | Oil/Gas |
| Bone Spring 1st | 9533 | 9489 | Oil/Gas |
| Bone Spring 2nd | 10094 | 10045 | Oil/Gas |
| Bone Spring 3rd | 11213 | 11153 | Oil/Gas |
| Wolfcamp | 11829 | 11642 | Oil/Gas |
| Penn | | | Oil/Gas |
| Strawn | | | Oil/Gas |

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

2. Casing Program

| | N | ID | T۱ | /D | | | | | |
|--------------|-----------|------|-------|------|-------|---------|---------|---------|-----------|
| | Hole | From | То | From | То | Csg. | Csg Wt. | | |
| Section | Size (in) | (ft) | (ft) | (ft) | (ft) | OD (in) | (ppf) | Grade | Conn. |
| Surface | 17.5 | 0 | 905 | 0 | 905 | 13.375 | 54.5 | J-55 | ВТС |
| Intermediate | 12.25 | 0 | 11028 | 0 | 10969 | 7.625 | 26.4 | L-80 HC | втс |
| Production | 6.75 | 0 | 19889 | 0 | 11700 | 5.5 | 20 | P-110 | Wedge 461 |

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

*Oxy requests the option to run the 10.75" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" / 7.827" Casing the Intermediate II.

**If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate I at 1st trip point below Brushy top (estimated top in formation table above). Cement volumes will be updated on C103 submission.

| All Casing SF Values will meet or exceed | | | | |
|--|-------|---------|----------|--|
| those below | | | | |
| SF | SF | Body SF | Joint SF | |
| Collapse | Burst | Tension | Tension | |
| 1.00 | 1.100 | 1.4 | 1.4 | |

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

| | Y or N |
|---|--------|
| Is casing new? If used, attach certification as required in 43 CFR 3160 | Y |
| Does casing meet API specifications? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | Y |
| Does the above casing design meet or exceed BLM's minimum standards? | Y |
| If not provide justification (loading assumptions, casing design criteria). | 1 |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching | Y |
| the collapse pressure rating of the casing? | 1 |
| | |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| | |
| Is well located in SOPA but not in R-111-P? | Y |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back | Y |
| 500' into previous casing? | Y |
| | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

3. Cementing Program

| Section | Stage | Slurry: | Sacks | Yield (ft^3/ft) | Density (lb/gal) | Excess: | тос | Placement | Description |
|---------|-------|---------------------------|-------|--------------------|---------------------|---------|--------|------------|-------------------------------|
| Surface | 1 | Surface - Tail | 945 | 1.33 | 14.8 | 100% | - | Circulate | Class C+Accel. |
| Int. | 1 | Intermediate 1S - Tail | 1338 | 1.65 | 13.2 | 5% | 6,834 | Circulate | Class H+Accel., Disper., Salt |
| Int. | 2 | Intermediate 2S - Tail BH | 2464 | 1.71 | 13.3 | 25% | - | Bradenhead | Class C+Accel. |
| Prod. | 1 | Production - Tail | 707 | 1.38 | 13.2 | 25% | 10,528 | Circulate | Class H+Ret., Disper., Salt |

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | | Туре | 1 | Tested to: | Deepest TVD Depth (ft) per Section: |
|--|---------|------------------------|------------|------------|----------|--------------------------|---|
| | | 5M | | Annular | ✓ | 70% of working pressure | |
| 12.25" Hole | 13-5/8" | | | Blind Ram | ✓ | | |
| | | 5M | Pipe Ram | | | 250 psi / 5000 psi | 10969 |
| | | SIVI | Double Ram | | ✓ | 230 psi / 3000 psi | |
| | | | Other* | | | | |
| | | 5M | | Annular | ✓ | 100% of working pressure | |
| | 13-5/8" | | | Blind Ram | | | 11700 |
| 6.75" Hole | | 10M | | Pipe Ram | | 250 psi / 10000 psi | |
| | | | | Double Ram | ✓ | 230 psi / 10000 psi | |
| | | | Other* | | | | |

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

^{*}Specify if additional ram is utilized

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

| Castian | Depth - MD | | Depth - TVD | | Toma | Weight | Viceeity | Water |
|--------------|------------|---------|-------------|---------|---|------------|-----------|-------|
| Section | From (ft) | To (ft) | From (ft) | To (ft) | Туре | (ppg) | Viscosity | Loss |
| Surface | 0 | 905 | 0 | 905 | Water-Based Mud | 8.6 - 8.8 | 40-60 | N/C |
| Intermediate | 905 | 11028 | 905 | 10969 | Saturated Brine-Based or Oil-Based Mud | 8.0 - 10.0 | 35-45 | N/C |
| Production | 11028 | 19889 | 10969 | 11700 | Water-Based or Oil- Based Mud | 9.5 - 12.5 | 38-50 | N/C |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

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

6. Logging and Testing Procedures

| Loggi | Logging, Coring and Testing. | | | | |
|-------|--|--|--|--|--|
| Yes | Will run GR from TD to surface (horizontal well – vertical portion of hole). | | | | |
| 1 68 | Stated logs run will be in the Completion Report and submitted to the BLM. | | | | |
| No | Logs are planned based on well control or offset log information. | | | | |
| No | Drill stem test? If yes, explain | | | | |
| No | Coring? If yes, explain | | | | |

| Addit | ional logs planned | Interval |
|-------|--------------------|-------------------|
| No | Resistivity | |
| No | Density | |
| Yes | CBL | Production string |
| Yes | Mud log | Bone Spring – TD |
| No | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|-------------------------------|------------------------------|
| BH Pressure at deepest TVD | 7605 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 174°F |

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

| tile blivi. | | | |
|-------------|-------------------|--|--|
| Ν | H2S is present | | |
| Υ | H2S Plan attached | | |

8. Other facets of operation

| | Yes/No |
|---|--------|
| Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well. | Yes |
| Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. | Yes |

Total Estimated Cuttings Volume: 2138 bbls

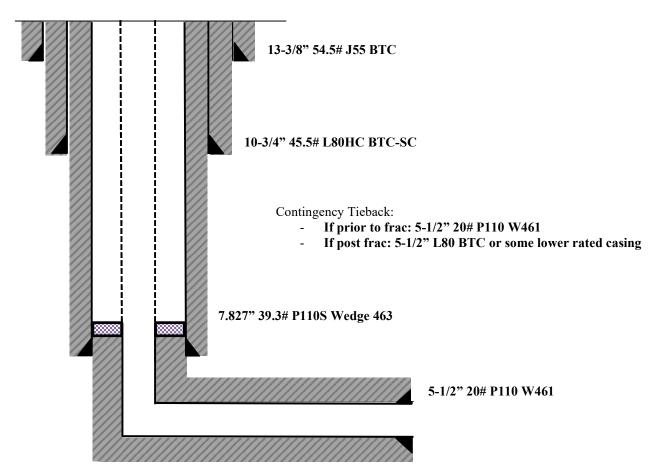
OXY USA WTP LP

4S Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 17-1/2" hole x 13-3/8" casing for surface section. Cement to surface.
- Drill 12-1/4" hole x 10-3/4" casing for intermediate #1 section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate #2 section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 200' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - Return well to production.

General well schematic:



Oxy USA Inc. - EVIL OLIVE 26_35 FED COM 37H Drill Plan

1. Geologic Formations

| TVD of Target (ft): | 11700 | Pilot Hole Depth (ft): | |
|----------------------------|-------|------------------------------------|-----|
| Total Measured Depth (ft): | 19889 | Deepest Expected Fresh Water (ft): | 845 |

Delaware Basin

| Formation | MD-RKB (ft) | TVD-RKB (ft) | Expected Fluids |
|-----------------|-------------|--------------|------------------------|
| Rustler | 845 | 845 | |
| Salado | 1129 | 1129 | Salt |
| Castile | 3025 | 3025 | Salt |
| Delaware | 4443 | 4443 | Oil/Gas/Brine |
| Bell Canyon | 4491 | 4491 | Oil/Gas/Brine |
| Cherry Canyon | 5338 | 5335 | Oil/Gas/Brine |
| Brushy Canyon | 6584 | 6569 | Losses |
| Bone Spring | 8393 | 8360 | Oil/Gas |
| Bone Spring 1st | 9533 | 9489 | Oil/Gas |
| Bone Spring 2nd | 10094 | 10045 | Oil/Gas |
| Bone Spring 3rd | 11213 | 11153 | Oil/Gas |
| Wolfcamp | 11829 | 11642 | Oil/Gas |
| Penn | | | Oil/Gas |
| Strawn | | | Oil/Gas |

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

2. Casing Program

| | N | ID | T\ | /D | | | | | |
|--------------|-----------|-------|-------|-------|-------|---------|---------|---------|-----------|
| | Hole | From | То | From | То | Csg. | Csg Wt. | | |
| Section | Size (in) | (ft) | (ft) | (ft) | (ft) | OD (in) | (ppf) | Grade | Conn. |
| Surface | 17.5 | 0 | 905 | 0 | 905 | 13.375 | 54.5 | J-55 | BTC |
| Salt | 12.25 | 0 | 4543 | 0 | 4543 | 10.75 | 45.5 | L-80 HC | BTC-SC |
| Intermediate | 9.875 | 0 | 11028 | 0 | 10969 | 7.827 | 39.3 | P110S | Wedge 463 |
| Production | 6.75 | 10828 | 19889 | 10769 | 11700 | 5.5 | 20 | P-110 | Wedge 461 |

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

| All Casing SF Values will meet or exceed | | | | | | |
|--|-------|---------|----------|--|--|--|
| those below | | | | | | |
| SF | SF | Body SE | Joint SF | | | |
| ٥. | 31 | Dody 31 | Joint Ji | | | |
| Collapse | Burst | | Tension | | | |

*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

| | Y or N | | | |
|---|--------|--|--|--|
| Is casing new? If used, attach certification as required in 43 CFR 3160 | Y | | | |
| Does casing meet API specifications? If no, attach casing specification sheet. | Y | | | |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | | | | |
| Does the above casing design meet or exceed BLM's minimum standards? | Y | | | |
| If not provide justification (loading assumptions, casing design criteria). | 1 | | | |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching | Y | | | |
| the collapse pressure rating of the casing? | 1 | | | |
| | | | | |
| Is well located within Capitan Reef? | N | | | |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | | | | |
| Is well within the designated 4 string boundary. | | | | |
| | | | | |
| Is well located in SOPA but not in R-111-P? | Y | | | |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back | Y | | | |
| 500' into previous casing? | 1 | | | |
| | | | | |
| Is well located in R-111-P and SOPA? | N | | | |
| If yes, are the first three strings cemented to surface? | | | | |
| Is 2 nd string set 100' to 600' below the base of salt? | | | | |
| | • | | | |
| Is well located in high Cave/Karst? | N | | | |
| If yes, are there two strings cemented to surface? | | | | |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | | | | |
| | | | | |
| Is well located in critical Cave/Karst? | N | | | |
| If yes, are there three strings cemented to surface? | | | | |

3. Cementing Program

| Section | Stage | Slurry: | Sacks | Yield (ft^3/ft) | Density (lb/gal) | Excess: | тос | Placement | Description |
|---------|-------|---------------------------|-------|--------------------|---------------------|---------|--------|------------|-------------------------------|
| Surface | 1 | Surface - Tail | 945 | 1.33 | 14.8 | 100% | - | Circulate | Class C+Accel. |
| Int.1 | 1 | Intermediate - Tail | 85 | 1.33 | 14.8 | 20% | 4,043 | Circulate | Class C+Accel. |
| Int.1 | 1 | Intermediate - Lead | 636 | 1.73 | 12.9 | 50% | - | Circulate | Class Pozz+Ret. |
| Int. 2 | 1 | Intermediate 1S - Tail | 528 | 1.65 | 13.2 | 5% | 6,834 | Circulate | Class H+Accel., Disper., Salt |
| Int. 2 | 2 | Intermediate 2S - Tail BH | 878 | 1.71 | 13.3 | 25% | - | Bradenhead | Class C+Accel. |
| Prod. | 1 | Production - Tail | 683 | 1.38 | 13.2 | 25% | 10,828 | Circulate | Class H+Ret., Disper., Salt |

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

Cement Top and Liner Overlap

• Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string

The reason for this is so that we can come back and develop shallower benches from the same 7.625"/7.827" mainbore in the future

Cement will be brought to the top of this liner hanger

4. Pressure Control Equipment

| BOP installed and | | Min. | | | | | TVD Depth | |
|------------------------------------|---------|----------|--------|------------|----------|--------------------------|----------------------|--|
| tested before drilling which hole? | Size? | Required | | Туре | ✓ | Tested to: | (ft) per Section: | |
| Willow Holo I | | 5M | | Annular | 1 | 70% of working pressure | 500000 | |
| | | | | Blind Ram | ✓ | <u> </u> | | |
| 12.25" Hole | 13-5/8" | 5M | | Pipe Ram | | 250 psi / 5000 psi | 4543 | |
| | | SIVI | | Double Ram | ✓ | 250 psi / 5000 psi | | |
| | | | Other* | | | | | |
| | 13-5/8" | 5M | | Annular | ✓ | 70% of working pressure | 10969 | |
| | | | | Blind Ram | \ | | | |
| 9.875" Hole | | 5M | | Pipe Ram | | 250 psi / 5000 psi | | |
| | | SIVI | | Double Ram | ✓ | 230 psi / 3000 psi | | |
| | | | Other* | | | | | |
| | | 5M | | Annular | \ | 100% of working pressure | | |
| | | | | Blind Ram | ✓ | | | |
| 6.75" Hole | 13-5/8" | 10M | | Pipe Ram | | 250 psi / 10000 psi | 11700 | |
| | | TOW | | Double Ram | ✓ | 230 psi / 10000 psi | | |
| | | | Other* | | | | | |

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

5M Annular BOP Request

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Occidental - Permian New Mexico

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

| Section | Depth | | Depth - TVD | | Tymo | Weight | Visaasity | Water |
|----------------|-----------|---------|-------------|---------|---|------------|-----------------|-------|
| Section | From (ft) | To (ft) | From (ft) | To (ft) | Туре | (ppg) | (ppg) Viscosity | |
| Surface | 0 | 905 | 0 | 905 | Water-Based Mud | 8.6 - 8.8 | 40-60 | N/C |
| Intermediate 1 | 905 | 4543 | 905 | 4543 | Saturated Brine-Based or Oil-Based Mud | 8.0 - 10.0 | 35-45 | N/C |
| Intermediate 2 | 4543 | 11028 | 4543 | 10969 | Water-Based or Oil- Based Mud | 8.0 - 10.0 | 38-50 | N/C |
| Production | 11028 | 19889 | 10969 | 11700 | Water-Based or Oil- Based Mud | 9.5 - 12.5 | 38-50 | N/C |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

| What will be used to monitor the | PVT/MD Totco/Visual Monitoring |
|----------------------------------|---------------------------------------|
| loss or gain of fluid? | F V 1/1VID TOLCO/ VISUAL IVIOLITORING |

6. Logging and Testing Procedures

| Loggi | ng, Coring and Testing. |
|-------|--|
| Yes | Will run GR from TD to surface (horizontal well – vertical portion of hole). |
| 1 68 | Stated logs run will be in the Completion Report and submitted to the BLM. |
| No | Logs are planned based on well control or offset log information. |
| No | Drill stem test? If yes, explain |
| No | Coring? If yes, explain |

| Addit | ional logs planned | Interval |
|-------|--------------------|-------------------|
| No | Resistivity | |
| No | Density | |
| Yes | CBL | Production string |
| Yes | Mud log | Bone Spring – TD |
| No | PEX | |

Occidental - Permian New Mexico

7. Drilling Conditions

| Condition | Specify what type and where? |
|-------------------------------|------------------------------|
| BH Pressure at deepest TVD | 7605 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 174°F |

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to

| tile b | the blivi. | | | |
|--------|-------------------|--|--|--|
| N | H2S is present | | | |
| Υ | H2S Plan attached | | | |

8. Other facets of operation

| | Yes/No |
|---|--------|
| Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well. | Yes |
| Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig. | Yes |

Total Estimated Cuttings Volume: 1807 bbls

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. | | | | | | | | |
|---|---|--|-------------------------------|--------------------------|------------|-----------------------|--------|---------------------------------------|
| | | | 1 – Plan D fective May 25. | | | | | |
| I. Operator: OXY USA INC. OGRID: 16696 Date: 11 / 16 / 2 3 | | | | | | | | |
| II. Type: 🗹 Original | ☐ Amendment | due to □ 19.15.27. | 9.D(6)(a) NMA | C □ 19.15.27.9.D(| (6)(b) N | МАС 🗆 С | Other. | |
| If Other, please describe | »: | | | | | | | |
| III. Well(s): Provide the be recompleted from a s | | | | | wells pr | oposed to | be dri | lled or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | | Gas MCF/D Produced | | Anticipated roduced Water BBL/D |
| SEE ATTACHED | | | | | | | | |
| IV. Central Delivery P V. Anticipated Schedu proposed to be recomple | le: Provide the | following information | tion for each nev | | vell or se | | | 7.9(D)(1) NMAC] used to be drilled or |
| Well Name | API | Spud Date | TD Reached Date | <u> </u> | | First Production Date | | |
| SEE ATTACHED | | | | | | | | |
| VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planner | tices: Attac of 19.15.27.8 nt Practices: | ch a complete descr NMAC. Attach a comple | ription of the ac | tions Operator wil | l take to | o comply | with t | he requirements of |

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/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. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the |
|---|
| production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of |
| the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected. |

| XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipate | ed natural gas |
|---|----------------|
| production volume from the well prior to the date of first production. | |

| XIII. Line Pressure. O | perator 🗆 does 🗆 do | oes not anticipate that its | s existing well(s) | connected to the s | ame segment, | or portion, | of the |
|--------------------------|-------------------------|-----------------------------|----------------------|---------------------|----------------|-------------|--------|
| natural gas gathering sy | stem(s) described about | ove will continue to mee | et anticipated incre | eases in line press | sure caused by | the new we | ll(s). |

| | | · • | 1 . | | 1 | • | 1 | | 1. |
|-----|----------|------------|---------|--------|------------|-------------|--------|-----------|---------------|
| 1 1 | Affach (| Inerator's | nlan to | manage | nroduction | in resnonce | to the | increased | line pressure |
| | | | | | | | | | |

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

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Section 3 - Certifications Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

- (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: Roni Mathew |
|---|
| Printed Name: Roni Mathew |
| Title: Regulatory Advisor |
| E-mail Address: roni_mathew@oxy.com |
| Date: 11/16/2023 |
| Phone: 713-215-7827 |
| OIL CONSERVATION DIVISION |
| (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |
| |
| |
| |
| |

V. Anticipated Schedule

| Well Name | API | WELL LOCATION (ULSTR) | Footages | ANTICIPATED OIL BBL/D | ANTICIPATED GAS MCF/D | ANTICIPATED PROD WATER BBL/D |
|----------------------------------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|------------------------------|
| OLIVE WON FED UNIT 26 23 EON 11H | Pending | K-26-T22S-R31E | 2404 FSL 1732 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26 23 EON 12H | Pending | J-26-T22S-R31E | 2238 FSL 2142 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26 23 EON 13H | Pending | J-26-T22S-R31E | 2236 FSL 1319 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26 23 EON 1H | Pending | K-26-T22S-R31E | 2404 FSL 1702 FWL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 23 EON 21H | Pending | K-26-T22S-R31E | 2404 FSL 1792 FWL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 23 EON 22H | Pending | K-26-T22S-R31E | 2404 FSL 1822 FWL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 23 EON 23H | Pending | I-26-T22S-R31E | 2236 FSL 1229 FEL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 23 EON 24H | Pending | I-26-T22S-R31E | 2236 FSL 1199 FEL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 23 EON 2H | Pending | J-26-T22S-R31E | 2238 FSL 2172 FEL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 23 EON 31H | Pending | K-26-T22S-R31E | 2403 FSL 1972 FWL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 23 EON 32H | Pending | K-26-T22S-R31E | 2403 FSL 2002 FWL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 23 EON 32H | | J-26-T22S-R31E | 2238 FSL 2052 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 23 EON 34H | Pending Pending | J-26-T22S-R31E | 2237 FSL 2022 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 23 EON 35H | | J-26-T22S-R31E | 2237 FSL 2022 FEL | 2050 | 2200 | 4300 |
| | Pending | | | | 2200 | 4300 |
| OLIVE WON FED UNIT 26_23 EON 36H | Pending | I-26-T22S-R31E | 2235 FSL 1049 FEL | 2050 | | |
| OLIVE WON FED UNIT 26_23 EON 37H | Pending | I-26-T22S-R31E | 2235 FSL 1019 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26_23 EON 3H | Pending | J-26-T22S-R31E | 2238 FSL 2112 FEL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26_23 EON 41H | Pending | K-26-T22S-R31E | 2405 FSL 1612 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_23 EON 42H | Pending | K-26-T22S-R31E | 2405 FSL 1642 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_23 EON 43H | Pending | J-26-T22S-R31E | 2237 FSL 1409 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_23 EON 44H | Pending | J-26-T22S-R31E | 2237 FSL 1379 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_23 EON 4H | Pending | I-26-T22S-R31E | 2236 FSL 1289 FEL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26_23 EON 71H | Pending | K-26-T22S-R31E | 2403 FSL 1882 FWL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26_23 EON 72H | Pending | K-26-T22S-R31E | 2403 FSL 1912 FWL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26_23 EON 73H | Pending | I-26-T22S-R31E | 2235 FSL 1139 FEL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26_23 EON 74H | Pending | I-26-T22S-R31E | 2235 FSL 1109 FEL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26_35 EOS 32H | Pending | K-26-T22S-R31E | 2613 FSL 2003 FWL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26_35 EOS 34H | Pending | J-26-T22S-R31E | 2447 FSL 2021 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26_35 EOS 36H | Pending | I-26-T22S-R31E | 2445 FSL 1077 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26_35 EOS 41H | Pending | K-26-T22S-R31E | 2615 FSL 1613 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 42H | Pending | K-26-T22S-R31E | 2615 FSL 1643 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 43H | Pending | I-26-T22S-R31E | 2446 FSL 1257 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 44H | Pending | I-26-T22S-R31E | 2446 FSL 1227 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 11H | Pending | K-26-T22S-R31E | 2614 FSL 1733 FWL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 12H | Pending | J-26-T22S-R31E | 2449 FSL 2291 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 13H | Pending | J-26-T22S-R31E | 2449 FSL 2231 FEL | 1150 | 2900 | 1850 |
| OLIVE WON FED UNIT 26_35 EOS 1H | Pending | K-26-T22S-R31E | 2614 FSL 1703 FWL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 35 EOS 21H | Pending | K-26-T22S-R31E | 2614 FSL 1823 FWL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 35 EOS 22H | Pending | K-26-T22S-R31E | 2613 FSL 1853 FWL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 35 EOS 23H | Pending | K-26-T22S-R31E | 2613 FSL 1883 FWL | 1050 | 1250 | 1950 |
| OLIVE WON FED UNIT 26 35 EOS 2H | Pending | K-26-T22S-R31E | 2614 FSL 1763 FWL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 35 EOS 31H | Pending | K-26-T22S-R31E | 2613 FSL 1943 FWL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 35 EOS 33H | Pending | J-26-T22S-R31E | 2448 FSL 2051 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 35 EOS 35H | Pending | J-26-T22S-R31E | 2447 FSL 1991 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 35 EOS 37H | Pending | I-26-T22S-R31E | 2445 FSL 1047 FEL | 2050 | 2200 | 4300 |
| OLIVE WON FED UNIT 26 35 EOS 3H | Pending | J-26-T22S-R31E | 2449 FSL 2261 FEL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 35 EOS 4H | Pending | I-26-T22S-R31E | 2445 FSL 1017 FEL | 930 | 2200 | 2500 |
| OLIVE WON FED UNIT 26 35 EOS 71H | Pending | K-26-T22S-R31E | 2613 FSL 1973 FWL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26 35 EOS 72H | Pending | J-26-T22S-R31E | 2448 FSL 2171 FEL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26 35 EOS 73H | Pending | J-26-T22S-R31E | 2448 FSL 2141 FEL | 1150 | 1950 | 1050 |
| OLIVE WON FED UNIT 26 35 EOS 74H | Pending | J-26-T22S-R31E | 2448 FSL 2111 FEL | 1150 | 1950 | 1050 |
| 52.72 WONTED ON 20_33 LO3 /411 | rename | 2 50 1553 NOTE | | 1130 | 1550 | 1030 |

V. Anticipated Schedule

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|----------------------------------|---------|-----------|-----------------|------------------------------|------------------------|-----------------------|
| OLIVE WON FED UNIT 26_23 EON 11H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 12H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 13H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 1H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 21H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 22H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 23H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 24H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 2H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 31H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 32H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 33H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 34H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 35H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 36H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 37H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 3H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 41H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 42H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 43H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 44H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 4H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 71H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 72H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 73H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_23 EON 74H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 32H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 34H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 36H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 41H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 42H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 43H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 44H | Pending | 2027 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 11H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 12H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 13H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 1H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 21H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 22H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 23H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 2H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 31H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 33H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 35H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 37H | Pending | Pending | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 3H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 4H | Pending | 2026 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 71H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 72H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 73H | Pending | 2025 | Pending | Pending | Pending | Pending |
| OLIVE WON FED UNIT 26_35 EOS 74H | Pending | 2025 | Pending | Pending | Pending | Pending |

Central Delivery Point Name: Lost Tank 25 CPF

Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. The actual flow of the gas will be based on compression operating parameters and gathering system pressures

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on MPLX system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s). Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

Compressed Natural Gas - On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

NGL Removal – On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

OXY Permian Delaware NM Basin Drilling & Completions Incident Reporting OXY Permian Crisis Team Hotline Notification

| Person | Location | Office Phone | Cell/Mobile Phone |
|--|----------|-------------------|-------------------|
| Drilling & Completions Department | | | |
| Drilling & Completions Manager: John Willis | Houston | (713) 366-5556 | (713) 259-1417 |
| Drilling Superintendent: Simon Benavides | Houston | (713) 215-7403 | (832) 528-3547 |
| Completions Superintendent: Chris Winter | Houston | (713) 366-5212 | (806) 239-8774 |
| Drilling Eng. Supervisor: Diego Tellez | Houston | (713) 350-4602 | (713) 303-4932 |
| Drilling Eng. Supervisor: Randy Neel | Houston | (713) 215-7987 | (713) 517-5544 |
| Completions Eng. Supervisor: Evan Hinkel | Houston | (713) 366-5436 | (281) 236-6153 |
| Drilling & Completions HES Lead. Ryan Green | Houston | 713-336-5753 | 281-520-5216 |
| Drilling & Completions HES Advisor:Kenny Williams | Carlsbad | (432) 686-1434 | (337) 208-0911 |
| Drilling & Completions HES Advisor:Kyle Holden | Carlsbad | (432) 686-1435 | (661) 369-5328 |
| Drilling & Completions HES Advisor Sr:Dave Schmidt | Carlsbad | | (559) 310-8572 |
| Drilling & Completions HES Advisor. :Seth Doyle | Carlsbad | | (337) 499-0756 |
| HES / Enviromental & Regulatory Department | Location | Office | Cell Phone |
| Jon Hamil-HES Manager | Houston | (713) 497-2494 | (832) 537-9885 |
| Mark Birk-HES Manager | Houston | (713) 350-4615 | (949) 413-3127 |
| Austin Tramell | Midland | (432) 699-4208 | (575) 499-4919 |
| Rico Munoz | Midland | (432) 699-8366 | (432) 803-4116 |
| Amber DuckWorth | Midland | | (832) 966-1879 |
| Kelley Montgomery- Regulatory Manager | Houston | (713) 366-5716 | (832) 454-8137 |
| Sandra Musallam -Regulatory Lead | Houston | +1 (713) 366-5106 | +1 (713) 504-8577 |
| Bishop, Steve-DOT Pipeline Coordinator | Midland | 432-685-5614 | |
| Wilson, Dusty-Safety Advisor | Midland | 432-685-5771 | (432) 254-2336 |
| John W Dittrich Eniromental Advisor | Midland | | (575) 390-2828 |
| William (Jack) Calhoun-Environmental Lead | Houston | +713 (350) 4906 | (281) 917-8571 |
| Robert Barrow-Risk Engineer Manager | Houston | (713) 366-5611 | (832) 867-5336 |
| Sarah Holmes-HSE Cordinator | Midland | 432-685-5758 | |
| Administrative | Location | Office | |
| Sarah Holmes | Midland | 432-685-5830 | |
| Robertson, Debbie | Midland | 432-685-5812 | |
| Laci Hollaway | Midland | (432) 685-5716 | (432) 631-6341 |
| Administrative | Location | Office | |
| Rosalinda Escajeda | Midland | 432-685-5831 | |
| Moreno, Leslie (contract) | Hobbs | 575-397-8247 | |

| Sehon, Angela (contractor) | Levelland | 806-894-8347 | |
|--|----------------------------|----------------------------------|-------------------------------|
| Vasquez, Claudia (contractor) | North Cowden | 432-385-3120 | |
| XstremeMD | Location | Office | |
| Medical Case Management | Orla, TX | (337) 205-9314 | |
| Axiom Medical Consulting | Location | Office | |
| Medical Case Management | | (877) 502-9466 | |
| Regulatory Agencies | | | |
| Bureau of Land Management | Carlsbad, NM | (505) 887-6544 | |
| Bureau of Land Management | Hobbs, NM | (505) 393-3612 | |
| Bureau of Land Management | Roswell, NM | (505) 393-3612 | |
| Bureau of Land Management | Santa Fe, NM | (505) 988-6030 | |
| DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission | Santa Fe, NM | (505) 827-3549 (505) 490-2375 | |
| DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission | Austin, TX | (512) 463-6788 | |
| EPA Hot Line | Dallas, Texas | (214) 665-6444 | |
| Federal OSHA, Area Office | Lubbock, Texas | (806) 472-7681 | |
| National Response Center | Washington, D. C. | (800) 424-8802 | |
| National Infrastructure Coordinator Center | | (202) 282-9201 | |
| New Mexico Air Quality Bureau | Santa Fe, NM | (505) 827-1494 | |
| New Mexico Oil Conservation Division | Artesia, NM | (505) 748-1283 | After Hours (505) 370 7545 |
| New Mexico Oil Conservation Division | Hobbs, NM | (505) 393-6161 | |
| New Mexico Oil Conservation Division | Santa Fe, NM | (505) 471-1068 | |
| New Mexico OCD Environmental Bureau | Santa Fe, NM | (505) 476-3470 | |
| New Mexico Environmental Department | Hobbs, NM | (505) 827-9329 | |
| NM State Emergency Response Center | Santa Fe, NM | (505) 827-9222 | |
| Railroad Commission of TX | District 1 San Antonio, TX | (210) 227-1313 | |
| Railroad Commission of TX | District 7C San Angelo, TX | (325) 657-7450 | |
| Railroad Commission of TX | District 8, 8A Midland, TX | (432) 684-5581 | |
| Texas Emergency Response Center | Austin, TX | (512) 463-7727 | |
| TCEQ Air | Region 2 Lubbock, TX | (806) 796-3494 | |
| TCEQ Water/Waste/Air | Region 3 Abilene, TX | (325) 698-9674 | |
| TCEQ Water/Waste/Air | Region 7 Midland, TX | (432) 570-1359 | |
| TCEQ Water/Waste/Air | Region 9 San Antonio, TX | (512) 734-7981 | |
| TCEQ Water/Waste/Air | Region 8 San Angelo | (325) 655-9479 | |
| Medical Facilities | | | |
| Abernathy Medical Clinic | Abernathy, TX | (806) 298-2524 | |
| Alliance Hospital | Odessa, TX | (432) 550-1000 | |
| Artesia General Hospital | Artesia, NM | (505) 748-3333 | |
| Brownfield Regional Medical Center | Brownfield, TX | (806) 637-3551 | |
| Cogdell Memorial Hospital | Snyder, TX | (325) 573-6374 | |
| Covenant Hospital Levelland | Levelland, TX | (806) 894-4963 | |

| Covenant Medical Center | Lubbock, TX | (806) 725-1011 |
|--|---------------------------|----------------|
| Covenant Medical Center Lakeside | Lubbock, TX | (806) 725-6000 |
| Covenant Family Health | Synder, TX | (325) 573-1300 |
| Crockett County Hospital | Ozona, TX | (325) 392-2671 |
| Guadalupe Medical Center | Carlsbad, NM | (505) 887-6633 |
| Lea Regional Hospital | Hobbs, NM | (505) 492-5000 |
| McCamey Hospital | McCamey, TX | (432) 652-8626 |
| Medical Arts Hospital | Lamesa, TX | (806) 872-2183 |
| Medical Center Hospital | Odessa, TX | (432) 640-4000 |
| Medi Center Hospital | San Angelo, TX | (325) 653-6741 |
| Memorial Hospital | Ft. Stockton | (432) 336-2241 |
| Memorial Hospital | Seminole, TX | (432) 758-5811 |
| Midland Memorial Hospital | Midland, TX | (432) 685-1111 |
| Nor-Lea General Hospital | Lovington, NM | (505) 396-6611 |
| Odessa Regional Hospital | Odessa, TX | (432) 334-8200 |
| Permian General Hospital | Andrews, TX | (432) 523-2200 |
| Reagan County Hospital | Big Lake, TX | (325) 884-2561 |
| Reeves County Hospital | Pecos, TX | (432) 447-3551 |
| Shannon Medical Center | San Angelo, TX | (325) 653-6741 |
| Union County General Hospital | Clayton, NM | (505) 374-2585 |
| University Medical Center | Lubbock, TX | (806) 725-8200 |
| Val Verde Regional Medical Center | Del Rio, TX | (830) 775-8566 |
| Ward Memorial Hospital | Monahans, TX | (432) 943-2511 |
| Yoakum County Hospital | Denver City, TX | (806) 592-5484 |
| | | |
| Law Enforcement - Sheriff | | |
| Andrews Cty Sheriff's Department | Andrews County(Andrews) | (432) 523-5545 |
| Crane Cty Sheriff's Department | Crane, County (Crane) | (432) 558-3571 |
| Crockett Cty Sheriff's Department | Crockett County (Ozona) | (325) 392-2661 |
| Dawson Cty Sheriff's Department | Dawson County (Lamesa) | (806) 872-7560 |
| Ector Cty Sheriff's Department | Ector County (Odessa) | (432) 335-3050 |
| Eddy Cty Sheriff's Department | Eddy County (Artesia) | (505) 746-2704 |
| Eddy Cty Sheriff's Department | Eddy County (Carlsbad) | (505) 887-7551 |
| Gaines Cty Sheriff's Department | Gaines County (Seminole) | (432) 758-9871 |
| Hockley Cty Sheriff's Department | Hockley County(Levelland) | (806) 894-3126 |
| Kent Cty (Jayton City Sheriff's Dept.) | Kent County(Jayton) | (806) 237-3801 |
| Lea Cty Sheriff's Department | Lea County (Eunice) | (505) 384-2020 |
| Lea Cty Sheriff's Department | Lea County (Hobbs) | (505) 393-2515 |
| Lea Cty Sheriff's Department | Lea County (Lovington) | (505) 396-3611 |
| Lubbock Cty Sheriff's Department | Lubbock Cty (Abernathy) | (806) 296-2724 |
| Midland Cty Sheriff's Department | Midland County (Midland) | (432) 688-1277 |
| Pecos Cty Sheriff's Department | Pecos County (Iraan) | (432) 639-2251 |
| Reeves Cty Sheriff's Department | Reeves County (Pecos) | (432) 445-4901 |
| Scurry Cty Sheriff's Department | Scurry County (Snyder) | (325) 573-3551 |

| T C' CI 'CC D | T. C. (D. C.11) | (906) 627 2212 | |
|----------------------------------|---------------------------|----------------------|--|
| Terry Cty Sheriff's Department | Terry County (Brownfield) | (806) 637-2212 | |
| Union Cty Sheriff's Department | Union County (Clayton) | (505) 374-2583 | |
| Upton Cty Sheriff's Department | Upton County (Rankin) | (432) 693-2422 | |
| Ward Cty Sheriff's Department | Ward County (Monahans) | (432) 943-3254 | |
| Yoakum City Sheriff's Department | Yoakum Co. (Denever City) | (806) 456-2377 | |
| Law Enforcement - Police | | | |
| Abernathy City Police | Abernathy, TX | (806) 298-2545 | |
| Andrews City Police | Andrews, TX | (432) 523-5675 | |
| Artesia City Police | Artesia, NM | (505) 746-2704 | |
| Brownfield City Police | Brownfield, TX | (806) 637-2544 | |
| Carlsbad City Police | Carlsbad, NM | (505) 885-2111 | |
| Clayton City Police | Clayton, NM | (505) 374-2504 | |
| Denver City Police | Denver City, TX | (806) 592-3516 | |
| Eunice City Police | Eunice, NM | (505) 394-2112 | |
| | | (505) 397-9265 (505) | |
| Hobbs City Police | Hobbs, NM | 393-2677 | |
| Jal City Police | Jal, NM | (505) 395-2501 | |
| Jayton City Police | Jayton, TX | (806) 237-3801 | |
| Lamesa City Police | Lamesa, TX | (806) 872-2121 | |
| Levelland City Police | Levelland, TX | (806) 894-6164 | |
| Lovington City Police | Lovington, NM | (505) 396-2811 | |
| Midland City Police | Midland, TX | (432) 685-7113 | |
| Monahans City Police | Monahans, TX | (432) 943-3254 | |
| Odessa City Police | Odessa, TX | (432) 335-3378 | |
| Seminole City Police | Seminole, TX | (432) 758-9871 | |
| Snyder City Police | Snyder, TX | (325) 573-2611 | |
| Sundown City Police | Sundown, TX | (806) 229-8241 | |
| Law Enforcement - FBI | | | |
| FBI | Alburqueque, NM | (505) 224-2000 | |
| FBI | Midland, TX | (432) 570-0255 | |
| | Wildiand, 174 | (432) 370-0233 | |
| Law Enforcement - DPS | | | |
| NM State Police | Artesia, NM | (505) 746-2704 | |
| NM State Police | Carlsbad, NM | (505) 885-3137 | |
| NM State Police | Eunice, NM | (505) 392-5588 | |
| NM State Police | Hobbs, NM | (505) 392-5588 | |
| NM State Police | Clayton, NM | (505) 374-2473; 911 | |
| TX Dept of Public Safety | Andrews, TX | (432) 524-1443 | |
| TX Dept of Public Safety | Big Lake, TX | (325) 884-2301 | |
| TX Dept of Public Safety | Brownfield, TX | (806) 637-2312 | |
| TX Dept of Public Safety | Iraan, TX | (432) 639-3232 | |
| TX Dept of Public Safety | Lamesa, TX | (806) 872-8675 | |
| TX Dept of Public Safety | Levelland, TX | (806) 894-4385 | |

| TX Dept of Public Safety | Lubbock, TX | (806) 747-4491 |
|---|---------------------------|-----------------------|
| TX Dept of Public Safety | Midland, TX | (432) 697-2211 |
| TX Dept of Public Safety | Monahans, TX | (432) 943-5857 |
| TX Dept of Public Safety | Odessa, TX | (432) 332-6100 |
| TX Dept of Public Safety | Ozona, TX | (325) 392-2621 |
| TX Dept of Public Safety | Pecos, TX | (432) 447-3533 |
| TX Dept of Public Safety | Seminole, TX | (432) 758-4041 |
| TX Dept of Public Safety | Snyder, TX | (325) 573-0113 |
| TX Dept of Public Safety | Terry County TX | (806) 637-8913 |
| TX Dept of Public Safety | Yoakum County TX | (806) 456-2377 |
| The special state of the state | | (600) 100 2011 |
| Firefighting & Rescue | | |
| Abernathy | Abernathy, TX | (806) 298-2022 |
| Amistad/Rosebud | Amistad/Rosebud, NM | (505) 633-9113 |
| Timistic, Trosport | Timistata Itoseetta, 1111 | (432) 523-4820; (432) |
| Andrews | Andrews, TX | 523-3111 |
| Artesia | Artesia, NM | (505) 746-5051 |
| Big Lake | Big Lake, TX | (325) 884-3650 |
| Brownfield-Administrative & other calls | Brownfield, TX | (816) 637-4547 |
| Brownfield emergency only | Brownfield, TX | -911 |
| Carlsbad | Carlsbad, NM | (505) 885-3125 |
| Clayton | Clayton, NM | (505) 374-2435 |
| Cotton Center | Cotton Center, TX | (806) 879-2157 |
| Crane | Crane, TX | (432) 558-2361 |
| Del Rio | Del Rio, TX | (830) 774-8650 |
| Denver City | Denver City, TX | (806) 592-3516 |
| Eldorado | Eldorado, TX | (325) 853-2691 |
| Eunice | Eunice, NM | (505) 394-2111 |
| Garden City | Garden City, TX | (432) 354-2404 |
| Goldsmith | Goldsmith, TX | (432) 827-3445 |
| Hale Center | Hale Center, TX | (806) 839-2411 |
| Halfway | Halfway, TX | |
| Hobbs | Hobbs, NM | (505) 397-9308 |
| Jal | Jal, NM | (505) 395-2221 |
| Jayton | Jayton, TX | (806) 237-3801 |
| Kermit | Kermit, TX | (432) 586-3468 |
| Lamesa | Lamesa, TX | (806) 872-4352 |
| Levelland | Levelland, TX | (806) 894-3154 |
| Lovington | Lovington, NM | (505) 396-2359 |
| Maljamar | Maljamar, NM | (505) 676-4100 |
| McCamey | McCamey, TX | (432) 652-8232 |
| Midland | Midland, TX | (432) 685-7346 |
| Monahans | Monahans, TX | (432) 943-4343 |
| Nara Visa | Nara Visa, NM | (505) 461-3300 |
| Notrees | Notress, TX | (432) 827-3445 |

| Odessa | Odessa, TX | (432) 335-4659 | |
|-----------------------|---------------------|---------------------------|--|
| Ozona | Ozona, TX | (325) 392-2626 | |
| Pecos | Pecos, TX | (432) 445-2421 | |
| Petersburg | Petersburg, TX | (806) 667-3461 | |
| Plains | Plains, TX | (806) 456-8067 | |
| Plainview | Plainview, TX | (806) 296-1170 | |
| Rankin | Rankin, TX | (432) 693-2252 | |
| San Angelo | San Angelo, TX | (325) 657-4355 | |
| Sanderson | Sanderson, TX | (432) 345-2525 | |
| | | (432) 758-3676 | |
| Seminole | Seminole, TX | (432) 758-9871 | |
| Smyer | Smyer, TX | (806) 234-3861 | |
| Snyder | Snyder, TX | (325) 573-6215 | |
| Sundown | Sundown, TX | 911 | |
| Tucumcari | Tucumcari, NM | 911 | |
| West Odessa | Odessa, TX | (432) 381-3033 | |
| | | | |
| Ambulance | | | |
| Abernathy Ambulance | Abernathy, TX | (806) 298-2241 | |
| Amistad/Rosebud | Amistad/Rosebud, NM | (505) 633-9113 | |
| Andrews Ambulance | Andrews, TX | (432) 523-5675 | |
| Artesia Ambulance | Artesia, NM | (505) 746-2701 | |
| Big Lake Ambulance | Big Lake, TX | (325) 884-2423 | |
| Big Spring Ambulance | Big Spring, TX | (432) 264-2550 | |
| Brownfield Ambulance | Brownfield, TX | (806) 637-2511 | |
| Carlsbad Ambulance | Carlsbad, NM | (505) 885-2111; 911 | |
| Clayton, NM | Clayton, NM | (505) 374-2501 | |
| Denver City Ambulance | Denver City, TX | (806) 592-3516 | |
| Eldorado Ambulance | Eldorado, TX | (325) 853-3456 | |
| Eunice Ambulance | Eunice, NM | (505) 394-3258 | |
| Goldsmith Ambulance | Goldsmith, TX | (432) 827-3445 | |
| Hobbs, NM | Hobbs, NM | (505) 397-9308 | |
| Jal, NM | Jal, NM | (505) 395-2501 | |
| Jayton Ambulance | Jayton, TX | (806) 237-3801 | |
| Lamesa Ambulance | Lamesa, TX | (806) 872-3464 | |
| Levelland Ambulance | Levelland, TX | (806) 894-8855 | |
| Lovington Ambulance | Lovington, NM | (505) 396-2811 | |
| McCamey Hospital | McCamey, TX | (432) 652-8626 | |
| Midland Ambulance | Midland, TX | (432) 685-7499 | |
| Monahans Ambulance | Monahans, TX | (432) 943-3385 or 3731 | |
| Nara Visa, NM | Nara Visa, NM | (505) 461-3300 | |
| Odessa Ambulance | Odessa, TX | (432) 335-3378 | |
| Ozona Ambulance | Ozona, TX | (325) 392-2671 | |
| Pecos Ambulance | Pecos, TX | (432) 445-4444 | |

| Rankin Ambulance | Rankin, TX | (432) 693-2443 | |
|----------------------------------|----------------|----------------|--|
| San Angelo Ambulance | San Angelo, TX | (325) 657-4357 | |
| | | (432) 758-8816 | |
| Seminole Ambulance | Seminole, TX | (432) 758-9871 | |
| Snyder Ambulance | Snyder, TX | (325) 573-1911 | |
| Stanton Ambulance | Stanton, TX | (432) 756-2211 | |
| Sundown Ambulance | Sundown, TX | 911 | |
| Tucumcari, NM | Tucumcari, NM | 911 | |
| Medical Air Ambulance Service | | | |
| AEROCARE - Methodist Hospital | Lubbock, TX | (800) 627-2376 | |
| San Angelo Med-Vac Air Ambulance | San Angelo, TX | (800) 277-4354 | |
| Southwest Air Ambulance Service | Stanford, TX | (800) 242-6199 | |
| Southwest MediVac | Snyder, TX | (800) 242-6199 | |
| Southwest MediVac | Hobbs, NM | (800) 242-6199 | |
| Odessa Care Star | Odessa, TX | (888) 624-3571 | |
| NWTH Medivac | Amarillo, TX | (800) 692-1331 | |

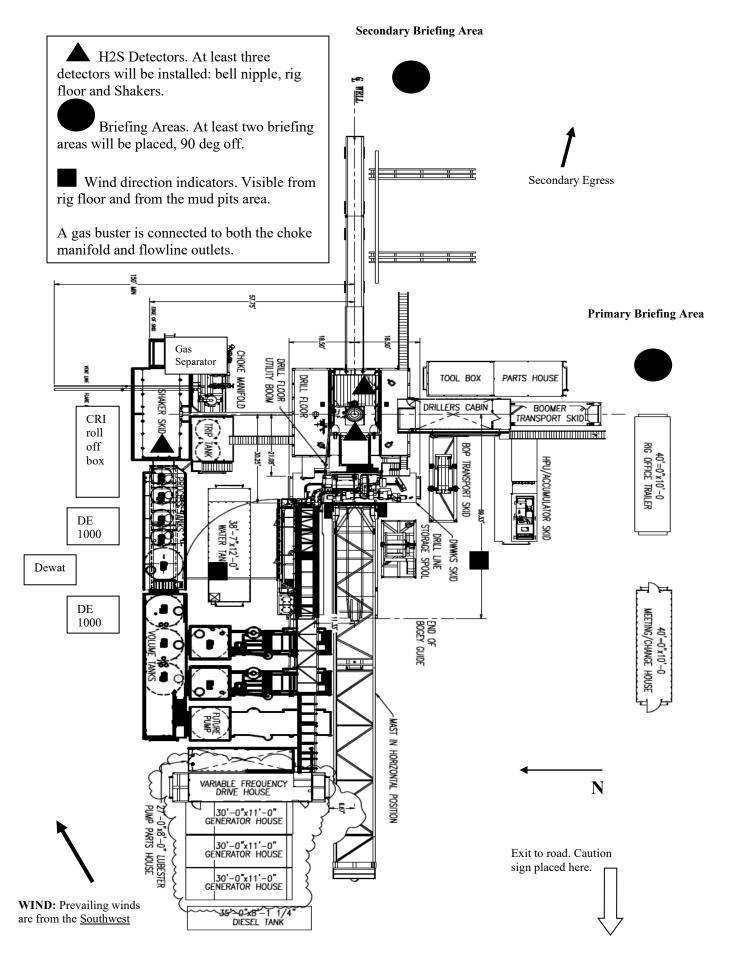


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that

must be adhered to prior to drilling.

Drilling emergency call lists: Included are the telephone numbers of all persons to

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

Public safety: Public safety personnel will be made aware of any

potential evacuation and any additional support

needed.

Check lists: Status check lists and procedural check lists have been

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – wind streamers:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

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green – normal conditions
yellow – potential danger
red – danger, H2S present
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B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. <u>Designated area</u>

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.

B. If uncontrollable conditions occur:

1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:

- 1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.

Tool pusher:

- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

1. Don escape unit, shut down pumps, continue

rotating DP.

- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man Floor man #1 Floor man #2 1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

- Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

<u>Instructions for igniting the well</u>

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. <u>Do not assume the area is safe after the well is ignited.</u>

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1-100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

| Checked by: | Data |
|-------------|------|
| Спескей бу: | Date |

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i Toxicity of various gases

| Common name | Chemical formula | Specific gravity (sc=1) | Threshold limit (1) | Hazardous limit (2) | Lethal concentration (3) |
|---------------------|---------------------|-------------------------|---------------------------|---------------------------|--------------------------|
| Hydrogen Cvanide | Hen | 0.94 | 10 ppm | 150 ppm/hr | 300 ppm |
| Hydrogen Sulfide | H2S | 1.18 | 10 ppm | 250 ppm/hr | 600 ppm |
| Sulfur Dioxide | So2 | 2.21 | 5 ppm | - | 1000 ppm |
| Chlorine | C12 | 2.45 | 1 ppm | 4 ppm/hr | 1000 ppm |
| Carbon Monoxide | Co | 0.97 | 50 ppm | 400 ppm/hr | 1000 ppm |
| Carbon Dioxide | Co2 | 1.52 | 5000 ppm | 5% | 10% |
| Methane | Ch4 | 0.55 | 90,000 ppm | Combustib | le above 5% in air |

- 1) threshold limit concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

| | | Concentration | Physical effects |
|-------------|-----|---------------|------------------------------|
| Percent (%) | Ppm | Grains | |
| , , | - | 100 std. Ft3* | |
| 0.001 | <10 | 00.65 | Obvious and unpleasant odor. |

| 0.002 | 10 | 01.30 | Safe for 8 hours of exposure. |
|-------|------|-------|--|
| 0.010 | 100 | 06.48 | Kill smell in $3 - 15$ minutes. May sting eyes and throat. |
| 0.020 | 200 | 12.96 | Kills smell shortly; stings eyes and throat. |
| 0.050 | 500 | 32.96 | Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration. |
| 0.070 | 700 | 45.36 | Unconscious quickly; death will result if not rescued promptly. |
| 0.100 | 1000 | 64.30 | Unconscious at once; followed by death within minutes. |

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a
 test atmosphere. (note: such items as facial hair {beard or sideburns} and
 eyeglasses will not allow proper seal.) Anyone that may be reasonably expected
 to wear SCBA's should have these items removed before entering a toxic
 atmosphere. A special mask must be obtained for anyone who must wear
 eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

Rescue First aid for H2S poisoning

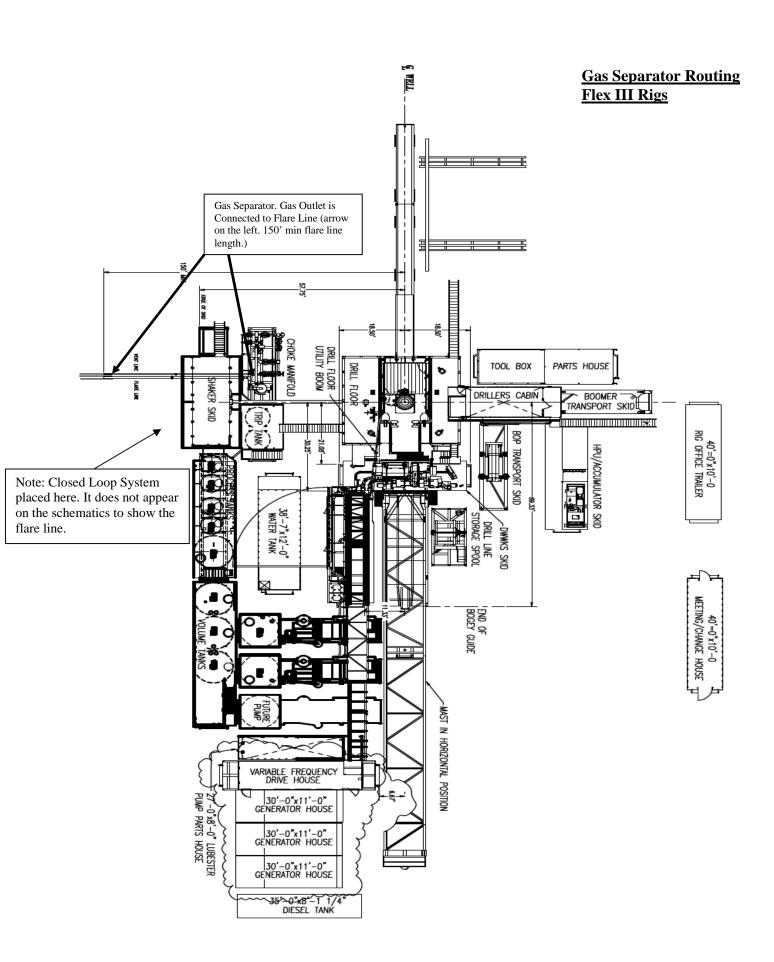
Do not panic!

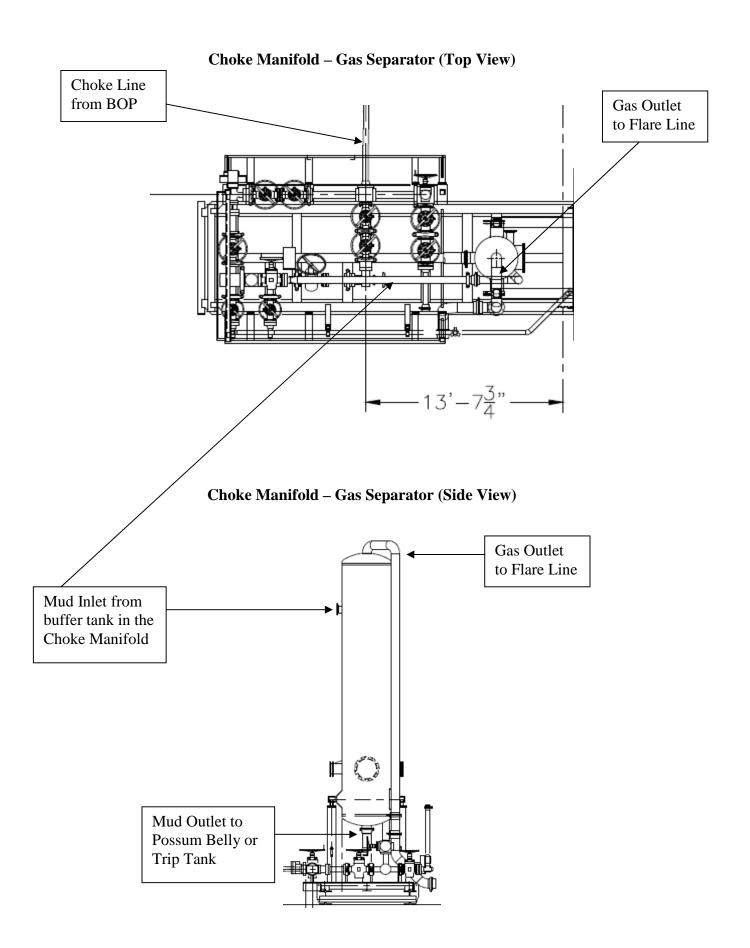
Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012





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

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

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

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

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

CONDITIONS

Action 348164

CONDITIONS

| Operator: | OGRID: |
|-----------------------|---|
| OXY USA INC | 16696 |
| P.O. Box 4294 | Action Number: |
| Houston, TX 772104294 | 348164 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By | Condition | Condition Date |
|-------------|--|-------------------|
| ward.rikala | Notify OCD 24 hours prior to casing & cement | 6/17/2024 |
| ward.rikala | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 6/17/2024 |
| ward.rikala | 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 | 6/17/2024 |
| ward.rikala | Cement is required to circulate on both surface and intermediate1 strings of casing | 6/17/2024 |
| ward.rikala | If cement does not circulate on any string, a CBL is required for that string of casing | 6/17/2024 |
| ward.rikala | 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 | 6/17/2024 |