| Form 3160-3 (June 2015) | | FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 | | | | | | | |
|--|---------------|---|--------------|-------------------------------------|-------------------|------------------|--|--|--|
| UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA | NTERIOR | | | 5. Lease Serial No. | | | | | |
| APPLICATION FOR PERMIT TO DE | | | | 6. If Indian, Allotee or Tribe Name | | | | | |
| 1a. Type of work: DRILL RE 1b. Type of Well: Oil Well Gas Well Oth | | 7. If Unit or CA Agreement, Name and No. | | | | | | | |
| | ngle Zone | Multiple Zone | | 8. Lease Name and | | | | | |
| 2. Name of Operator | | | | 9. API Well No. | 32082 | | | | |
| [16696] | | | | | | 5-48825 | | | |
| 3a. Address | 3b. Phone l | No. (include area coa | le) | 10. Field and Pool, | or Explo | ratory [98252] | | | |
| 4. Location of Well (Report location clearly and in accordance w | ith any State | requirements.*) | | 11. Sec., T. R. M. o | r Blk. and | d Survey or Area | | | |
| At surface | | | | | | | | | |
| At proposed prod. zone | | | | | | T | | | |
| 14. Distance in miles and direction from nearest town or post office | ce* | | | 12. County or Paris | h | 13. State | | | |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) | 16. No of a | cres in lease | 17. Spacin | cing Unit dedicated to this well | | | | | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Propose | ed Depth | 20. BLM/ | BIA Bond No. in file | ; | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approx | imate date work will | start* | 23. Estimated durat | tion | | | | |
| | 24. Atta | chments | | | | | | | |
| The following, completed in accordance with the requirements of (as applicable) | Onshore Oi | and Gas Order No. | 1, and the H | Hydraulic Fracturing | rule per 4 | 3 CFR 3162.3-3 | | | |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) | | Item 20 above). 5. Operator certification | cation. | ns unless covered by a | | | | | |
| 25. Signature | Name | e (Printed/Typed) | | | Date | | | | |
| Title | | | | | | | | | |
| Approved by (Signature) | Name | (Printed/Typed) | | | Date | | | | |
| Title | Offic | e | | | | | | | |
| Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached. | holds legal | or equitable title to t | hose rights | in the subject lease w | which wou | ald entitle the | | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements o | | | | | any depa | rtment or agency | | | |
| GCP Rec 04/21/2021 | | | | | | | | | |
| CI. | an W | TH CONDIT | IONS | 65/10 05/10 | <u>Z</u> /2021 | | | | |
| SL (Continued on page 2) | יוו עצו | | | *(In | istruction | ons on page 2) | | | |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:

LEASE NO.:

NMNM055953

LOCATION:

COUNTY:

WELL NAME & NO.:

SURFACE HOLE FOOTAGE:

BOTTOM HOLE FOOTAGE

OXY USA INCORPORATED

NMNM055953

Section 16, T.24 S., R.32 E., NMP

Lea County, New Mexico

MESA VERDE WC UNIT 39H

250'/S & 1715'/W

20'/N & 1010'/W

WELL NAME & NO.: MESA VERDE WC UNIT 40H
SURFACE HOLE FOOTAGE: 250'/S & 1750'/W
BOTTOM HOLE FOOTAGE 20'/N & 1370'/W

WELL NAME & NO.: MESA VERDE WC UNIT 41H
SURFACE HOLE FOOTAGE: 250'/S & 1785'/W
BOTTOM HOLE FOOTAGE 20'N & 2318'/W

COA

| H2S | • Yes | O No | |
|----------------------|------------------|------------------|--------------|
| Potash | None | © Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | C High |
| Cave/Karst Potential | Critical | | |
| Variance | O None | • Flex Hose | Other |
| Wellhead | Conventional | © Multibowl | O Both |
| Other | ☐ 4 String Area | ☐ Capitan Reef | □WIPP |
| Other | ☐ Fluid Filled | ☐ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | ▼ COM | □ Unit |
| | | | |
| Break Testing | • Yes | O No | |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Double X Pool** and **Delaware Mountain Group** formations. 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

Casing Design:

- 1. The 10-3/4 inch surface casing shall be set at approximately 1158 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 7-5/8 inch intermediate casing shall be set at approximately 12535 feet. 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 a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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 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.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the

blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Offline Cementing

• Contact the BLM prior to the commencement of any offline cementing procedure.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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 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.

- The BLM is to be contacted (575-393-3612 Lea 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 Onshore Oil and Gas Order No. 2.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

B. PRESSURE CONTROL

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

NMK33032021



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

Application Data Repor

APD ID: 10400052493

Submission Date: 12/18/2019

Highlighted data reflects the most recent changes

Operator Name: OXY USA INCORPORATED

Well Number: 40H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

10400052493

Well Name: MESA VERDE WC UNIT

Tie to previous NOS? N

Submission Date: 12/18/2019

BLM Office: CARLSBAD

APD ID:

User: LESLIE REEVES

Title: Advisor Regulatory

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM055953

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: OXY USA INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: OXY USA INCORPORATED

Operator Address: 5 Greenway Plaza, Suite 110

Operator PO Box:

State: TX

Operator City: Houston

Operator Phone: (713)366-5716

Operator Internet Address:

Section 2 - Well Information

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

Well in Master SUPO? NO Master SUPO name:

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

Well API Number: Well Name: MESA VERDE WC UNIT Well Number: 40H

Field/Pool or Exploratory? Field and Pool Field Name: MESA VERDE Pool Name: MESA VERDE

WOLFCAMP WOLFCAMP

Zip: 77046

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

Page 1 of 3

Well Name: MESA VERDE WC UNIT Well Number: 40H

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

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

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: MESA Number: 39H, 40H, 41H

Well Class: HORIZONTAL

VERDE WC UNIT

Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:
Well sub-Type: INFILL

Describe sub-type:

Distance to town: 24 Miles Distance to nearest well: 35 FT Distance to lease line: 20 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: MesaVerdeWCUnit40H_C102_20191218074149.pdf

MesaVerdeWCUnit40H_Supplemental_20191218074155.pdf

MesaVerdeWCUnit40H_SitePlan_20191218074209.pdf

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

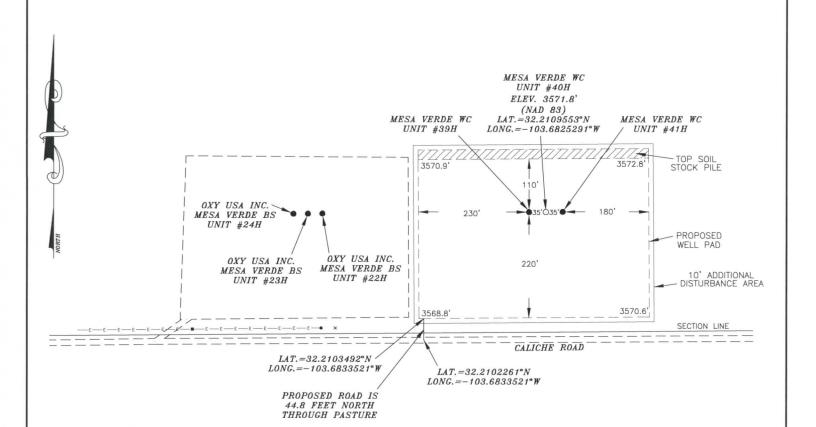
| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|----------|----------------------|--------|-------------------|----------|------------|--------------|---------------|-----------|-----------|--|
| SHL Leg #1 | 250 | FSL | 175 0 | FW L | 24S | 32E | 16 | Aliquot SESW | | - 103.6825 291 | LEA | NEW MEXI CO | 114-44 | F | FEE | 357 2 | 0 | 0 | Y |
| KOP Leg #1 | 50 | FSL | 137 0 | FW L | 24S | 32E | 16 | Aliquot SESW | | - 103.6837 58 | LEA | NEW MEXI CO | 1.4-44 | F | FEE | - 953 3 | 134 68 | 131 05 | N |

Well Name: MESA VERDE WC UNIT Well Number: 40H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|--------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|---------------|---------------|-----------|-----------|--|
| PPP Leg #1-1 | 100 | FSL | 137 0 | FW L | 24S | 32E | 16 | Aliquot SESW | 32.21054 08 | - 103.6837 58 | LEA | NEW MEXI CO | NEW MEXI CO | F | FEE | - 953 6 | 135 14 | 131 08 | Υ |
| PPP Leg #1-2 | 9 | FSL | 136 6 | FW L | 24S | 32E | 9 | Aliquot SESW | 32.22475 8 | - 103.6837 65 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 55953 | - 953 6 | 186 86 | 131 08 | Υ |
| EXIT Leg #1 | 100 | FNL | 137 0 | FW L | 24S | 32E | 9 | Aliquot NENW | 32.23902 79 | - 103.6837 717 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 55953 | - 953 6 | 238 78 | 131 08 | Υ |
| BHL Leg #1 | 20 | FNL | 137 0 | FW L | 24S | 32E | 9 | Aliquot NENW | 32.23924 78 | - 103.6837 718 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 55953 | - 953 6 | 239 58 | 131 08 | N |

OXY USA INC. MESA VERDE WC UNIT #40H SITE PLAN

FAA PERMIT: NO





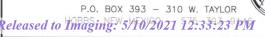
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO." AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Jerry J. April 20 M. P. D. S. No. 15070

Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying





--- - DENOTES PROPOSED ROAD

ZZZ - DENOTES STOCK PILE AREA

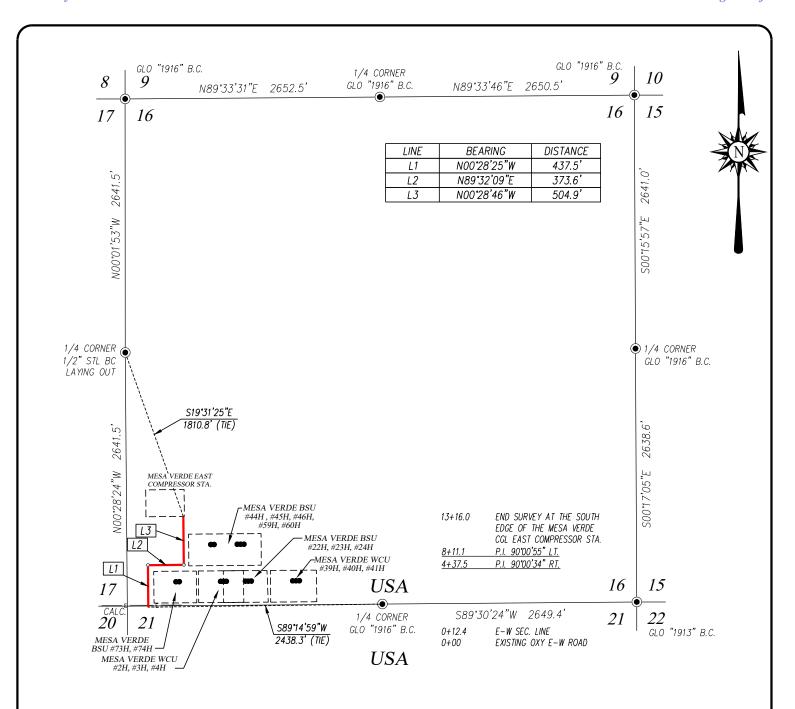
200' 0 200' 400' FEET

SCALE: 1"=200'

OXY USA INC.

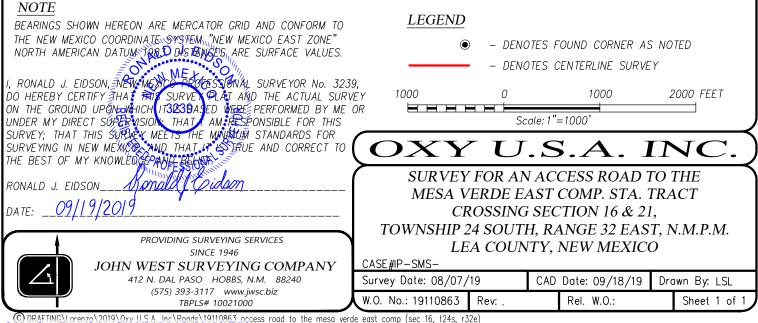
MESA VERDE WC UNIT #40H LOCATED AT 250' FSL & 1750' FWL IN SECTION 16, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

| Survey Date: 06/26/19 | Sheet 1 | 01 | f 1 | Sheets |
|-------------------------|-----------|----|---------|--------|
| W.O. Number: 190626WL-c | Drawn By: | KA | Rev: | |
| Date: 07/15/19 | 190626WL- | -с | Scale:1 | "=200' |



DESCRIPTION

SURVEY FOR A STRIP OF LAND 30.0 FEET WIDE AND 1316.0 FEET OR 0.249 MILES IN LENGTH CROSSING USA LAND IN SECTIONS 16 & 21, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.





APD ID: 10400052493

Well Type: OIL WELL

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

Drilling Plan Data Report

Submission Date: 12/18/2019

Submission Date. 12/10/2019

Highlighted data reflects the most recent changes

Well Number: 40H Show Final Text

Well Work Type: Drill

Well Name: MESA VERDE WC UNIT

Section 1 - Geologic Formations

| Formation | Francisco Novo | Ele effect | True Vertical | | L Martantan | Maria de la Companya | Producing |
|-----------|-----------------|------------|---------------|-------|--|---|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | |
| 611162 | RUSTLER | 3572 | 906 | 906 | ANHYDRITE, DOLOMITE, SHALE | USEABLE WATER | N |
| 611163 | SALADO | 2354 | 1218 | 1218 | ANHYDRITE, DOLOMITE, HALITE, SHALE | OTHER : SALT | N |
| 611164 | CASTILE | 442 | 3130 | 3130 | ANHYDRITE | OTHER : Salt | N |
| 611155 | LAMAR | -1147 | 4719 | 4719 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | N |
| 611156 | BELL CANYON | -1171 | 4743 | 4743 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | N |
| 611157 | CHERRY CANYON | -2057 | 5629 | 5629 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | N |
| 611160 | BRUSHY CANYON | -3370 | 6942 | 6942 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL, OTHER : BRINE | N |
| 611161 | BONE SPRING | -5081 | 8653 | 8680 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL | Y |
| 612840 | BONE SPRING 1ST | -6167 | 9739 | 9782 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL | Y |
| 612841 | BONE SPRING 2ND | -6767 | 10339 | 10392 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL | Y |
| 612842 | BONE SPRING 3RD | -8059 | 11631 | 11704 | LIMESTONE, SANDSTONE, SILTSTONE | NATURAL GAS, OIL | Y |
| 612843 | WOLFCAMP | -8505 | 12077 | 12153 | SANDSTONE, SILTSTONE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 13108

Equipment: 13-5/8" 5M Annular, 5M &10M Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded

Well Name: MESA VERDE WC UNIT Well Number: 40H

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. A multibowl wellhead 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 Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system will 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. 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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan. BOP break test under the following conditions: After a full BOP test is conducted -When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower. - When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper. If the kill line is broken prior to skid, two tests will be performed. 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams 2) Wellhead flange, HCR valve, check valve, upper pipe rams If the kill line is not broken prior to skid, only one test will be performed. 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

Choke Diagram Attachment:

MesaVerdeWCUnit40H_ChokeManifold_20191218080435.pdf

BOP Diagram Attachment:

MesaVerdeWCUnit40H_FlexHoseCert_20191218080444.pdf

MesaVerdeWCUnit40H BOP 20191218080623.pdf

MesaVerdeWCUnit40H_WellControlPlan_20191218080656.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|------------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 14.7 5 | 10.75 | NEW | API | N | 0 | 1158 | 0 | 1158 | 3572 | 2414 | 1158 | J-55 | 40.5 | BUTT | 1.12 5 | 1.2 | BUOY | 1.4 | BUOY | 1.4 |
| 2 | INTERMED IATE | 9.87 5 | 7.625 | NEW | API | N | 0 | 12613 | 0 | 12535 | | -8963 | 12613 | HCL -80 | 26.4 | BUTT | 1.12 5 | 1.2 | BUOY | 1.4 | BUOY | 1.4 |
| 3 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 0 | 23958 | 0 | 13108 | 3573 | -9536 | 23958 | P- 110 | | L | 1.12 5 | 1.2 | BUOY | 1.4 | BUOY | 1.4 |

Casing Attachments

Well Name: MESA VERDE WC UNIT Well Number: 40H

| Casing | Attachments |
|--------|--------------------|
| | |

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

MesaVerdeWCUnit40H_CsgCriteria_20191218080747.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

MesaVerdeWCUnit40H_CsgCriteria_20191218080902.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $MesaVer de WCUnit 40 H_CsgCriteria_20191218081016.pdf$

MesaVerdeWCUnit40H_5.500in_x_20_20191218081107.00

MesaVerdeWCUnit40H_5.500in_x_20_20191218081112.00

MesaVerdeWCUnit40H_5.500in_x_20_20191218081118.00

Well Name: MESA VERDE WC UNIT Well Number: 40H

| Section | 4 - Ce | emen | t | | | | | | | | |
|--------------|-----------|---------------------|-----------|-----------|--------------|-------|---------|-------|---------|-------------|-------------------------------|
| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
| SURFACE | Lead | | 0 | 1158 | 955 | 1.33 | 14.8 | 1270 | 100 | Class C | Accelerator |
| INTERMEDIATE | Lead | 2 | 0 | 7192 | 884 | 1.92 | 12.9 | 1697 | 10 | CIC | Accelerator |
| INTERMEDIATE | Lead | 2 | 7192 | 1261 3 | 748 | 1.65 | 13.2 | 1234 | 5 | СІН | Retarder, Dispersant, Salt |
| | | | | | | | | | | | |
| PRODUCTION | Lead | | 1211 3 | 2395 7 | 868 | 1.38 | 13.2 | 1198 | 20 | Class H | Retarder, Dispersant, Salt |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Well Name: MESA VERDE WC UNIT Well Number: 40H

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | ЬН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|---|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1261 3 | 2395 7 | OTHER : Water- Based or Oil- Based Mud | 9.5 | 13.5 | | | | | | | |
| 0 | 1158 | WATER-BASED MUD | 8.6 | 8.8 | | | | | | | |
| 1158 | 1261 3 | OTHER: Saturated Brine- Based Mud or Oil-Based Mud | 8 | 10 | | | | | | | |

Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well vertical portion of hole). Mud Log from intermediate casing shoe to TD.

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

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 9202 Anticipated Surface Pressure: 6318

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

MesaVerdeWCUnit40H_H2S1_20191218081921.pdf
MesaVerdeWCUnit40H_H2S2_20191218082019.pdf
MesaVerdeWCUnit40H_H2SEmerCont_20191218082046.pdf

Well Name: MESA VERDE WC UNIT Well Number: 40H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MesaVerdeWCUnit40H_DirectPlot_20191218082119.pdf MesaVerdeWCUnit40H_DirectPlan_20191218082125.pdf

Other proposed operations facets description:

As per the agreement reached in the OXY/BLM meeting on Feb 22, 2018, OXY requests permission to allow deviation from the 0.422 annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422 between intermediate casing ID and production casing coupling only on the first 500 overlap between both casings.
- 2. Annular clearance less than 0.422 is acceptable for the curve and lateral portions of the production open hole section.

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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan. BOP break test under the following conditions:

After a full BOP test is conducted

- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- -When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper. If the kill line is broken prior to skid, two tests will be performed.
- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams
- If the kill line is not broken prior to skid, only one test will be performed.
- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

Well will be drilled with a walking/skidding operation. Plan to drill the multiple 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.

OXY requests to pump a two stage Intermediate casing cement job with the first stage being pumped conventionally with the calculated TOC @ the Bone Spring and the second stage performed as a bradenhead squeeze with planned cement from the top of the Bone Spring to Surface.

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.

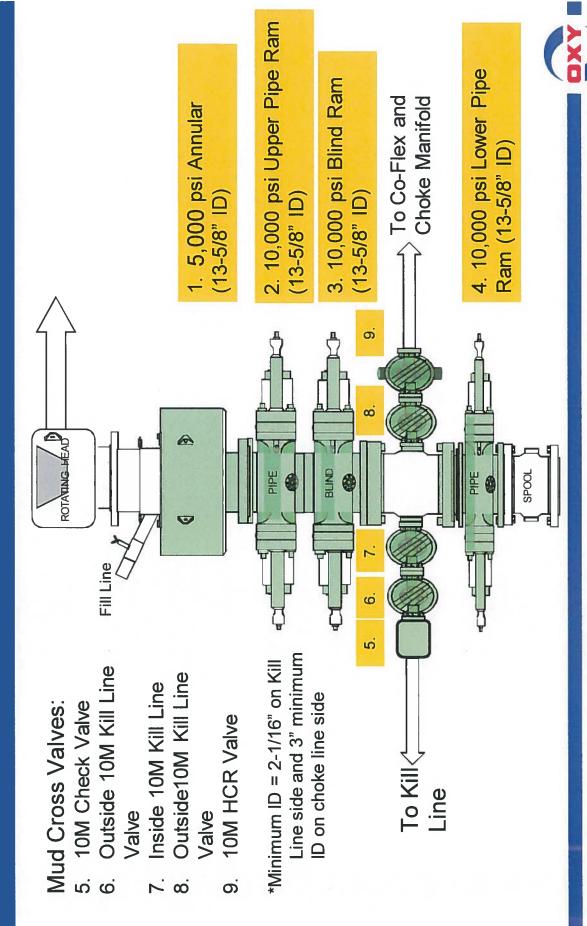
- CBL will be required on one well per pad
- 2. If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Other proposed operations facets attachment:

MesaVerdeWCUnit40H_DrillPlan_20191218082256.pdf
MesaVerdeWCUnit40H_GasCapPlan_20191218082304.pdf
MesaVerdeWCUnit40H_SpudRigData_20191218082312.pdf

Other Variance attachment:

5/10M BOP Stack



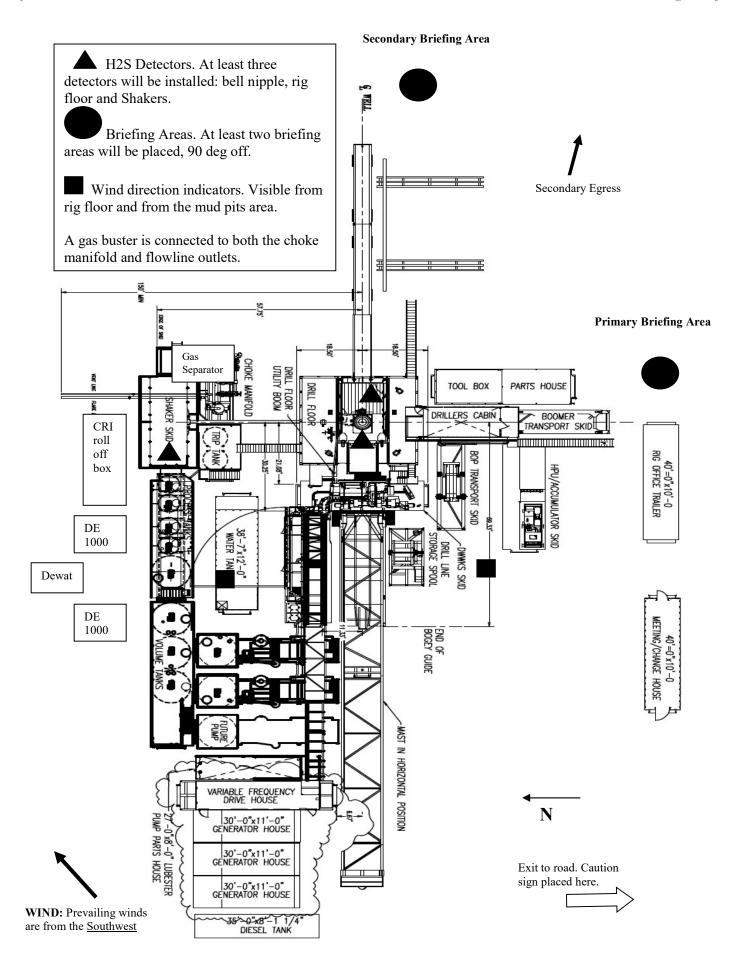


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Mesa Verde WC Unit 40H

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 This section outlines the conditions and denotes steps

Procedure: to be taken in the event of an emergency.

Emergency equipment This section outlines the safety and emergency

Procedure: 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 briefing

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 BLM Onshore Order #2.

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.

```
green – normal conditions
yellow – potential danger
red – danger, H2S present
```

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:

- 1. 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.

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

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 | 7* | Date: |
|------------|-----|--------|
| Checken by | / • | . 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 | Chemical | Specific | Threshold | Hazardous | Lethal concentration |
|----------|----------|----------|------------|------------|----------------------|
| name | formula | gravity | limit | limit | (3) |
| | | (sc=1) | (1) | (2) | |
| Hydrogen | Hen | 0.94 | 10 ppm | 150 ppm/hr | 300 ppm |
| Cyanide | | | • • | ** | ** |
| Hydrogen | H2S | 1.18 | 10 ppm | 250 ppm/hr | 600 ppm |
| Sulfide | | | • • | ** | ** |
| Sulfur | So2 | 2.21 | 5 ppm | - | 1000 ppm |
| Dioxide | | | * * | | ** |
| Chlorine | C12 | 2.45 | 1 ppm | 4 ppm/hr | 1000 ppm |
| | | | ** | ** | ** |
| Carbon | Co | 0.97 | 50 ppm | 400 ppm/hr | 1000 ppm |
| Monoxide | | | 11 | 11 | ** |
| Carbon | Co2 | 1.52 | 5000 ppm | 5% | 10% |
| Dioxide | | | 11 | | |
| Methane | Ch4 | 0.55 | 90,000 ppm | Combustibl | e 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 (%) | <u>Ppm</u> | 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 face-piece 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



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde WC Unit Well: Mesa Verde WC Unit 40H

Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

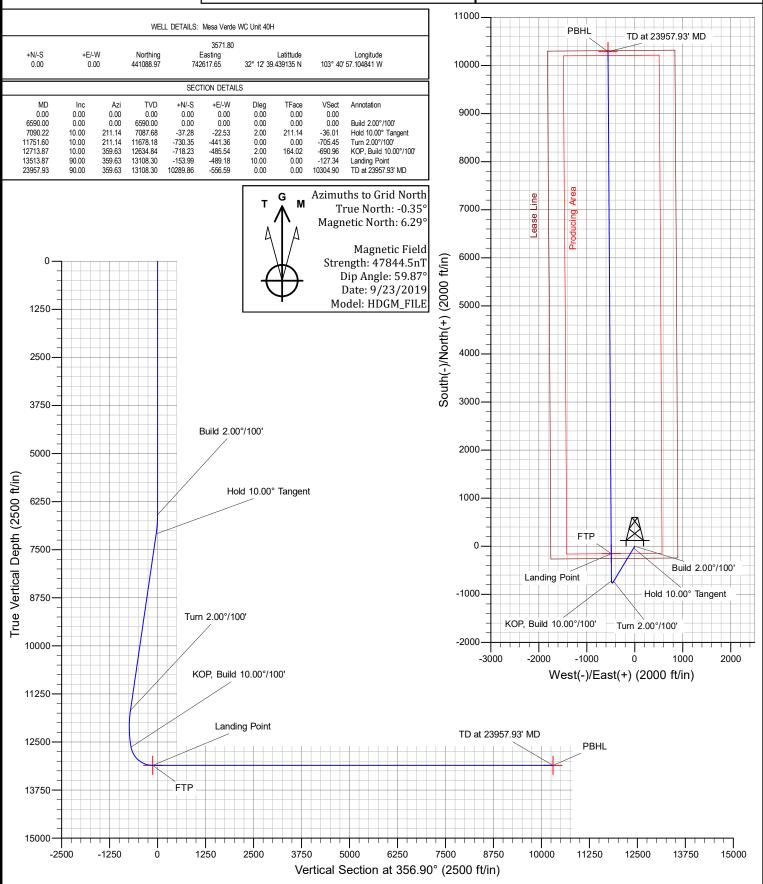
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Mesa Verde WC Unit Mesa Verde WC Unit 40H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

23 September, 2019

Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde WC Unit Well: Mesa Verde WC Unit 40H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Mesa Verde WC Unit

Northing: 441,172.41 usft Site Position: Latitude: 32° 12' 40.751543 N From: Мар Easting: 734,323.24 usft Longitude: 103° 42' 33.640877 W **Position Uncertainty:** 50.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.33°

Well Mesa Verde WC Unit 40H

Well Position +N/-S -83 44 ft Northing: 441,088.97 usft Latitude: 32° 12' 39.439135 N 742,617.65 usft +E/-W 8,294.83 ft Easting: Longitude: 103° 40' 57.104841 W

Position Uncertainty 1.00 ft Wellhead Elevation: **Ground Level:** 3,571.80 ft

Wellbore #1 Wellbore Declination Field Strength **Dip Angle** Magnetics **Model Name** Sample Date (°) (°) (nT) 47.844.50000000 HDGM FILE 9/23/2019 6.63 59.87

Design Permitting Plan Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Depth From (TVD) Direction **Vertical Section:** +N/-S +E/-W (ft) (ft) (ft) (°) 0.00 0.00 0.00 356.90

B001Mb MWD+HRGM

Plan Survey Tool Program Date 9/23/2019 **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks

OWSG MWD + HRGM

23,957.93 Permitting Plan (Wellbore #1)

Plan Sections Measured Vertical Dogleg Build Turn Depth Depth Rate Rate Rate Inclination +N/-S **Azimuth** +E/-W **TFO** (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (°) (°) (ft) (ft) **Target** (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6,590.00 0.00 0.00 6,590.00 0.00 0.00 0.00 0.00 0.00 0.00 7,087.68 0.00 7,090.22 10.00 211.14 -37.28-22.532.00 2.00 211.14 11.751.60 10.00 211.14 11.678.18 -730.35 -441.36 0.00 0.00 0.00 0.00 10.00 359.63 12,634.84 -485.54 2 00 0.00 15.43 164 02 12 713 87 -718 23 13.513.87 90.00 359.63 13,108.30 -153.99-489.18 10.00 10.00 0.00 0.00 FTP (Mesa Verde 0.00 PBHL (Mesa Verde 23,957.93 90.00 359.63 13,108.30 10,289.86 -556.59 0.00 0.00 0.00

0.00

Planning Report

Database: HOPSPP Company:

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983) Project:

Site: Mesa Verde WC Unit Well: Mesa Verde WC Unit 40H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

| anned 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 |
| 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 |
| | 0.00 | | | | | | | | |
| 1,700.00 | | 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 |
| 2 000 00 | 0.00 | 0.00 | 2 000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | | 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 |
| 0.500.00 | 0.00 | 0.00 | 2 500 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 |
| 4 500 00 | 0.00 | 0.00 | 4 500 00 | | 0.00 | | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: HOPSPP Company: ENGINEE

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde WC Unit
Well: Mesa Verde WC Unit 40H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

| Planned Survey | Design. | remining Fig | an | | | | | | | |
|---|----------------|--------------|--------|-----------|---------|---------|---------|------|------|------|
| Depth | Planned Survey | | | | | | | | | |
| 5,500.00 0.00 5,500.00 | Depth | | | Depth | | | Section | Rate | Rate | Rate |
| \$600.00 0.00 0.00 5,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 5,400.00 | 0.00 | 0.00 | 5,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,700.00 0.00 0.00 5,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | | | , | | | | | | |
| 5,800.00 0.00 0.00 5,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | | | , | | | | | | |
| 6,990,00 0,00 0,00 6,000,00 | | | | | | | | | | |
| 6,100,00 | | | | | | | | | | |
| 6,100,00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300,00 | 6,100.00 | 0.00 | 0.00 | 6,100.00 | | 0.00 | 0.00 | 0.00 | | |
| 6.400.00 0.00 0.00 6.500.00 0.00 0.00 0.00 | 6,200.00 | 0.00 | 0.00 | 6,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 0.00 0.00 6,500.00 | 6,300.00 | 0.00 | 0.00 | 6,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6.580.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 6,400.00 | 0.00 | 0.00 | 6,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,600.00 0.20 211.14 6,600.00 -0.01 -0.01 -0.01 2.00 2.00 0.00 6,700.00 2.20 211.14 6,699.97 -1.81 -1.09 -1.75 2.00 2.00 0.00 0.00 6,800.00 4.20 211.14 6,899.81 -6.58 -3.98 -6.36 2.00 2.00 0.00 0.00 6,800.00 6.20 211.14 6,899.80 -1.4.34 -8.67 -13.85 2.00 2.00 0.00 0.00 7,000.00 8.20 211.14 6,899.80 -2.507 -15.15 -24.21 2.00 2.00 0.00 7,000.00 8.20 211.14 7,987.81 -38.74 23.41 -37.42 0.00 0.00 0.00 7,000.00 211.14 7,087.86 -37.28 -22.53 -36.01 2.00 2.00 0.00 0.00 7,200.00 10.00 211.14 7,997.31 -38.74 23.44 -37.42 0.00 0.00 0.00 0.00 7,200.00 10.00 211.14 7,795.79 -53.60 -32.39 -51.78 0.00 0.00 0.00 0.00 7,400.00 10.00 211.14 7,292.75 -83.34 -50.38 -80.50 0.00 0.00 0.00 0.00 7,400.00 10.00 211.14 7,595.79 -83.34 -50.38 -80.50 0.00 0.00 0.00 0.00 7,400.00 10.00 211.14 7,595.71 -113.06 -88.33 -109.22 0.00 0.00 0.00 0.00 7,700.00 10.00 211.14 7,568.71 -113.06 -88.33 -109.22 0.00 0.00 0.00 0.00 7,000 0.00 10.00 211.14 7,7688.71 -13.06 -88.33 -109.22 0.00 0.00 0.00 0.00 7,900.00 10.00 211.14 7,7885.75 -127.75 -77.32 -123.58 0.00 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.29 1.22.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,082.11 -187.42 11.13.26 -181.03 0.00 0.00 0.00 8,000.00 10.00 211.14 8,808.21 1-187.45 -142.81 -86.30 -137.94 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,808.21 1-187.45 -142.81 -96.30 -137.94 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,874.55 -232.02 -122.24 -195.39 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,874.55 -232.02 -122.24 -195.39 0.00 0.00 0.00 0.00 9,000 8,000.00 10.00 211.14 8,874.51 -261.76 1.58 8 -24.25 84 0.00 0.00 0.00 0.00 9,000 9,000 10.00 211.14 8,874.53 -232.02 -122.24 -195.39 0.00 0.00 0.00 0.00 9,000 9,000 10.00 211.14 8,874.53 -232.02 -122.24 -195.39 0.00 0.00 0.00 0.00 9,000 9,000 10.00 211.14 8,874.53 -365.84 -365.74 -365.84 -365.74 -365.84 -00.00 0.00 0.00 0.00 9,000 0.00 0.00 0.0 | 6,500.00 | 0.00 | 0.00 | 6,500.00 | | | 0.00 | 0.00 | | 0.00 |
| 6,700.00 | | | 0.00 | | | | | | | |
| 6,800.00 4.20 211.14 6,799.81 -6.58 -3.98 -6.36 2.00 2.00 0.00 6,900.00 6.20 211.14 6,899.40 -14.34 -8.67 -13.85 2.00 2.00 0.00 0.00 7,000.00 8.20 211.14 6,998.60 -25.07 -15.15 -24.21 2.00 2.00 0.00 7,000.00 7,000.22 10.00 211.14 7,087.68 -37.28 -22.53 -36.01 2.00 2.00 0.00 0.00 7,000.00 10.00 211.14 7,087.61 -38.74 23.41 -37.42 0.00 0.00 0.00 0.00 7,200.00 10.00 211.14 7,195.79 -53.60 32.39 -51.78 0.00 0.00 0.00 0.00 7,400.00 10.00 211.14 7,392.75 -83.34 -50.38 -80.50 0.00 0.00 0.00 7,400.00 10.00 211.14 7,595.71 -13.00 6.83 33 -109.22 0.00 0.00 0.00 7,600.00 10.00 211.14 7,589.71 -113.00 6.83 33 -109.22 0.00 0.00 0.00 0.00 7,000.00 10.00 211.14 7,589.71 -13.00 6.83 33 -109.22 0.00 0.00 0.00 0.00 7,000.00 10.00 211.14 7,589.71 -13.00 6.83 33 -109.22 0.00 0.00 0.00 0.00 7,000.00 10.00 211.14 7,585.71 -13.00 6.83 33 -109.22 0.00 0.00 0.00 0.00 7,000.00 10.00 211.14 7,586.67 1.42.81 8.63.00 1.37.94 0.00 0.00 0.00 0.00 7,000.00 10.00 211.14 7,586.67 1.42.81 8.65.00 1.37.94 0.00 0.00 0.00 0.00 7,000 0.00 10.00 211.14 7,586.81 1.47.88 1.57.88 95.29 1.52.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 7,885.15 1.57.68 95.29 1.52.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,082.11 1.87.42 1.13.26 1.81.03 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,808.21 1.187.42 1.13.26 1.81.03 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,737.55 -232.02 1.12.24 1.95.39 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,771.46 2.91.50 1.40.24 1.95.39 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,771.46 2.91.50 1.40.24 1.22.24 1.1 0.00 0.00 0.00 0.00 9,000 0.00 1.00 211.14 8,689.34 2.32 1.23 1.94.20 2.38.47 0.00 0.00 0.00 0.00 9,000 0.00 0.00 0.0 | | | | | | | | | | |
| 6,900.00 6.20 211.14 6,899.40 -14.34 -8.67 -13.85 2.00 2.00 0.00 7,000.00 8.20 211.14 6,998.60 -25.07 -15.15 -24.21 2.00 2.00 0.00 7,090.22 10.00 211.14 7,097.81 -37.28 -22.53 -36.01 2.00 2.00 0.00 7,100.00 10.00 211.14 7,097.31 -38.74 -23.41 -37.42 0.00 0.00 0.00 7,200.00 10.00 211.14 7,195.79 -53.60 -32.39 -51.78 0.00 0.00 0.00 7,200.00 10.00 211.14 7,392.75 -83.34 -50.36 -80.50 0.00 0.00 0.00 7,400.00 10.00 211.14 7,392.75 -83.34 -50.36 -80.50 0.00 0.00 0.00 7,500.00 10.00 211.14 7,898.71 -113.08 -86.33 -109.22 0.00 0.00 0.00 7,500.00 10.00 211.14 7,889.71 -113.08 -86.33 -109.22 0.00 0.00 0.00 7,500.00 10.00 211.14 7,886.19 -127.95 -77.32 -123.58 0.00 0.00 0.00 7,500.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.22 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,882.11 -187.42 -113.26 -181.03 0.00 0.00 0.00 8,000.00 10.00 211.14 8,882.11 -187.42 -113.26 -181.03 0.00 0.00 0.00 8,000.00 10.00 211.14 8,882.11 -187.42 -113.26 -181.03 0.00 0.00 0.00 8,000.00 10.00 211.14 8,882.11 -187.42 -113.26 -181.03 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -270.22 -122.34 10.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -270.22 -122.34 10.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -270.22 -122.34 10.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -230.22 1-40.27 1-60.67 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -270.29 1-22.41 10.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -230.00 1.00 2.00 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,877.55 -230.00 1.00 2.00 0.00 0.00 0.00 0.00 0.00 | | | | | | | | | | |
| 7,000.00 7,000.22 10.00 11.14 7,087.68 7,087.28 7,087.68 7,100.00 10.00 10.00 211.14 7,097.31 -38.74 -23.41 -37.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 6,800.00 | 4.20 | 211.14 | 6,799.81 | -6.58 | -3.98 | -6.36 | 2.00 | 2.00 | 0.00 |
| 7,090.02 | 6,900.00 | 6.20 | 211.14 | 6,899.40 | -14.34 | -8.67 | -13.85 | 2.00 | 2.00 | 0.00 |
| 7,100.00 10.00 211.14 7,097.31 -38.74 -23.41 -37.42 0.00 0.00 0.00 0.00 7,200.00 10.00 211.14 7,195.79 -53.60 -32.39 -51.78 0.00 0.00 0.00 0.00 7,300.00 10.00 211.14 7,392.75 -83.34 -50.36 80.50 0.00 0.00 0.00 0.00 7,500.00 10.00 211.14 7,392.75 -83.34 -50.36 80.50 0.00 0.00 0.00 0.00 7,500.00 10.00 211.14 7,491.23 -88.21 -59.35 -94.88 0.00 0.00 0.00 0.00 7,600.00 10.00 211.14 7,580.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 0.00 7,600.00 10.00 211.14 7,580.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 0.00 7,700.00 10.00 211.14 7,588.19 -127.95 -77.32 -123.58 0.00 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 7,885.15 -157.68 -95.29 -162.31 0.00 0.00 0.00 0.00 8,100.00 10.00 211.14 8,882.11 -187.42 -113.26 -166.67 0.00 0.00 0.00 0.00 8,100.00 10.00 211.14 8,180.59 -202.29 -122.24 -195.39 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,377.55 -232.02 140.21 -224.11 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,377.55 -232.02 140.21 -224.11 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,377.55 -232.02 140.21 -224.11 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,574.51 -261.76 158.18 252.84 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,574.51 -261.76 158.18 252.84 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,574.51 -261.76 158.18 252.84 0.00 0.00 0.00 0.00 9,000 9,000.00 10.00 211.14 8,689.94 -306.37 -185.14 -295.92 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 8,968.42 -321.23 -194.12 -310.28 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 8,968.42 -321.23 -194.12 -310.28 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 9,965.32 -326.84 -326.84 -321.33 -194.12 -310.28 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 9,965.36 -365.84 -221.08 -335.37 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 9,965.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 0.00 9,000.00 10.00 211.14 9,965.27 449.99 -339.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 7,000.00 | | | 6,998.60 | | | | | | |
| 7,200.00 10.00 211.14 7,195.79 -53.60 -32.39 -51.78 0.00 0.00 0.00 7,300.00 10.00 211.14 7,294.27 -68.47 -41.38 -66.14 0.00 0.00 0.00 7,500.00 10.00 211.14 7,392.75 -88.34 -59.35 -94.86 0.00 0.00 0.00 7,600.00 10.00 211.14 7,589.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 7,700.00 10.00 211.14 7,588.71 -113.08 -86.30 -137.94 0.00 0.00 0.00 7,800.00 10.00 211.14 7,786.67 -142.81 -86.30 -137.94 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 8,000.00 10.00 211.14 8,082.11 -187.482 -143.26 -180.37 0.00 0.00 0.00 | | | | , | | | | | | |
| 7,300.00 10.00 211.14 7,294.27 -68.47 -41.38 -66.14 0.00 0.00 0.00 7,400.00 10.00 211.14 7,392.75 -83.34 -50.36 -80.50 0.00 0.00 0.00 7,500.00 10.00 211.14 7,599.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 7,700.00 10.00 211.14 7,686.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 7,800.00 10.00 211.14 7,786.67 -142.81 -86.30 -137.94 0.00 0.00 0.00 7,900.00 10.00 211.14 7,786.67 -142.81 -86.30 -137.94 0.00 0.00 0.00 8,000.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 8,100.00 10.00 211.14 8,180.59 -202.29 -122.24 -195.39 0.00 0.00 0.0 | | | | | | | | | | |
| 7,400.00 10.00 211.14 7,392.75 83.34 -50.36 -80.50 0.00 0.00 0.00 0.00 7,500.00 10.00 211.14 7,491.23 -98.21 -59.35 -70.22 0.00 0.00 0.00 0.00 7,600.00 10.00 211.14 7,589.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 0.00 7,700.00 10.00 211.14 7,589.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 0.00 7,700.00 10.00 211.14 7,788.67 -142.81 -86.30 -137.94 0.00 0.00 0.00 7,900.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 7,885.15 -157.68 -95.29 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,180.59 -202.29 122.24 -195.39 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,889.94 -202.29 122.24 -195.39 0.00 0.00 0.00 0.00 8,300.00 10.00 211.14 8,476.03 -246.89 149.20 -238.47 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,574.51 -261.76 158.18 -252.84 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,672.98 -276.63 -167.17 -267.20 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,672.98 -276.63 -167.17 -267.20 0.00 0.00 0.00 0.00 9,00 0.00 0.00 0.0 | 7,200.00 | 10.00 | 211.14 | 7,195.79 | -53.60 | -32.39 | -51.78 | 0.00 | 0.00 | 0.00 |
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| 7,600.00 10.00 211.14 7,588.71 -113.08 -68.33 -109.22 0.00 0.00 0.00 7,700.00 10.00 211.14 7,588.19 -127.95 -77.32 -123.58 0.00 0.00 0.00 0.00 7,800.00 10.00 211.14 7,886.15 -157.88 -95.29 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 7,885.15 -157.88 -95.29 -152.31 0.00 0.00 0.00 0.00 8,000.00 10.00 211.14 8,885.15 -157.88 -95.29 -152.31 0.00 0.00 0.00 0.00 8,100.00 10.00 211.14 8,808.211 -187.42 -132.6 -181.03 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,180.59 -202.29 -122.24 -195.39 0.00 0.00 0.00 0.00 8,200.00 10.00 211.14 8,279.07 -217.16 -131.23 -299.75 0.00 0.00 0.00 0.00 8,500.00 10.00 211.14 8,476.03 -246.89 -149.20 -238.47 0.00 0.00 0.00 8,500.00 10.00 211.14 8,574.51 -261.76 -158.18 -252.84 0.00 0.00 0.00 0.00 8,700.00 10.00 211.14 8,672.98 -276.63 -167.17 -267.20 0.00 0.00 0.00 8,700.00 10.00 211.14 8,869.94 -306.37 -185.14 -295.92 0.00 0.00 0.00 0.00 8,900.00 10.00 211.14 8,869.84 -336.37 -185.14 -295.92 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 8,869.84 -336.37 -185.14 -295.92 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 8,968.42 -321.23 -194.12 -310.28 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.24 -395.58 -239.06 -367.73 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.39 -336.10 -203.11 -324.64 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.39 -336.10 -203.11 -324.64 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.39 -336.00 -336.10 -203.11 -324.64 0.00 0.00 0.00 0.00 9,900.00 10.00 211.14 9,968.39 -336.00 -336.10 -203.11 -324.64 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 7,400.00 | | | | | | | 0.00 | | |
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| 9,100.00 10.00 211.14 9,066.90 -336.10 -203.11 -324.64 0.00 0.00 0.00 9,200.00 10.00 211.14 9,165.38 -350.97 -212.09 -339.00 0.00 0.00 0.00 9,300.00 10.00 211.14 9,263.86 -365.84 -221.08 -353.37 0.00 0.00 0.00 9,400.00 10.00 211.14 9,362.34 -380.71 -230.06 -367.73 0.00 0.00 0.00 9,500.00 10.00 211.14 9,460.82 -395.58 -239.05 -382.09 0.00 0.00 0.00 9,600.00 10.00 211.14 9,559.30 -410.45 -248.03 -396.45 0.00 0.00 0.00 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 | | | | | | | | | | |
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| 9,300.00 10.00 211.14 9,263.86 -365.84 -221.08 -353.37 0.00 0.00 0.00 9,400.00 10.00 211.14 9,362.34 -380.71 -230.06 -367.73 0.00 0.00 0.00 9,500.00 10.00 211.14 9,460.82 -395.58 -239.05 -382.09 0.00 0.00 0.00 9,600.00 10.00 211.14 9,559.30 -410.45 -248.03 -396.45 0.00 0.00 0.00 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 | | | | | | | | | | |
| 9,400.00 10.00 211.14 9,362.34 -380.71 -230.06 -367.73 0.00 0.00 0.00 9,500.00 10.00 211.14 9,460.82 -395.58 -239.05 -382.09 0.00 0.00 0.00 9,600.00 10.00 211.14 9,559.30 -410.45 -248.03 -396.45 0.00 0.00 0.00 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,300.00 10.00 211.14 10,150.18 -499.66 | | | | | | | | | | |
| 9,500.00 10.00 211.14 9,460.82 -395.58 -239.05 -382.09 0.00 0.00 0.00 9,600.00 10.00 211.14 9,559.30 -410.45 -248.03 -396.45 0.00 0.00 0.00 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514. | | | | | | | | | | |
| 9,600.00 10.00 211.14 9,559.30 -410.45 -248.03 -396.45 0.00 0.00 0.00 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -52 | · · | | | | | | | | | |
| 9,700.00 10.00 211.14 9,657.78 -425.31 -257.02 -410.81 0.00 0.00 0.00 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 9,800.00 10.00 211.14 9,756.26 -440.18 -266.00 -425.17 0.00 0.00 0.00 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | · · | | | | | | | | | |
| 9,900.00 10.00 211.14 9,854.74 -455.05 -274.99 -439.53 0.00 0.00 0.00 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 10,000.00 10.00 211.14 9,953.22 -469.92 -283.97 -453.89 0.00 0.00 0.00 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 10,100.00 10.00 211.14 10,051.70 -484.79 -292.96 -468.26 0.00 0.00 0.00 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 10,200.00 10.00 211.14 10,150.18 -499.66 -301.94 -482.62 0.00 0.00 0.00 10,300.00 10.00 211.14 10,248.66 -514.52 -310.93 -496.98 0.00 0.00 0.00 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | | | | | | | | | | |
| 10,400.00 10.00 211.14 10,347.14 -529.39 -319.91 -511.34 0.00 0.00 0.00 | 10.300.00 | 10.00 | 211.14 | 10.248.66 | -514.52 | -310.93 | -496.98 | 0.00 | 0.00 | 0.00 |
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Planning Report

Database: Company:

Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Well: Mesa Verde WC Unit Mesa Verde WC Unit 40H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

| 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) |
| 10,600.00 | 10.00 | 211.14 | 10,544.09 | -559.13 | -337.88 | -540.06 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 10.00 | 211.14 | 10,642.57 | -574.00 | -346.87 | -554.42 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 10.00 | 211.14 | 10,741.05 | -588.87 | -355.85 | -568.79 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 10.00 | 211.14 | 10,839.53 | -603.73 | -364.84 | -583.15 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 10.00 | 211.14 | 10,938.01 | -618.60 | -373.82 | -597.51 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 10.00 | 211.14 | 11,036.49 | -633.47 | -382.81 | -611.87 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 10.00 | 211.14 | 11,134.97 | -648.34 | -391.79 | -626.23 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 10.00 | 211.14 | 11,233.45 | -663.21 | -400.78 | -640.59 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 10.00 | 211.14 | 11,331.93 | -678.08 | -409.76 | -654.95 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 10.00 | 211.14 | 11,430.41 | -692.94 | -418.75 | -669.31 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 10.00 | 211.14 | 11,528.89 | -707.81 | -427.73 | -683.68 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 10.00 | 211.14 | 11,627.37 | -722.68 | -436.72 | -698.04 | 0.00 | 0.00 | 0.00 |
| 11,751.60 | 10.00 | 211.14 | 11,678.18 | -730.35 | -441.36 | -705.45 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 9.08 | 212.83 | 11,725.91 | -737.16 | -445.60 | -712.02 | 2.00 | -1.91 | 3.49 |
| 11,900.00 | 7.20 | 217.68 | 11,824.90 | -748.75 | -453.71 | -723.15 | 2.00 | -1.88 | 4.85 |
| 12,000.00 | 5.40 | 225.82 | 11,924.30 | -756.99 | -460.91 | -730.99 | 2.00 | -1.79 | 8.14 |
| 12,100.00 | 3.82 | 241.26 | 12,023.97 | -761.87 | -467.21 | -735.52 | 2.00 | -1.59 | 15.45 |
| 12,200.00 | 2.82 | 271.91 | 12,123.81 | -763.39 | -472.59 | -736.75 | 2.00 | -1.00 | 30.65 |
| 12,300.00 | 3.05 | 311.50 | 12,223.69 | -761.54 | -477.04 | -734.66 | 2.00 | 0.23 | 39.59 |
| 12,400.00 | 4.32 | 336.07 | 12,323.49 | -756.33 | -480.56 | -729.27 | 2.00 | 1.27 | 24.57 |
| 12,500.00 | 6.00 | 348.30 | 12,423.08 | -747.76 | -483.15 | -720.58 | 2.00 | 1.68 | 12.23 |
| 12,600.00 | 7.84 | 355.02 | 12,522.35 | -735.85 | -484.80 | -708.59 | 2.00 | 1.83 | 6.72 |
| 12,700.00 | 9.73 | 359.18 | 12,621.17 | -720.60 | -485.52 | -693.33 | 2.00 | 1.90 | 4.15 |
| 12,713.87 | 10.00 | 359.63 | 12,634.84 | -718.23 | -485.54 | -690.96 | 2.00 | 1.92 | 3.26 |
| 12,800.00 | 18.61 | 359.63 | 12,718.22 | -696.96 | -485.68 | -669.71 | 10.00 | 10.00 | 0.00 |
| 12,900.00 | 28.61 | 359.63 | 12,809.73 | -656.96 | -485.94 | -629.75 | 10.00 | 10.00 | 0.00 |
| 13,000.00 | 38.61 | 359.63 | 12,892.90 | -601.67 | -486.29 | -574.53 | 10.00 | 10.00 | 0.00 |
| 13,100.00 | 48.61 | 359.63 | 12,965.21 | -532.78 | -486.74 | -505.72 | 10.00 | 10.00 | 0.00 |
| 13,200.00 | 58.61 | 359.63 | 13,024.46 | -452.38 | -487.26 | -425.41 | 10.00 | 10.00 | 0.00 |
| 13,300.00 | 68.61 | 359.63 | 13,068.85 | -362.92 | -487.83 | -336.04 | 10.00 | 10.00 | 0.00 |
| 13,400.00 | 78.61 | 359.63 | 13,097.02 | -267.10 | -488.45 | -240.33 | 10.00 | 10.00 | 0.00 |
| 13,500.00 | 88.61 | 359.63 | 13,108.13 | -167.85 | -489.09 | -141.19 | 10.00 | 10.00 | 0.00 |
| 13,513.87 | 90.00 | 359.63 | 13,108.30 | -153.99 | -489.18 | -127.34 | 10.00 | 10.00 | 0.00 |
| 13,600.00 | 90.00 | 359.63 | 13,108.30 | -67.85 | -489.74 | -41.30 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 359.63 | 13,108.30 | 32.14 | -490.38 | 58.58 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 359.63 | 13,108.30 | 132.14 | -491.03 | 158.47 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 359.63 | 13,108.30 | 232.14 | -491.67 | 258.36 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 359.63 | 13,108.30 | 332.14 | -492.32 | 358.24 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 359.63 | 13,108.30 | 432.13 | -492.97 | 458.13 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 359.63 | 13,108.30 | 532.13 | -493.61 | 558.02 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 359.63 | 13,108.30 | 632.13 | -494.26 | 657.90 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 359.63 | 13,108.30 | 732.13 | -494.90 | 757.79 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 359.63 | 13,108.30 | 832.13 | -495.55 | 857.68 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 359.63 | 13,108.30 | 932.12 | -496.19 | 957.56 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 359.63 | 13,108.30 | 1,032.12 | -496.84 | 1,057.45 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 359.63 | 13,108.30 | 1,132.12 | -497.48 | 1,157.34 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 359.63 | 13,108.30 | 1,232.12 | -498.13 | 1,257.22 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 359.63 | 13,108.30 | 1,332.12 | -498.77 | 1,357.11 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 359.63 | 13,108.30 | 1,432.11 | -499.42 | 1,457.00 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 359.63 | 13,108.30 | 1,532.11 | -500.06 | 1,556.88 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 359.63 | 13,108.30 | 1,632.11 | -500.71 | 1,656.77 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 359.63 | 13,108.30 | 1,732.11 | -501.36 | 1,756.66 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 359.63 | 13,108.30 | 1,832.11 | -502.00 | 1,856.55 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 359.63 | 13,108.30 | 1,932.10 | -502.65 | 1,956.43 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: Company:

Well:

HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Mesa Verde WC Unit

Mesa Verde WC Unit Mesa Verde WC Unit 40H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

| Measured Planned Survey Measured Planned Survey | Design: | Permitting Pla | an | | | | | | | |
|--|-------------------|----------------|--------|-----------|----------|---------|----------|------|------|------|
| Moasured Depth | Planned Survey | | | | | | | | | |
| 15,800.00 90.00 359.63 13,108.30 2,132.10 -569.94 2,156.21 0.00 0.00 0.00 0.00 15,900.00 90.00 359.63 13,108.30 2,232.10 -566.23 2,255.98 0.00 0.00 0.00 0.00 16,000.00 90.00 359.63 13,108.30 2,532.99 -506.52 2,555.75 0.00 0.00 0.00 0.00 16,200.00 90.00 359.63 13,108.30 2,532.99 -507.61 2,655.64 0.00 0.00 0.00 16,400.00 90.00 359.63 13,108.30 2,532.99 -507.81 2,755.53 0.00 0.00 0.00 0.00 16,400.00 90.00 359.63 13,108.30 2,832.99 -507.81 2,755.53 0.00 0.00 0.00 0.00 16,600.00 90.00 359.63 13,108.30 2,832.08 -508.10 2,955.30 0.00 0.00 0.00 0.00 16,600.00 90.00 359.63 13,108.30 2,832.08 -508.10 2,955.30 0.00 0.00 0.00 0.00 16,600.00 90.00 359.63 13,108.30 3,322.08 -508.10 2,955.30 0.00 0.00 0.00 0.00 16,900.00 90.00 359.63 13,108.30 3,322.08 -508.10 2,955.30 0.00 0.00 0.00 0.00 16,900.00 90.00 359.63 13,108.30 3,332.08 -508.10 2,955.30 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,348.85 0.00 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,348.85 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,548.85 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,548.47 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,548.47 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,548.47 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,548.47 0.00 0. | Measured Depth | | | Depth | | | Section | Rate | Rate | Rate |
| 15,000.00 90.00 359.63 13,108.30 2,232.10 -504.56 2,255.67 0.00 0.00 0.00 0.00 16,000.00 90.00 359.63 13,108.30 2,432.09 -506.67 2,455.87 0.00 0.00 0.00 0.00 16,200.00 90.00 359.63 13,108.30 2,525.09 -507.66 2,555.75 0.00 0.00 0.00 0.00 16,300.00 90.00 359.63 13,108.30 2,525.09 -507.61 2,555.75 0.00 0.00 0.00 0.00 16,400.00 90.00 359.63 13,108.30 2,525.09 -507.61 2,555.53 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 2,522.09 -507.61 2,555.53 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 2,532.08 -500.61 2,555.30 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 3,032.08 -500.01 2,555.30 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 3,032.08 -500.01 2,555.30 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 3,332.08 -500.75 3,055.19 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 3,332.08 -500.75 3,055.19 0.00 0.00 0.00 0.00 16,500.00 90.00 359.63 13,108.30 3,332.08 -510.40 39 3,155.07 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.00 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,344.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 9,544.70 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 9,544.70 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 9,544.70 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.00 90.00 90.00 359.63 13,108.30 3,302.60 90.00 90.00 90.00 359.63 13,000.00 90.00 359.63 13,000.00 90.00 359.63 1 | 15,700.00 | 90.00 | 359.63 | 13,108.30 | 2,032.10 | -503.29 | 2,056.32 | 0.00 | 0.00 | 0.00 |
| 16,000,00 90,00 358,63 13,108,30 2,332.10 566,87 2,255,87 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 2,332.00 -506,87 2,255,87 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 2,332.00 -506,82 2,255,75 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 2,732.09 -507,16 2,255,64 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 2,732.09 -507,81 2,755,53 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 2,2732.09 -507,81 2,755,53 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 3,332.08 -509,75 10,255,51 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 3,332.08 -509,75 3,555,19 0,00 0,00 0,00 0,00 16,000,00 90,00 358,63 13,108,30 3,332.08 -501,04 3,254,96 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332.08 -510,39 3,155,07 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332.08 -510,39 3,155,07 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332.08 -510,39 3,155,07 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332.07 -511,88 3,544,96 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332.07 -511,88 3,544,96 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,352,07 -512,37 3,554,62 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,352,07 -514,26 3,754,39 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,352,07 -514,26 3,754,39 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332,06 -515,55 3,954,17 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332,06 -516,24 4,153,94 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 3,332,06 -516,24 4,153,94 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 4,322,07 -514,26 3,754,39 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 4,322,07 -514,26 3,754,39 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 4,432,05 -516,24 4,153,94 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 4,432,05 -516,44 4,153,94 0,00 0,00 0,00 0,00 0,00 17,000,00 90,00 358,63 13,108,30 4,432,05 -516,44 4,153,94 0,00 0,00 0,00 0,00 0,00 0,00 18,000 0,00 0, | 15,800.00 | 90.00 | 359.63 | 13,108.30 | 2,132.10 | -503.94 | 2,156.21 | 0.00 | 0.00 | 0.00 |
| 16,100,00 90,00 356,63 13,1063.0 2,432.09 -506.52 2,555.75 0.00 0.00 0.00 163,000,00 90,00 356,63 13,1063.0 2,632.09 -507.16 2,655.64 0.00 0.00 0.00 0.00 164,000 90,00 356,63 13,1063.0 2,632.09 -507.16 2,655.64 0.00 0.00 0.00 0.00 166,000,00 90,00 356,63 13,1063.0 2,632.09 -507.16 2,655.65 0.00 0.00 0.00 0.00 166,000 90,00 356,63 13,1063.0 2,632.08 -509.10 2,955.30 0.00 0.00 0.00 0.00 166,000,00 90,00 356,63 13,1063.0 2,632.08 -509.10 2,955.30 0.00 0.00 0.00 0.00 166,000,00 90,00 356,63 13,1063.0 3,132.08 -510.91 2,955.00 0.00 0.00 0.00 0.00 166,000,00 90,00 356,63 13,1063.0 3,132.08 -510.93 3,155.07 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -511.09 3,155.07 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -511.08 3,254.99 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -512.33 3,454.73 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -512.33 3,454.73 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -512.97 3,564.2 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -512.97 3,564.2 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -513.62 3,854.51 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.07 -514.63 3,854.62 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.06 -514.91 3,854.51 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.06 -514.91 3,854.51 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.06 -514.91 3,854.51 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.06 -514.91 3,854.26 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 3,332.06 -514.91 3,854.26 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 4,432.06 -516.50 3,854.17 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 4,432.06 -516.51 3,854.17 0.00 0.00 0.00 0.00 0.00 17,000,00 90,00 356,63 13,1063.0 4,432.06 -516.56 3,854.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 15,900.00 | 90.00 | 359.63 | 13,108.30 | 2,232.10 | -504.58 | 2,256.09 | 0.00 | 0.00 | 0.00 |
| 16,100,00 90,00 356,63 13,106,30 2,432.09 -506.52 2,455.87 0.00 0.00 0.00 16,300,00 90,00 356,63 13,106,30 2,632.09 -507.16 2,655.67 0.00 0.00 0.00 0.00 16,300,00 90,00 356,63 13,106,30 2,632.09 -507.16 2,655.64 0.00 0.00 0.00 0.00 16,000 90,00 356,63 13,106,30 2,232.09 -507.16 2,655.64 0.00 0.00 0.00 0.00 16,000 90,00 356,63 13,106,30 2,232.08 -509.10 2,955.30 0.00 0.00 0.00 16,000 90,00 356,63 13,106,30 3,126,00 5,00 16,00 16,00 16,00 16,00 0.00 90,00 356,63 13,106,30 3,332.08 -509.10 2,955.30 0.00 0.00 0.00 0.00 16,00 0.00 90,00 356,63 13,106,30 3,332.00 -509.10 2,955.30 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.00 -511.04 3,254.96 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.00 -511.04 3,254.96 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -512.33 3,454.73 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -512.33 3,454.73 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -512.97 3,564.22 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -512.97 3,564.22 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -512.97 3,564.22 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -513.62 3,544.73 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.07 -513.62 3,544.73 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.06 -514.91 3,544.63 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.06 -514.91 3,544.63 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.06 -514.91 3,544.63 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.06 -514.91 3,544.63 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 3,332.06 -514.91 3,344.63 0.00 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 4,332.06 -514.63 4,454.59 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 4,432.06 -516.50 4,454.59 0.00 0.00 0.00 0.00 0.00 17,00 0.00 90,00 356,63 13,106,30 4,432.06 -516.26 4,454.59 0.00 0.00 0.00 0.00 0.00 18,00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 16,000.00 | 90.00 | 359.63 | 13,108.30 | 2,332.10 | -505.23 | 2,355.98 | 0.00 | 0.00 | 0.00 |
| 16,200.00 90.00 356.63 13,106.30 2,532.09 -506.52 2,555.75 0.00 0.00 0.00 16,400.00 90.00 356.63 13,106.30 2,732.09 -507.16 2,555.64 0.00 0.00 0.00 0.00 16,400.00 90.00 356.63 13,106.30 2,732.09 -507.61 2,755.53 0.00 0.00 0.00 0.00 16,500.00 90.00 356.63 13,106.30 2,232.08 -509.10 2,555.53 0.00 0.00 0.00 0.00 16,500.00 90.00 356.63 13,106.30 2,932.08 -509.10 2,555.30 0.00 0.00 0.00 0.00 16,500.00 90.00 356.63 13,106.30 3,032.06 -509.75 3,055.19 0.00 0.00 0.00 0.00 16,800.00 90.00 356.63 13,106.30 3,322.08 -510.39 3,155.07 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,322.08 -510.39 3,155.07 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,224.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,224.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,244.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,245.96 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.07 -511.04 3,245.96 0.00 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 3,332.00 -511.04 3,245.96 0.00 0.00 0.00 0.00 0.00 17,700.00 90.00 356.63 13,106.30 4,322.06 -511.04 3,452.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | | | | | | | 0.00 | | |
| 18,300.00 90.00 358.63 13,108.30 2,832.09 -507.81 2,755.53 0.00 0.00 0.00 0.00 18,000.00 90.00 358.63 13,108.30 2,832.08 -508.45 2,855.41 0.00 0.00 0.00 0.00 18,000.00 90.00 358.63 13,108.30 2,832.08 -508.45 2,855.41 0.00 0.00 0.00 0.00 18,000.00 90.00 358.63 13,108.30 3,332.08 -509.75 3,055.19 0.00 0.00 0.00 0.00 18,000.00 90.00 358.63 13,108.30 3,332.08 -509.75 3,055.19 0.00 0.00 0.00 0.00 18,000.00 90.00 358.63 13,108.30 3,332.08 -511.04 3,254.96 0.00 0.00 0.00 0.00 17,000.00 90.00 358.63 13,108.30 3,332.08 -511.04 3,254.96 0.00 0.00 0.00 0.00 17,000.00 90.00 358.63 13,108.30 3,332.07 -512.83 3,454.73 0.00 0.00 0.00 0.00 17,000.00 90.00 358.63 13,108.30 3,332.07 -512.83 3,454.73 0.00 0.00 0.00 0.00 17,000.00 90.00 358.63 13,108.30 3,332.07 -513.23 3,454.73 0.00 0.00 0.00 0.00 17,000.00 90.00 358.63 13,108.30 3,332.07 -513.23 3,454.73 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.07 -513.23 3,454.73 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.07 -513.23 3,454.73 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.07 -513.26 3,564.62 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.06 -514.91 3,854.82 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.06 -514.91 3,854.28 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.06 -514.91 3,854.28 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 3,332.06 -514.63 3,854.73 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 4,332.06 -514.63 4,454.63 7,453.90 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 4,432.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 4,432.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 4,432.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 0.00 17,400.00 90.00 358.63 13,108.30 4,432.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | | 90.00 | | | | | | 0.00 | 0.00 | |
| 16,500,00 | 16,300.00 | 90.00 | 359.63 | 13,108.30 | 2,632.09 | -507.16 | 2,655.64 | 0.00 | 0.00 | 0.00 |
| 16,600,00 90,00 359,63 13,108,30 2,932,08 -509,10 2,955,30 0,00 0,00 0,00 0,00 16,600,00 90,00 359,63 13,108,30 3,132,08 -510,39 3,156,07 0,00 0,00 0,00 0,00 16,600,00 90,00 359,63 13,108,30 3,322,08 -511,04 3,254,96 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,322,07 -511,68 3,354,85 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,432,07 -512,87 3,554,62 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,432,07 -512,87 3,554,62 0,00 0,00 0,00 0,00 17,740,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 0,00 17,740,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -514,55 3,854,62 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,62 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,10 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,10 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,55 4,14,59 4,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,55 4,14,59 4,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,832,05 -522,05 5,18,18 0 0,0 | 16,400.00 | 90.00 | 359.63 | 13,108.30 | 2,732.09 | -507.81 | 2,755.53 | 0.00 | 0.00 | 0.00 |
| 16,600,00 90,00 359,63 13,108,30 2,932,08 -509,10 2,955,30 0,00 0,00 0,00 0,00 16,600,00 90,00 359,63 13,108,30 3,132,08 -510,39 3,156,07 0,00 0,00 0,00 0,00 16,600,00 90,00 359,63 13,108,30 3,322,08 -511,04 3,254,96 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,322,07 -511,68 3,354,85 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,432,07 -512,87 3,554,62 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108,30 3,432,07 -512,87 3,554,62 0,00 0,00 0,00 0,00 17,740,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 0,00 17,740,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,07 -514,26 3,754,59 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -514,55 3,854,62 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,62 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,10 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 3,832,06 -515,55 3,854,10 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,55 4,14,59 4,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,55 4,14,59 4,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,032,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 17,760,00 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -516,84 4,15,59 4,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,22,06 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,432,05 -518,14 4,45,36 0 0,00 0,00 0,00 0,00 18,000 90,00 359,63 13,108,30 4,832,05 -522,05 5,18,18 0 0,0 | 16,500.00 | 90.00 | 359.63 | 13,108.30 | 2,832.08 | -508.45 | 2,855.41 | 0.00 | 0.00 | 0.00 |
| 16,700,00 90.00 359,63 13,108,30 3,032,08 -509,75 3,055,19 0.00 0.00 0.00 16,800,00 90.00 359,63 13,108,30 3,132,08 -510,39 3,155,07 0.00 0.00 0.00 0.00 16,800,00 90.00 359,63 13,108,30 3,322,08 -511.04 3,254,96 0.00 0.00 0.00 0.00 17,100,00 90.00 359,63 13,108,30 3,322,07 -512,03 3,484,73 0.00 0.00 0.00 0.00 17,200,00 90.00 359,63 13,108,30 3,552,07 -513,62 3,554,62 0.00 0.00 0.00 0.00 17,300,00 90.00 359,63 13,108,30 3,552,07 -513,62 3,684,61 0.00 0.00 0.00 0.00 17,400,00 90.00 359,63 13,108,30 3,832,06 -514,91 3,864,28 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 3,832,06 -514,91 3,864,28 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 3,832,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 3,832,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 4,032,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 4,032,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 4,232,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 17,760,00 90.00 359,63 13,108,30 4,232,06 -516,24 4,153,34 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,232,06 -516,44 4,153,34 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,14 4,353,72 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,14 4,353,72 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,14 4,353,72 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,14 4,353,72 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,322,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,522,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,30 4,522,05 -518,78 4,453,40 0.00 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108,3 | | | | | | | | | | |
| 16,900.00 90.00 359.63 13,108.30 3,232.08 -511.04 3,254.86 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,332.07 -512.63 3,454.73 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,432.07 -512.87 3,554.62 0.00 0.00 0.00 0.00 17,000.00 90.00 359.63 13,108.30 3,532.07 -513.62 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,532.07 -513.62 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,532.07 -513.62 0.00 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,532.07 -513.62 0.00 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 3,532.07 -514.26 3,754.39 0.00 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 3,832.06 -515.55 3,954.17 0.00 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 4,032.06 -516.26 4,054.05 0.00 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 4,032.06 -516.26 4,4054.05 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,232.06 -516.84 4,153.94 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,232.06 -516.84 4,153.94 0.00 0.00 0.00 0.00 18,000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | | 90.00 | 359.63 | | | | | | 0.00 | |
| 17,000.00 90.00 359.63 13,108.30 3,332.07 -511.68 3,354.85 0.00 0.00 0.00 17,100.00 90.00 359.63 13,108.30 3,532.07 -512.33 3,454.73 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,532.07 -512.33 3,454.73 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,532.07 -513.62 3,654.51 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,732.07 -513.62 3,654.51 0.00 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 3,732.07 -514.91 3,854.28 0.00 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 3,932.06 -514.91 3,854.28 0.00 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 3,932.06 -516.20 4,054.05 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 4,032.06 -516.20 4,054.05 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,232.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,253.83 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,232.06 -518.14 4,353.72 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,232.06 -518.14 4,353.72 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,432.05 -518.14 4,353.72 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,432.05 -518.44 4,353.40 0.00 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,432.05 -519.43 4,553.49 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,432.05 -519.43 4,553.49 0.00 0.00 0.00 18,000 90.00 359.63 13,108.30 4,832.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.05 -520.75 4,753.26 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.05 -520.75 4,753.26 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,332.00 5,332.00 5,332.00 5,332.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 16,800.00 | 90.00 | 359.63 | 13,108.30 | 3,132.08 | -510.39 | 3,155.07 | 0.00 | 0.00 | 0.00 |
| 17,100,00 90,00 359,63 13,108.30 3,820,07 5-12,33 3,454.73 0,00 0,00 0,00 17,300,00 90,00 359,63 13,108.30 3,532,07 5-12,37 3,554,65 1 0,00 0,00 0,00 17,400,00 90,00 359,63 13,108.30 3,632,07 5-13,62 3,664,51 0,00 0,00 0,00 17,400,00 90,00 359,63 13,108.30 3,732,07 5-13,62 3,664,51 0,00 0,00 0,00 0,00 17,500,00 90,00 359,63 13,108.30 3,832,06 5-14,91 3,854,28 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108.30 4,032,06 5-15,55 3,954,17 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108.30 4,032,06 5-16,624 4,153,94 0,00 0,00 0,00 17,900,00 90,00 359,63 13,108.30 4,232,06 5-16,84 4,153,94 0,00 0,00 0,00 0,00 17,900,00 90,00 359,63 13,108.30 4,232,06 5-16,84 4,153,94 0,00 0,00 0,00 0,00 18,000 0,00 0,00 0, | 16,900.00 | 90.00 | 359.63 | 13,108.30 | 3,232.08 | -511.04 | 3,254.96 | 0.00 | 0.00 | 0.00 |
| 17,100,00 90,00 359,63 13,108.30 3,820,07 5-12,33 3,454.73 0,00 0,00 0,00 17,300,00 90,00 359,63 13,108.30 3,532,07 5-12,37 3,554,65 1 0,00 0,00 0,00 17,400,00 90,00 359,63 13,108.30 3,632,07 5-13,62 3,664,51 0,00 0,00 0,00 17,400,00 90,00 359,63 13,108.30 3,732,07 5-13,62 3,664,51 0,00 0,00 0,00 0,00 17,500,00 90,00 359,63 13,108.30 3,832,06 5-14,91 3,854,28 0,00 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108.30 4,032,06 5-15,55 3,954,17 0,00 0,00 0,00 17,700,00 90,00 359,63 13,108.30 4,032,06 5-16,624 4,153,94 0,00 0,00 0,00 17,900,00 90,00 359,63 13,108.30 4,232,06 5-16,84 4,153,94 0,00 0,00 0,00 0,00 17,900,00 90,00 359,63 13,108.30 4,232,06 5-16,84 4,153,94 0,00 0,00 0,00 0,00 18,000 0,00 0,00 0, | 17,000.00 | 90.00 | 359.63 | 13,108.30 | 3,332.07 | -511.68 | 3,354.85 | 0.00 | 0.00 | 0.00 |
| 17,200.00 90.00 359.63 13,108.30 3,532.07 -512.97 3,554.62 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,632.07 -513.62 3,654.51 0.00 0.00 0.00 0.00 17,400.00 90.00 359.63 13,108.30 3,732.07 -514.26 3,754.39 0.00 0.00 0.00 0.00 17,600.00 90.00 359.63 13,108.30 3,932.06 -515.55 3,954.17 0.00 0.00 0.00 17,600.00 90.00 359.63 13,108.30 3,932.06 -515.55 3,954.17 0.00 0.00 0.00 17,600.00 90.00 359.63 13,108.30 4,932.06 -516.20 4,054.05 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,322.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,322.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,322.06 -516.20 4,054.05 0.00 0.00 0.00 0.00 18,000 90.00 359.63 13,108.30 4,322.05 -518.14 4,253.83 0.00 0.00 0.00 0.00 18,000 90.00 359.63 13,108.30 4,322.05 -518.178 4,453.72 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,322.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,322.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,452.05 -519.43 4,553.49 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,432.05 -519.44 4,553.49 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,432.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,432.05 -520.72 4,753.26 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,432.05 -520.72 4,753.26 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,532.04 -522.31 4,853.15 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.59 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,532.03 -523.74 5,252.70 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,532.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,532.03 -524.59 5,352.20 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.20 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -528.45 5,552.20 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.00 -528.24 5,552.25 0.00 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 | | | | | | | | | | |
| 17,400.00 90.00 359.63 13,108.30 3,732.07 -514.26 3,764.39 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 3,832.06 -516.55 3,984.17 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 3,932.06 -516.55 3,984.17 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 3,932.06 -516.55 3,984.17 0.00 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 4,132.06 -516.84 4,153.94 0.00 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 4,132.06 -516.84 4,153.94 0.00 0.00 0.00 0.00 17,500.00 90.00 359.63 13,108.30 4,132.05 -518.18 4,453.87 2 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,322.05 -518.18 14 4,553.72 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,432.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,432.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,452.05 -519.43 4,553.49 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,522.05 -520.72 4,653.38 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,432.05 -519.43 4,553.49 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,432.05 -520.72 4,653.38 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.04 -521.36 4,853.15 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,832.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,332.04 5,22.55 6,505.92 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,520.70 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,525.70 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -522.84 5,525.70 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -523.94 5,252.70 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -528.85 5,522.65 0.00 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -528.45 5,522.65 0.00 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -528.85 5,552.36 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,532.03 -528.85 5,552.36 0.00 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,632.01 -528.29 5,552.95 5,000 0.00 0.00 0.00 0.00 0. | 17,200.00 | | | | | -512.97 | 3,554.62 | | | 0.00 |
| 17,500.00 90.00 359.63 13,108.30 3,832.06 -514.91 3,854.28 0.00 0.00 0.00 17,600.00 90.00 359.63 13,108.30 3,932.06 -515.55 3,954.17 0.00 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,322.06 -516.20 4,054.05 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,232.06 -516.84 4,159.94 0.00 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,259.83 0.00 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,232.06 -518.14 4,353.72 0.00 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,322.05 -518.76 4,459.80 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,322.05 -518.76 4,459.80 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,322.05 -518.76 4,459.80 0.00 0.00 0.00 0.00 18,300.00 90.00 359.63 13,108.30 4,322.05 -518.76 4,459.80 0.00 0.00 0.00 0.00 18,300.00 90.00 359.63 13,108.30 4,322.05 -520.77 4,559.38 0.00 0.00 0.00 0.00 18,300.00 90.00 359.63 13,108.30 4,322.05 -520.07 4,559.38 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 4,322.05 -520.72 4,759.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 4,322.05 -520.72 4,759.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 4,322.04 -522.56 5,052.92 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 5,132.04 -522.56 5,052.92 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 5,132.04 -522.56 5,052.92 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 5,132.04 -522.35 5,552.36 0.00 0.00 0.00 0.00 19,100.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,300.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.50 0.00 0.00 0.00 0.00 19,300.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,300.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.50 0.00 0.00 0.00 0.00 19,300.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 17,300.00 | 90.00 | 359.63 | 13,108.30 | | -513.62 | 3,654.51 | 0.00 | 0.00 | 0.00 |
| 17,600.00 90.00 359.63 13,108.30 3,932.06 -515.55 3,954.17 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 4,232.06 -516.20 4,046.05 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,132.06 -516.20 4,045.05 0.00 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,253.83 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,232.05 -518.14 4,353.72 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,332.05 -518.14 4,353.72 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,432.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,432.05 -519.43 4,553.49 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,532.05 -520.07 4,653.38 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,732.05 -520.72 4,753.26 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -521.36 4,853.15 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,032.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,032.04 -522.05 5,052.92 0.00 0.00 0.00 0.00 18,900.00 90.00 359.63 13,108.30 5,232.03 -523.24 5,252.70 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,232.03 -523.24 5,252.70 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,232.03 -522.52 5,852.52 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -525.23 5,452.47 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -525.23 5,452.47 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -525.23 5,452.47 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.03 -525.23 5,452.47 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.02 -525.88 5,552.30 0.00 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 6,332.01 -531.40 6,351.45 0.00 0.00 0.00 0.00 0.00 0 | 17,400.00 | 90.00 | 359.63 | 13,108.30 | 3,732.07 | -514.26 | 3,754.39 | 0.00 | 0.00 | 0.00 |
| 17,600.00 90.00 359.63 13,108.30 3,932.06 -515.55 3,954.17 0.00 0.00 0.00 17,700.00 90.00 359.63 13,108.30 4,232.06 -516.20 4,054.05 0.00 0.00 0.00 17,800.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,258.83 0.00 0.00 0.00 0.00 17,900.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,258.83 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,258.83 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,232.05 -518.14 4,353.72 0.00 0.00 0.00 0.00 18,100.00 90.00 359.63 13,108.30 4,332.05 -518.14 4,353.72 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,432.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,532.05 -519.43 4,553.49 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,732.05 -520.77 4,753.26 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,732.05 -520.77 4,753.26 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -522.01 4,953.43 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -522.01 4,953.04 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 4,332.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,600.00 90.00 359.63 13,108.30 5,032.04 -522.65 5,052.92 0.00 0.00 0.00 0.00 18,800.00 90.00 359.63 13,108.30 5,232.03 -523.23 5,152.81 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,232.03 -523.23 5,152.81 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,232.03 -522.52 5,552.56 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,532.03 -525.23 5,452.47 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,532.03 -525.88 5,552.36 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.02 -527.75 5,752.13 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.02 -527.75 5,752.24 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 5,332.02 -527.86 5,555.23 0.00 0.00 0.00 0.00 0.00 19,200.00 90.00 359.63 13,108.30 6,332.02 -527.77 5,752.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 17,500.00 | 90.00 | 359.63 | 13,108.30 | 3,832.06 | -514.91 | 3,854.28 | 0.00 | 0.00 | 0.00 |
| 17,700.00 90.00 359,63 13,108.30 4,032.06 516.20 4,054.05 0.00 0.00 0.00 17,900.00 90.00 359,63 13,108.30 4,232.06 516.84 4,153.94 0.00 0.00 0.00 0.00 17,900.00 90.00 359,63 13,108.30 4,232.06 517.49 4,253.83 0.00 0.00 0.00 0.00 18,000 90.00 359,63 13,108.30 4,332.05 518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359,63 13,108.30 4,332.05 518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359,63 13,108.30 4,322.05 519.43 4,553.49 0.00 0.00 0.00 0.00 18,200.00 90.00 359,63 13,108.30 4,532.05 520.72 4,753.26 0.00 0.00 0.00 0.00 18,200.00 90.00 359,63 13,108.30 4,532.05 520.72 4,753.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 4,322.04 520.72 4,753.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 4,322.04 522.01 4,953.04 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 4,322.04 522.05 4,953.04 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 4,322.04 522.05 4,953.04 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 5,332.04 522.65 5,522.92 0.00 0.00 0.00 0.00 18,500.00 90.00 359,63 13,108.30 5,332.04 522.65 5,522.92 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 5,232.93 5,252.70 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 522.52 5,522.70 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 522.52 5,522.70 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 522.52 5,522.70 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 522.52 5,522.70 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 525,23 5,452.47 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 525,23 5,452.47 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 525,23 5,452.47 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.03 525,25 5,525.20 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.02 525,88 5,522.00 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 5,332.02 525,88 5,522.00 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 6,332.01 532.04 525,88 5,552.30 0.00 0.00 0.00 0.00 19,000 90.00 359,63 13,108.30 6,332.01 533.00 533.00 0.00 0.00 0.00 0.00 0.00 | | | | | | | | | | |
| 17,900.00 90.00 359.63 13,108.30 4,232.06 -517.49 4,253.83 0.00 0.00 0.00 18,000.00 90.00 359.63 13,108.30 4,332.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,532.05 -518.78 4,453.60 0.00 0.00 0.00 0.00 18,200.00 90.00 359.63 13,108.30 4,632.05 -520.07 4,653.38 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,632.05 -520.07 4,653.38 0.00 0.00 0.00 0.00 18,400.00 90.00 359.63 13,108.30 4,632.05 -520.72 4,753.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 4,732.05 -520.72 4,753.26 0.00 0.00 0.00 0.00 18,500.00 90.00 359.63 13,108.30 4,832.04 -521.36 4,853.15 0.00 0.00 0.00 0.00 18,700.00 90.00 359.63 13,108.30 4,932.04 -522.01 4,953.04 0.00 0.00 0.00 0.00 18,700.00 90.00 359.63 13,108.30 5,032.04 -522.65 5,052.92 0.00 0.00 0.00 0.00 18,800.00 90.00 359.63 13,108.30 5,132.04 -523.30 5,152.81 0.00 0.00 0.00 0.00 18,800.00 90.00 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -524.59 5,352.58 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.02 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.03 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.02 -525.85 5,552.36 0.00 0.00 0.00 0.00 19,000 359.63 13,108.30 5,332.02 -525.85 5,552.36 0.00 0.00 0.00 0.00 0.00 19,000 90.00 359.63 13,108.30 5,332.02 -525.85 5,552.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 17,700.00 | 90.00 | 359.63 | 13,108.30 | 4,032.06 | -516.20 | 4,054.05 | 0.00 | | 0.00 |
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| 19,400.00 90.00 359.63 13,108.30 5,732.02 -527.17 5,752.13 0.00 0.00 0.00 19,500.00 90.00 359.63 13,108.30 5,832.02 -527.82 5,852.02 0.00 0.00 0.00 19,600.00 90.00 359.63 13,108.30 6,932.02 -528.46 5,951.90 0.00 0.00 0.00 19,700.00 90.00 359.63 13,108.30 6,032.02 -529.11 6,051.79 0.00 0.00 0.00 19,800.00 90.00 359.63 13,108.30 6,132.02 -529.75 6,151.68 0.00 0.00 0.00 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13, | 1 | | | | | | | | | |
| 19,500.00 90.00 359.63 13,108.30 5,832.02 -527.82 5,852.02 0.00 0.00 0.00 19,600.00 90.00 359.63 13,108.30 5,932.02 -528.46 5,951.90 0.00 0.00 0.00 19,700.00 90.00 359.63 13,108.30 6,032.02 -529.11 6,051.79 0.00 0.00 0.00 19,800.00 90.00 359.63 13,108.30 6,132.02 -529.75 6,151.68 0.00 0.00 0.00 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,632.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13, | 1 | | | | | | | | | |
| 19,600.00 90.00 359.63 13,108.30 5,932.02 -528.46 5,951.90 0.00 0.00 0.00 19,700.00 90.00 359.63 13,108.30 6,032.02 -529.11 6,051.79 0.00 0.00 0.00 19,800.00 90.00 359.63 13,108.30 6,132.02 -529.75 6,151.68 0.00 0.00 0.00 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,500.00 90.00 359.63 13, | 1 | | | | | | | | | |
| 19,700.00 90.00 359.63 13,108.30 6,032.02 -529.11 6,051.79 0.00 0.00 0.00 19,800.00 90.00 359.63 13,108.30 6,132.02 -529.75 6,151.68 0.00 0.00 0.00 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13, | | | | | | | | | | |
| 19,800.00 90.00 359.63 13,108.30 6,132.02 -529.75 6,151.68 0.00 0.00 0.00 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13, | | | | | | | | | | |
| 19,900.00 90.00 359.63 13,108.30 6,232.01 -530.40 6,251.56 0.00 0.00 0.00 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.27 6,850.89 0.00 0.00 0.00 20,700.00 90.00 359.63 13, | | | | | | | | | | |
| 20,000.00 90.00 359.63 13,108.30 6,332.01 -531.04 6,351.45 0.00 0.00 0.00 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.27 6,850.89 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13, | | | | | | | | | | |
| 20,100.00 90.00 359.63 13,108.30 6,432.01 -531.69 6,451.34 0.00 0.00 0.00 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13, | | | | | | | | | | |
| 20,200.00 90.00 359.63 13,108.30 6,532.01 -532.33 6,551.23 0.00 0.00 0.00 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,300.00 90.00 359.63 13,108.30 6,632.01 -532.98 6,651.11 0.00 0.00 0.00 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,400.00 90.00 359.63 13,108.30 6,732.00 -533.62 6,751.00 0.00 0.00 0.00 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,500.00 90.00 359.63 13,108.30 6,832.00 -534.27 6,850.89 0.00 0.00 0.00 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,600.00 90.00 359.63 13,108.30 6,932.00 -534.91 6,950.77 0.00 0.00 0.00 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | 0.00 | | 0.00 |
| 20,700.00 90.00 359.63 13,108.30 7,032.00 -535.56 7,050.66 0.00 0.00 0.00 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,800.00 90.00 359.63 13,108.30 7,132.00 -536.21 7,150.55 0.00 0.00 0.00 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 20,900.00 90.00 359.63 13,108.30 7,231.99 -536.85 7,250.43 0.00 0.00 0.00 | | | | | | | | | | |
| 21,000.00 90.00 359.63 13,108.30 7,331.99 -537.50 7.350.32 0.00 0.00 0.00 | 20,900.00 | | | | | | | | | |
| | 21,000.00 | 90.00 | 359.63 | 13,108.30 | 7,331.99 | -537.50 | 7,350.32 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde WC Unit
Well: Mesa Verde WC Unit 40H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

| 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) |
| 21,100.00 | 90.00 | 359.63 | 13,108.30 | 7,431.99 | -538.14 | 7,450.21 | 0.00 | 0.00 | 0.00 |
| 21,200.00 | 90.00 | 359.63 | 13,108.30 | 7,531.99 | -538.79 | 7,550.09 | 0.00 | 0.00 | 0.00 |
| 21,300.00 | 90.00 | 359.63 | 13,108.30 | 7,631.98 | -539.43 | 7,649.98 | 0.00 | 0.00 | 0.00 |
| 21,400.00 | 90.00 | 359.63 | 13,108.30 | 7,731.98 | -540.08 | 7,749.87 | 0.00 | 0.00 | 0.00 |
| 21,500.00 | 90.00 | 359.63 | 13,108.30 | 7,831.98 | -540.72 | 7,849.75 | 0.00 | 0.00 | 0.00 |
| 21,600.00 | 90.00 | 359.63 | 13,108.30 | 7,931.98 | -541.37 | 7,949.64 | 0.00 | 0.00 | 0.00 |
| 21,700.00 | 90.00 | 359.63 | 13,108.30 | 8,031.98 | -542.01 | 8,049.53 | 0.00 | 0.00 | 0.00 |
| 21,800.00 | 90.00 | 359.63 | 13,108.30 | 8,131.97 | -542.66 | 8,149.41 | 0.00 | 0.00 | 0.00 |
| 21,900.00 | 90.00 | 359.63 | 13,108.30 | 8,231.97 | -543.30 | 8,249.30 | 0.00 | 0.00 | 0.00 |
| 22,000.00 | 90.00 | 359.63 | 13,108.30 | 8,331.97 | -543.95 | 8,349.19 | 0.00 | 0.00 | 0.00 |
| 22,100.00 | 90.00 | 359.63 | 13,108.30 | 8,431.97 | -544.60 | 8,449.07 | 0.00 | 0.00 | 0.00 |
| 22,200.00 | 90.00 | 359.63 | 13,108.30 | 8,531.97 | -545.24 | 8,548.96 | 0.00 | 0.00 | 0.00 |
| 22,300.00 | 90.00 | 359.63 | 13,108.30 | 8,631.96 | -545.89 | 8,648.85 | 0.00 | 0.00 | 0.00 |
| 22,400.00 | 90.00 | 359.63 | 13,108.30 | 8,731.96 | -546.53 | 8,748.74 | 0.00 | 0.00 | 0.00 |
| 22,500.00 | 90.00 | 359.63 | 13,108.30 | 8,831.96 | -547.18 | 8,848.62 | 0.00 | 0.00 | 0.00 |
| 22,600.00 | 90.00 | 359.63 | 13,108.30 | 8,931.96 | -547.82 | 8,948.51 | 0.00 | 0.00 | 0.00 |
| 22,700.00 | 90.00 | 359.63 | 13,108.30 | 9,031.96 | -548.47 | 9,048.40 | 0.00 | 0.00 | 0.00 |
| 22,800.00 | 90.00 | 359.63 | 13,108.30 | 9,131.95 | -549.11 | 9,148.28 | 0.00 | 0.00 | 0.00 |
| 22,900.00 | 90.00 | 359.63 | 13,108.30 | 9,231.95 | -549.76 | 9,248.17 | 0.00 | 0.00 | 0.00 |
| 23,000.00 | 90.00 | 359.63 | 13,108.30 | 9,331.95 | -550.40 | 9,348.06 | 0.00 | 0.00 | 0.00 |
| 23,100.00 | 90.00 | 359.63 | 13,108.30 | 9,431.95 | -551.05 | 9,447.94 | 0.00 | 0.00 | 0.00 |
| 23,200.00 | 90.00 | 359.63 | 13,108.30 | 9,531.95 | -551.69 | 9,547.83 | 0.00 | 0.00 | 0.00 |
| 23,300.00 | 90.00 | 359.63 | 13,108.30 | 9,631.94 | -552.34 | 9,647.72 | 0.00 | 0.00 | 0.00 |
| 23,400.00 | 90.00 | 359.63 | 13,108.30 | 9,731.94 | -552.99 | 9,747.60 | 0.00 | 0.00 | 0.00 |
| 23,500.00 | 90.00 | 359.63 | 13,108.30 | 9,831.94 | -553.63 | 9,847.49 | 0.00 | 0.00 | 0.00 |
| 23,600.00 | 90.00 | 359.63 | 13,108.30 | 9,931.94 | -554.28 | 9,947.38 | 0.00 | 0.00 | 0.00 |
| 23,700.00 | 90.00 | 359.63 | 13,108.30 | 10,031.93 | -554.92 | 10,047.26 | 0.00 | 0.00 | 0.00 |
| 23,800.00 | 90.00 | 359.63 | 13,108.30 | 10,131.93 | -555.57 | 10,147.15 | 0.00 | 0.00 | 0.00 |
| 23,900.00 | 90.00 | 359.63 | 13,108.30 | 10,231.93 | -556.21 | 10,247.04 | 0.00 | 0.00 | 0.00 |
| 23,957.93 | 90.00 | 359.63 | 13,108.30 | 10,289.86 | -556.59 | 10,304.90 | 0.00 | 0.00 | 0.00 |

| 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 |
| FTP (Mesa Verde WC - plan hits target cer - Point | 0.00 nter | 0.00 | 13,108.30 | -153.99 | -489.18 | 440,934.99 | 742,128.49 | 32° 12' 37.944707 N | 103° 41' 2.809161 |
| PBHL (Mesa Verde - plan hits target cer - Point | 0.00 nter | 0.00 | 13,108.30 | 10,289.86 | -556.59 | 451,378.35 | 742,061.09 | 32° 14' 21.290236 N | 103° 41' 2.859184 |

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde WC Unit
Well: Mesa Verde WC Unit 40H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde WC Unit 40H

RKB=26.5' @ 3598.30ft RKB=26.5' @ 3598.30ft

Grid

| Plan Annotations | | | | | |
|------------------|---------------|---------------|---------------|------------------------|--|
| Measured | Vertical | Local Coor | dinates | | |
| Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment | |
| 6,590.00 | 6,590.00 | 0.00 | 0.00 | Build 2.00°/100' | |
| 7,090.22 | 7,087.68 | -37.28 | -22.53 | Hold 10.00° Tangent | |
| 11,751.60 | 11,678.18 | -730.35 | -441.36 | Turn 2.00°/100' | |
| 12,713.87 | 12,634.84 | -718.23 | -485.54 | KOP, Build 10.00°/100' | |
| 13,513.87 | 13,108.30 | -153.99 | -489.18 | Landing Point | |
| 23,957.93 | 13,108.30 | 10,289.86 | -556.59 | TD at 23957.93' MD | |

Oxy USA Inc. - Mesa Verde WC Unit 40H APD v1

1. Geologic Formations

| TVD of target | 13108' | Pilot Hole Depth | N/A |
|---------------|--------|-------------------------------|------|
| MD at TD: | 23957' | Deepest Expected fresh water: | 906' |

Delaware Basin

| Formation | TVD - RKB | Expected Fluids |
|-----------------|-----------|------------------------|
| Rustler | 906 | |
| Salado | 1,218 | Salt |
| Castile | 3,130 | Salt |
| Lamar/Delaware | 4,719 | Oil/Gas/Brine |
| Bell Canyon | 4,743 | Oil/Gas/Brine |
| Cherry Canyon | 5,629 | Oil/Gas/Brine |
| Brushy Canyon | 6,942 | Losses |
| Bone Spring | 8,653 | Oil/Gas |
| 1st Bone Spring | 9,739 | Oil/Gas |
| 2nd Bone Spring | 10,339 | Oil/Gas |
| 3rd Bone Spring | 11,631 | Oil/Gas |
| Wolfcamp | 12,077 | Oil/Gas |

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

2. Casing Program

| | | | | | | | | | Buoyant | Buoyant |
|----------------|-----------|----------|-----------|--------|---------|-------|----------|----------------|----------------|----------|
| II-1-6' (') | Casing | Interval | Csg. Size | Weight | G , | C | SF | SF Burst | Body SF | Joint SF |
| Hole Size (in) | From (ft) | To (ft) | (in) | (lbs) | Grade | Conn. | Collapse | SF Burst | Tension | Tension |
| 14.75 | 0 | 1158 | 10.75 | 40.5 | J-55 | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 9.875 | 0 | 12613 | 7.625 | 26.4 | L-80 HC | BTC | 1.125 | 1.2 | 1.4 | 1.4 |
| 6.75 | 0 | 23957 | 5.5 | 20 | P-110 | DQX | 1.125 | 1.2 | 1.4 | 1.4 |
| · | | | | | | • | | SF Values will | meet or Exceed | |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

| | Y or N |
|---|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | 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? If not provide | V |
| justification (loading assumptions, casing design criteria). | ı |

^{*}Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

^{*}Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

Oxy USA Inc. - Mesa Verde WC Unit 40H APD_v1

| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
|---|----|
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | 11 |
| <u> </u> | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back | |
| 500' into previous casing? | |
| * | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | 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? | |
| Y 111 + 1' '' 1 C /Y +0 | N. |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

3. Cementing Program

| ichting i rogram | | | | | | |
|-------------------------------|----------------|----------------|----------------|----------------|----------------------------|--|
| Casing String | # Sks | Wt. | Yld | H20 | 500# Comp. Strength | Slurry Description |
| | | (lb/gal) | (ft3/sack) | (gal/sk) | (hours) | |
| Surface (Lead) | N/A | N/A | N/A | N/A | N/A | N/A |
| Surface (Tail) | 955 | 14.8 | 1.33 | 6.365 | 5:26 | Class C Cement, Accelerator |
| Intermediate 1st Stage (Lead) | N/A | N/A | N/A | N/A | N/A | N/A |
| Intermediate 1st Stage (Tail) | 748 | 13.2 | 1.65 | 8.640 | 11:54 | Class H Cement, Retarder, Dispersant, Salt |
| Intermediate 2nd Sta |) to be pumped | l as Bradenhea | d Squeeze from | m surface, dow | n the Intermediate annulus | |
| Intermediate 2nd Stage (Lead) | N/A | N/A | N/A | N/A | N/A | N/A |
| Intermediate 2nd Stage (Tail) | 884 | 12.9 | 1.92 | 10.41 | 23:10 | Class C Cement, Accelerator |
| Production (Lead) | N/A | N/A | N/A | N/A | N/A | N/A |
| Production (Tail) | 868 | 13.2 | 1.38 | 6.686 | 3:39 | Class H Cement, Retarder, Dispersant, Salt |

| Casing String | Top (ft) | Bottom (ft) | % Excess |
|-------------------------------|----------|-------------|----------|
| Surface (Lead) | N/A | N/A | N/A |
| Surface (Tail) | 0 | 1158 | 100% |
| Intermediate 1st Stage (Lead) | N/A | N/A | N/A |
| Intermediate 1st Stage (Tail) | 7192 | 12613 | 5% |
| Intermediate 2nd Stage (Lead) | N/A | N/A | N/A |
| Intermediate 2nd Stage (Tail) | 0 | 7192 | 10% |
| Production (Lead) | N/A | N/A | N/A |
| Production (Tail) | 12113 | 23957 | 20% |

Offline Cementing

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.

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.

Oxy USA Inc. - Mesa Verde WC Unit 40H APD v1

- a. If well is not static notify BLM and kill well.
- b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Туре | | ✓ | Tested to: |
|--|---------|------------------------|------------|----|----------|--------------------------|
| | 13-5/8" | 5M | Annular | | ✓ | 70% of working pressure |
| 0.975" Hala | | | Blind Ra | am | ✓ | |
| 9.875" Hole | | 5M | Pipe Ram | | | 250 psi / 5000 psi |
| | | | Double Ram | | ✓ | |
| | | | Other* | | | |
| | | 5M | Annula | ır | ✓ | 100% of working pressure |
| 6.75" Hole | 13-5/8" | | Blind Ram | | ✓ | |
| 0.75 Hole | | 10M | Pipe Ram | | | 250 |
| | | | Double Ram | | ✓ | 250 psi / 6400 psi |
| | | | Other* | | | |

^{*}Specify if additional ram is utilized.

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 attached Well Control Plan.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Oxy USA Inc. - Mesa Verde WC Unit 40H APD v1

Formation integrity test will be performed per Onshore Order #2.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

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.

Y 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 Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. 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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1) Wellhead flange, co-flex hose, check valve, upper pipe rams

5. Mud Program

| Depth | | Toma | Weight (nng) | Viscosity | Water Loss | |
|-------------------|-------|--|--------------|-----------|------------|--|
| From (ft) To (ft) | | Туре | Weight (ppg) | Viscosity | | |
| 0 | 1158 | Water-Based Mud | 8.6-8.8 | 40-60 | N/C | |
| 1158 | 12613 | Saturated Brine-Based or Oil-Based Mud | 8.0-10.0 | 35-45 | N/C | |
| 12613 | 23957 | Water-Based or Oil- Based Mud | 9.5-13.5 | 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

Oxy USA Inc. - Mesa Verde WC Unit 40H APD_v1

6. Logging and Testing Procedures

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

| Addi | tional logs planned | Interval |
|------|---------------------|----------|
| No | Resistivity | |
| No | Density | |
| No | CBL | |
| Yes | Mud log | ICP - TD |
| No | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|-------------------------------|------------------------------|
| BH Pressure at deepest TVD | 9202 psi |
| Abnormal Temperature | No |
| BH Temperature at deepest TVD | 185°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 easing can be cemented into place for zonal isolation.

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

| valu | es and formations will be provided to the BLM. |
|------|--|
| N | H2S is present |
| Y | H2S Plan attached |

| 8. Other facets of operation | Yes/No |
|---|--------|
| Will the well be drilled with a walking/skidding operation? If yes, describe. | Yes |
| • We plan to drill the three 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. | |
| Will more than one drilling rig be used for drilling operations? If yes, describe. | Yes |
| 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. | |

Total estimated cuttings volume: 1832 bbls.

9. Company Personnel

| -p j | | | |
|------------------|------------------------------|--------------|--------------|
| Name | <u>Title</u> | Office Phone | Mobile Phone |
| Linsay Earle | Drilling Engineer | 713-350-4921 | 832-596-5507 |
| Margaret Giltner | Drilling Engineer Supervisor | 713-366-5026 | 210-683-8480 |
| Simon Benavides | Drilling Superintendent | 713-522-8652 | 281-684-6897 |
| Diego Tellez | Drilling Manager | 713-350-4602 | 713-303-4932 |



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Repor

APD ID: 10400052493

Submission Date: 12/18/2019

Highlighted data reflects the most

Operator Name: OXY USA INCORPORATED

Well Number: 40H

recent changes **Show Final Text**

Well Name: MESA VERDE WC UNIT

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MesaVerdeWCUnit40H_ExistRoads_20191218082902.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

MesaVerdeWCUnit40H_NewRoads_20191218083141.pdf

New road type: LOCAL

Length: 1364.3

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? Y

New road access plan attachment:

MesaVerdeWCUnit40H_NewRoads_20191218083257.pdf

Access road engineering design? N

Well Name: MESA VERDE WC UNIT Well Number: 40H

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information: A new access road will be built. The access road will run 48.3 north through pasture to the southwest corner of the proposed new pad. A new access road to the Mesa Verde East Compressor Station will follow the surveyed route. Survey of a strip of land 30 wide and 1316 (0.249mi) in length crossing USA land in sections 16 & 21, T24S, R32E, NMPM, Lea County, NM, and being 15 left and 15 right of centerline survey.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

MesaVerdeWCUnit40H_ExistWells_20191218083748.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: a. In the event the well is found productive, an existing central tank battery will be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram. b. All flow lines will adhere to API standards. They will consist of (3) surface 4 composite flowlines per well operating 75% MAWP, lines to follow surveyed route. Survey of a strip of land 30 wide and 31,808.3(6.024mi) in length crossing USA Land in Sections 13 & 24, T24S R31E, NMPM, Eddy County, and Sections 16, 17 & 18, T24S, R32E, NMPM, Lea County, NM and being 25 left and 25 right of the centerline survey, see attached. (2) buried 6 steel gas lines operating 1500psig branching off the 2 common 8 steel main lines, gas lift lines to follow surveyed route. Survey of a strip of land 30 wide and 2,611.5 (0.495mi) in length crossing USA land in Sections 16, T24S, R32E, NMPM, Lea County, NM and being 15 left and 15 right of the

Page 2 of 11

Well Name: MESA VERDE WC UNIT Well Number: 40H

centerline survey, see attached. c. Electric line (overhead) will follow a route approved by the BLM. Survey of a strip of land 50 wide and 2614.6' (0.495mi) in length crossing USA land in Sections 16, T24S R32E, NMPM, Lea County, NM and being 15 left and 15 right of the centerline survey, see attached.

Production Facilities map:

MesaVerdeWCUnit40H_LeaseFacilityInfo_20191218083805.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

OTHER Describe use type: Drilling

Source latitude: Source longitude:

Source datum:

Water source permit type: WATER WELL

Water source transport method: PIPELINE

TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000 Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation map:

MesaVerdeWCUnit40H_GRRWtrSrc_20191218084007.pdf MesaVerdeWCUnit40H_MesqWtrSrc_20191218084015.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite, MMX) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

Well Name: MESA VERDE WC UNIT Well Number: 40H

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit located in Section 6 T24S R32E Water will be provided from a frac pond located in Section 18 T24S R32E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1832 barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containment attachment:

FACILITY

Well Name: MESA VERDE WC UNIT Well Number: 40H

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

MesaVerdeWCUnit40H_WellSiteCL_20191218084203.pdf

Well Name: MESA VERDE WC UNIT Well Number: 40H

Comments: V-Door-East - CL Tanks-North - 330' X 480' - 3 Well Pad

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: MESA VERDE WC UNIT

Multiple Well Pad Number: 39H, 40H, 41H

Recontouring attachment:

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance

(acres): 3.64

Road proposed disturbance (acres):

0.94

Powerline proposed disturbance

(acres): 1.8

Pipeline proposed disturbance

(acres): 23.71

Other proposed disturbance (acres): 0

Total proposed disturbance: 30.09

Well pad interim reclamation (acres):

1.26

Road interim reclamation (acres): 0.5

Powerline interim reclamation (acres):

1.8

Pipeline interim reclamation (acres):

15.8

Other interim reclamation (acres): 0

Total interim reclamation: 19.36

Well pad long term disturbance

(acres): 2.38

Road long term disturbance (acres):

0.44

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 7.9

Other long term disturbance (acres): 0

Total long term disturbance: 10.72

Disturbance Comments: See Below.

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline attachment:

Well Name: MESA VERDE WC UNIT Well Number: 40H

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jim Last Name: Wilson

Phone: (575)631-2442 Email: Jim_Wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan attachment:

Well Name: MESA VERDE WC UNIT Well Number: 40H

Monitoring plan description: To be determined by the BLM.

Monitoring plan attachment:

Success standards: To be determined by the BLM.

Pit closure description: Not applicable.

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

Well Name: MESA VERDE WC UNIT Well Number: 40H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: ELECTRIC LINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Well Name: MESA VERDE WC UNIT Well Number: 40H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information: *Permian Basin MOA – see attached SUPO and to be determined by BLM. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** N

Previous Onsite information:

Other SUPO Attachment

MesaVerdeWCUnit40H_AM_20191218084651.pdf

MesaVerdeWCUnit40H_GasCapPlan_20191218084700.pdf

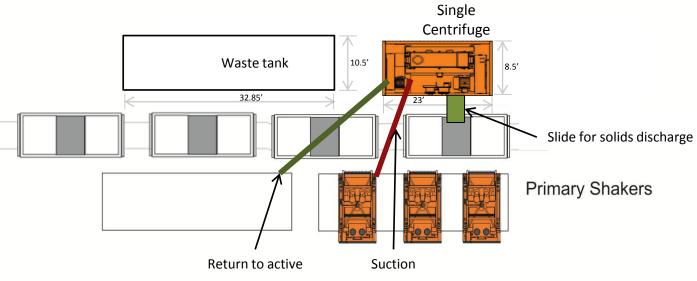
MesaVerdeWCUnit40H_Loc_20191218084711.pdf

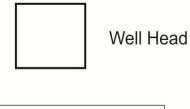
MesaVerdeWCUnit40H_StakeForm_20191218084732.pdf

MesaVerdeWCUnit40H_SUPO_20191218084740.pdf

MesaVerdeWCUnit40H_LVM_20191218084759.pdf









Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III

May 28, 2013

Released to Imaging: 5/10/2021 12:33:23 PM



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

APD ID: 10400052493 **Submission Date:** 12/18/2019

Operator Name: OXY USA INCORPORATED

Well Name: MESA VERDE WC UNIT Well Number: 40H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Well Name: MESA VERDE WC UNIT Well Number: 40H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Well Name: MESA VERDE WC UNIT Well Number: 40H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: MESA VERDE WC UNIT Well Number: 40H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

04/22/2021

APD ID: 10400052493

Operator Name: OXY USA INCORPORATED

Well Name: MESA VERDE WC UNIT

Well Type: OIL WELL

Submission Date: 12/18/2019

Highlighted data reflects the most recent changes

Show Final Text

Well Number: 40H
Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

API Number

40035

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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) 344-6178 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

Pool Name

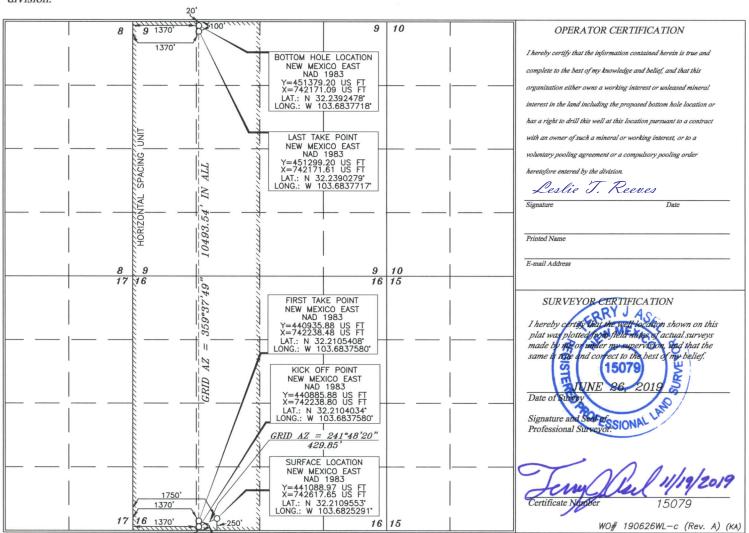
☐ AMENDED REPORT

| U | VELI. | LO | CA | TION | AND | ACREAC | F DEDICA | TION PLAT |
|---|-------|----|-----------|-------|-------------|--------|----------|-----------|
| v | VLLL | LU | $-\alpha$ | IIUIV | ΔUU | ACALAC | | HONELAI |

Pool Code

| | 4 | 8825 | | | | | | | | |
|---------------|--|-----------------|-----------------------------------|-----------|---------------|------------------|---------------|---------|--------------------|-----------|
| 320829 | erty Code | | Property Name MESA VERDE WC UNIT | | | | | | Well Number 40H | |
| OGI | RID No. | | | Operate | or Name | | | | | Elevation |
| | | | | OXY US | A INC. | | | | 3 | 571.8' |
| | | | | Surface L | ocation | | | | | |
| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/We | est line | County |
| N | 16 | 24 SOUTH | 32 EAST, N.M. | P. M. | 250' | SOUTH | 1750' | WEST | | LEA |
| | Bottom Hole Location If Different From Surface | | | | | | | | | |
| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/We | est line | County |
| C | 9 | 24 SOUTH | 32 EAST, N.M. | P. M. | 20' | NORTH | 1370' | WES | ST | LEA |
| Dedicated | 1 A cres | Joint or Infill | Consolidation Code | Order No | | | | | | |

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



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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

| Date: 12-4-2019 | |
|-----------------------------------|---|
| □ Original | Operator & OGRID No.: OXY USA INC 16696 |
| ☐ Amended - Reason for Amendment: | |

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name | APÍ | Well Location (ULSTR) | Footages | Expected MCF/D | Flared /Vent | Comments |
|----------------------------|--------------------------|-----------------------|---------------------|----------------|--------------|----------|
| MESA VERDE BS UNIT 44H 30- | Pending 025-48825 | M-Sec.16-T24S-R32E | 635 FSL 1140 FWL | 5,500 | 0 | |
| MESA VERDE BS UNIT 45H | Pending | M-Sec.16-T24S-R32E | 635 FSL 1175 FWL | 5,500 | 0 | |
| MESA VERDE BS UNIT 46H | Pending | M-Sec.16-T24S-R32E | 635 FSL 1210 FWL | 5,500 | 0 | |
| MESA VERDE BS UNIT 59H | Pending | M-Sec.16-T24S-R32E | 635 FSL 865 FWL | 2,500 | 0 | |
| MESA VERDE BS UNIT 60H | Pending | M-Sec.16-T24S-R32E | 635 FSL 900 FWL | 2,500 | 0 | |
| MESA VERDE BS UNIT 73H | Pending | M-Sec.16-T24S-R32E | 250 FSL 500 FWL | 3,000 | 0 | |
| MESA VERDE BS UNIT 74H | Pending | M-Sec.16-T24S-R32E | 250 FSL 535 FWL | 3,000 | 0 | |
| MESA VERDE WC UNIT 39H | Pending | N-Sec.16-T24S-R32E | 250 FSL 1715 FWL | 7,200 | 0 | |
| MESA VERDE WC UNIT 40H | Pending | N-Sec.16-T24S-R32E | 250 FSL 1750 FWL | 7,200 | 0 | |
| MESA VERDE WC UNIT 41H | Pending | N-Sec.16-T24S-R32E | 250 FSL 1785 FWL | 7,200 | 0 | |

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Enterprise ("Enterprise") and is connected to Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. 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

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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 <u>Enterprise</u> system at that time. Based on current information, it is <u>OXY's</u> 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.

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
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

CONDITIONS

Action 25142

CONDITIONS OF APPROVAL

| Operator: | | | Action Number: | Action Type: |
|---------------------------|----------------------|-------|----------------|--------------|
| OXY USA INC P.O. Box 4294 | Houston, TX772104294 | 16696 | 25142 | FORM 3160-3 |

| OCD Reviewer | Condition |
|-----------------|--|
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 |
| pkautz | 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 |