# NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-3 (June 2015)

DEC 18 2018

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

# **UNITED STATES**

| PENTAL OF THE MANAGEMENT OF THE PENTAL OF TH |                           |  |                   | 5. Lease Serial No. NMNM077018                     |                                       |
|--|---------------------------|--|-------------------|--|---------------------------------------|
| APPLICATION FOR PERMIT TO D  | RILL OR                   | REENTER                                  |                   | 6. If Indian, Allotee or T                         | ribe Name                             |
|  | EENTER                    |  |                   | 7. If Unit or CA Agreem  8. Lease Name and Well    |                                       |
| Ic. Type of Completion: Hydraulic Fracturing S   | ingle Zone [              | ne Multiple Zone                         |                   | LENGTH CC 6_7 FEDERAL COM  25H  333 007            |                                       |
| Name of Operator     OXY USA INCORPORATED  |                           | 166                                      | 96                | 9. API Well No.<br>30-015-4                        | 45566                                 |
| 3a. Address<br>5 Greenway Plaza, Suite 110 Houston TX 77046  | 3b. Phone N<br>(713)366-5 | lo. (include area cod<br>716             | 'e)               | 10. Field and Pool, or Ex<br>PIERCE CANYON BO      | · · · · · · · · · · · · · · · · · · · |
| <ol> <li>Location of Well (Report location clearly and in accordance         At surface LOT 1 / 65 FNL / 1076 FEL / LAT 32.25402         At proposed prod. zone SWSE / 20 FSL / 1380 FEL / LA</li> </ol>   | .79 / LONG -              | 104.0187178                              | 96315             | 11. Sec., T. R. M. or Blk<br>SEC 6 / T24S / R29E / |                                       |
| 14. Distance in miles and direction from nearest town or post off 4 miles  | ice*                      | (  |                   | 12. County or Parish<br>EDDY                       | 13. State<br>NM                       |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  | 16. No of ac              | cres in lease                            | 17. Spacii<br>640 | ng Unit dedicated to this v                        | vell                                  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.   |                           | 1  |                   | /BIA Bond No. in file<br>SB000226                  |                                       |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2956 feet  | 22. Approxi<br>03/28/2019 | imate date work will                     | start*            | 23. Estimated duration 20 days                     |                                       |
|  | 24. Attac                 | chments                                  |                   |  |                                       |
| The following, completed in accordance with the requirements of (as applicable)  | of Onshore Oil            | and Gas Order No.                        | l, and the I      | Hydraulic Fracturing rule p                        | ner 43 CFR 3162.3-3                   |
| Well plat certified by a registered surveyor.     A Drilling Plan.   |                           | 4. Bond to cover the ltem 20 above).     | ne operation      | ns unless covered by an exi                        | sting bond on file (see               |
| 3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office   | e).                       | 6. Such other site sp<br>BLM.            |                   | rmation and/or plans as may                        | be requested by the                   |
| 25. Signature<br>(Electronic Submission)   |                           | (Printed/Typed) Stewart / Ph: (713       | 3)366-5716        | Dat 08/  | te<br>/22/2018                        |
| Title Sr. Regulatory Advisor   |                           |  |                   |  |                                       |
| Approved by (Signature) (Electronic Submission)  | Cody                      | e (Printed/Typed)<br>Layton / Ph: (575): | 234-5959          | Dai<br>12.   | de<br>/07/2018                        |
| Title Assistant Field Manager Lands & Minerals   |                           | SBAD                                     |                   |  |                                       |
| Application approval does not warrant or certify that the applica applicant to conduct operations thereon.  Conditions of approval, if any, are attached.  |                           |  |                   |  | ·                                     |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements   |                           |  |                   |  | lepartment or agency                  |

\*(Instructions on page 2)

(Continued on page 2)

pproval Date: 12/07/2018 Rev 12-19-18

### **INSTRUCTIONS**

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

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

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

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

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

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

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

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agencysponsored information collection unless it displays a currently valid OMB control number.

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

### **Additional Operator Remarks**

### **Location of Well**

1. SHL: LOT 1 / 65 FNL / 1076 FEL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.2540279 / LONG: -104.0187178 ( TVD: 0 feet, MD: 0 feet )
PPP: SWNE / 1329 FNL / 1383 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.235944 / LONG: -104.019657 ( TVD: 8512 feet, MD: 14780 feet )
PPP: NWNE / 1 FNL / 1384 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.23596 / LONG: -104.019666 ( TVD: 8509 feet, MD: 13460 feet )
PPP: LOT 2 / 100 FNL / 1380 FEL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.25394 / LONG: -104.0197011 ( TVD: 8497 feet, MD: 8841 feet )
PPP: SWSE / 1329 FSL / 1383 FEL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.243249 / LONG: -104.019675 ( TVD: 8506 feet, MD: 12140 feet )
BHL: SWSE / 20 FSL / 1380 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.2250378 / LONG: -104.0196315 ( TVD: 8523 feet, MD: 18792 feet )

### **BLM Point of Contact**

Name: Tanja Baca

Title: Admin Support Assistant

Phone: 5752345940 Email: tabaca@blm.gov

(Form 3160-3, page 3)

### **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

(Form 3160-3, page 4)

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA Incorporated

LEASE NO.: | NMNM77018

WELL NAME & NO.: Length CC 6 7 Federal Com 25H

SURFACE HOLE FOOTAGE: 65'/N & 1076'/E BOTTOM HOLE FOOTAGE 20'/S & 1380'/E

LOCATION: Section 6, T24S, R29E, NMPM COUNTY: Eddy County, New Mexico

| Potash               | None           | C Secretary   | C R-111-P      |
|----------------------|----------------|---------------|----------------|
| Cave/Karst Potential | CLow           |               | ← High         |
| Variance             | None           | Flex Hose     | <b>○</b> Other |
| Wellhead             | Conventional   | Multibowl     |                |
| Other                | ☐4 String Area | ☐Capitan Reef | □WIPP          |

### A. HYDROGEN SULFIDE

1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### **B. CASING**

- 1. The 10 3/4 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet 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 **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.

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

2. The minimum required fill of cement behind the 7 5/8 inch intermediate casing is:

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. Excess calculates to 20% - additional cement might be required.
- ❖ In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
  - 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).

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### Option 1:

i. 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.

### Option 2:

- ii. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### D. SPECIAL REQUIREMENT(S)

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

• In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

MHH 12012018

### **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)
  - Chaves and Roosevelt Counties
    Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
    During office hours call (575) 627-0272.
    After office hours call (575)
  - Eddy County
     Call 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 2<sup>nd</sup> 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.

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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.
- 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.
- 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.

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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: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 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

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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.
- 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.

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### 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.

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### PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
OXY USA Incorporated
NMNM77018
Length CC 6\_7 Federal Com 25H
65'/N & 1076'/E
20'/S & 1380'/E
Section 6, T24S, R29E, NMPM
Eddy County, New Mexico

### **TABLE OF CONTENTS**

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

| General Provisions                              |
|---|
| Permit Expiration                               |
| Archaeology, Paleontology, and Historical Sites |
| Noxious Weeds                                   |
| Special Requirements                            |
| Cave/Karst                                      |
| VRM   |
| Cultural  |
| ☐ Construction                                  |
| Notification                                    |
| Topsoil   |
| Closed Loop System                              |
| Federal Mineral Material Pits                   |
| Well Pads                                       |
| Roads   |
| Road Section Diagram                            |
| ☑ Production (Post Drilling)                    |
| Well Structures & Facilities                    |
| Pipelines                                       |
| Electric Lines                                  |
| Interim Reclamation                             |
| Final Abandonment & Reclamation                 |

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### I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

### II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

### III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

### IV. NOXIOUS WEEDS

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

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### V. SPECIAL REQUIREMENT(S)

## <u>Cave/Karst Mitigation Measures for project portions occurring on BLM Surface or intersecting Federal Minerals:</u>

The following stipulations will be applied to minimize impacts during construction, drilling and production:

### **Construction:**

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

### No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

### **Pad Berming:**

- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of
  the berm height surrounding the well pad is not compromised. (Any access road
  crossing the berm cannot be lower than the berm height.)
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

### **Tank Battery Liners and Berms:**

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

### **Leak Detection System:**

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A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

### **Automatic Shut-off Systems:**

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

### **Cave/Karst Subsurface Mitigation**

The following stipulations will be applied to protect cave/karst and ground water concerns:

### **Rotary Drilling with Fresh Water:**

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

### **Directional Drilling:**

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

### **Lost Circulation:**

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

### **Abandonment Cementing:**

Upon well abandonment in cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

### **Pressure Testing:**

The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

#### **BURIED PIPELINES:**

 The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.

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- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

### FLOWLINES (SURFACE):

- Flowlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize the possibility of leaks and spills from entering karst systems.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

### **POWERLINES:**

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

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| EXHIBIT NO. | 1 |  |
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Date of Issue: 9/24/2018

NM-13996

## Bureau of Land Management, Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

### Cultural and Archaeological Resources

BLM Report No. 18-5436

### NOTICE OF STIPULATIONS

Historic properties in the vicinity of this project are protected by federal law. In order to ensure that they are not damaged or destroyed by construction activities, the project proponent and construction supervisors shall ensure that the following stipulations are implemented.

| Crawford Buried Pipeline Right-of-Way   |
|---|
| 1). A 3-day preconstruction call-in notification. Contact BLM Inspection and Enforcement at   |
| <b>2. Professional archaeological monitoring.</b> Contact your BLM project archaeologist at (575) 234-5917 for assistance.  |
| These stipulations must be given to your monitor at least <u>5 days</u> prior to the start of construction.   |
| No construction, including vegetation removal or other site prep may begin prior to the arrival of the monitor.   |
| 3. Cultural site barrier fencing. (Your monitor will assist you).   |
| A temporary site protection barrier(s) shall be erected prior to all ground-disturbing activities. The minimum barrier(s) shall consist of upright wooden survey lath spaced no more than ten (10) feet apart and marked with blue ribbon flagging or blue paint. There shall be no construction activities or vehicular traffic past the barrier(s) at any time. |
| A permanent, 4-strand barbed wire fence strung on standard "T-posts" shall be erected prior to all ground-disturbing activities. No construction activities or vehicle traffic are allowed past the fence.  |
| 4. The archaeological monitor shall:  |
| Insure that the proposed project bores under HCIP-40428.  |
| Observe all ground-disturbing activities within 100 feet of cultural site.  |
| Submit a brief monitoring report within 30 days of completion of monitoring.  |
|   |
|   |
| If subsurface cultural resources are encountered during the monitoring, all activities shall cease and a BLM-CFO archaeologist shall be notified immediately.   |
| IF THE CONTRACT ARCHAEOLOGIST DOES NOT KNOW WHERE THE SITE(S) ARE LOCATED AT PLEASE COME BY THE CARLSBAD BLM AND MAPS AND OTHER DATA WILL BE PROVIDED UPON REQUEST TO THE CONTRACT ARCHAEOLOGIST  |
|   |

Site Protection and Employee Education: It is the responsibility of the project proponent and his construction supervisor to inform all employees and subcontractors that cultural and archaeological sites are to be avoided by all personnel, vehicles, and equipment; and that it is illegal to collect, damage, or disturb cultural resources on Public Lands.

For assistance contact:

Aaron Whaley (575) 234-5986

Elia Perez (575)-234-6231 Garrett Leitermann (575) 234-2239 Bruce Boeke (575) 234-5917

- The entirety of the well pads and CTB would be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pads. Topsoil should not be used to construct the
  - No water flow from the uphill side(s) of the pads should be allowed to enter the well pads. The berm should be maintained through the life of the wells and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pads or facilities during the life of the project would be quickly corrected and proper measures would be taken to prevent future erosion.

### VI. CONSTRUCTION

#### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

### B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

### C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

### D. FEDERAL MINERAL MATERIALS PIT

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

### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

### F. EXCLOSURE FENCING (CELLARS & PITS)

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### **Exclosure Fencing**

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

### G. ON LEASE ACCESS ROADS

### Road Width

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

### Surfacing

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

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

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

### Crowning

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

#### Ditching

Ditching shall be required on both sides of the road.

### **Turnouts**

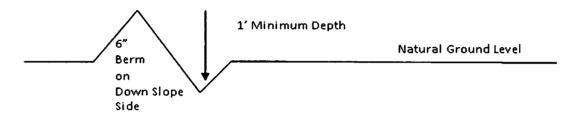
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### Drainage

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

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

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



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

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

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

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

### Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

### Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

### **Public Access**

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

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### **Construction Steps**

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

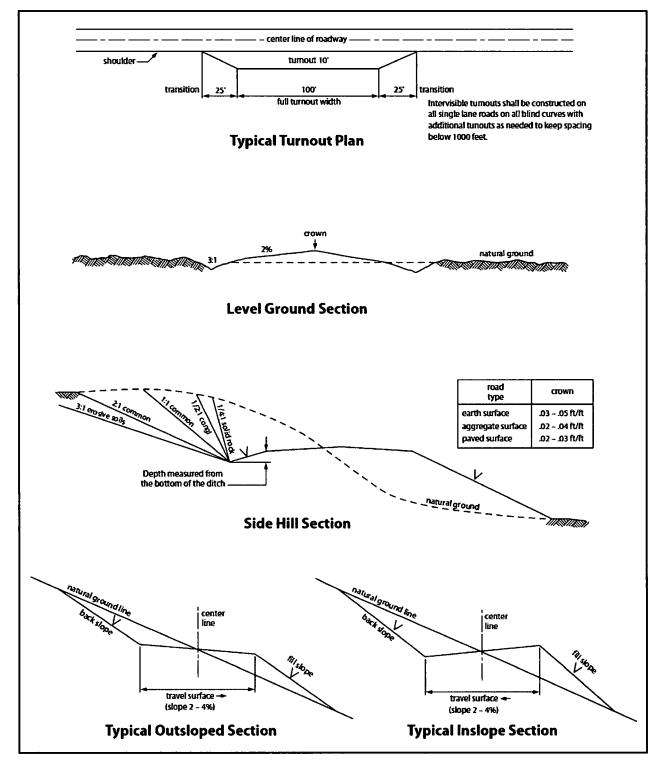


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

### VII. PRODUCTION (POST DRILLING)

### A. WELL STRUCTURES & FACILITIES

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

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

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

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

### Chemical and Fuel Secondary Containment and Exclosure Screening

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

### **Open-Vent Exhaust Stack Exclosures**

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

### **Containment Structures**

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

### **Painting Requirement**

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

### B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third

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parties.

- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
  - a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
  - b. Activities of other parties including, but not limited to:
    - (1) Land clearing.
    - (2) Earth-disturbing and earth-moving work.
    - (3) Blasting.
    - (4) Vandalism and sabotage.
  - c. Acts of God.

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

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

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.
- 6. All construction and maintenance activity will be confined to the authorized right-of-way width of \_\_\_\_\_\_\_ feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing

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by the Authorized Officer.

- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the

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authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

### **BURIED PIPELINE STIPULATIONS**

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

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

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

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| 5. All construction and maintenance activity will be confined to the authorized right-of-way.  |
|--|
| 6. The pipeline will be buried with a minimum cover of _36_ inches between the top of the pipe and ground level.   |
| 7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:  |
| • Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <b>20</b> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)   |
| • Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)   |
| • The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)  |
| 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.  |
| 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer. |
| 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.   |
| 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.  |

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| (X) seed mixture 1  | ( ) seed mixture 3   |
|---|--|
| ( ) seed mixture 2  | ( ) seed mixture 4   |
| ( ) seed mixture 2/LPC  | ( ) Aplomado Falcon Mixture  |
|   | safety requirements shall be painted by the holder. The paint used shall be color which simulates sen, Munsell Soil Color No. 5Y 4/2.  |
| way and at all road crossings. At a minimum, s<br>number, and the product being transported. Al   | the point of origin and completion of the right-of-<br>signs will state the holder's name, BLM serial<br>I signs and information thereon will be posted in a<br>naintained in a legible condition for the life of the  |
| before maintenance begins. The holder will tal  | uthorized Officer in consultation with the holder<br>ke whatever steps are necessary to ensure that the<br>termined necessary during the life of the pipeline,   |
| immediately reported to the Authorized Office immediate area of such discovery until written Authorized Officer. An evaluation of the discovery | ng on his behalf, on public or Federal land shall be r. Holder shall suspend all operations in the authorization to proceed is issued by the overy will be made by the Authorized Officer to ss of significant cultural or scientific values. The ation and any decision as to proper mitigation |
| of operations. Weed control shall be required of which includes associated roads, pipeline corri  | oxious weeds become established within the areas on the disturbed land where noxious weeds exist, dor and adjacent land affected by the establishment consult with the Authorized Officer for acceptable g EPA and BLM requirements and policies.  |
|   | ct and maintain pipeline/utility trenches that are not at livestock, wildlife, and humans from becoming onstruct and maintain escape ramps, ladders, or  |

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

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other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

### C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the

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Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

### 11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

### VIII. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

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

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

### IX. FINAL ABANDONMENT & RECLAMATION

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

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

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After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

### **Seed Mixture 1 for Loamy Sites**

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

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

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

| Species                                    |     | lb/acre |
|--|-----|---------|
| Plains lovegrass (Eragrostis intermedia)   | 0.5 |         |
| Sand dropseed (Sporobolus cryptandrus)     | 1.0 |         |
| Sideoats grama (Bouteloua curtipendula)    | 5.0 |         |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |         |

<sup>\*</sup>Pounds of pure live seed:

C---:--

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



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



#### **Operator Certification**

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

NAME: David Stewart Signed on: 08/22/2018

Title: Sr. Regulatory Advisor

Street Address: 5 Greenway Plaza, Suite 110

City: Houston State: TX Zip: 77046

Phone: (713)366-5716

Email address: David\_stewart@oxy.com

#### Field Representative

Representative Name: Jim Wilson

Street Address: 6001 Deauville

City: Midland State: TX Zip: 79706

Phone: (575)631-2442

Email address: jim\_wilson@oxy.com



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

# **Application Data Report**

APD ID: 10400033343

**Operator Name: OXY USA INCORPORATED** 

Well Name: LENGTH CC 6\_7 FEDERAL COM

Well Type: OIL WELL

Submission Date: 08/22/2018

Well Number: 25H

Well Work Type: Drill



**Show Final Text** 

#### Section 1 - General

APD ID:

10400033343

Tie to previous NOS?

Submission Date: 08/22/2018

**BLM Office: CARLSBAD** 

User: David Stewart

Title: Sr. Regulatory Advisor

Federal/Indian APD: FED

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

Lease number: NMNM077018

Lease Acres: 80

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

Zip: 77046

**Operator PO Box:** 

**Operator City:** Houston

State: TX

**Operator Phone:** (713)366-5716

**Operator Internet Address:** 

#### **Section 2 - Well Information**

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: LENGTH CC 6\_7 FEDERAL COM

Well Number: 25H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE CANYON Pool Name: 2ND BONE

**BONE SPRING** 

**SPRING** 

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

Describe other minerals:

Well Class: HORIZONTAL

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Number: 35H

HEIGHT CC 6-7 FEDERAL COM

Number of Legs:

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type: Well sub-Type: INFILL

Describe sub-type:

Distance to town: 4 Miles Distance to nearest well: 35 FT Distance to lease line: 20 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: LengthCC6\_7FdCom25H\_C102\_20180821153159.pdf

LengthCC6\_7FdCom25H\_SitePlan\_20180821153218.pdf

Well work start Date: 03/28/2019 Duration: 20 DAYS

#### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83 Vertical Datum: NAVD88

Survey number:

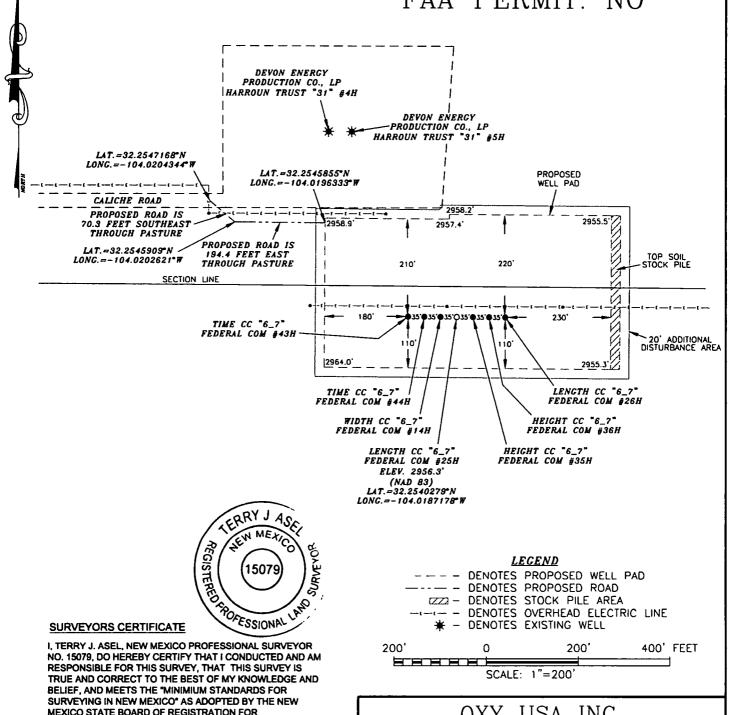
|     | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD  | dΛΤ |
|-----|---------|--------------|---------|--------------|------|-------|---------|-------------------|----------|-----------|--------|-------|----------|------------|--------------|-----------|-----|-----|
| SHL | 65      | FNL          | 107     | FEL          | 24S  | 29E   | 6       | Lot               | 32.25402 | 1         | EDD    | NEW   | 1.4      | F          | FEE          | 295       | 0   | 0   |
| Leg |         |              | 6       |              |      |       |         | 1                 | 79       | 104.0187  | ľ      | MEXI  |          |            |              | 6         |     |     |
| #1  |         |              |         |              |      |       |         |                   |          | 178       |        | СО    | СО       |            |              |           |     |     |
| KOP | 50      | FNL          | 138     | FEL          | 24\$ | 29E   | 6       | Lot               | 32.25407 | -         | EDD    | NEW   | NEW      | F          | FEE          | -         | 795 | 793 |
| Leg |         |              | 0       |              |      |       |         | 2                 | 75       | 104.0197  | Υ      | MEXI  | MEXI     |            |              | 498       | 0   | 6   |
| #1  |         |              |         |              |      |       |         |                   |          | 014       |        | СО    | co       |            |              | 0         |     |     |
| PPP | 100     | FNL          | 138     | FEL          | 248  | 29E   | 6       | Lot               | 32.25394 | -         | EDD    | NEW   | NEW      | F          | FEE          | -         | 884 | 849 |
| Leg |         |              | 0       |              |      |       |         | 2                 |          | 104.0197  | Υ      | MEXI  | MEXI     |            |              | 554       | 1   | 7   |
| #1  |         |              |         |              |      |       |         |                   |          | 011       |        | СО    | СО       |            |              | 1         |     |     |

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

|                   | 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        | DVT      |
|-------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|----------|-------------------|-------------------|------------|----------------------|---------------|-----------|----------|
| PPP<br>Leg<br>#1  | 132<br>9 | FSL          | 138<br>3 | FEL          | 24S  | 29E   | 6       | Aliquot<br>SWSE   | 32.24324<br>9  | -<br>104.0196<br>75  | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>077018       | -<br>555<br>0 | 121<br>40 | 850<br>6 |
| PPP<br>Leg<br>#1  | 132<br>9 | FNL          | 138<br>3 | FEL          | 248  | 29E   | 7       | Aliquot<br>SWNE   | 32.23594<br>4  | -<br>104.0196<br>57  | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMLC0<br>065970<br>C | -<br>555<br>6 | 147<br>80 | 851<br>2 |
| PPP<br>Leg<br>#1  | 1        | FNL          | 138<br>4 | FEL          | 248  | 29E   | 7       | Aliquot<br>NWNE   | 32.23959<br>6  | -<br>104.0196<br>66  | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>086905       | -<br>555<br>3 | 134<br>60 | 850<br>9 |
| EXIT<br>Leg<br>#1 | 100      | FSL          | 138<br>0 | FEL          | 24S  | 29E   | 7       | Aliquot<br>SWSE   | 32.22525<br>77 | -<br>104.1963<br>2   | EDD<br>Y |                   | NEW<br>MEXI<br>CO | F          | FEE                  | -<br>556<br>7 | 187<br>12 | 852<br>3 |
| BHL<br>Leg<br>#1  | 20       | FSL          | 138<br>0 | FEL          | 24\$ | 29E   | 7       | Aliquot<br>SWSE   | 32.22503<br>78 | -<br>104.0196<br>315 | EDD<br>Y |                   | NEW<br>MEXI<br>CO | F          | FEE                  | -<br>556<br>7 | 187<br>92 | 852<br>3 |

# OXY USA INC. LENGTH CC "6\_7" FEDERAL COM #25H SITE PLAN

FAA PERMIT: NO



# OXY USA INC.

LENGTH CC "6\_7" FEDERAL COM #25H LOCATED AT 65' FNL & 1076' FEL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

| Survey Date: 06/28/18   | Sheet 1 of     | 1 Sheets     |
|-------------------------|----------------|--------------|
| W.O. Number: 180628WL-b | Drawn By: KA R | ev:          |
| Date: 08/03/18          | 180628WL-b S   | cale:1"=200' |

MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.



Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



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

**Drilling Plan Data Report** 

APD ID: 10400033343

Submission Date: 08/22/2018

Highlighted data reflects the most

**Operator Name: OXY USA INCORPORATED** 

Well Number: 25H

recent changes

Well Name: LENGTH CC 6 7 FEDERAL COM

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

## **Section 1 - Geologic Formations**

| Formation |                 |           | True Vertical | Measured |                                     |                                     | Producing |
|-----------|-----------------|-----------|---------------|----------|-------------------------------------|-------------------------------------|-----------|
| ID        | Formation Name  | Elevation | Depth         | Depth    | Lithologies                         | Mineral Resources                   | Formation |
| 1         | RUSTLER         | 2956      | 115           | 115      | SHALE, DOLOMITE, ANH<br>YDRITE      | USEABLE WATER                       | No        |
| 2         | SALADO          | 2435      | 523           | 523      | SHALE,DOLOMITE,HAL<br>ITE,ANHYDRITE | OTHER: SALT                         | No        |
| 3         | CASTILE         | 1535      | 1423          | 1423     | ANHYDRITE                           | OTHER : salt                        | No        |
| 4         | LAMAR           | 227       | 2731          | 2731     | LIMESTONE,SANDSTO<br>NE,SILTSTONE   | NATURAL<br>GAS,OIL,OTHER :<br>BRINE | No        |
| 5         | BELL CANYON     | 157       | 2801          | 2801     | SANDSTONE,SILTSTO<br>NE             | NATURAL<br>GAS,OIL,OTHER :<br>BRINE | No        |
| 6         | CHERRY CANYON   | -782      | 3740          | 3740     | SANDSTONE,SILTSTO<br>NE             |                                     | No        |
| 7         | BRUSHY CANYON   | -1977     | 4933          | 4933     | LIMESTONE,SANDSTO<br>NE,SILTSTONE   |                                     | No        |
| 8         | BONE SPRING     | -3567     | 6523          | 6526     | LIMESTONE,SANDSTO<br>NE,SILTSTONE   |                                     | Yes       |
| 9         | BONE SPRING 1ST | -4552     | 7510          | 7521     | LIMESTONE,SANDSTO<br>NE,SILTSTONE   | NATURAL GAS,OIL                     | Yes       |
| 10        | BONE SPRING 2ND | -5424     | 8382          | 8483     | LIMESTONE,SANDSTO<br>NE,SILTSTONE   | NATURAL GAS,OIL                     | Yes       |

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 8523

Equipment: 13-5/8" 5M Annular, 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: 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. 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

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

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. BOP Break Testing Request - As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions: • After a full BOP test is conducted on the first well on the pad. • When skidding to drill an intermediate section that does not penetrate into the Wolfcamp. • Full BOP test will be required prior to drilling any production hole.

#### **Choke Diagram Attachment:**

LengthCC6\_7FdCom25H\_ChkManifold\_20180822135957.pdf

#### **BOP Diagram Attachment:**

LengthCC6\_7FdCom25H\_BOP\_20180822140009.pdf
LengthCC6\_7FdCom25H\_FlexHoseCert\_20180822140022.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<br>5 | 10.75    | NEW       | API      | N              | 0          | 400           | 0           | 400            |             |                | 400                         | J-55      | 40.5   | BUTT           | 1.12<br>5   | 1.2      | BUOY          | 1.4      | BUOY         | 1.4     |
| 2         | INTERMED<br>IATE | 9.87<br>5 | 7.625    | NEW       | API      | N              | 0          | 7849          | 0           | 7836           |             |                | 7849                        | L-80      | 26.4   | витт           | 1.12<br>5   | 1.2      | BUOY          | 1.4      | BUOY         | 1.4     |
| 3         | PRODUCTI<br>ON   | 6.75      | 5.5      | NEW       | API      | N              | 0          | 18792         | 0           | 8532           |             |                | 18792                       | P-<br>110 |        | OTHER -<br>DQX | 1.12<br>5   | 1.2      | BUOY          | 1.4      | BUOY         | 1.4     |

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

LengthCC6\_7FdCom25H\_CsgCriteria\_20180822140111.pdf

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

#### **Casing Attachments**

Casing ID: 2

**String Type:**INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

LengthCC6\_7FdCom25H\_CsgCriteria\_20180822140144.pdf

Casing ID: 3

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

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

LengthCC6\_7FdCom25H\_CsgCriteria\_20180822140221.pdf

 $Length CC6\_7Fd Com 25H\_5.5\_20\_P110\_DQX\_20180822140236.pdf$ 

| Section | n 4 - | Cam | ant |
|---------|-------|-----|-----|
|         |       |     |     |

| String Type | Lead/Tail | Stage Tool<br>Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives   |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-------------|
| SURFACE     | Lead      |                     | 0      | 400       | 326          | 1.33  | 14.8    | 434   | 100     | CI C        | Accelerator |

| INTERMEDIATE | Lead | 2781 | 0 | 2781 | 669 | 1.67 | 13.6 | 1117 | 100 | CI C | Accelerator, Retarder |
|--------------|------|------|---|------|-----|------|------|------|-----|------|-----------------------|
|              |      | L    |   |      |     |      |      |      |     |      |                       |

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

| String Type  | Lead/Tail | Stage Tool<br>Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives                     |
|--------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-------------------------------|
| INTERMEDIATE | Lead      |                     | 2681   | 6849      | 645          | 2.58  | 10.2    | 1664  | 20      | Pozzolan/C  | Retarder                      |
| INTERMEDIATE | Tail      |                     | 6849   | 7849      | 167          | 1.61  | 13.2    | 269   | 20      | CIH         | Retarder, Dispersant,<br>Salt |
| PRODUCTION   | Lead      |                     | 7349   | 1879<br>2 | 839          | 1.38  | 13.2    | 1158  | 20      | СІН         | Retarder, Dispersant,<br>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. 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.

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

#### **Circulating Medium Table**

| Top Depth | Bottom Depth | Mud Type  | Min Weight (lbs/gal) | Max Weight (ibs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | РН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|---|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0         | 400          | WATER-BASED<br>MUD  | 8.6                  | 8.8                  |                     |                             |    |                |                |                 |                            |
| 7849      | 1879<br>2    | OTHER : Water-<br>Based and/or<br>Oil-Based Mud                     | 8                    | 9.6                  |                     |                             |    |                |                |                 |                            |
| 400       | 7849         | OTHER :<br>Saturated Brine-<br>Based Mud<br>and/or Oil-Based<br>Mud | 8                    | 9.6                  |                     |                             |    |                |                |                 |                            |

Well Name: LENGTH CC 6 7 FEDERAL COM Well Number: 25H

## 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 shoe to TD.

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

**GR.MUDLOG** 

#### Coring operation description for the well:

No coring is planned at this time.

#### Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4255 Anticipated Surface Pressure: 2081.4

Anticipated Bottom Hole Temperature(F): 149

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:

LengthCC6\_7FdCom25H\_H2S1\_20180822140712.pdf LengthCC6\_7FdCom25H\_H2S2\_20180822140730.pdf

#### **Section 8 - Other Information**

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

LengthCC6\_7FdCom25H\_DirectPlan\_20180822140750.pdf LengthCC6\_7FdCom25H\_DirectPlot\_20180822140800.pdf

#### Other proposed operations facets description:

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 will be run in case a contingency second stage is required for cement to reach surface. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

**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.

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

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.

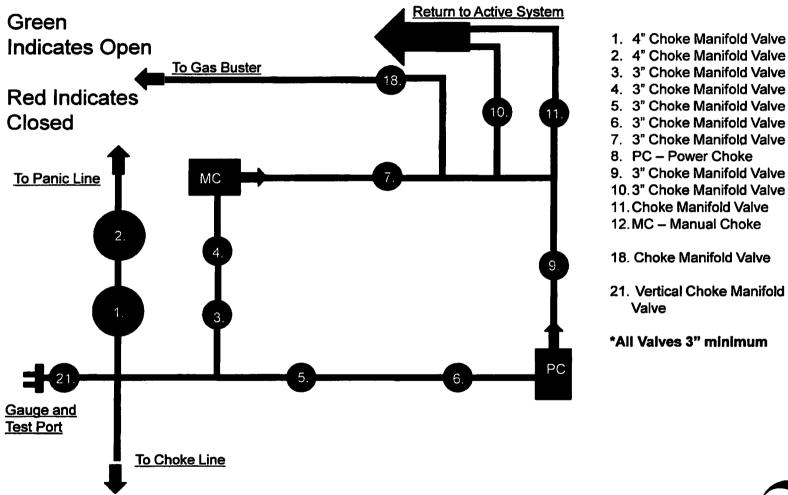
OXY requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that OXY would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.

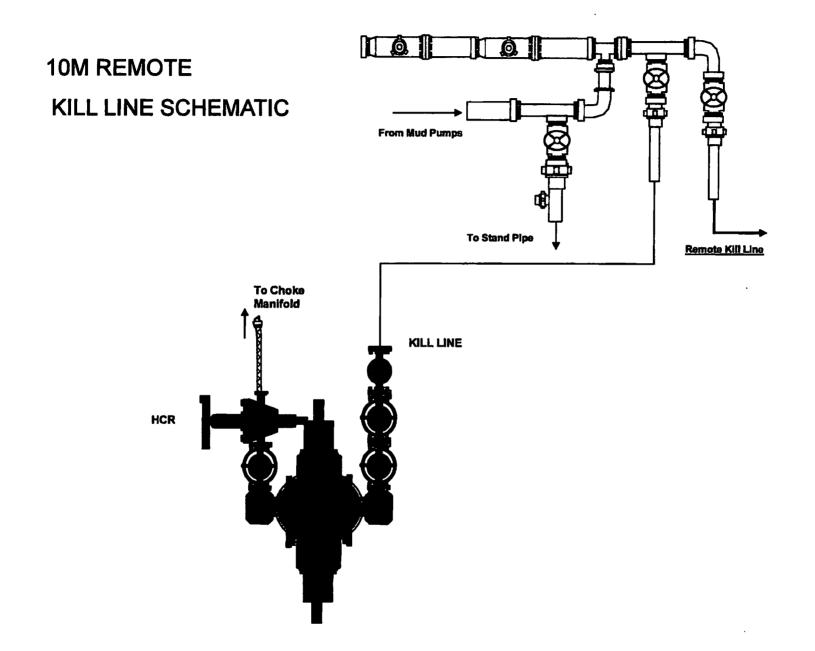
#### Other proposed operations facets attachment:

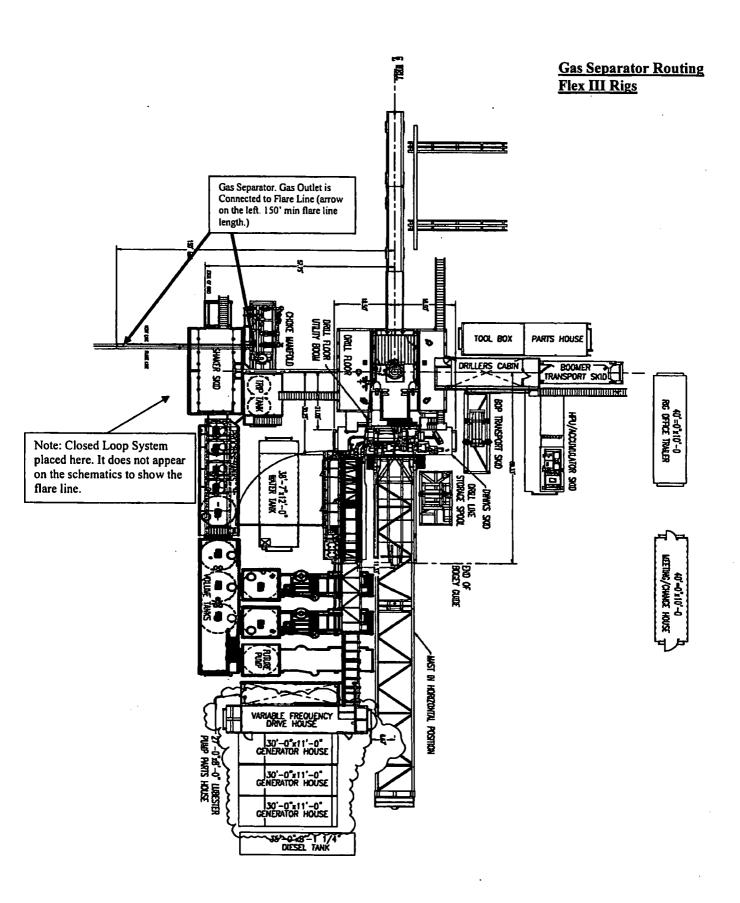
LengthCC6\_7FdCom25H\_DrillPlan\_20180822140818.pdf LengthCC6\_7FdCom25H\_SpudRigData\_20180822140833.pdf

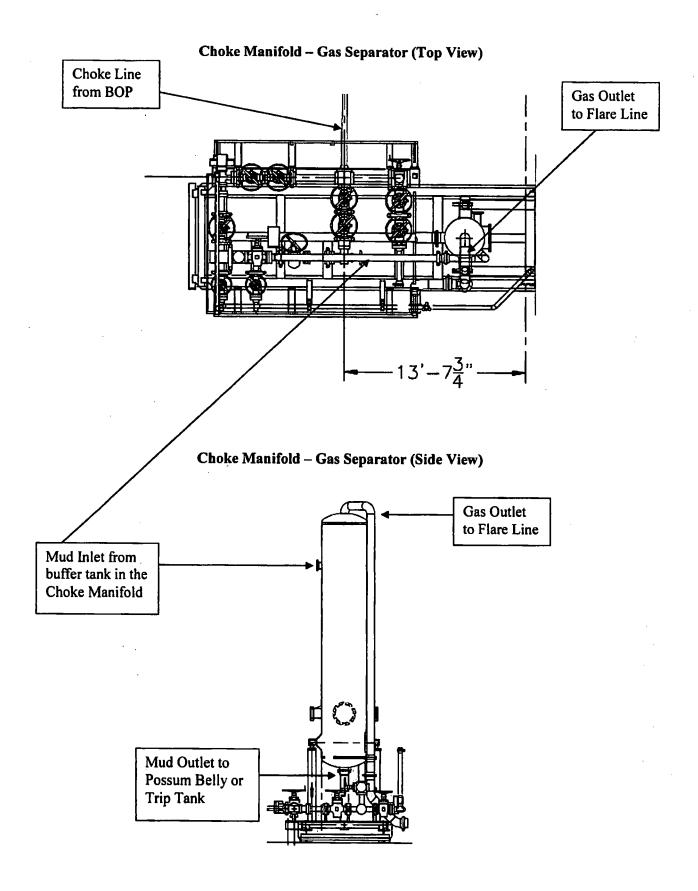
Other Variance attachment:

# 5M Choke Panel

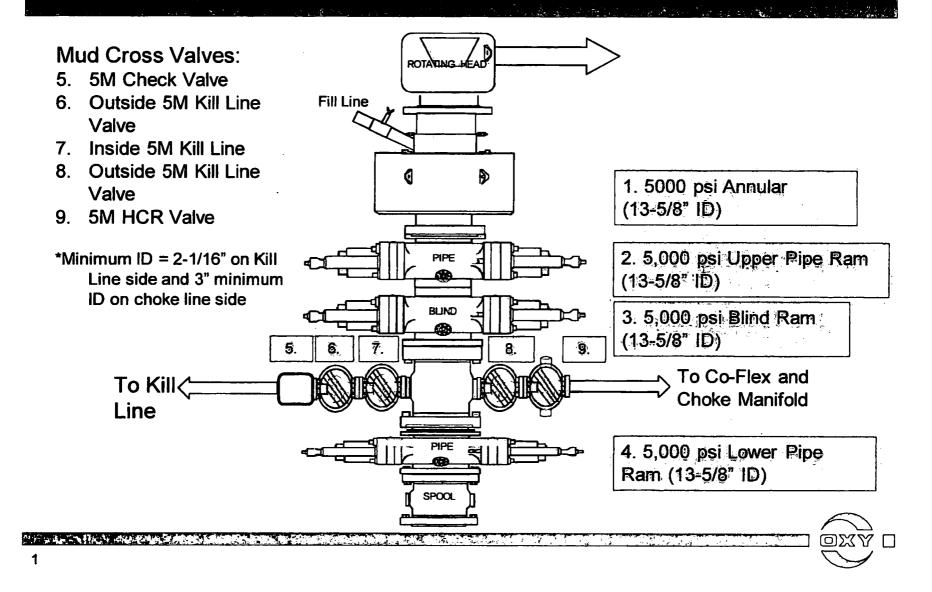


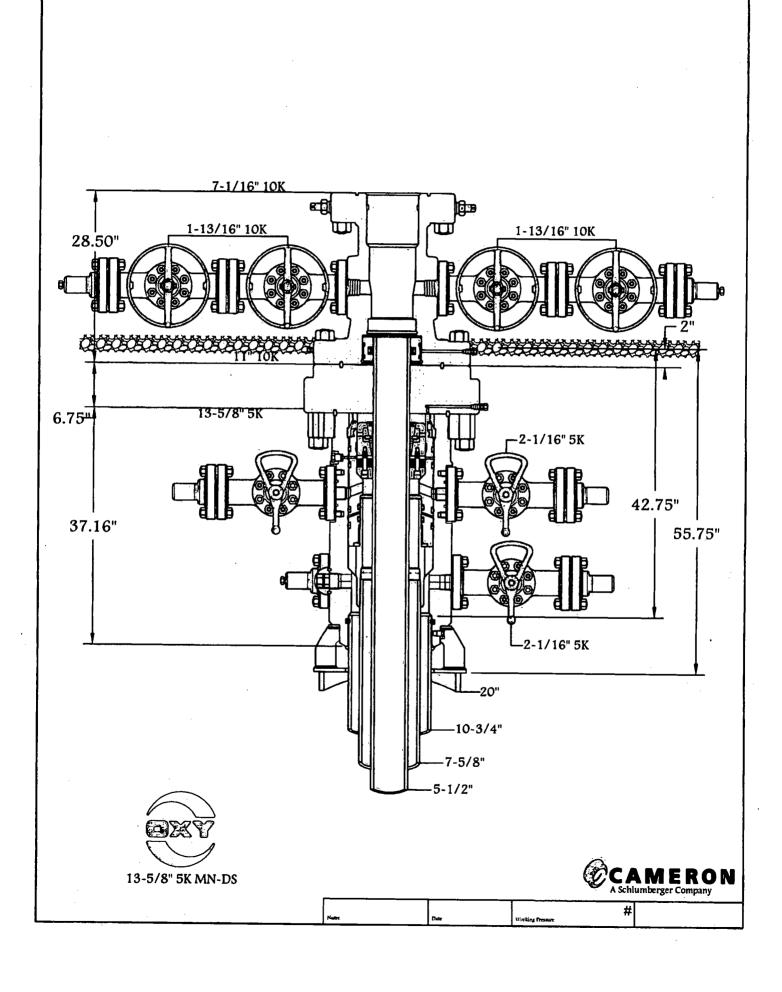






# 5M BOP Stack







Fluid Technology

Quality Document

| QUALI<br>INSPECTION A   | TY CONT                       |                               | CATE     | C       | ERT. N  | 10:   | 746                        |         |
|---|-------------------------------|-------------------------------|----------|---------|---------|---|----------------------------|---------|
| PURCHASER:  | Phoenix Bea                   | ittie Co.                     |          | P       | .O. Nº: |   | 002491                     |         |
| CONTITECH ORDER N°:   | 412638                        | HOSE TYPE:                    | 3°       | ID C    | Cho     | oke and k                                     | (iii Hose                  |         |
| HOSE SERIAL Nº:   | 52777                         | NOMINAL / AC                  | TUAL LE  | NGTH:   |         | 10,67 m                                       | 1                          |         |
| W.P. 68,98 MPa 1  | 0000 psi                      | T.P. 103,4                    | MPa      | 15000   | psi     | Duretton:                                     | 60 ~                       | min.    |
| Pressure test with water at ambient temperature  10 mm = 10 mm = 25 MPa | L                             | attachment.                   | . (1 pag | θ)      |         |   | •                          |         |
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| Type  |                               | Sertal Nº                     |          | Qu      | elity   |   | Heat Nº                    | ,       |
| 3° coupling with  | 917                           | 913                           |          | AISI 4  | 130     |   | T7998A                     |         |
| 4 1/16" Flange end  |                               |                               |          | AISI 4  | 130     |   | <del>26</del> 984          |         |
| INFOCHIP INSTALL  | ED                            |                               |          |         |         |   | API Spec 10<br>mperature r |         |
| WE CERTIFY THAT THE ABOVE<br>PRESSURE TESTED AS ABOVE                   | E HOSE HAS BE<br>WITH SATISFA | EN MANUFACTU<br>CTORY RESULT. | red in a | CCORDAN | ICE WI  | THE TES                                       | MS OF THE OR               | DER AND |
| Date:   | inspector                     |                               | Quality  | Control |         |   |                            |         |
| 04. April. 2008   |                               |                               | 3        | an (    | ind     | Dech Rubb<br>natrial Hit<br>Control De<br>(1) |                            | [<br>   |

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Form No 100/12

# -- PHOENIX Beattie

Phoenix Beattle Corp 11535 Britiscore Fart Crive Haiston, TX 77041 Tel: (832) 327-0145 Fax: (832) 327-0148 E-earli smilliphoenishestite.com was.phoenishestite.com

# **Delivery Note**

| Customer Order Number  | 370-369-001 | Delivery Note Number  | 003078 | Page | 1 |
|--|-------------|---|--------|------|---|
| Customer / Invoice Addres<br>HELMERICH & PAYNE INT'L (<br>1437 SOUTH BOULDER<br>TULSA, OK<br>74119 |             | Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIC 13609 INDUSTRIAL ROAD HOUSTON, TX 77015 | 3 370  |      |   |

| Customer Acc No | Phoenix Beattle Contract Manager | Phoenix Beattle Reference | Date       |
|-----------------|----------------------------------|---------------------------|------------|
| H01             | n. nr                            | 006330                    | 05/23/2008 |

| item<br>No | Beattle Part Number / Description   | Oty<br>Ordered | Oty<br>Sent | Oty To<br>Follow |
|------------|---|----------------|-------------|------------------|
| 1          | HP10CK3A-35-4F1 3° 10K 16C C&K HOSE x 35ft OAL CW 4.1/16° API SPEC FLANGE E/ End 1: 4.1/16° 10Kpsi API Spec 6A Type 68X Flange End 2: 4.1/16° 10Kpsi API Spec 6A Type 68X Flange c/w BX155 Standard ring groove at each end Suitable for HZS Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C | 1              | 1           |                  |
| 2          | SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm IO Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles  | 1              | 1           | 0                |
| 3          | SC725-200CS<br>SAFETY CLAMP 200HM 7.25T C/S GALVANISED  | 1              | 1           | 0                |

Continued...

Form No 100/12

# --- PHOENIX Beattie

Phoenix Beattle Corp 11535 6-fitacore Park Orive Houston, TX 77041 Fat: (832) 327-0141 Fat: (832) 327-0149 Fat: (832) 327-0149 Fat: (832) 327-0149 www.phoenixbeattle.com

# **Delivery Note**

| Customer Order Number 370-369-001   | Delivery Note Number   | 003078 | Page | 2 |
|---|--|--------|------|---|
| Customer / Involos Address HELMERICH & PAYNE INT'L DRILLING CD 1437 SOUTH BOULDER TULSA, OK 74119 | Delivery / Address  HELMERICH & PAYNE IDC  ATTN: JOE STEPHENSON - RIG  13609 INDUSTRIAL ROAD  HOUSTON, TX  77015 | 370    |      |   |

| Customer Acc'No | Phoenix Beattie Contract Manager | Phoenix Beattle Reference | Date       |
|-----------------|----------------------------------|---------------------------|------------|
| H01             | ))]T                             | 006330                    | 05/23/2008 |

| Item<br>No | Beattle Part Number / Description   | Oty<br>Ordered | Oty<br>Sent | Qty To<br>Follow |
|------------|---|----------------|-------------|------------------|
| 4          | SC725-132CS<br>SAFETY CLAMP 132M 7.25T C/S GALVANIZED C/N BOLTS   | 1              | 1           | 0                |
|            | 00CERT-HYDRO<br>HYDROSTATIC PRESSURE TEST CERTIFICATE   | 1              | 1           | 0                |
|            | OOCERT-LOAD<br>LOAD TEST CERTIFICATES   | 1              | 1           | 0                |
|            | OOFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERMORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT | 1              | 1           | 0                |
|            | •   |                |             |                  |
|            |   |                |             |                  |

Phoenix Beattle Inspection Signature :

Received in Good Condition : Signature

Print Name

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

|                                     |   | -    | No or or      | ONI ODGO                       |        |              |                         |   |   |  |  |  |  |   |  |  |  |  |  | Ī |  |  |
|-------------------------------------|---|------|---------------|--------------------------------|--------|--------------|-------------------------|---|---|--|--|--|--|---|--|--|--|--|--|---|--|--|
|                                     | Pone  | a Re | Oro No        | 20.0                           |        |              |                         |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
|                                     |   |      | Bln No        | MATER                          | W.     | 4177         | 1 5                     | 3 |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| ate                                 |   |      | Test Cert No  |                                |        |              |                         |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| Material Identification Certificate | 0-369-001   |      | Batch No      | 52777 ABBA                     | 002440 | 1666         | 6130                    |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| tificatio                           | Ref 37  |      | WO No         | 2493                           |        | Γ            | Γ                       | Γ |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| al Iden                             | CBent   |      | ğ             | -                              | -      | _            | 1                       |   | _ |  |  |  |  | L |  |  |  |  |  |   |  |  |
| Materi                              | HELMERICH & PAYNE INT'L DRILLING COON Rof   370-369-001 |      | Material Spec |                                |        |              |                         |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| ttie                                | LMERICH & PAY   |      | Material Desc |                                |        | CARRON STEEL | CARRON STEEL            |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| PHOENIX Beatt                       | Clent   | -    | Description   | 3- 10K 16C CHI HOSE x 35 T ONL | 2      |              | SAFETY CLAPP 159H 7.26T |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |
| HA                                  | PA No 006330  |      | 十             | 1                              | 1      | 1            | X724-138CS              |   |   |  |  |  |  |   |  |  |  |  |  |   |  |  |

We hereby certify that these goods have been inspected by our Quality Menagement System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattle Corporation.



Fluid Tectarology **Quality Document** 

# CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.

Equipment: 6 pcs. Choke and Kill Hose with installed couplings

3" x 10,67 m WP: 10000 psi

Supplier Flie Number :

412638 : April. 2008

**Date of Shipment** Customer

: Phoenix Beattie Co.

Customer P.o.

: 002491

Referenced Standards

/ Codes / Specifications: API Spec 16 C

Serial No.: 52754,52755,52776,52777,52778,52782

#### STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Industrial Kit.

Position: Q.C. Manager

Date: 04. April. 2008

## **OXY's Minimum Design Criteria**

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

#### 1) Casing Design Assumptions

#### a) Burst Loads

#### **CSG Test (Surface)**

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- o External: Pore pressure in open hole.

#### **CSG Test (Intermediate)**

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

#### **CSG Test (Production)**

- o Internal:
  - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
  - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.

#### o External:

- For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
- For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

#### Gas Column (Surface)

- o Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

#### Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

#### Gas Kick (Intermediate)

- o The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- o Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- o External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- o Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- o Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- o Internal: Surface pressure plus injection fluid gradient.
- o External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

#### b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- o External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- o Internal: Full void pipe.
- o External: MW of drilling mud in the hole when the casing was run.

#### c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.

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#### Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- o Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- o External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

#### **b)** Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- o External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- o External: MW of drilling mud in the hole when the casing was run.

#### c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.

# **PERFORMANCE DATA**

TMK UP DQX
Technical Data Sheet

Nom. Pipe Body Area

5.500 in

20.00 lbs/ft

P-110

| <b>Tubular Parameters</b> | -     |        |                              |         |     |
|---------------------------|-------|--------|------------------------------|---------|-----|
| Size                      | 5.500 | in     | Minimum Yield                | 110,000 | psi |
| Nominal Weight            | 20.00 | lbs/ft | Minimum Tensile              | 125,000 | psi |
| Grade                     | P-110 |        | Yield Load                   | 641,000 | lbs |
| PE Weight                 | 19.81 | lbs/ft | Tensile Load                 | 729,000 | lbs |
| Wall Thickness            | 0.361 | in     | Min. Internal Yield Pressure | 12,600  | psi |
| Nominal ID                | 4.778 | in     | Collapse Pressure            | 11,100  | psi |
| Drift Diameter            | 4.653 | in     |                              | ·       |     |

| Connection Parameters        | -       |     |
|------------------------------|---------|-----|
| Connection OD                | 6.050   | in  |
| Connection ID                | 4.778   | in  |
| Make-Up Loss                 | 4.122   | in  |
| Critical Section Area        | 5.828   | in² |
| Tension Efficiency           | 100.0   | %   |
| Compression Efficiency       | 100.0   | %   |
| Yield Load In Tension        | 641,000 | lbs |
| Min. Internal Yield Pressure | 12,600  | psi |
| Collapse Pressure            | 11,100  | psi |

| Make-Up Torques     | <del></del> |        |
|---------------------|-------------|--------|
| Min. Make-Up Torque | 11,600      | ft-lbs |
| Opt. Make-Up Torque | 12,900      | ft-lbs |
| Max. Make-Up Torque | 14,100      | ft-lbs |
| Yield Torque        | 20,600      | ft-lbs |

Printed on: July-29-2014

#### NOTE

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# TECHNICAL DATA SHEET TMK UP DQX 5.5 X 20 P110

| TUBULAR PARAMETERS                           |               | PIPE BODY PROPERTIES   |   |
|--|---------------|--|---|
| Nominal OD, (inch)                           | 5.500         | PE Weight, (lbs/ft)  | 19.81   |
| Wall Thickness, (inch)                       | 0.361         | Nominal Weight, (lbs/ft)                                       | 20.00   |
| Pipe Grade                                   | P110          | Nominal ID, (inch)   | 4.778   |
| Coupling                                     | Regular       | Drift Diameter, (inch)   | 4.653   |
| Coupling Grade                               | P110          | Nominal Pipe Body Area, (sq inch)                              | 5.828   |
| Drift  | Standard      | Yield Strength in Tension, (kibs)                              | 641   |
| CONNECTION PARAMETERS                        |               | Min. Internal Yield Pressure, (psl)  _Collapse Pressure, (psl) | 12 640  |
| Connection OD (inch)                         | 6.05          | Tolighse Hesaglie' (bai)                                       | 11 110  |
| Connection ID, (inch)                        | 4.778         | Internal Pressure  |   |
| Make-Up Loss, (inch)                         | 4.122         |  |   |
| Connection Critical Area, (sq inch)          | 5.828         |  | o ta  |
| Yield Strength in Tension, (kibs)            | 641           | 100 (AFISLE 15)  |   |
| Yeld Strength in Compression, (kibs)         | 641           | 0  | ° ,   |
| Tension Efficiency                           | 100%          |  | <b>∮</b> 9 3 4 4                                      |
| Compression Efficiency                       | 100%          | p==4h  | 200.50  |
| Min. Internal Yield Pressure, (psi)          | 12 540        |  | / 6   |
| Collapse Pressure, (psi)                     | 11 110        |  |   |
| Unlaxial Bending (deg/100ft)                 | 91.7          |  | g <del>g</del> - ==================================== |
| MAKE-UP TORQUES                              |               | C  | s.Ant.  |
| Yield Torque, (ft-lb)                        | 20 600        | External Pressure  | Tomas Organ   |
| Minimum Make-Up Torque, (ft-lb)              | 11 600        |  | 4 Updat Hodus   |
| Optimum Make-Up Torque (ft-lb)               | 12 900        |  |   |
| Maximum Make-Up Torque, (ft-lb)              | 14 100        |  |   |
| ļ <u>.</u> .                                 | Cou           | pling Length   |   |
| Wall   | Make-Up Loss  | Box Critical Cross Section                                     |   |
|  | ~~~~~         |  |   |
| SE CO SE | Cross Section |  | Diameter Bar  |

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Print date: 12/07/2017 18:09

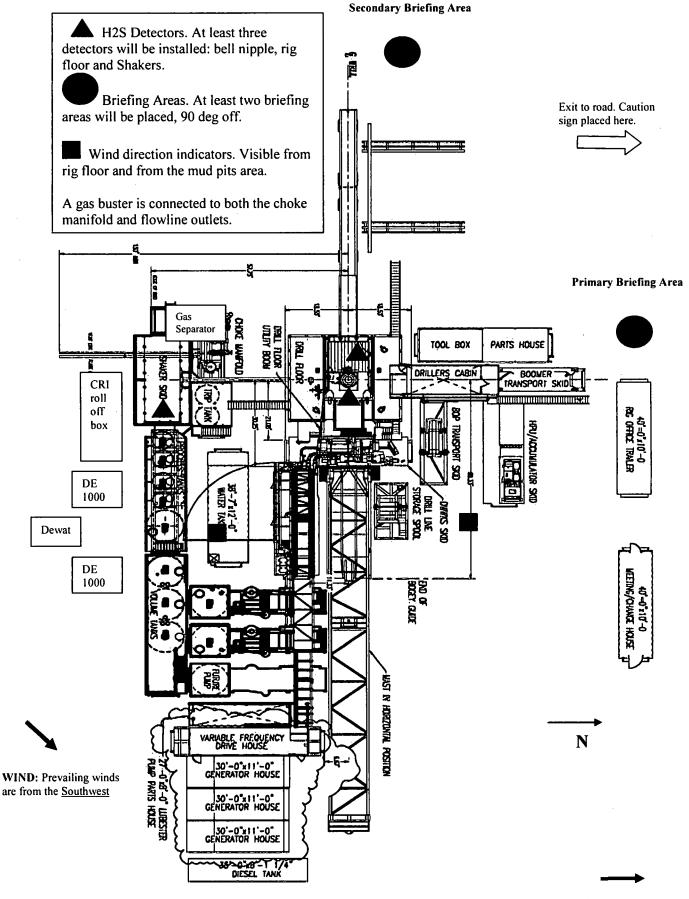


# Permian Drilling Hydrogen Sulfide Drilling Operations Plan Length CC 6\_7 Federal Com 25H

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

#### 1. Escape

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





# Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

#### **Scope**

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

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

#### **Objective**

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

#### **Discussion**

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

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that must

be adhered to prior to drilling.

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

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

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

potential evacuation and any additional support

needed.

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

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

#### **Hydrogen Sulfide Training**

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

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

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

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

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

#### Service company and visiting personnel

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

- 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. Visual Warning Systems

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. Mud Program

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. Metallurgy

- 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.
- There is no hope controlling the blowout under the prevailing conditions at the well.

# Instructions for igniting the well

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

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

# Status check list

| 3 T .  | A 11 1            |          | . 1        |        | 1 . 1 | 1 6    | 1 '11'     |    |            | •      | • .   |
|--------|-------------------|----------|------------|--------|-------|--------|------------|----|------------|--------|-------|
| Note:  | All items on th   | 110 l101 | muct h     | e comr | Neted | hetore | drilling   | tΛ | nroduction | casing | noint |
| TIOLC. | All itellis on ti | 112 1121 | . IIIust D | c comp | neceu | DCIOIC | ui iiiiiii | w  | production | casing | pomi  |

- 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: | 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<br>name      | Chemical<br>formula | Specific<br>gravity<br>(sc=1) | Threshold<br>limit<br>(1) | Hazardous<br>limit<br>(2) | Lethal concentration (3) |
|---------------------|---------------------|-------------------------------|---------------------------|---------------------------|--------------------------|
| Hydrogen<br>Cyanide | Hen                 | 0.94                          | 10 ppm                    | 150 ppm/hr                | 300 ppm                  |
| Hydrogen<br>Sulfide | H2S                 | 1.18                          | 10 ppm                    | 250 ppm/hr                | 600 ppm                  |
| Sulfur<br>Dioxide   | So2                 | 2.21                          | 5 ppm                     | -                         | 1000 ppm                 |
| Chlorine            | Cl2                 | 2.45                          | 1 ppm                     | 4 ppm/hr                  | 1000 ppm                 |
| Carbon<br>Monoxide  | Co                  | 0.97                          | 50 ppm                    | 400 ppm/hr                | 1000 ppm                 |
| Carbon<br>Dioxide   | Co2                 | 1.52                          | 5000 ppm                  | 5%                        | 10%                      |
| 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.                             |

<sup>\*</sup>at 15.00 psia and 60'f.

# Use of self-contained breathing equipment (SCBA)

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

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

# Rescue First aid for H2S poisoning

### Do not panic!

Remain calm - think!

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

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

Revised CM 6/27/2012



### Schlumberger

### Length CC 6\_7 Fed Com 25H Rev0 Proposal Geodetic Report

### (Non-Def Plan)

Report Date: August 07, 2018 - 07:27 PM (UTC 0)

Client: Field:

Cedar Canyon
Length CC 6\_7 Fed Com 25H
Length CC 6\_7 Fed Com 25H
Length CC 6\_7 Fed Com 25H Structure / Slot: Well: UWI / API#: Plan Name:

Plan Date: Tort / AHD / DDI / ERD Ratio:

Length CC 6\_7 Fed Com 25H Unknown / Unknown Length CC 6\_7 Fed Com 25H Rev0 August 07, 2018 96:156 \* / 10770.953 ft / 5.359 / 1.264 NAD83 New Mexico State Plane, Eastern Zone, US Feet N 32\*15\*14.50045\*, W 104\*17.38402\* N 456291.130 ftUS , E 636594.930 ftUS Coordinate Reference System: Location Lat / Long:

Location Grid N/E Y/X: CRS Grid Convergence Angle:

0.1679\* Grid Scale Factor: Engine Version: 2018.8.0.1

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum: TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination:

Total Gravity Field Strength: Gravity Model: Total Magnetic Field Strength:

Magnetic Dip Angle:
Declination Date:
Magnetic Declination Model:
North Reference:
Total Corr Mag
Local Coord Referenced To:

Minimum Curvature / Łubinski 176.268 "(GRID North) 0,000 ft, 0.000 ft

2982.800 ft above MSL 2956.300 ft above MSL 7.132\*

998.4714mgn (9.80665 Based) GARM

47991.971 nT 60.034\* August 07, 2018 HDGM 2018 GRID 6.9646\* Well Head

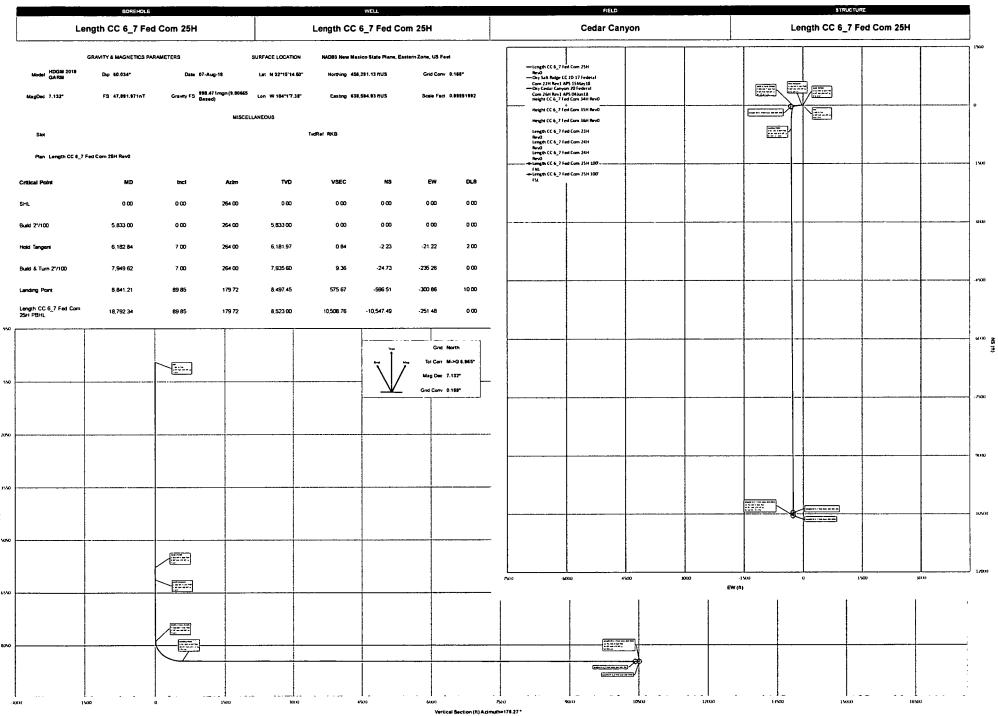
| Comments     | MD                   | Incl         | Azim             | TVD                  | VSEC         | NS<br>(ft)       | EW<br>(ft)         | DLS<br>(*/100ft) | Northing<br>(MUS)        | Easting<br>(ftUS)        | Latitude<br>(N/S * ` ")          | Longitude<br>(E/W***)          |
|--------------|----------------------|--------------|------------------|----------------------|--------------|------------------|--------------------|------------------|--------------------------|--------------------------|----------------------------------|--------------------------------|
| SHL          | (ft)<br>0.00         | 0.00         | 264.00           | (ft)<br>0.00         | 0.00         | 0.00             | 0.00               | 17100111         | 456,291.13               | 638,594.93               | N 32°15'14.50°                   | W 104°1'7.38"                  |
|              | 100.00               | 0.00         | 264.00           | 100.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 200.00               | 0.00         | 264.00           | 200.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15′14.50°                   | W 104*17.38*                   |
|              | 300.00               | 0.00         | 264.00<br>264.00 | 300.00<br>400.00     | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104*1'7,38*<br>W 104*1'7,38* |
|              | 400.00<br>500.00     | 0.00<br>0.00 | 264.00           | 500.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104*17.38*                   |
|              | 600.00               | 0.00         | 264.00           | 600.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104*1'7.38*                  |
|              | 700.00               | 0.00         | 264.00           | 700.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 800.00               | 0.00         | 264.00           | 800.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 900.00               | 0.00         | 264.00           | 900.00               | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38°                  |
|              | 1,000.00             | 0.00<br>0.00 | 264.00<br>264.00 | 1,000.00<br>1,100.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104°1'7.38°<br>W 104°1'7.38° |
|              | 1,100.00<br>1,200.00 | 0.00         | 264.00           | 1,200.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50°                   | W 104°17.38°                   |
|              | 1,300.00             | 0.00         | 264.00           | 1,300.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104°1'7.38"                  |
|              | 1,400.00             | 0.00         | 264.00           | 1,400.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104*1'7.38"                  |
|              | 1,500.00             | 0.00         | 264.00           | 1,500.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104*1'7.38"                  |
|              | 1,600.00             | 0.00         | 264.00           | 1,600.00<br>1,700.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104*1'7,38"<br>W 104*1'7,38" |
|              | 1,700.00<br>1,800.00 | 0.00<br>0.00 | 264.00<br>264.00 | 1,800.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104 17.38*                   |
|              | 1,900.00             | 0.00         | 264.00           | 1,900.00             | 0,00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104°1'7.38"                  |
|              | 2,000.00             | 0.00         | 264.00           | 2,000.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50°                   | W 104°1'7.38"                  |
|              | 2,100.00             | 0.00         | 264.00           | 2,100.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104°1'7.38"                  |
|              | 2,200.00             | 0.00         | 264.00           | 2,200.00             | 0.00         | 0.00             | 0.00               | 0.00<br>0.00     | 456,291.13               | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104°1'7.38"<br>W 104°1'7.38" |
|              | 2,300.00             | 0.00<br>0.00 | 264.00<br>264.00 | 2,300.00<br>2,400.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00               | 0.00             | 456,291.13<br>456,291.13 | 638,594.93               | N 32*15'14.50"                   | W 104*17.38*                   |
|              | 2,400.00<br>2,500.00 | 0.00         | 264.00<br>264.00 | 2,500.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594,93               | N 32°15'14.50"                   | W 104*17.38*                   |
|              | 2,600.00             | 0.00         | 264.00           | 2,600.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 2,700.00             | 0.00         | 264.00           | 2,700.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14,50"                   | W 104°1'7.38"                  |
|              | 2,800.00             | 0.00         | 264.00           | 2,800.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 2,900.00             | 0.00         | 264.00           | 2,900.00             | 0,00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93<br>638,594.93 | N 32°15'14.50°<br>N 32°15'14.50° | W 104*1'7.38"<br>W 104*1'7.38" |
|              | 3,000.00             | 0.00<br>0.00 | 264.00<br>264.00 | 3,000.00<br>3,100.00 | 0,00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 3,100.00<br>3,200.00 | 0.00         | 264.00           | 3,200.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38°                  |
|              | 3,300.00             | 0.00         | 264.00           | 3,300.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 3,400.00             | 0.00         | 264.00           | 3,400.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 3,500.00             | 0.00         | 264.00           | 3,500.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15*14.50*                   | W 104°1'7.38"                  |
|              | 3,600.00             | 0.00         | 264.00           | 3,600.00             | 0.00         | 0.00             | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594,93<br>638,594,93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104*1'7.38"<br>W 104*1'7.38" |
|              | 3,700.00<br>3,800.00 | 0.00<br>0.00 | 264.00<br>264.00 | 3,700.00<br>3,800.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104°1'7.38°                  |
|              | 3,900.00             | 0.00         | 264.00           | 3,900.00             | 0.00         | 0.00             | 0,00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15"14.50"                   | W 104°1'7.38°                  |
|              | 4,000.00             | 0.00         | 264.00           | 4,000.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32"15'14.50"                   | W 104°1'7.38"                  |
|              | 4,100.00             | 0.00         | 264.00           | 4,100.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 4,200.00             | 0.00         | 264.00           | 4,200.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13<br>456,291.13 | 638,594.93               | N 32°15'14.50"<br>N 32°15'14.50" | W 104*1'7.38*                  |
|              | 4,300.00<br>4,400.00 | 0.00<br>0.00 | 264.00<br>264.00 | 4,300.00<br>4,400.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13               | 638,594.93<br>638,594.93 | N 32°15'14.50"                   | W 104*1'7,38"<br>W 104*1'7,38" |
|              | 4,500.00             | 0.00         | 264.00           | 4,500.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104*1'7.38"                  |
|              | 4,600.00             | 0.00         | 264.00           | 4,600.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104*1'7.38*                  |
|              | 4,700.00             | 0.00         | 264.00           | 4,700.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104*1'7.38*                  |
|              | 4,800.00             | 0.00         | 264.00           | 4,800.00             | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104*1'7.38*<br>W 104*1'7.38* |
|              | 4,900.00<br>5,000.00 | 0.00<br>0.00 | 264.00<br>264.00 | 4,900.00<br>5,000.00 | 0.00         | 0.00             | 0.00               | 0.00             | 456,291,13               | 638,594.93               | N 32*15'14.50*                   | W 104*1'7.38*                  |
|              | 5,100.00             | 0.00         | 264.00           | 5,100.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104°1'7.38"                  |
|              | 5,200.00             | 0.00         | 264.00           | 5,200,00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104°1'7.38"                  |
|              | 5,300.00             | 0.00         | 264.00           | 5,300.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104*1'7.38"                  |
|              | 5,400.00             | 0.00         | 264.00           | 5,400.00             | 0.00         | 0.00             | 0.00               | 0.00<br>0.00     | 456,291.13<br>456,291.13 | 638,594.93<br>638,594.93 | N 32*15'14.50"<br>N 32*15'14.50" | W 104*1'7.38"<br>W 104*1'7.38" |
|              | 5,500.00<br>5,600.00 | 0.00         | 264.00<br>264.00 | 5,500.00<br>5,600.00 | 0.00<br>0.00 | 0.00<br>0.00     | 0.00<br>0.00       | 0.00             | 456,291.13<br>456,291.13 | 638,594.93               | N 32*15'14.50"                   | W 104*17.38*                   |
|              | 5,700.00             | 0.00         | 264.00           | 5,700.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 5,800.00             | 0.00         | 264.00           | 5,800.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32*15'14.50"                   | W 104°1'7,38°                  |
| Build 2*/100 | 5,833.00             | 0.00         | 264.00           | 5,833.00             | 0.00         | 0.00             | 0.00               | 0.00             | 456,291.13               | 638,594.93               | N 32°15'14.50"                   | W 104°1'7.38"                  |
|              | 5,900.00             | 1.34         | 264.00           | 5,899.99             | 0.03         | -0.08            | -0.78              | 2.00             | 456,291.05               | 638,594.15               | N 32*15'14.50*                   | W 104°1'7.39°                  |
|              | 6,000.00             | 3,34         | 264.00           | 5,999.91             | 0.19         | -0.51            | -4.84              | 2.00             | 456,290.62               | 638,590.09<br>638,582.57 | N 32*15'14.50"<br>N 32*15'14.49" | W 104*1'7.44"<br>W 104*1'7.53" |
| Held Towns   | 6,100.00<br>6,182.84 | 5,34<br>7.00 | 264.00<br>264.00 | 6,099.61<br>6,181.97 | 0.49<br>0.84 | -1.30<br>-2.23   | -12.37<br>-21.22   | 2.00<br>2.00     | 456,289.83<br>456,288.90 | 638,573.71               | N 32°15'14.48"                   | W 104 17.53                    |
| Hold Tangent | 6,200.00             | 7.00         | 264.00           | 6,199.00             | 0.93         | -2.45            | -23.30             | 0.00             | 456,288.68               | 638,571.64               | N 32°15'14,48"                   | W 104"1"7,66"                  |
|              | 6,300.00             | 7.00         | 264.00           | 6,298.26             | 1,41         | -3.72            | -35.41             | 0.00             | 456,287.41               | 638,559.52               | N 32°15'14.46"                   | W 104"1"7.80"                  |
|              | 6,400.00             | 7.00         | 264.00           | 6,397.51             | 1.89         | -5.00            | -47.53             | 0.00             | 456,286.14               | 638,547.41               | N 32*15'14.45"                   | W 104°17.94"                   |
|              | 6,500.00             | 7.00         | 264.00           | 6,496.77             | 2.37         | -6.27            | -59.64             | 0.00             | 456,284,86               | 638,535.29               | N 32°15'14.44"                   | W 104°1'8.08"                  |
|              | 6,600.00             | 7.00         | 264.00           | 6,596.02             | 2.86         | -7.54            | -71.76             | 0.00             | 456.283.59               | 638,523.18               | N 32*15*14.43*<br>N 32*15*14.42* | W 104"1'8.22"<br>W 104"1'8.36" |
|              | 6,700.00<br>6,800.00 | 7.00<br>7.00 | 264.00<br>264.00 | 6,695.28<br>6,794.54 | 3.34<br>3.82 | -8.82<br>-10.09  | -83.87<br>-95.98   | 0.00<br>0.00     | 456,282.32<br>456,281.04 | 638,511.07<br>638,498.95 | N 32*15'14.42*<br>N 32*15'14.40* | W 104°1'8,36°<br>W 104°1'8,50° |
|              | 6,900.00             | 7.00         | 264.00           | 6,893.79             | 4.30         | -11.36           | -108.10            | 0.00             | 456,279.77               | 638,486.84               | N 32*15'14.39"                   | W 104 18.64                    |
|              | 7,000.00             | 7.00         | 264.00           | 6,993.05             | 4.78         | -12.64           | -120.21            | 0.00             | 456,278.50               | 638,474.73               | N 32*15*14.38*                   | W 104°1'8.78"                  |
|              | 7,100.00             | 7.00         | 264.00           | 7,092.30             | 5.27         | -13.91           | -132.33            | 0.00             | 456,277.22               | 638,462.61               | N 32*15'14.37"                   | W 104°1'8.93"                  |
|              | 7,200.00             | 7.00         | 264.00           | 7,191.56             | 5.75         | -15.18           | -144,44            | 0.00             | 456,275.95               | 638,450.50               | N 32*15'14.35"                   | W 104*1'9.07"                  |
|              | 7,300.00             | 7.00         | 264.00           | 7,290.81             | 6.23         | -16.45           | -156.56            | 0.00             | 456,274.68               | 638,438.38               | N 32°15'14.34°                   | W 104*1'9.21"                  |
|              | 7,400.00             | 7.00         | 264.00           | 7,390.07             | 6.71         | -17.73           | -168.67            | 0.00             | 456,273,40               | 638,426.27               | N 32*15'14.33"                   | W 104°1'9.35°                  |
|              |                      |              |                  |                      |              |                  |                    | 0.00             |                          | 638 414 16               | N 32*15'14 32*                   | W 104*1'0 40*                  |
|              | 7,500.00<br>7,600.00 | 7.00<br>7.00 | 264.00<br>264.00 | 7,489.32<br>7,588.58 | 7.20<br>7.68 | -19.00<br>-20.27 | -180.79<br>-192.90 | 0.00<br>0.00     | 456,272.13<br>456,270.86 | 638,414.16<br>638,402.04 | N 32°15'14.32"                   | W 104*1'9.49"<br>W 104*1'9.63" |

|  | .10'9E.E1.ZE N   |  | 446,236.80   | 00.0   | -253.92   | 91.550,01-   | 16.710.01   | AT.152.8   | 27.971   | 28.68   | 00.005,81  |                |
|--|--|--|--|--|---|--|---|--|--|---|--|----------------|
|  | N 32.13.36.00"   | E2.01E.8E8   | 64.336.79  | 00.0   | 254.42  | 91.886,6-  | 64.716.6  | 84.152.8   | 27.971   | 58.68   | 00.005,61  |                |
| -69'01.1.+01 M   |  | 638,339,54   | 87.354,344   | 00.0   | 14,885-   | 81.227.9-<br>81.228.9-   | 88.717,9<br>88.718,9  | 79.052.8<br>52.152,8   | 57.971<br>57.971   | 58.68<br>58.68  | 00.000.81  |                |
| .69 01.1.+01 M   |  | \$0.955,858<br>\$2.000   | 71.858.844<br>77.858,844   | 00.0   | 16.885-   | 81.888,8-  | 10.813,6  | 17.052,8   | 27,971   | 28.68   | 00.000.71  |                |
| -69'01'1" +01 W  |  | 22,855,858   | 87,867,844   | 00.0   | 01-32C  | 81.888,6-  | 52.812.9  | 24.0S2.8   | 27.971   | 28.68   | 00.008,71  |                |
| W 104*1'10.70"   |  | 20.855,858   | 44.836.74  | 00.0   | 06.825-   | 71.884,9-  | 04.814,6  | 02.022,8   | 27.871   | 28.68   | 00.007,71  |                |
| W 104.1.10.70"   | N 35.13.41 84.   | 22.755,853   | £7.8£6,8**   | 00.0   | 04,725-   | 71.22C, 6.   | 82.816.6  | 76'61S'8   | 27.671   | 28.68   | 00.008,71  |                |
| -07.01'1°101 W   |  | <b>30.7</b> ££,8£ <b>3</b>   | 27.036.73A   | 00.0   | 68.725-   | 71.885.6-  | 97.81S.9  | 89.912,8   | 27.671   | 28.68   | 00.002,71  |                |
| *01.01'1°401 W   |  | 95.355,859   | 17.361,744   | 00.0   | 96.88S-   | 71.221,6-  | 46.811,6  | 21.612.8   | 27.671   | <b>68.68</b>  | 00.004,71  |                |
| -17.01'1°+01 W   |  | 70,855,858   | 07.355.744   | 00.0   | 86.825-<br>88.825-  | 71.880.9-  | 16.819.31<br>61.910,9   | 19.812.8<br>71.912.8   | ST.971<br>ST.971   | 28.28<br>28.28  | 00.002,71  |                |
| "17,01'1" +01 W  |  | 70.255,858<br>72.255,858   | 88.8E4,744<br>68.8EE,744   | 00.0   | 88.625-   | 81.228,8-<br>71.229,8-   | 64.618,8  | 20.812,8   | 57.671   | 28.28   | 00.001,71  |                |
| "17.01'1**01 W   |  | 82. ACC, 8C8   | 78.8E2.7##   | 00.0   | 7E.03S-   | 81.227,8-  | 79.917,8  | 01.812.8   | 27.971   | 58.68   | 00.000,71  |                |
| W 104-1-10.72"   |  | 80.ACC,8CB   | 99.868.7**   | 00.0   | 78.03S-   | 81.223.8-  | 58.619.8  | \$1.812,8  | 27.971   | 2B.6B   | 00,006,81  |                |
| W 104.1.10.72"   |  | 82,555,858   | 29.867,734   | 00.0   | 7£.13Z-   | 81.666,8-  | £0.022,8  | 88.712,8   | 27.871   | 28.68   | 00.008,81  |                |
| "ST.01'1"+01 W   |  | 638,333.09   | \$9.8£8,7\$\$  | 00.0   | 38.13S-   | 81.651.8   | 15.054,8  | £8.517.63  | 27.671   | 28.68   | 00.007,81  |                |
| "S7.01'1°401 W   |  | 63.332.59  | £8.8£9,711   | 00.0   | 9£, <b>2</b> 82, 36   | 81.255,8-  | 8,320.39  | 18.512.8   | 179.72   | 28.68   | 00.009,81  |                |
| W 104-1-10.73*   |  | 01.266,868   | 29.920,8**   | 00.0   | -262.86   | 81,255,18  | 8,220,58  | 11.712.8   | 27.871   | 58.68   | 00.002,01  |                |
| W 104-110.73"  |  | 09.155,858   | 19'921'8**   | 00.0<br>00.0   | 58.585-<br>563.35   | 61,880,8-<br>91,881,8-   | 6.020,8<br>67,021,8   | 08.812,8<br>88.812,8   | 57.971<br>57.971   | 28.68<br>28.68  | 00,006,81<br>00,004,81   |                |
| ET 01'1'101 W  |  | 18,055,858   | 94,336,59  | 00.0   | 46.48S-   | 61.886,T-  | S1.159,7  | ¥£.812,8   | 27.971   | 28.68   | 16,200.00  |                |
| .≯Z'01,1.≯01 M   |  | 11.055,858   | 86,851,811   | 00.0   | 18.18   | 91.228.7-  | 05.158,7  | 60.912.8   | 27.971   | 28.68   | 00.001,31  |                |
| W 104-1-10,74"   | "TT.T2"E1"SE N   | 638,329,62   | 78,858,834   | 00.0   | <b>≯</b> € '59Z-  | 61.887.7-  | 84.127.7  | £8.212.B   | 27.871   | <b>28.68</b>  | 00.000,81  |                |
| **************************************   |  | 638,329.12   | 95 959 811   | 00.0   | 68.265.83   | 61.888,7-  | 99 129 7  | 78.812.B   | 27.971   | 28.68   | 00,006,81  |                |
| ->4.01.1.+01 W   |  | 29.826,869   | 88.867,844   | 00.0   | CC-99Z-   | 02.888.7-  | 10.152,7  | SE. 212.32   | 27.971   | 68.68   | 00.008,21  |                |
| *87.01'1°401 W   |  | £8.7\$£,8£8<br>£1,8\$£,8£8   | 68.856,844<br>48.858,844   | 00.0   | 26.782<br>28.882  | 02.888.7-<br>02.888.7-   | 12.222.7<br>50.524.7  | 08.412,8<br>80.212,8   | 27.971<br>27.971   | 28.68<br>28.68  | 00.003,21<br>00.007,21   |                |
| "27.01'1" +01 W  |  | £1.7SE,8E8   | ZS.8E0.6**   | 00.0   | 28.73S-   | 05.255.7-  | 7,222.39  | 55.412,8   | 27.971   | 28.68   | 00.002,21  |                |
| -SZ'01.1.#01 M   |  | 638,326,64   | 449,136,52   | 00.0   | 16,885.   | 05.881,7-  | 72.SZ1.7  | 8,514,29   | 27.671   | 28.68   | 15,400.00  |                |
| -84.01'1"+01 W   |  | 638,326.14   | 15,36,216,51   | 00.0   | 18.835-   | OS 250,7-  | 27.022.7  | £0.412,8   | \$7.971  | 28.68   | 15,300.00  |                |
| -97.01'1°401 W   |  | 638,325,65   | 06.336.934   | 00.0   | 16.685-   | 12.886.8-  | 6,922.93  | 87.612,8   | ZT.971   | 28.68   | 15,200.00  |                |
| -94.01'1'+01 W   |  | 61,656,868   | 61,000,011   | 00.0   | 08.692-   | 12.228,8-  | 62.ES7,8<br>11.ES8,8  | 55.618,8   | 27.671<br>27.671   | 28.68<br>28.68  | 00.000,21  |                |
| -94,01'1°401 W   |  | 638,324,65   | 74.828.644<br>84.828.644   | 00.0   | 97.07S-<br>05.07S-  | 12,828,8-  | 84.553.48   | 10.612.8   | 57.871   | 28.68   | 00.000.41  |                |
| *TT.01'1*A01 W   |  | 83.52.858<br>81.055.858  | 94.357.644   | 00.0   | 65.17S-   | 15.888,8-  | 6,523.66  | 87.212,8   | 27.671   | 28.68   | 00.008,11  |                |
| *TT.01'1'\$01 W  |  | T1.656,858   | 24,858,644   | 00.0   | 67.17S-   | 12.884,8-  | \$8.ES\$,8  | 8 212 49   | 179.72   | 28.68   | 00.007, \$1  |                |
| *77,01'1°#01 W   | N 35,14,11'65.   | 78.SSE,858   | ***926'6**   | 00.0   | 82.272-   | 12.885.8-  | 6,324.02  | 65.512.23  | 27.971   | 28.68   | 00.009, \$1  |                |
| *77,01'1°+01 W   |  | 71.SSE,8E8   | 64,050,034   | 00.0   | 87.272-   | 52,255,22  | 6,224,20  | 86.112,8   | 27.971   | 28.68   | 00.008,41  |                |
| -87.01'1°+01 W   |  | 89.125,858   | 420,136,42   | 00.0   | 82.273.   | 22.851,8-  | 6,124,38  | 57.112,8   | 27.671   | 58.68   | 00,000,41  |                |
| -87.01'1°401 W   |  | 81.12E,8E8<br>81.1SE,8E8   | 450,336.40   | 00.0   | TS. &TS.<br>TT. ETS.  | SS.889,8-  | 95 +26 9<br>97 +26 9  | 12.112,8<br>84,112,8   | 57. <b>6</b> 71<br>57. <b>6</b> 71   | 28.68<br>28.68  | 14,300.00  |                |
| *87.01'1°*01 W   |  | 91.026,869   | 95,954,024   | 00.0   | 37.47S-   | SS.228,2-  | £6.458,8  | 28.012.8   | 27.871   | 28.68   | 00.001,11  |                |
| -64.01'1°+01 W   |  | 69.616,869   | 86.868,024   | 00.0   | 85.27S-   | SS.227,2-  | 11.257,2  | 69.012,8   | 27.871   | 28.68   | 00.000,⊁1  |                |
|  | N 35.14.18'22.   | 638,319.20   | 450,636.37   | 00.0   | 97.27S.   | £2.888,8-  | 62,625,29   | PP'015'8   | 57,671   | 28.68   | 13,900.00  |                |
|  | N 35.14.16'24.   | 07.816,868   | <b>3</b> £.3£7,0₹ <b>≯</b>   | 00.0   | 2S. 97S.  | £S.232,2-  | 74.625,8  | 81.012,8   | ST.971   | 28.68   | 00.008,£1  |                |
|  | N 32.14.20.53  | 638,318 20   | 2£.3£8.0₹Þ   | 00.0   | 27.87S-   | CS.884,8-  | 69.624.6  | 26'609'8   | 57,671   | 28,68   | 00.007.51  |                |
|  | N 35.14.51 25.   | 17.716,869   | 45.956,024   | 00.0   | 12.772.   | £2.88£.8·  | 5,325.83  | 79,602,8   | 27,671   | 28.68   | 00.000,61  |                |
|  | N 35.14.53 21.<br>N 35.14.53 20.   | ST.818.888<br>12.718.888   | SE.3E1,12A   | 00.0<br>00.0   | <b>₽</b> 2.872-<br>₽7.772-  | 55,855,23<br>5,155,23  | 6,126.20<br>6,126.20  | 81,608,8<br>14,608,8   | ST.971<br>ST.971   | 28.68<br>28.68  | 00.008,61  |                |
|  | N 35.14.54 48.   | SS.816,868   | 16.362,184   | 00.0   | £7.875-   | ES.880,8-  | 86.850.8  | 06.802.8   | 27.971   | 28.98   | 00.005,51  |                |
|  | N 35.14.52 48.   | 27.215,858   | 451,336.30   | 00.0   | ES 675-   | +2.886.A   | 95'926'\$   | P9 805 8   | 27.871   | 28.68   | 13,200.00  |                |
| *18,01'1°401 W   |  | 638,315,23   | 451,436,29   | 00.0   | £7.97S-   | AS.228, A-   | <b>₽</b> ₹.828, <b>₽</b>  | 86.802,8   | 179.72   | 28.68   | 00.001,£1  |                |
|  | N 32.14.57.46"   |  | 451,536.28   | 00.0   | 22.08S-   | \$2.287,\$-  | 26,327,₺  | £1,802,8   | ST.971   | 28.68   | 00.000,£1  |                |
|  | N 35.14.58'44.   |  | 451,636.27   | 00.0   | Z7.08Z-   | 4,655.24   | 01,756,4  | 18.102,8   | 27.671   | 28.68   | 12,900.00  |                |
|  | N 35.14.56'43.   |  | 62,056,16#   | 00.0<br>00.0   | 17,185-   | 12.888,1-<br>14.888.24   | 82,7 <u>52,4</u><br>82,7 <u>5</u> 2,28  | 82.702.8<br>18.702,8   | 27.971<br>27.971   | 28.68<br>28.68  | 00.007,S1<br>00.008,S1   |                |
|  | N 35.14.30 45.   |  | 451,936,24   | 00.0   | 12.282-   | 25.225.A-  | 29.75£,1  | 01.702.8   | 57.671   | 28.68   | 12,600.00  |                |
|  | N 35.14.35'40.   |  | 452,036,23   | 00.0   | 07.S8S-   | 25.255.⊁-  | 4,227.83  | 18.302,8   | 27.971   | 28,68   | 12,500.00  |                |
|  | N 35-14.33 38.   |  | 452,136.22   | 00.0   | OS.E8S-   | 82.881,4-  | 10.821,4  | 65.802,8   | \$7.971  | 58.68   | 12,400.00  |                |
| W 104-1.10.83-   | N 35.14.34.38  | 638,311,26   | 452,236,21   | 00.0   | 07.685-   | SZ.280,4-  | 4,028.19  | 66,308,8   | \$7.671  | 28.68   | 12,300.00  |                |
|  | 75.14.35 J   |  | 452,336.20   | 00.0   | 61,482-   | 3,955.25   | ₹£.826,€  | 70.302,8   | ST.97?   | 28.68   | 12,200.00  |                |
|  | N 32.14.36.36*   | 75.016,868   | 61,864,564   | 00.0   | 69.482-   | 25.858,£-  | 3,828.55  | S8.202.8   | 57.671   | 28.68   | 12,100.00  |                |
|  | N 32.14.38.34*   |  | \$1.858,52 <b>\$</b><br>81.852,52 <b>\$</b>  | 00.0   | 88,28S-<br>81,28S-  | 32,883,8 <del>-</del><br>32,885,26   | 18.853.E<br>E7.857,C  | 05.202,8<br>82.202,8   | ST.871<br>ST.871   | 58.68<br>58.68  | 00.000,11<br>00.000,21   |                |
|  | N 32-14-39.33  |  | 452,736,16   | 00.0   | 81,885-   | 35.888.E-  | 01.9S2.E  | 20.202,8   | ST.971   | 28.68   | 00.008,11  |                |
|  |  |  |  |  |   |  |   |  |  |   |  |                |
| W 104.1.10'84"   | N 35.14.40'35.   |  |  | 00.0   | 79.38S-   | 3,455.25   |   | 67.408,8   | 57.671   | 28.68   | 00.007,11  |                |
|  | N 35.14.40'35.<br>N 35.14.41'31.   | 87.705,858<br>85.805,858   | \$1.858,524<br>\$1.858,524   | 00.0   | 71,78S-<br>78,88S-  | -3,355.26<br>-3,455.26   | 3,329.46<br>82,624,6  | £2.402,8<br>67.402,8   |  |   |  |                |
| W 104"1"10.84"<br>W 104"1"10.84"   | N 35.14.45'30.   | 62.705,858<br>67.705,858<br>82.805,858   | 61.360,624<br>41.369,924<br>452,836.13   | 00.0<br>00.0   | 68.78S-   | -3,255.26<br>-3,355.26   | 99'6ZZ'C<br>99'6ZC'C<br>98'6ZZ'C  | 75,402,8<br>62,402,8<br>67,402,8   | ST. 671<br>ST. 671<br>ST. 671  | 28.68<br>28.68<br>28.68   | 00.002,11<br>00.003,11<br>00.007,11  |                |
| W 104*1'10.85"<br>"M 104*1'10.86"<br>"#8.01'1*401 W  | N 35.14.41'31.<br>N 35.14.43'30.<br>N 35.14.43'50.   | 67.305,853<br>62.705,853<br>67.705,853<br>82.805,853   | \$1.861,684<br>61.860,684<br>41.869,584<br>81.868,584  | 00.0<br>00.0<br>00.0                                       | 81,885-<br>88,785-<br>71,785-   | .3,155.26<br>-3,155.26<br>-3,155.26  | 28.621,£<br>58.652,£<br>85.626,£<br>85.626,£  | 20,402,8<br>72,402,8<br>62,402,8<br>97,402,8   | 27.971<br>27.971<br>27.971<br>57.971   | 28.68<br>28.68<br>28.68<br>28.68  | 00.003,11<br>00.002,11<br>00.003,11<br>00.007,11   |                |
| W 104.1.10.85"<br>W 104.1110.86"<br>W 104.1110.84"   | N 35.14.45'30.<br>N 35.14.45'30.<br>N 35.14.46'31.   | 0c.30c,8c3<br>97.30c,8c3<br>92.70c,8c3<br>97.70c,8c3<br>82.80c,8c3   | 11.362,624<br>453,036,13<br>41.36,036,13<br>41.36,936,14   | 00.0<br>00.0<br>00.0                                       | 885-<br>81.885-<br>88.785-<br>71.785-   | 75.220,E-<br>95.221,E-<br>55.225,E-<br>75.225,E-   | 28.621, c<br>58.621, c<br>59.652, c<br>85.654, c  | 87,502,8<br>50,402,8<br>75,402,8<br>67,402,8   | ST. ET!<br>ST. ET!<br>ST. ET!<br>ST. ET!<br>ST. ET!  | 28.68<br>28.68<br>28.68<br>28.68  | 00.005,11<br>00.005,11<br>00.002,11<br>00.003,11<br>00.007,11  |                |
| W 104.1.10.85"<br>W 104.1110.85"<br>W 104.1110.85"   | N 35.14.42'58.<br>N 35.14.42'58.<br>N 35.14.42'58.<br>N 35.14.42'58.   | 08.20£,8£8<br>0£.30£,8£8<br>0£.30£,8£8<br>6£.70£,8£8<br>97.70£,8£8   | 01.355,024<br>11.355,024<br>11.355,024<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034 | 00.0<br>00.0<br>00.0<br>00.0<br>00.0                       | 21, 685-<br>61, 685-<br>61, 685-<br>71, 785-  | 75,826,5-<br>75,820,6-<br>75,820,6-<br>85,826,6-<br>85,826,6-  | 2,930.08<br>2,030.00<br>3,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,0 | 02,502,8<br>02,502,8<br>50,402,8<br>75,402,8<br>67,402,8   | 27.671<br>27.671<br>27.671<br>27.671<br>27.671   | 28.68<br>28.68<br>28.68<br>28.68<br>28.68<br>28.68  | 00.005,11<br>00.005,11<br>00.005,11<br>00.005,11<br>00.005,11  |                |
| M 104.1.10'82.<br>M 104.1.10'82.<br>M 104.1.10'82.<br>M 104.1.10'82.   | N 35.14.41'31.<br>N 35.14.42'30.<br>N 35.14.42'58.<br>N 35.14.42'58.<br>N 35.14.46'58.   | 06,206,868<br>08,206,868<br>06,306,868<br>07,306,868<br>07,706,868<br>85,806,868   | 425'838'19<br>423'938'13<br>423'938'13<br>11'92'53<br>11'92'53<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63<br>11'92'63   | 00.0<br>00.0<br>00.0<br>00.0<br>00.0<br>00.0               | 29, 685-<br>21, 685-<br>31, 885-<br>31, 885-<br>71, 785-  | 72,828,S-<br>72,826,S-<br>72,820,E-<br>72,820,E-<br>82,828,E-<br>82,828,E-   | 87:620'C<br>97:625'C<br>97:625'C<br>97:625'C<br>97:625'C<br>97:625'C<br>97:625'C<br>97:625'C  | 22,502,8<br>02,502,8<br>50,602,8<br>72,602,8<br>72,602,8<br>67,602,8<br>67,602,8   | 27.671<br>27.671<br>27.671<br>27.671<br>27.671<br>27.671   | 28.68<br>28.68<br>28.68<br>28.68<br>28.68<br>28.68  | 00,001,11<br>00,005,11<br>00,006,11<br>00,008,11<br>00,008,11<br>00,008,11   |                |
| M 104.1.101 M<br>M 104.1.10.82.<br>M 104.1.10.82.<br>M 104.1.10.82.<br>M 104.1.10.82.<br>M 104.1.10.88.  | N 35.14.42'58.<br>N 35.14.42'58.<br>N 35.14.42'58.<br>N 35.14.42'58.   | 16.406,868<br>18.406,868<br>08.206,868<br>08.206,868<br>00.306,868<br>00.306,868<br>87.406,868<br>87.406,868   | 01.355,024<br>11.355,024<br>11.355,024<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034<br>11.355,034 | 00.0<br>00.0<br>00.0<br>00.0<br>00.0                       | 21, 685-<br>61, 685-<br>61, 685-<br>71, 785-  | 72.828,5-<br>72.828,5-<br>72.828,5-<br>72.828,6-<br>72.828,6-<br>82.825,6-<br>82.825,6-  | 2,930.08<br>2,030.00<br>3,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,030.00<br>5,0 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70.87,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724<br>70.80,724 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16.002.5<br>67.002.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009.5<br>81.009  | 84,502,8<br>84,502,8<br>82,502,8<br>82,502,8<br>87,502,8<br>75,402,8<br>75,402,8<br>75,402,8   | 21.671<br>21.671<br>21.671<br>21.671<br>21.671<br>21.671<br>21.671   | 58 68<br>58 68<br>58 68<br>58 68<br>58 68<br>58 68<br>58 68<br>58 68  | 00'002'11<br>00'009'11<br>00'009'11<br>00'000'11<br>00'001'11<br>00'000'01   |                |
| W 104.1.10.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85<br>W 104.110.85  | 10'14,41.2E N<br>20'24,41.2E N<br>25.14,42 '50.<br>82'44,41.2E N<br>12'54,41.2E N<br>12'54,41.2E N<br>25.14,42 '50.<br>85.14,42 EN<br>14'20'51.  | 26.000,868<br>26.000,868<br>26.000,868<br>36.000,868<br>30.800,868<br>30.800,868<br>30.800,868<br>30.800,868<br>30.800,868   | 90,968,524<br>90,968,524<br>90,668,524<br>90,668,624<br>90,668,624<br>90,668,624<br>90,668,624<br>90,668,624<br>90,668,624<br>90,668,624<br>90,668,624   | 00'0<br>00'0<br>00'0<br>00'0<br>00'0                       | 99' 162-<br>99' 162-<br>99' 162-<br>99' 682-<br>99' 682-<br>99' 682-<br>99' 682-<br>99' 682-<br>99' 682-<br>99' 162-  | 82.824.5-<br>82.824.5-<br>72.826.5-<br>72.826.5-<br>72.826.5-<br>72.826.5-<br>72.826.5-<br>82.826.6-<br>83.826.6-  | 60.10+.5<br>60.10+.5<br>60.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>61.00-5<br>6  | 27.202.8<br>84.202.8<br>67.202.8<br>67.202.8<br>67.202.8<br>67.202.8<br>67.202.8<br>67.202.8<br>67.202.8<br>67.202.8   | Z1.971<br>Z1.971<br>Z1.971<br>Z1.971<br>Z1.971<br>Z1.971<br>Z1.971<br>Z1.971<br>Z1.971   | 58:68<br>58:68<br>58:68<br>58:68<br>58:68<br>58:68<br>58:68<br>58:68<br>58:68   | 00'002'11<br>00'009'11<br>00'000'11<br>00'000'11<br>00'000'11<br>00'000'11<br>00'000'0   |                |
| M. 104.1.10 84. M. 104.1.10 84. M. 104.1.10 82. M. 104.1.10 83.  | 25.14,41.26 N<br>25.14,42 CN<br>25.14,42 CN<br>25.14,45 CN  | 28, 200, 868<br>28, 200, 868<br>28, 200, 868<br>30, 300, 868<br>300, 868<br>300, 868<br>300, 868<br>300, 868<br>300, 868<br>300, 868<br>300, 868<br>300, 868   | 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| NO 1.0-1.0 94.  NO 1.0-1.0 92.  NO 1.0-1.0 10.  NO 1.0 10.   | 11"1941.26 N 10"25941.26 N 12"59441.26 N 13"5944.26 N 14"5944.26 N 14"5944.26 N 15"5944.26 N 14"5944.26 N 14"5944.26 N 14"5944.26 N 14"5944.26 N 15"5944.26 N 16"5944.26 N 16"5944. | CC 762, 842  CC 762, 843  CC 76   | 51 962 754<br>11 966 754<br>11 967 754<br>11 967 754<br>10 967 754<br>60 967   | 00 0<br>00 0<br>00 0<br>00 0<br>00 0<br>00 0<br>00 0<br>00 | 99 '182-<br>99 '182-<br>99 '182-<br>99 '182-<br>99 '182-<br>99 '182-<br>99 '182-<br>11 '162-<br>12 '162-<br>29 '162-<br>21 '162-<br>21 '162-<br>21 '162-<br>11  | 92'552'6- 92'552'6- 92'551'6- 22'500'6- 22'500'6- 22'500'6- 22'558'2- 22'558'2- 22'558'2- 22'550'2- 22'550'2- 22'550'2- 22'550'2- 22'550'1- 22'555'1- 23'555'1-  | 82 62°C  99 622°C  99 622°C  99 622°C  90 620°C  91 006°C  91 006°C  91 006°C  92 006°C  93 006°C  94 020°C  95 020°C  95 020°C  96 020°C  97 020°C  98 020°C  98 020°C  98 020°C  98 020°C  99 020°C  99 020°C  90 020°  | 61. YOU'S 62. YOU'S 62. YOU'S 62. YOU'S 63. YOU'S 63. YOU'S 64. YOU'S 65. YOU'S 65. YOU'S 66. YO   | 27.671  57.671   | 58 68<br>59 59<br>59 59<br>59 69<br>59 69<br>59<br>59 69<br>59<br>59 69<br>59<br>59 69<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59  | 00'002'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01  |                |
| M. C. L. L. O. L. M. C. M. M. C. M. C. M.   | 11"1441.26 N 10"2441.26 N 12"25441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"3541.26 N 13"3541.26  | C. 962, 963 C. 962, 963 C. 962, 963 C. 963, 963 C. 963   | 51 962 754<br>11 962 754<br>11 962 754<br>11 962 754<br>10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 '482-<br>99 '482-<br>91 '882-<br>99 '882-<br>91 '882-<br>99 '882-<br>91 '88  | 92' SSC' 1- 92' SSI' 1- 12' SSO 1- 12' SSO 1- 12' SSO 1- 12' SSO 2- 12' SSB 2- 12' SSB 2- 12' SSB 2- 12' SSP 1- 12' SSP 1   | 25 CCC, 1 25 CCC, 1 26 CCC, 1 27 CCC, 1 28 CCC  | 62 YOS'9 22 YOS'9 22 YOS'9 22 YOS'9 24 YOS'9 25 YOS'9 25 YOS'9 26 YOS'9 26 YOS'9 27 YOS'9 28 YOS'9 28 YOS'9 28 YOS'9 29 YOS'9 20  | Z. 6.11 Z. 6.1   | 50 60<br>50  | 00'002'11 00'009'11 00'009'11 00'009'11 00'000'11 00'000'11 00'000'11 00'000'11 00'000'0   |                |
|  | 11"1541.26 N 10"2541.26 N 12"2541.26 N 12"541.26 N 10"541.26 N   | C 962, 363 CC 962, 363 CC 962, 363 CC 962, 363 CC 963,   | 51 982 Z5P  11 962 Z5P  C1 960 C5P  C1 961 C5P  C1 961 C5P  C1 962 C5P  C2 962 C5P  C2 962 C5P  C3 962 C5P  C3 962 C5P  C4 962 C5P  C5 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 99 'R82-<br>99 'R82-<br>99 'R82-<br>99 'R82-<br>99 'R82-<br>99 'R82-<br>99 'R82-<br>91  | 92'552'5- 92'552'5- 92'551'5- 22'550'5- 22'550'5- 22'558'2- 22'558'2- 22'558'2- 22'558'2- 22'558'2- 22'558'1- 22'558   | 22 62" (c<br>99 622" (c<br>28 621 (c<br>00 0000 c<br>11 006" 2<br>25 021 (c<br>00 100" 2<br>27 100" 2<br>28 11 (c<br>00 100" 2<br>27 100" 2<br>28 11 (c<br>27 100" 2<br>28 120" 1<br>90 706" 1<br>9  | 62, YOC'S CS YOC'S 22, YOS'S 22, YOS'S 22, YOS'S 23, YOC'S SS YOC'   | 21.611   | 50 69 50 59 50 69   | 00'002'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01 00'005'01  |                |
| M. C. L. L. O. L. M. C. M. M. C. M. C. M.   | 11"1441.26 N 10"241.26 N 12"25.11.26 N 12"25.11.26 N 12"35.11.26 N 12"35.11.26 N 12"35.11.26 N 12"35.11.26 N 12"35.11.26 N 12"35.11.26 N 13"35.11.26 N 14"35.11.26 N 15"35.11.26 N 15"35 | C. 962, 963 C. 962, 963 C. 962, 963 C. 963, 963 C. 963   | 51 962 754<br>11 962 754<br>11 962 754<br>11 962 754<br>10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 11' 122' 12' 12'  | 92'552'5- 92'552'5- 92'551'5- 22'550'5- 22'550'5- 22'558'2- 22'558'2- 22'558'2- 22'558'2- 22'558'2- 22'558'2- 22'558'1- 22'558   | 22 629'C 99 622'C 99 622'C 99 622'C 99 622'C 99 622'C 90 620'C 91 006'Z 91 007'Z 91   | 62, VOC 9 22, VOC 9 22, VOC 9 22, VOC 9 22, VOC 9 24, VOC 9 25, VOC 9 26, VOC 9 26, VOC 9 27, VOC 9 28, VO   | Z1 611 Z1   | 58 68<br>58 58<br>58 58<br>58 58<br>58 58<br>59 58<br>59 68<br>59 68<br>50  | 00'002'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'01  |                |
| .98 (0.1.401 M   | 11"1-14-1.20 N 02"2-14-1.20 N 02"2-14-1.20 N 02"3-14-1.20 N 02"3-14-1.20 N 03"3-14-1.20 N 04"3-14-1.20 N 05"3-1.20 N   | 62 902 909  62 902 909  63 902 909  64 905 909  65 909  66 909  66 909  67 905 909  68 902 909  68 902 909  68 902 909  69 903 905  69 903 909  60 909   | 51 982 754<br>11 962 754<br>11 962 754<br>11 962 754<br>11 962 754<br>10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 122- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 11 162  | 92' SSC' 1- 92' SSI' 1- 12' SSI 2- 12' SSI 1- 12' SSI 1   | 52 629 (c<br>99 622 (c<br>99 622 (c<br>99 622 (c<br>99 622 (c<br>90 622 (c<br>90 622 (c<br>90 622 (c)<br>90 622 (c)<br>9  | 61. YOC'S  CS YOC'S  22. YOS'S  22. YOS'S  23. YOS'S  65. ZOS'S  65. ZOS'S  66. ZOS'S  66. ZOS'S  67. ZOS'S  68. ZOS'S  6   | Z1 611 Z1   | 50 60<br>50 50<br>50 50<br>50 60<br>50  | 00'002'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'01  |                |
|  | 11"1441.26 N 162"C4.41.26 N 161"C4.41.26 N 160"C4.41.26 N 160"C4.4 | 62, 923, 923, 923, 923, 923, 923, 923, 92  | 51 962 754 11 962 754 11 962 754 11 962 754 11 962 754 11 962 754 11 962 754 10 962 754 10 962 754 10 962 754 10 962 754 10 963 754  | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 19' 162' 19' 162' 11'  | 92' SSC' 1- 92' SSI' 1- 22' SSI' 1- 22' SSO 1- 22' SSO 1- 22' SSO 2- 22' SSI' 1- 22' SSI'  | 78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762.1<br>78.762  | 62 YOS'9 CS  | Z1.671 Z1   | 50 60   | 00'002'11 00'009'11 00'009'11 00'009'11 00'000'11 00'000'11 00'000'11 00'000'11 00'000'11 00'000'0   | Jnie4 gribne1  |
|  | 11"15+1.2E N 16"25+1.2E N 16"25+1.2E N 12"55+1.2E N 12"55 | CO PEZ 809  CO PEZ   | 51 982 Z5P  11 962 Z5P  C1 960 C5P  C1 961 C5P  C1 962 C5P  C1 963 C5P  C2 962 C5P  C3 962 C5P  C3 962 C5P  C4 964 C5P  C5 965   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 99 'L82-<br>99 'L82-<br>99 'R82-<br>99 '882-<br>99 '882-<br>99 '882-<br>99 '882-<br>91  | 92'552'6- 92'552'6- 92'551'6- 22'550'6- 22'550'6- 22'550'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'1- 22'558   | 82, 622<br>82, 623<br>82, 623<br>82, 623<br>83, 623<br>84, 625<br>85, 625<br>86, 625<br>87, 625<br>88, 625<br>88, 625<br>89,  | 61. YOU'S   CS. YO   | 2. 6.11 2. 6.1   | 58 68<br>59 59<br>59 69<br>59 69<br>59<br>59 69<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59<br>59   | 00'002'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'11 00'005'01  | Landing Point  |
|  | 11"1441.26 N 10"2441.26 N 12"25441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"35441.26 N 12"3541.26 N 13"3541.26 N 13"35541.26 N | 0.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0  | 51 962 754  11 962 754  11 962 754  11 962 754  11 962 754  10 962 754  10 962 754  10 962 754  10 962 754  10 962 754  10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 ' 122' 99 ' 182' 99 ' 1  | 92' SSC' 1- 92' SSI' 1- 22' SSI' 1- 22' SSI' 2- 22' SSI' 1- 22' SS   | 82 62" C<br>99 622" C<br>99 622" C<br>28 621 'C<br>00 0000 C<br>91 006" Z<br>92 007 Z<br>93 007 Z<br>94 102" Z<br>95 102" Z<br>97   | 61. YOS 9 22. YOS 9 22. YOS 9 22. YOS 9 22. YOS 9 23. YOS 9 24. YOS 9 25. YOS 9 25. YOS 9 25. YOS 9 25. YOS 9 26. YOS 9 27. YO   | 27.671 27   | 28 68 58 68 59 68   | 00'002'11 00'009'11 00'009'11 00'009'11 00'009'11 00'000'11 00'000'11 00'000'11 00'000'11 00'000'0   | յունօգ թոնում  |
| NO 1.1018 N. 104.1.10 94.  NO 1.1018 N. 104.1.10 98.  NO 1.1018 N. 104.1.10   | 11"15+1.2C N   | 22 60: 809 82 60: 809 82 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 83 60: 809 84 60: 809 85 60   | 51 982 554  11 962 554  11 962 554  11 962 554  11 962 554  10 962 554  10 962 554  10 962 554  10 963 555  10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 11' 122' 12' 12'  | 92'552'6- 92'552'6- 92'551'6- 22'550'6- 22'550'6- 22'550'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'1- 22'558   | 82, 625, 6<br>82, 625, 6<br>82, 625, 6<br>82, 625, 6<br>83,  | 61. YOS 9 61. YOS 9 62. YOS 9 62. YOS 9 62. YOS 9 63. YOS 9 64. YOS 9 65. YOS 9 66. YO   | 21.611   | 20 59 59 59 59 59 59 59 59 59 59 59 59 59   | 00 002'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'01 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'6 00 005'8  | Jnie4 gribneJ  |
| .96 (1.1-01 M (1.2-01 M (1   | 11"1-14-1.20 N 10"2-14-1.20 N 12"2-14-1.20 N 12"3-14-1.20 N 13"3-14-1.20 N 14"3-14-1.20 N 16"3-14-1.20 N 16"3-1 | 0.0 (20 )   | 51 962 754  11 962 754  11 962 754  11 962 754  11 962 754  10 962 754  10 962 754  10 962 754  10 962 754  10 962 754  10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 ' 122' 99 ' 182' 99 ' 1  | 92' SSC' 1- 92' SSI' 1- 22' SSI' 1- 22' SSI' 2- 22' SSI' 1- 22' SS   | 82 62" C<br>99 622" C<br>99 622" C<br>28 621 'C<br>00 0000 C<br>91 006" Z<br>92 007 Z<br>93 007 Z<br>94 102" Z<br>95 102" Z<br>97   | 61. YOS 9 22. YOS 9 22. YOS 9 22. YOS 9 22. YOS 9 23. YOS 9 24. YOS 9 25. YOS 9 25. YOS 9 25. YOS 9 25. YOS 9 26. YOS 9 27. YO   | 27.671 27   | 28 68 58 68 59 68   | 00'002'11 00'009'11 00'009'11 00'009'11 00'009'11 00'000'11 00'000'11 00'000'11 00'000'11 00'000'0   | Jnio¶ gnibria] |
| N. 104.1.10 94.  N. 104.1.10 98.  | 11"15+1.2C N   | 22 00: 809 81. 40: 809 82. 400: 809 83. 40: 809 84. 40: 809 85. 409 85   | 51 982 Z5P  11 962 Z5P  11 962 Z5P  11 962 Z5P  11 962 Z5P  10 963   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 ' 122' 99 ' 182' 91 ' 182' 99 ' 182' 90 ' 1  | 92' SSC' 1- 92' SSI' 1- 12' SSI 2- 12' SSI 1- 12' SSI 1   | 82 62°C 99 62C'C 99 62C'C 99 62C'C 99 62C'C 99 62C'C 90 62C'C 28 621'C 00 00 00 00 91 006'Z 95 002'Z 67 009'Z 95 002'Z 67 009'Z 95 002'Z 68 11'C 98 00 00 00 91 006'Z 95 002'Z 11'00'Z 11'00'Z 12'10'Z 18'10'Z  | 61. YOS 9 62. YOS 9 72. YOS 9 72. YOS 9 73. YOS 9 74. YOS 9 75. YO   | 27.671 27   | 58 68<br>59 69<br>59 69<br>50  | 00 002'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'01  | Jujod Bujur    |
|  | 11"1-14-1.2C N 16"2"1-1.2C N 12"5"1-1.2C N 13"5"1-1.2C N 13"5"1-1.2C N 14"5"1-1.2C N 14"5"1-1.2C N 15"5"1-1.2C N 15"5"1-1.2C N 15"5"1-1.2C N 15"5"1-1.2C N 15"5"1-1.2C N 16"5"1-1.2C N 1 | 62 802 803 11/11/8/29 90 00: 803 90 00: 803 90 00: 803 90 00: 803 90 90 90 90 90 90 90 90 90 90 90 90 90   | 51 968 Z59 11 967 Z59 10 968 Z59  | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99 182' 99 182' 99 182' 99 182' 99 182' 99 182' 99 182' 99 182' 99 182' 11' 162' 12' 162' 12' 162' 12' 162' 12' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 13' 162' 14' 162' 14' 162' 15'  | 92' SSC' 1- 92' SSI' 1- 12' SSO 1   | 82 62" C 99 622" C 90 622"  | 61. HOS 9 22. HOS 9 22. HOS 9 22. HOS 9 22. HOS 9 23. HOS 9 24. HOS 9 25. COS 9 26. COS 9 27. CO   | 21 611 21   | 59 69   | 00 002'11 00 009'11 00 009'11 00 009'11 00 009'11 00 009'11 00 000'11 00 000'11 00 000'11 00 000'11 00 000'01  | Jaioq Bainta   |
| 10.1.01.0 Pt. 10   | 11"1-14-1.2C N 16"2"1-1.2C N 16"3"1-1.2C N 1 | 22 000 809 61 / 400 809 62 / 400 809 62 / 400 809 62 / 400 809 63 / 400 809 63 / 400 809 64 / 400 809 65 / 400 809 66 / 400 809 67 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 68 / 400 809 69 / 400 809 60 / 40   | 51 982 Z5H 11 962 Z5H 10 962 Z5H 80 969 Z5H  | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 11' 122'   | 92'552'6- 92'552'6- 92'551'6- 22'550'6- 22'550'6- 22'550'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'1- 22'558   | 82 62 °C 99 62 °C 90   | 61. YOS 9 61. YOS 9 62. YOS 9 62. YOS 9 62. YOS 9 63. YOS 9 64. YOS 9 65. YOS 9 65. YOS 9 65. YOS 9 66. YO   | 21.611 21   | 58 68<br>58 68<br>58 68<br>58 68<br>58 68<br>59 50<br>59 50<br>59 50<br>50  | 00 '002' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 10 00 '00 | Jnio¶ gnibna.  |
| 19 (11-10) A (11   | 11"1-14-1.20 N 02"2-14-1.20 N 03"2-14-1.20 N 03"2-14-1.20 N 03"2-14-1.20 N 03"1-14-1.20 N 03"1-14-1.20 N 03"1-14-1.20 N 04"1-14-1.20 N 04"1-1 | 28 00: 809  16 176 809  17 176 809  18 176   | 51 982 Z5P  11 962 Z5P  C1 960 C5P  C1 961 C5P  C1 962 C5P  C2 962 C5P  C2 962 C5P  C3 962 C5P  C3 962 C5P  C4 964 C5P  C5 967 C5P  C6 967 C5P  C6 967 C5P  C7 967 C5P  C7 967 C5P  C8 967   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 11 122- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 99 182- 11 182  | 92' SSC' 1- 92' SSI' 1- 12' SSS '1- 12' SSS '1- 12' SSS '1- 12' SSS '2- 12' SSS '1- 12' SS   | 82 62"C 99 62CC 99 62CC 99 62CC 99 62CC 99 62CC 90 62C  | 61. HOS 9 62. HOS 9 63. HOS 9 64. HOS 9 65. HOS 9 66. HO   | 80.0CZ   | 58 68<br>59 69<br>59 50<br>50  | 00 002'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'01  |                |
| 19 (11-10) A (11   | 11"1-14-1.2C N 16"2"1-1.2C N 16"3"1-1.2C N 1 | 28 00: 809  16 176 809  17 176 809  18 176   | 51 982 Z5H 11 962 Z5H 10 962 Z5H 80 969 Z5H  | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 99' 122' 11' 122'   | 92'552'6- 92'552'6- 92'551'6- 22'550'6- 22'550'6- 22'550'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'7- 22'558'1- 22'558   | 82 62 °C 99 62 °C 90   | 61. YOS 9 61. YOS 9 62. YOS 9 62. YOS 9 62. YOS 9 63. YOS 9 64. YOS 9 65. YOS 9 65. YOS 9 65. YOS 9 66. YO   | 21.611 21   | 58 68<br>58 68<br>58 68<br>58 68<br>58 68<br>59 50<br>59 50<br>59 50<br>50  | 00 '002' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 11 00 '005' 10 00 '00 | 5°/100         |
|  | 11"1-14-1.20 N 02"2-14-1.20 N 03"2-14-1.20 N 03"2-14-1.20 N 03"2-14-1.20 N 03"1-14-1.20 N 03"1-14-1.20 N 03"1-14-1.20 N 04"1-14-1.20 N 04"1-1 | 07.500,809  | 51 982 Z5H  11 962 Z5H  10 963 Z5H  10 963 Z5H  10 964 Z5H  10 965   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 19' 162' 19'  | 92' SSC' 1- 92' SSI' 1- 12' SSS '1- 12' SSS '1- 12' SSS '1- 12' SSS '2- 12' SSS '1- 12' SS   | 82 62°C 99 622°C 99 622°C 99 622°C 99 622°C 99 622°C 99 622°C 90 100°C 91 000°C 91 0  | 67, AOC, 8 67, AOC, 8 68, AOC, 8  | 200, 452  00   | 58 68<br>58 68<br>59 68<br>59 68<br>59 68<br>59 68<br>59 68<br>59 68<br>50  | 00 002'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'01  |                |
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| A LIOLALIO 94.  A LIOLALIO 95.  A LIOLALIO 96.  A LIOLALIO 97.   | 11"1441.26 N 10"241.26 N 12"25 14.12 N 14"25 | 07.500,809  | 51 982 Z5H  11 962 Z5H  10 963 Z5H  10 963 Z5H  10 964 Z5H  10 965   | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00                      | 21' 122' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 99' 182' 19' 162' 19'  | 92' SSC' 1- 92' SSJ' 1- 22' SSD' 1- 22' SSD 1- 22' SSD 2- 22' SSB 2- 22' SSB 2- 22' SSB 2- 22' SSB 2- 22' SSD' 2- 22' SSD' 2- 22' SSJ' 1- 22' SSB 1- 22' SSB' 1- 2   | 82 62°C 99 622°C 99 622°C 99 622°C 99 622°C 99 622°C 99 622°C 90 100°C 91 000°C 91 0  | 67, AOC, 8 67, AOC, 8 68, AOC, 8  | 200, 452  00   | 58 68<br>58 68<br>59 68<br>59 68<br>59 68<br>59 68<br>59 68<br>59 68<br>50  | 00 002'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'11 00 005'01  | 5°/100         |

| 6_7 Fed Com 25H /<br>6_7 Fed Com 25H<br>Rev0 |                   | 930_0.5          | _MWD_                 |                                      |                            | <b>278.</b> 6     | 000'001/1        | 766.S97,81        | 008.58≯,€       | ı              | •                  |                              |
|--|-------------------|------------------|-----------------------|--------------------------------------|----------------------------|-------------------|------------------|-------------------|-----------------|----------------|--------------------|------------------------------|
| 6_7 Fed Com 25H /<br>6_7 Fed Com 25H<br>Rev0 |                   | 5.0_0EG          | _dwm_1 <del>A</del> N |                                      |                            | 09£.Þ1            | 000,001\1        | 3,482,800         | 000.0           | 1              |                    |                              |
| YevruS / Slori                               | fanoB             | eqvT lo          | ot yaviu2             | Expected Max<br>Inclination<br>(geb) | Casing<br>Oisensio<br>(ni) | osi2 aloH<br>(ni) | EOU Freq<br>(ft) | oT GM<br>(#)      | mon 3 GM<br>(개) | heq            | ·                  | Description                  |
|  |                   |                  |                       |                                      |                            |                   |                  |                   |                 |                |                    | :ന്നടുവഴ , ഉവർ               |
|  |                   |                  |                       |                                      |                            |                   |                  | emgis 236%        | Confidence 2.   | 000.88 G-£ A2\ | IECN               | Survey Error Model:          |
|  |                   |                  |                       |                                      |                            |                   |                  |                   |                 | . nal9 təC     | I-noV              | Survey Type:                 |
|  |                   |                  |                       |                                      |                            |                   |                  |                   |                 |                |                    | JH8d                         |
| -78,01'1'-b01 W "+1.                         | N 35.13.30        | 74.646,868       | 12.447,244            | 00.0                                 | 84.125-                    | 64,742,01-        | 87.802,01        | 00.652.00         | 27.871          | 28.68          | <b>\$</b> £.267,81 | Length CC 6_7<br>Fed Com 25H |
| .49'01.1.#01 M .50'                          | N 35.13.31        | 10.545,858       | 18.358,814            | 00.0                                 | 16.18S-                    | SI 'SSP' 01-      | 62.814,01        | 97.552,8          | 27,671          | <b>58.68</b>   | 00.007,81          |                              |
| .89'01.1.+01 M .+0                           |                   | 638,342.52       | 68.856,814            | 00.0                                 | -525 **                    | 61.885,01-        | 77.81E.01        | 8,522.51          | 27.871          | 28.68          | 00.009,81          |                              |
| 03. W 104-1'10.68"                           |                   |                  | 28.850,8¥             | 00.0                                 | -292.93                    | 21,255,01-        | 26.915.01        | 8,522,25          | 27.971          | 28.68          | 00.002,81          |                              |
|  |                   | 53.146,868       | 18.851,844            | 00.0                                 | £4,E25-                    | 91,881,01-        | E1.711,01        | 66.152,8          | 27.971          | 58.68          | 00.004,81          |                              |
|  | Latita.<br>• R\N) | gnites크<br>(SU카) | gridhoN<br>(2UH)      | (,100H)<br>DES                       | (ii)                       | SN<br>SN          | (ii)             | <b>GVT</b><br>(前) | misA<br>(?)     | loni<br>(*)    | GM<br>(ft)         | Convents                     |

# Schlumberger





### 1. Geologic Formations

| TVD of target | 8523'  | Pilot Hole Depth              | N/A  |
|---------------|--------|-------------------------------|------|
| MD at TD:     | 18792' | Deepest Expected fresh water: | 115' |

### **Delaware Basin**

| Formation       | TVD - RKB | Expected Fluids |  |  |
|-----------------|-----------|-----------------|--|--|
| Rustler         | 115       |                 |  |  |
| Salado          | 523       | Salt            |  |  |
| Castile         | 1,423     | Salt            |  |  |
| Lamar/Delaware  | 2,731     | Oil/Gas/Brine   |  |  |
| Bell Canyon     | 2,801     | Oil/Gas/Brine   |  |  |
| Cherry Canyon   | 3,740     | Oil/Gas/Brine   |  |  |
| Brushy Canyon   | 4,933     | Oil/Gas/Brine   |  |  |
| Bone Spring     | 6,523     | Oil/Gas         |  |  |
| 1st Bone Spring | 7,510     | Oil/Gas         |  |  |
| 2nd Bone Spring | 8,382     | Oil/Gas         |  |  |

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

# 2. Casing Program

**Buoyant Buoyant** 

| Hole Size | Casing    | Interval | Csg. Size | Weight | Grade | C     | SF       | SF Burst      | Body SF     | Joint SF |
|-----------|-----------|----------|-----------|--------|-------|-------|----------|---------------|-------------|----------|
| (in)      | From (ft) | To (ft)  | (in)      | (lbs)  | Grade | Conn. | Collapse | or burst      | Tension     | Tension  |
| 14.75     | 0         | 400      | 10.75     | 40.5   | J-55  | BTC   | 1.125    | 1.2           | 1.4         | 1.4      |
| 9.875     | 0         | 7849     | 7.625     | 26.4   | L-80  | BTC   | 1.125    | 1.2           | 1.4         | 1.4      |
| 6.75      | 0         | 18792    | 5.5       | 20     | P-110 | DQX   | 1.125    | 1.2           | 1.4         | 1.4      |
|           |           |          |           |        |       |       | SF Va    | ilies will me | et or Excee | ,q       |

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

<sup>\*</sup>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.

# **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 justification (loading assumptions, casing design criteria). | Y      |
| 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?  |        |
| 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 <sup>rd</sup> 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 <sup>nd</sup> string set 100' to 600' below the base of salt?   |        |
| Is well located in high Cave/Karst?  | N      |
| If yes, are there two strings cemented to surface?   |        |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?   |        |
| Is well located in critical Cave/Karst?  | N      |
| If yes, are there three strings cemented to surface?   |        |

# 3. Cementing Program

| Casing String                 | # Sks          | Wt.<br>(lb/gal) | Yld<br>(ft3/sack)           | H20<br>(gal/sk) | 500#<br>Comp.<br>Strength<br>(hours) | Slurry Description                         |  |
|-------------------------------|----------------|-----------------|-----------------------------|-----------------|--------------------------------------|--|--|
| Surface (Lead)                | N/A            | N/A             | N/A                         | N/A             | N/A                                  | N/A  |  |
| Surface (Tail)                | 326            | 14.8            | 1.33                        | 6.365           | 526                                  | Class C Cement, Accelerator                |  |
| Intermediate 1st Stage (Lead) | 645            | 10.2            | 2.58                        | 11.568          | 6:59                                 | Pozzolan Cement, Retarder                  |  |
| Intermediate 1st Stage (Tail) | 167            | 13.2            | 1.61                        | 7.804           | 7:11                                 | Class H Cement, Retarder, Dispersant, Salt |  |
| DV/ECP Tool @ 2781 (We re     | quest the opti | on to cancel th | e second stage<br>operation |                 | circulated to s                      | urface during the first stage of cement    |  |
| Intermediate 2nd Stage (Lead) | N/A            | N/A             | N/A                         | N/A             | N/A                                  | N/A  |  |
| Intermediate 2nd Stage (Tail) | 669            | 13.6            | 1.67                        | 8.765           | 7:32                                 | Class C Cement, Accelerator, Retarder      |  |
| Production (Lead)             | N/A            | N/A             | N/A                         | N/A             | N/A                                  | N/A  |  |
| Production (Tail)             | 839            | 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        | 400         | 100%     |
| Intermediate 1st Stage (Lead) | 2681     | 6849        | 20%      |
| Intermediate 1st Stage (Tail) | 6849     | 7849        | 20%      |
| Intermediate 2nd Stage (Lead) | N/A      | N/A         | N/A      |
| Intermediate 2nd Stage (Tail) | 0        | 2781        | 100%     |
| Production (Lead)             | N/A      | N/A         | N/A      |
| Production (Tail)             | 7349     | 18792       | 20%      |

# 4. Pressure Control Equipment

| BOP installed and tested before drilling which hole? | Size?      | Min.<br>Required<br>WP | Туре     |         | <b>*</b> | Tested to:              |
|--|------------|------------------------|----------|---------|----------|-------------------------|
| 9.875" Hole  | 13-5/8" 5M | 5M                     | Annula   | ar      | *        | 70% of working pressure |
|  |            |                        | Blind R  | am      | Ý        |                         |
|  |            |                        | 3101     | Pipe Ra | ım       |                         |
|  |            |                        | Double F | Ram     | <b>\</b> | 250/5000psi             |
|  |            |                        | Other*   |         |          |                         |

<sup>\*</sup>Specify if additional ram is utilized.

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.

| 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**

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

### 5. Mud Program

| Depth     |         |   | Weight  | <b>X7</b> * | ***        |
|-----------|---------|---|---------|-------------|------------|
| From (ft) | To (ft) | Туре  | (ppg)   | Viscosity   | Water Loss |
| 0         | 400     | Water-Based Mud                               | 8.6-8.8 | 40-60       | N/C        |
| 400       | 7849    | Saturated Brine-<br>Based or Oil-Based<br>Mud | 8.0-9.6 | 35-45       | N/C        |
| 7849      | 18792   | Water-Based or Oil-<br>Based Mud              | 8.0-9.6 | 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 | PVT/MD Totco/Visual Monitoring |
|---|--------------------------------|
| of fluid?                                     | _                              |

# 6. Logging and Testing Procedures

| Logg | Logging, 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    | 4255 psi                     |
| Abnormal Temperature          | No                           |
| BH Temperature at deepest TVD | 149°F                        |

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

| . 17 | 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 two 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: 1274.5 bbls.

### 9. Company Personnel

| <u>Name</u>     | <u>Title</u>                 | Office Phone | Mobile Phone |
|-----------------|------------------------------|--------------|--------------|
| Derek Adam      | Drilling Engineer            | 713-366-5170 | 916-802-8873 |
| Randy Neel      | Drilling Engineer Supervisor | 713-215-7987 | 713-517-5544 |
| Simon Benavides | Drilling Superintendent      | 713-522-8652 | 281-684-6897 |
| John Willis     | Drilling Manager             | 713-366-5556 | 713-259-1417 |

# OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

**OPERATOR NAME / NUMBER: OXY USA Inc** 

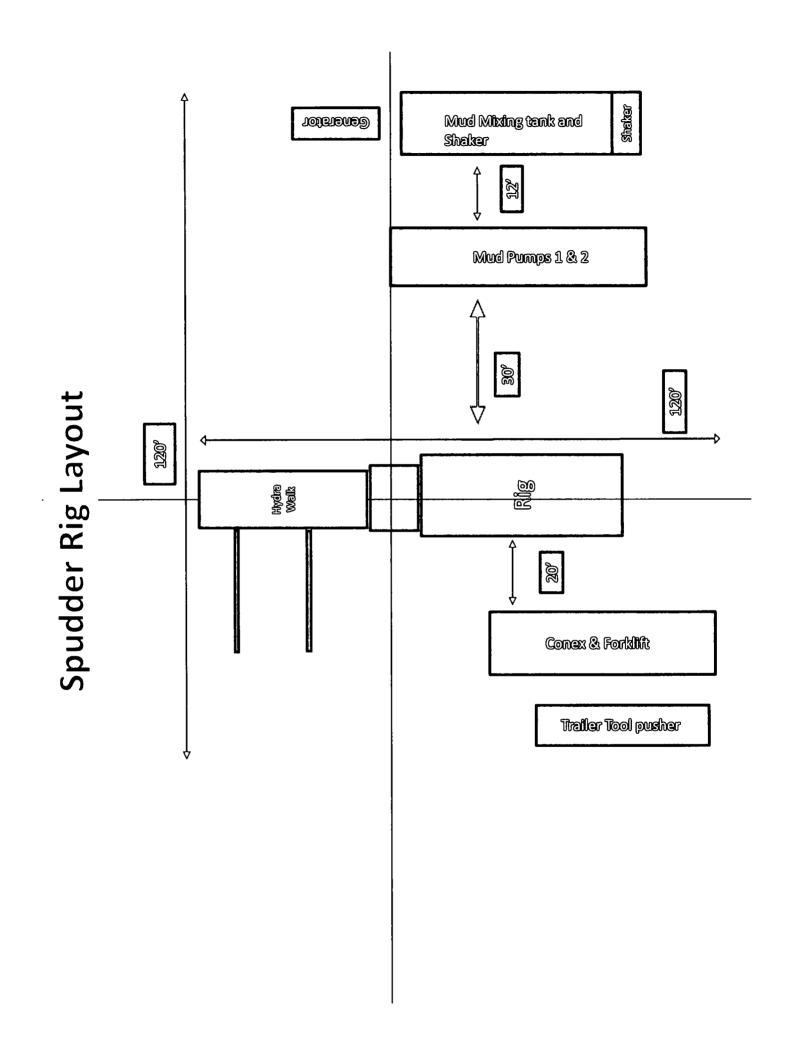
### 1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

### 2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
  - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - **b.** The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
  - **a.** The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
  - **b.** The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.





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



APD ID: 10400033343

**Operator Name: OXY USA INCORPORATED** 

Well Name: LENGTH CC 6\_7 FEDERAL COM

Well Type: OIL WELL

Submission Date: 08/22/2018

Well Work Type: Drill

reflects the most recent changes Well Number: 25H

**Show Final Text** 

Highlighted data

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

LengthCC6\_7FdCom25H\_ExistRoads\_20180822134357.pdf

**Existing Road Purpose: 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:** 

LengthCC6\_7FdCom25H\_NewRoad\_20180822134241.pdf

New road type: LOCAL

Length: 264.7

Feet

Width (ft.): 25

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? NO

**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? YES

New road access plan attachment:

LengthCC6\_7FdCom25H\_NewRoad\_20180822134310.pdf

Access road engineering design? NO

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

Access road engineering design attachment:

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: The access road will run from an existing road going 70.3' southeast, then 194.4' east

through pasture to the northwest corner of the pad.

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**

Additional Attachment(s):

### **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

Attach Well map:

LengthCC6\_7FdCom25H\_ExistWells\_20180822134410.pdf

**Existing Wells description:** 

# 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, the Dimension 6 Federal Central Tank Battery would 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 – 4" composite flowlines operating 75% MAWP, surface lines to follow surveyed route. Survey of a strip of land 30' wide and 3810.3' in length crossing in Section 6, T24S R29E and Section 31 T23S R29E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached. c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 2680.6' in length crossing Section 6 T24S R29E and Section 31 T23S R29E, NMPM, Eddy County, NM and being 15' left and 15' right of the

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

centerline survey, see attached. d. See attached for additional information on the Dimension 6 Central Tank Battery.

### **Production Facilities map:**

LengthCC6\_7FdCom25H\_FacilityPLEL\_20180822134443.pdf LengthCC6\_7FdCom25H\_LeaseFacilityInfo\_20180822134452.pdf

# Section 5 - Location and Types of Water Supply

### **Water Source Table**

Water source use type: INTERMEDIATE/PRODUCTION CASING,

Water source type: GW WELL

OTHER, SURFACE CASING

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER WELL Source land ownership: COMMERCIAL

Water source transport method: PIPELINE, TRUCKING 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:

LengthCC6\_7FdCom25H\_GRRWtrSrc\_20180822134510.pdf LengthCC6\_7FdCom25H\_MesqWtrSrc\_20180822134520.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) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? NO

### **New Water Well Info**

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

**Aquifer comments:** 

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

**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**

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 provided from a frac pond located in Sections 15, 21, 22 T24S R29E.

**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: 1275

barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

**FACILITY** 

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? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

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? YES

**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?: NO

**Ancillary Facilities attachment:** 

Comments:

**Section 9 - Well Site Layout** 

Well Site Layout Diagram:

LengthCC6\_7FdCom25H\_WellSiteCL\_20180822134637.pdf

Comments: V-Door-West - CL Tanks-South - 330' X 620' - 7 Well Pad

Well Name: LENGTH CC 6 7 FEDERAL COM Well Number: 25H

# **Section 10 - Plans for Surface Reclamation**

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: HEIGHT CC 6-7 FEDERAL COM

Multiple Well Pad Number: 35H

**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 Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 4.7 1.42 (acres): 3.28

Road proposed disturbance (acres): Road interim reclamation (acres): 0.09 Road long term disturbance (acres):

0.18 Powerline interim reclamation (acres):

Powerline long term disturbance Powerline proposed disturbance 1.85

(acres): 1.85 (acres): 0 Pipeline interim reclamation (acres):

Pipeline proposed disturbance Pipeline long term disturbance 1.75 (acres): 0.87

(acres): 2.62 Other interim reclamation (acres): 0.33

Other proposed disturbance (acres): 0 Other long term disturbance (acres): 0

Total interim reclamation: 5.44 Total proposed disturbance: 9.35 Total long term disturbance: 4.24

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:** 

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

**Existing Vegetation Community at other disturbances attachment:** 

| Operator Name: OXY USA INCORPORATED   |                              |
|---|------------------------------|
| Well Name: LENGTH CC 6_7 FEDERAL COM  | Well Number: 25H             |
| Non native seed used? NO  |                              |
| Non native seed description:  |                              |
| Seedling transplant description:  |                              |
| Will seedlings be transplanted for this project? No                           | 0                            |
| Seedling transplant description attachment:                                   |                              |
| Will seed be harvested for use in site reclamation                            | ? NO                         |
| Seed harvest description:   |                              |
| Seed harvest description attachment:  |                              |
| Seed Management  Seed Table  Seed type: Seed name: Source name: Source phone: | Seed source: Source address: |
| Seed cultivar:  |                              |
| Seed use location: PLS pounds per acre:                                       | Proposed seeding season:     |
| r Lo poundo per dore.   | roposca sceamy scasom        |
| Seed Summary  | Total pounds/Acre:           |
| Seed Type Pounds/Acre   |                              |
| Seed reclamation attachment:  Operator Contact/Responsible Offi               | icial 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? NO

Existing invasive species treatment description:

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

Monitoring plan description: To be determined by the BLM.

Monitoring plan attachment:

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

# **Section 11 - Surface Ownership**

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, OTHER

Other surface owner description: Fee - Private Surface Agreement will be provided upon request.

**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

Other surface owner description: Fee - Private Surface Agreement will be provided upon request.

**BIA Local Office:** 

| well halle. LENGTH CC 6_7 FEDERAL COM                | Well Number. 25H                            |  |
|--|---|--|
| BOR Local Office:                                    |   |  |
| COE Local Office:                                    |   |  |
| OOD Local Office:                                    |   |  |
| NPS Local Office:                                    |   |  |
| State Local Office:                                  | ·   |  |
| Military Local Office:                               |   |  |
| JSFWS Local Office:                                  |   |  |
| Other Local Office:                                  |   |  |
| JSFS Region:   |   |  |
| JSFS Forest/Grassland:                               | USFS Ranger District:                       |  |
|  | •   |  |
|  |   |  |
|  |   |  |
|  |   |  |
| Disturbance type: WELL PAD                           |   |  |
| Describe:  |   |  |
| Surface Owner: OTHER                                 |   |  |
| Other surface owner description: Fee – Private Surfa | ce Agreement will be provided upon request. |  |
| BIA Local Office:                                    |   |  |
| BOR Local Office:                                    |   |  |
| COE Local Office:                                    |   |  |
| OOD Local Office:                                    |   |  |
| NPS Local Office:                                    |   |  |
| State Local Office:                                  |   |  |
| Military Local Office:                               |   |  |
| JSFWS Local Office:                                  |   |  |
| Other Local Office:                                  |   |  |
| JSFS Region:   | •   |  |
| JSFS Forest/Grassland:                               | USFS Ranger District:                       |  |

Well Name: LENGTH CC 6\_7 FEDERAL COM Well Number: 25H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: OTHER

Other surface owner description: Fee - Private Surface Agreement will be provided upon request.

**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:** 

### **Section 12 - Other Information**

Right of Way needed? YES

Use APD as ROW? YES

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

**ROW Applications** 

**SUPO Additional Information:** Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal.

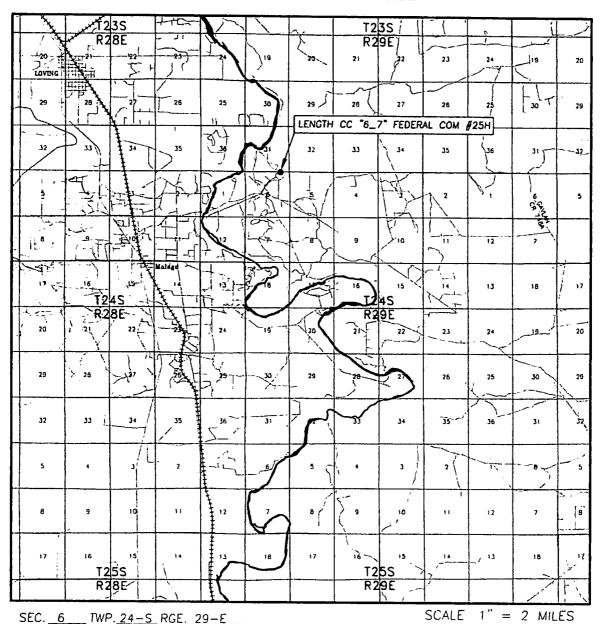
Use a previously conducted onsite? NO

**Previous Onsite information:** 

# **Other SUPO Attachment**

LengthCC6\_7FdCom25H\_GasCapPlan\_20180822134801.pdf LengthCC6\_7FdCom25H\_MiscSvyPlats\_20180822134812.pdf LengthCC6\_7FdCom25H\_StakeForm\_20180822134837.pdf LengthCC6\_7FdCom25H\_SUPO\_20180822134853.pdf

## VICINITY MAP



SURVEY N.M.P.M.
COUNTY EDDY
DESCRIPTION 65' FNL & 1076' FEL

ELEVATION 2956.3

OPERATOR OXY USA INC.

Asel Surveying

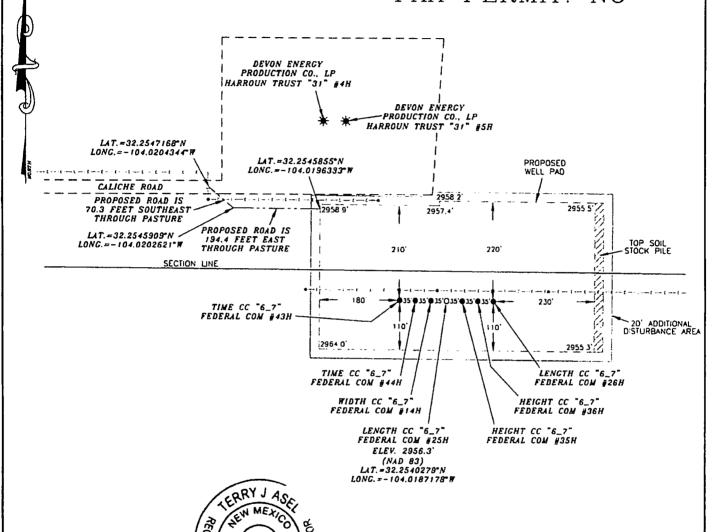
PO. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146

LEASE LENGTH CC "6\_7" FEDERAL COM #25H

DIRECTIONS FROM THE INTERSECTION OF U.S. HWY #285 AND COUNTY ROAD #731 (ONSUREZ ROAD) IN MALAGA, GO NORTH ON COUNTY ROAD #731 FOR 0.6 MILES, TURN RIGHT ON COUNTY ROAD #743 (BRUMBLE ROAD) AND GO EAST FOR 1.0 MILES, CONTINUE EAST ON COUNTY ROAD #745 (HARROUN ROAD) FOR 2.0 MILES, TURN LEFT AND GO NORTH FOR 0.6 MILES, TURN RIGHT AND GO EAST FOR 0.5 MILES, TURN RIGHT ON PROPOSED ROAD AND GO SOUTHEAST FOR 70.3 FEET, TURN LEFT AND GO EAST FOR 194.4 FEET TO LOCATION.



# OXY USA INC. LENGTH CC "6\_7" FEDERAL COM #25H SITE PLAN FAA PERMIT: NO

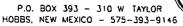


### **SURVEYORS CERTIFICATE**

TED AN 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 "MINIMIUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.



Asel Surveying



### **LEGEND**

- DENOTES PROPOSED WELL PAD
- DENOTES PROPOSED ROAD 1/23 - DENOTES STOCK PILE AREA ''- - DENOTES OVERHEAD ELECTRIC LINE
 ★ - DENOTES EXISTING WELL

200' 200 400' FEET SCALE: 1"=200'

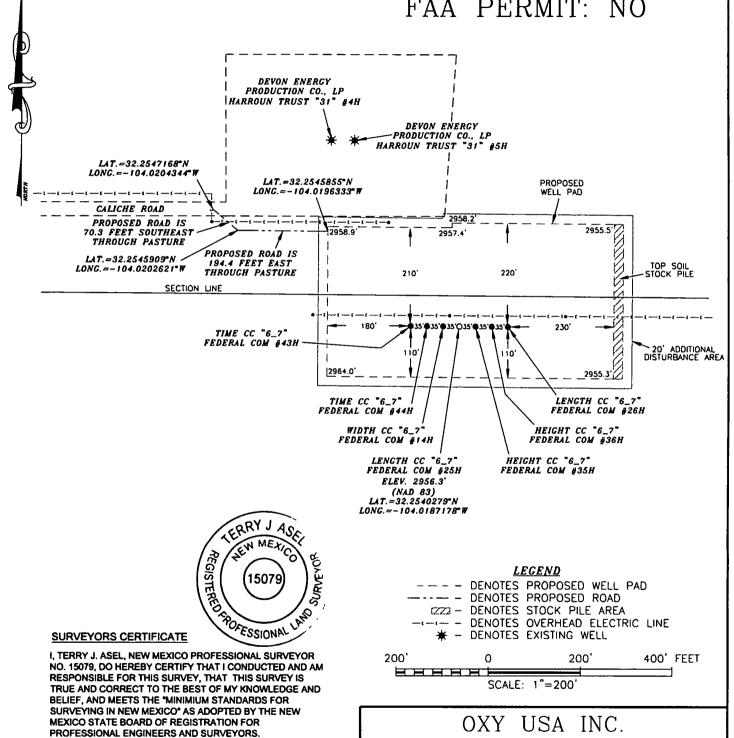
## OXY USA INC.

LENGTH CC "6\_7" FEDERAL COM #25H LOCATED AT 65' FNL & 1076' FEL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST. N.M.P.M., EDDY COUNTY, NEW MEXICO

| Survey Date: 06/28/18   | Sheet 1 o    | f 1 Sheets    |
|-------------------------|--------------|---------------|
| W.O. Number: 180628WL-b | Drawn By: KA | Rev:          |
| Date: 08/03/18          | 180628WL-b   | Scole:1"=200' |

## OXY USA INC. LENGTH CC "6\_7" FEDERAL COM #25H SITE PLAN

FAA PERMIT: NO



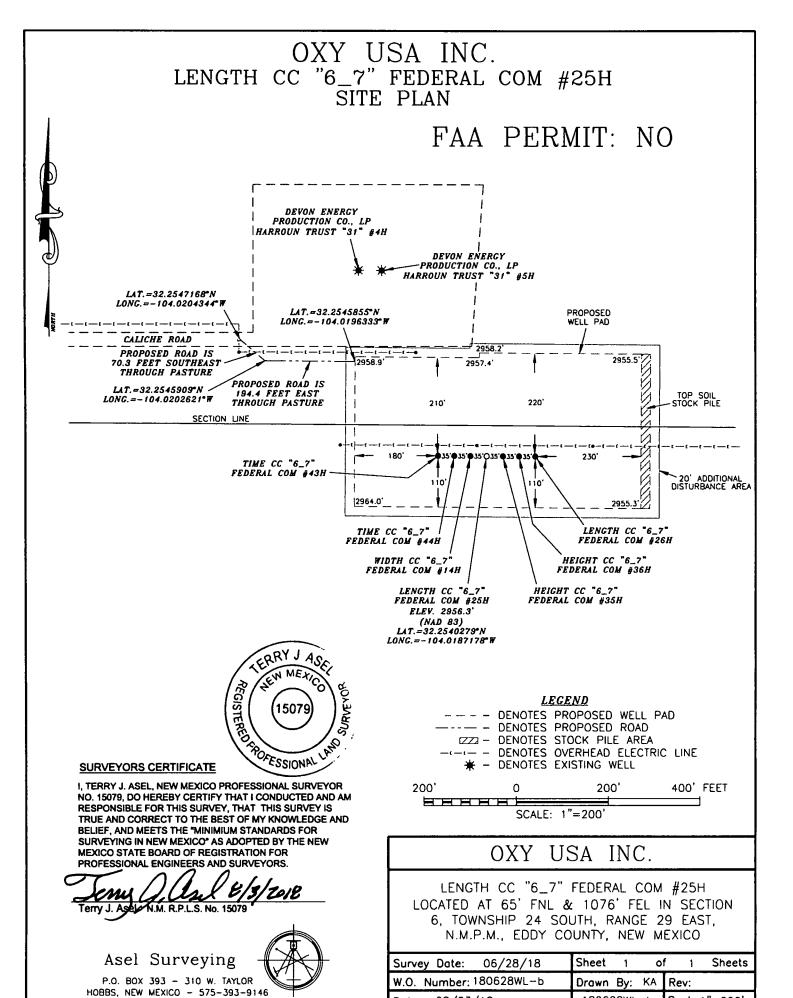
LENGTH CC "6\_7" FEDERAL COM #25H LOCATED AT 65' FNL & 1076' FEL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

| Ì | Survey Date: 06/28/18   | Sheet 1 of 1 Sheets      |
|---|-------------------------|--------------------------|
|   | W.O. Number: 180628WL-b | Drawn By: KA Rev:        |
|   | Date: 08/03/18          | 180628WL-b Scale:1"=200' |



Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



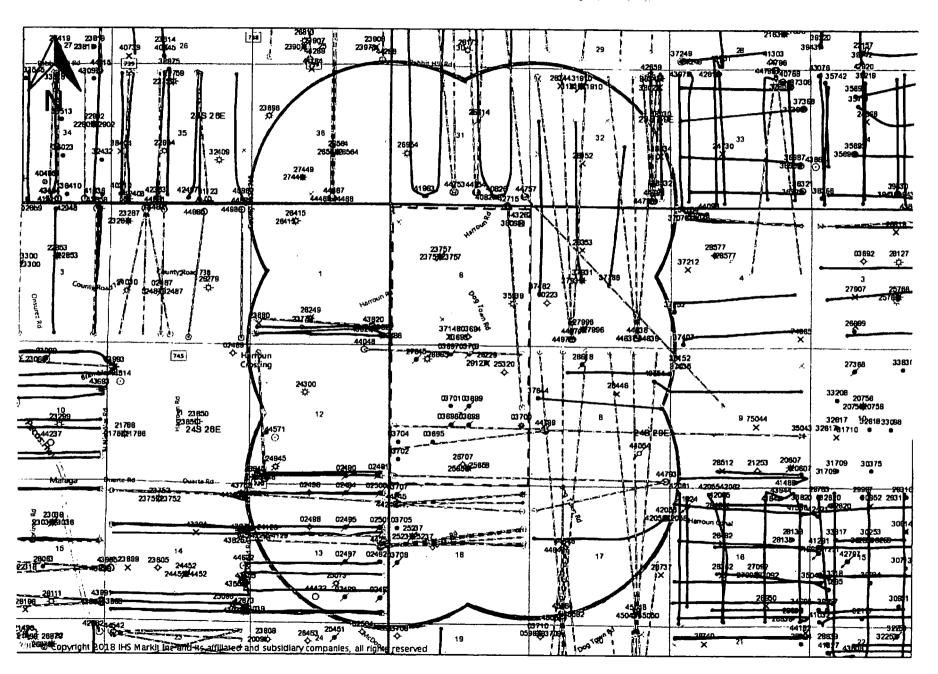
08/03/18

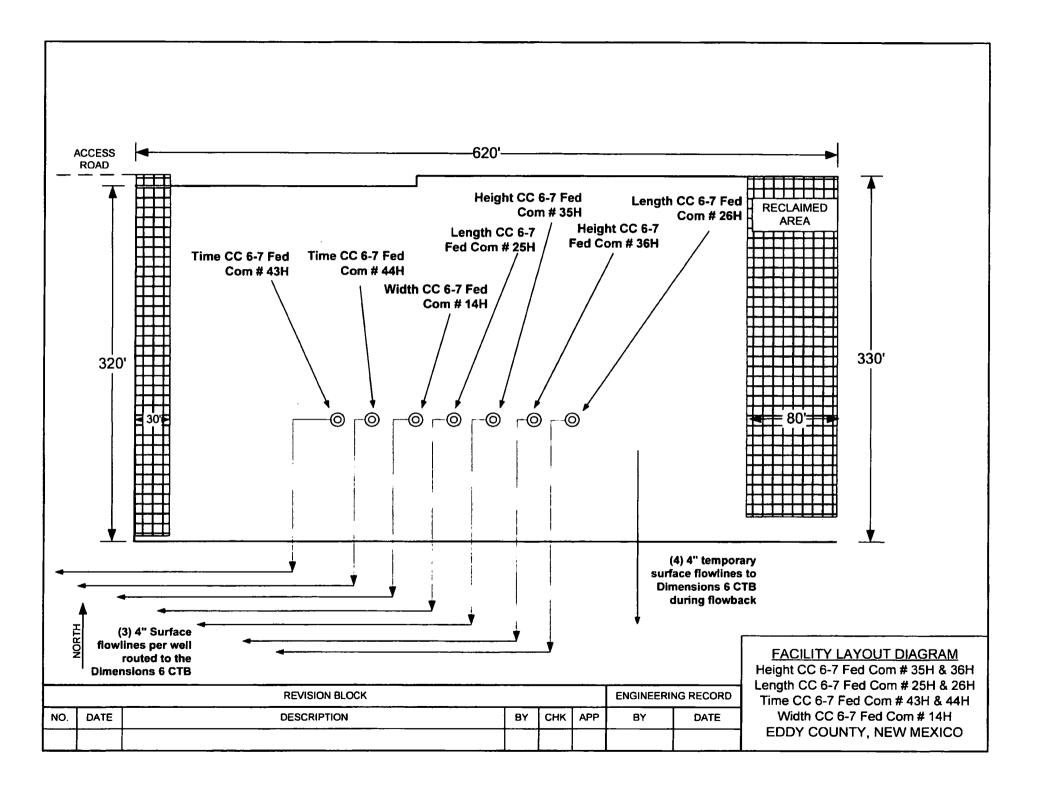
Date:

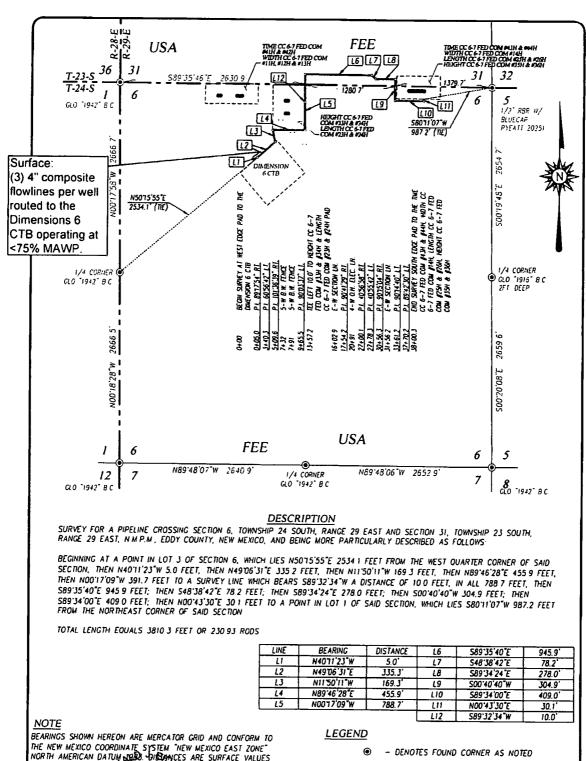
180628WL-b

Scale:1"=200'

## Dimension CC 6\_7 Fd Com - 1 Mile AOR







BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM 'NEW MEXICO EAST ZONE' NORTH AMERICAN DATUM NOBLE DISTANCES ARE SURFACE VALUES

I. RONALD J. EIDSON NEW MET PROFESSIONAL SURVEYOR NO. J239. DO HEREBY CERTIFY THAT HIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH SUSSES BASED WERE PERFORMED BY MEY OR UNDER MY DIRECT SPERVISION, THAT I APPRESPONSIBLE FOR THUS SURVEY. THAT THIS SURVEY REETS THE MENIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT LETS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND GREAT.

RONALD J. EIDSON\_ASONALA LECADO DATE: <u>08/06/2018</u>



PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.iwsc.biz TBPLS# 10021000

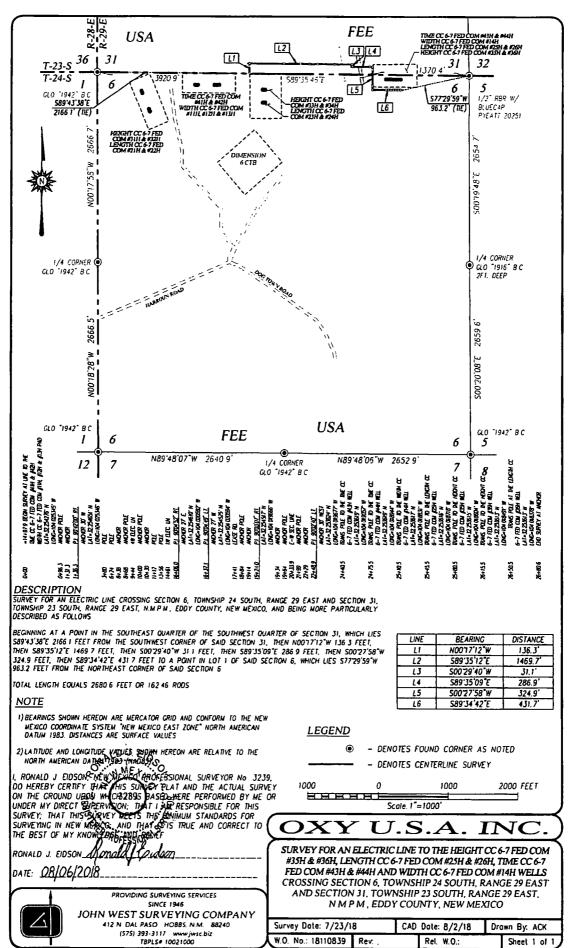
- DENOTES CENTERLINE SURVEY

1000 1000 2000 FEET Scale: 1"=1000

#### $\mathbf{O}\mathbf{X}\mathbf{Y}$ U.S.A.INC

SURVEY FOR A FLOW LINE TO THE HEIGHT CC 6-7 FED COM #33H, #34H, #35H & #36H, LENGTH CC 6-7 FED COM #23H, #24H, #25H & #26H, TIME CC 6-7 FED COM #43H & #44H, WIDTH CC 6-7 FED COM #14H, IN CROSSING SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST AND SECTION 31, TOWNSHIP 23 SOUTH, RANGE 29 EAST, NM.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 7/23/18 CAD Date: 8/2/18 Drawn By: ACK W.O. No.: 18110841 Rev. Rel. W.O.: Sheet 1 of 1



### Dimensions 6 Development - Surface Production Facilities - 1

### **CTB Site**

All wells will route to the Dimensions 6 CTB which will be composed of (1) tract with the following dimensions: 600' x 700'.

Reference Plats:

(1) John West Surveying Company W.O. No: 18111684 - Survey: 6/13/18 - CAD: 7/31/18 - 2

### Oil Gathering

Oil will be pumped into (1) 8" buried pipeline operating less than 750 psig on a multi-use 50' ROW. This will be routed to the Harroun Oil Gathering Station where it will be sold via pipeline through Centurion Oil Sales (3<sup>rd</sup> Party Processor).

Reference Plats:

(1) John West Surveying Company W.O. No: 18110689 - Survey: 6/13/18 & 6/27/18 - CAD: 8/1/18 - 10

### **Production Flowlines**

Each well will have (3) surface laid 4" flowlines operating at less than 75% of the MAWP of the flowline per the survey plats from the well site to the CTB following access roads.

Reference plats:

- (1) John West Surveying Company W.O. No: 18110840 Survey: 7/20/18 CAD: 8/2/18 1
  - Height CC 6\_7 Fed Com 31H, Height CC 6\_7 Fed Com 32H, Length CC 6\_7 Fed Com 21H, Length CC 6\_7 Fed Com 22H
- (2) John West Surveying Company W.O. No: 18110841 Survey: 7/23/18 CAD: 8/2/18 1
  - a. Height CC 6\_7 Fed Com 33H, Height CC 6\_7 Fed Com 34H, Length CC 6\_7 Fed Com 23H, Length CC 6\_7 Fed Com 24H, Height CC 6\_7 Fed Com 35H, Height CC 6\_7 Fed Com 36H, Length CC 6\_7 Fed Com 25H, Length CC 6\_7 Fed Com 26H, Time CC 6\_7 Fed Com 43H, Time CC 6\_7 Fed Com 44H, Width CC 6\_7 Fed Com 14H
- (3) John West Surveying Company W.O. No: 18110842 Survey: 7/20/18 CAD: 8/1/18 1
  - a. Time CC 6\_7 Fed Com 41H, Time CC 6\_7 Fed Com 42H, Width CC 6\_7 Fed Com 11H, Width CC 6\_7 Fed Com 12H, Width CC 6\_7 Fed Com 13H

### **Gas Sales**

Dimensions 6 CTB will be connected to Cedar Canyon Enterprise gas takeaway via (1) buried 16" poly line from the Dimensions CTB operating < 75% of MAWP on a multi-use 50' ROW.

(1) John West Surveying Company W.O. No: 18110689 – Survey: 6/13/18 & 6/27/18 – CAD: 8/1/18 - 10 \*Same surveys as Oil Gathering

### Water

Produced water will be gathered at the Dimensions 6 CTB and sent southeast to the Cedar Canyon water integration system through (1) buried 16" SDR 7 operating <300 psi on a 50' multi-use ROW. From the integration system water will either be sent to 3<sup>rd</sup> Party disposal takeaway or recycled through produced water treatment and stored in Cedar Canyon produced water ponds.

Reference Plats:

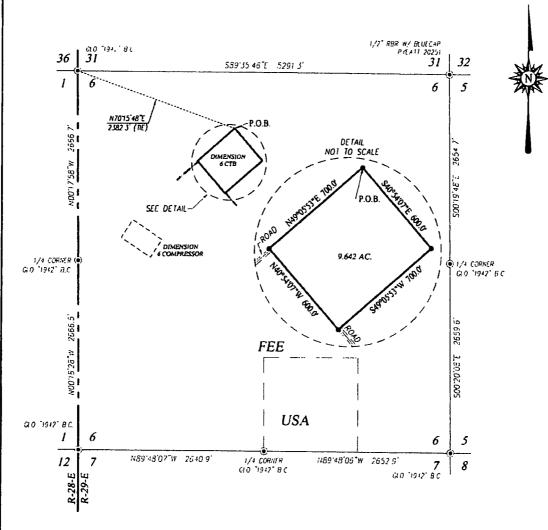
(1) John West Surveying Company W.O. No: 18110689 – Survey: 6/13/18 & 6/27/18 – CAD: 8/1/18 - 10 \*Same surveys as Oil Gathering

### Dimensions 6 Development - Surface Production Facilities - 2

### **Electrical Systems**

Electrical overhead connections are required from the existing electrical infrastructure in section 17 to connect to the central tank battery.

- (1) John West Surveying Company W.O. No: 18110740 Survey: 6/25/18 CAD: 8/2/18 7
  - a. CTB
- (2) John West Surveying Company W.O. No: 18110836 Survey: 7/17/18 CAD: 8/2/18 1
  - a. Height CC 6\_7 Fed Com 31H, Height CC 6\_7 Fed Com 32H, Length CC 6\_7 Fed Com 21H, Length CC 6\_7 Fed Com 22H
- (3) John West Surveying Company W.O. No: 18110837 Survey: 7/17/18 CAD: 8/2/18 1
  - a. Height CC 6\_7 Fed Com 33H, Height CC 6\_7 Fed Com 34H, Length CC 6\_7 Fed Com 23H, Length CC 6\_7 Fed Com 24H, Time CC 6\_7 Fed Com 41H, Time CC 6\_7 Fed Com 42H, Width CC 6\_7 Fed Com 11H, Width CC 6\_7 Fed Com 12H, Width CC 6\_7 Fed Com 13H
- (4) John West Surveying Company W.O. No: 18110839 Survey: 7/23/18 CAD: 8/2/18 1
  - a. Height CC 6\_7 Fed Com 35H, Height CC 6\_7 Fed Com 36H, Length CC 6\_7 Fed Com 25H, Length CC 6\_7 Fed Com 26H, Time CC 6\_7 Fed Com 43H, Time CC 6\_7 Fed Com 44H, Width CC 6\_7 Fed Com 14H



A TRACT SITUATED IN THE NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 24 SQUITH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTH CORNER WHICH LIES N7075'48"E 2392'3 FEET FROM THE NORTHWEST CORNER; THEN S40"54"07"E 600.0 FEET. THEN S49"05"53"W 700.0 FEET: THEN N40"54"07"W 600.0 FEET: THEN N49"05"53"E 700.0 FEET TO THE POINT OF BEGINNING AND CONTAINING 9.642 ACRES MORE OR LESS

### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES

I. RONALD J EIDSON. NEW MEXICO PROFESSIONAL SURVEYOR NO. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASEDOWNED FERFORMED BY ME OR UNDER MY DIRECT SUPERVISION. THAT I AM RESPONSIBLE FOR THIS SURVEY: THAT THIS SURVEY MEETSTHE MINIBURY OF MYDARDS FOR SURVEYING IN NEW MEXICO. AND SHAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLEF.

RONALD J EIDSON KONOLUG TO SELECTION OF THE SELECTION OF

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS N.M. 88240 (575) 393-3117 www.pwsc.biz 18PLS# 10021000

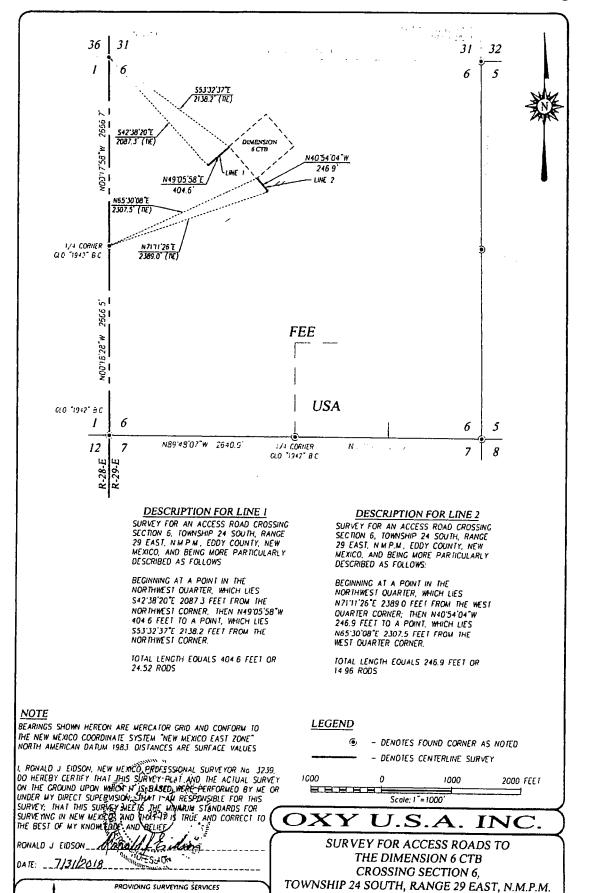
### LEGEND

- DENOTES FOUND CORNER AS NOTED
- DENOTES CENTERLINE SURVEY

1000 0 1000 2000 FEET
Scale 1 = 1000'

## DXY U.S.A. INC.

SURVEY FOR THE DIMENSION 6 CTB SITUATED IN THE NW/4 OF SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



EDDY COUNTY, NEW MEXICO

sion 6 CIR (Sec 6 1245 P290)

Rel. W.O.:

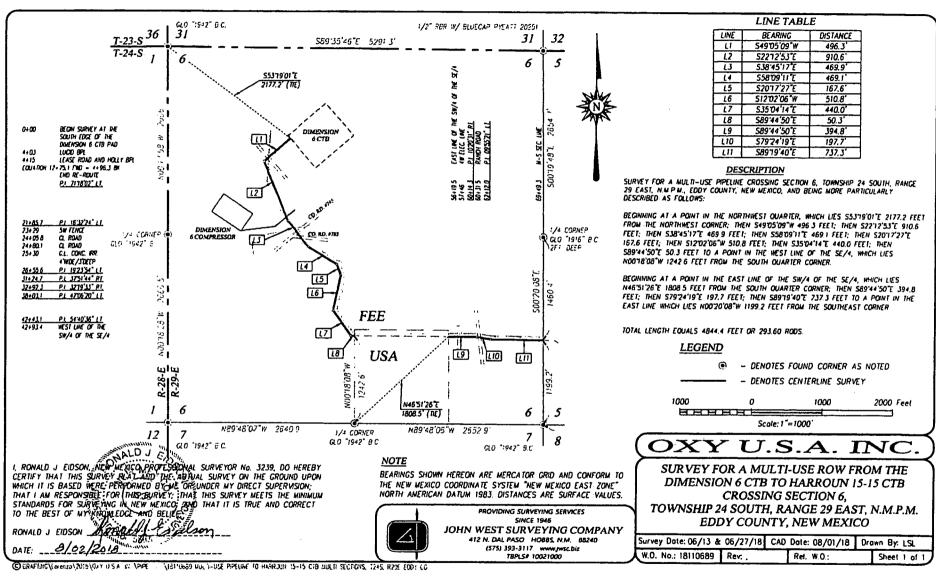
CAD Date: 07/31/18 | Drawn By: LSL

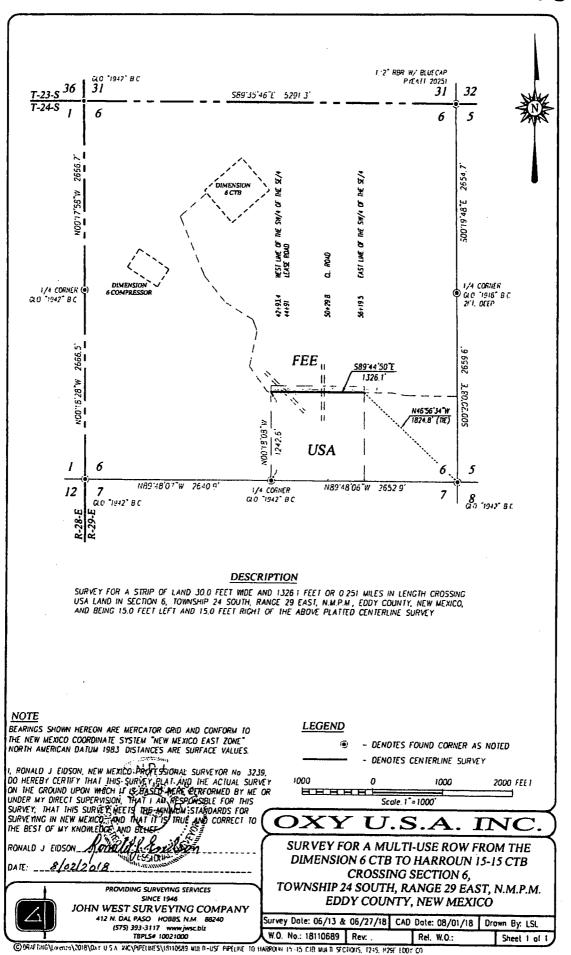
Sheet 1 of 1

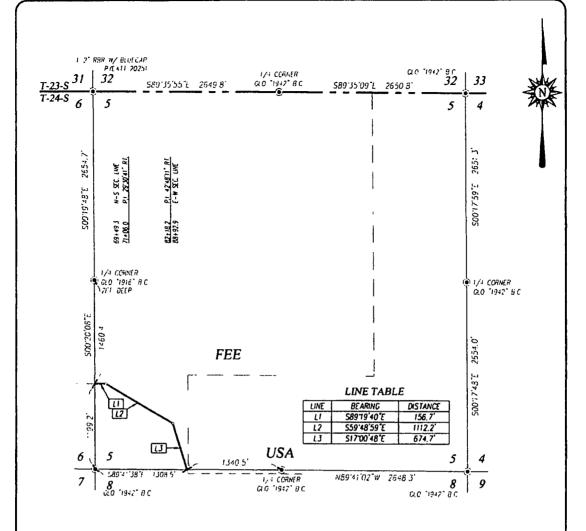
Survey Date: 06/13/18

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY







SURVEY FOR A MULTI-USE ROW CROSSING SECTION 5, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N M P M, EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WEST LINE, WHICH LIES NOO'20'08"W 1199 2 FEET FROM THE SOUTHWEST CORNER; THEN S89'19'40"E 156 7 FEET, THEN S59'48'59"E 1112 2 FEET; THEN S17'00'48"E 674 7 FEET TO A POINT ON THE SOUTH LINE, WHICH LIES S89'41'38"E 1308 5 FEET FROM THE SOUTHWEST CORNER

TOTAL LENGTH EQUALS 1943 6 FEET OR 117 79 RODS

### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES

I, RONALD J EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR NO 3239, DO HEREBY CERIFY THAL THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON BROOM IT IS BASED MORE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISIONS THAT TO AN OFFICE FOR THIS SURVEY THAT THIS SERVEY MEYS THE MAINING STRUE FOR SURVEYING IN NEW MEMOS, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLEY

RONALD J EIDSON STOPLUT TOLKOON

DATE \$102120180

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N DAI PASO HOBBS, NM BB240
(575) 393-3117 www.ymsc.biz
TBPLS# 10021000

### **LEGEND**

- DENOTES FOUND CORNER AS NOTED
- DENOTES CENTERLINE SURVEY

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Scale 1 = 1000

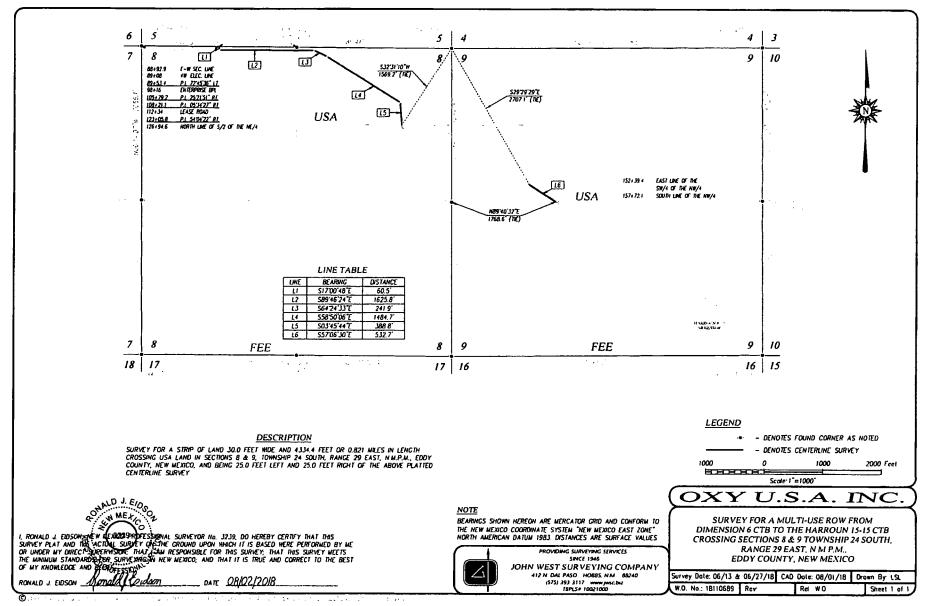
## OXY U.S.A. INC

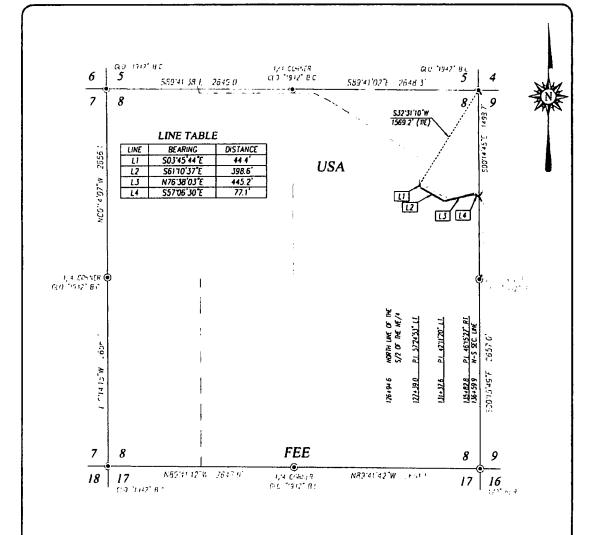
SURVEY FOR A MULTI-USE ROW FROM THE DIMENSION 6 CTB TO HARROUN 15-15 CTB CROSSING SECTION 5, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.

TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M EDDY COUNTY, NEW MEXICO

Survey Date: 05/13 & 06/27/18 CAD Date: 08/01/18 Drawn By: LSL W.O. No.: 18110689 Rev: Rel. W.O.: Sheet 1 of 1

GERM PRIC/Lampa/2019/01/ U.S.A. INC/PREIMES/19110689 MULTI-USF PREIME TO HARROW 15-15-CTB WIRTH SECTIONS, 1245, 829E EDD CO





SURVEY FOR A MULTI USE ROW CROSSING SECTION 8, TOWNSHIP 24 SQUIH, RANCE 29 EAST, N M P M , EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT ON THE NORTH LINE OF 5/2 OF THE NE/4, WHICH LIES \$32'31'10"W 1569 2 FEET FROM THE NORTHEAST CORNER: THEN 503'45'44'E 44'4 FEET. THEN 561'10'37'E 398'6 FEET, THEN N76'38'03"E 445'2 FEET, THEN 557'06'30"E 77'1 FEET TO A POINT ON THE EAST LINE, WHICH LIES SOUTH'45"E 1498 7 FEET FROM THE NORTHEAST CORNER

TOTAL LENGTH EQUALS 965 J FEET OR 58 50 RODS

### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES

I. RONALD J EIDSON NEW MEMOO PROFESSIONAL SURVEYOR NO J239
DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY
ON THE CROUND UPON WHICH IT IS BASED MERE PERFORMED BY ME OR
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THE BEST OF MY KNOW EDGE AND BOLLEF

Boruld RONALD J EIDSON\_ DATE: 8/02/2018

> PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS, NM 88240 (575) 393-3117 www.ywsc.biz TBPLS# 10021000

### **LEGEND**

DENOTES FOUND CORNER AS NOTED DENOTES CENTERLINE SURVEY

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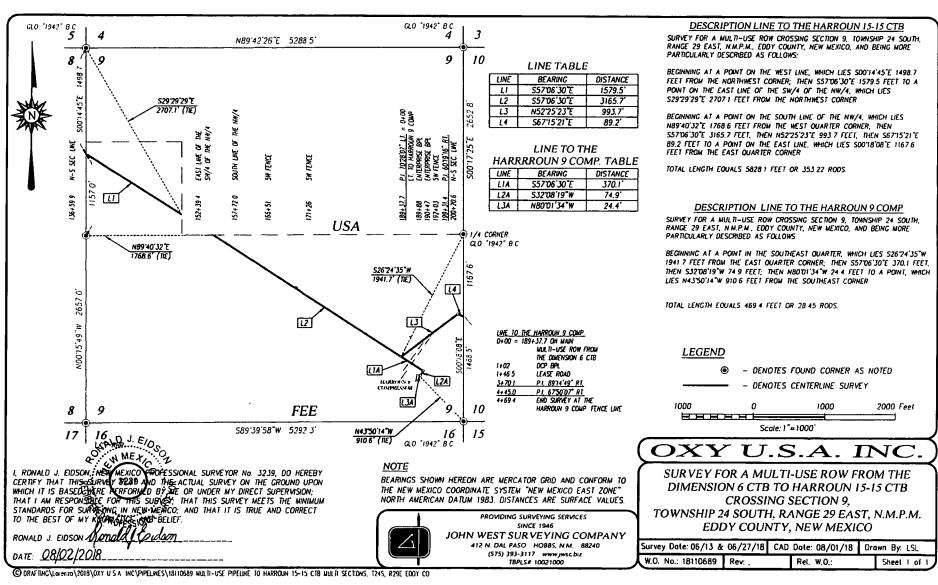
#### U.S.A. XY INC

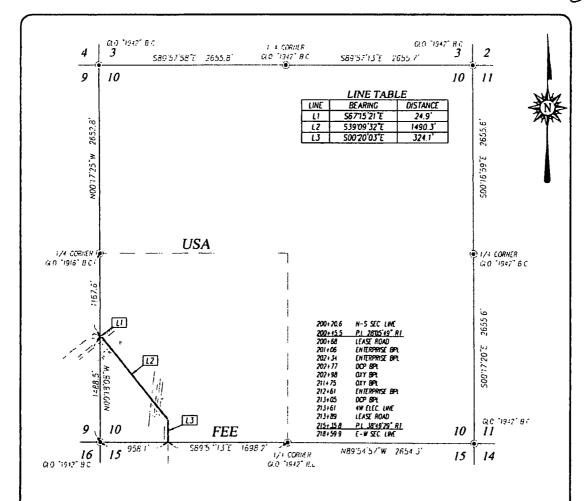
SURVEY FOR A MULTI-USE ROW FROM THE DIMENSION 6 CTB TO HARROUN 15-15 CTB CROSSING SECTION 8, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.

EDDY COUNTY, NEW MEXICO

Survey Date: 06/13 & 06/27/18 CAD Date: 08/01/18 | Drawn By. LSL WO No: 18110689 Rev. Rel. WO: Sheel 1 of 1

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SURVEY FOR A MULTI-USE ROW CROSSING SECTION 10, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT ON THE WEST LINE. WHICH LIES NOO'18'08"W 1488 5 FEET FROM THE SOUTHWEST CORNER, THEN 56715'21"E 24 9 FEET, THEN SJ9'09'32"E 1490 3 FEET, THEN S00'20'03"E 324 1 FEET TO A POINT ON THE SOUTH LINE, WHICH LIES S89'57'13"E 958 I FEET FROM THE SOUTHWEST CORNER

TOTAL LENGTH EQUALS 1839 3 FEET OR 111 47 RODS

BEARINGS SHOWN HEREON ARE MERCATOR CRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES.

I. RONALD J EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR NO 3239,
DO HEREBY CERTIFY THAT THIS SURVEY REAT AND THE ACTUAL SURVEY
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Knill Eide RONALD J EIDSON\_ SS.9%-<u> 8/02/2018</u> DATE: \_\_

> PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TEPLS# 10021000

### LEGEND

W.O. No: 18110689 Rev.

- DENOTES FOUND CORNER AS NOTED - DENOTES CENTERLINE SURVEY

1000 2000 FEET Scale 1"=1000"

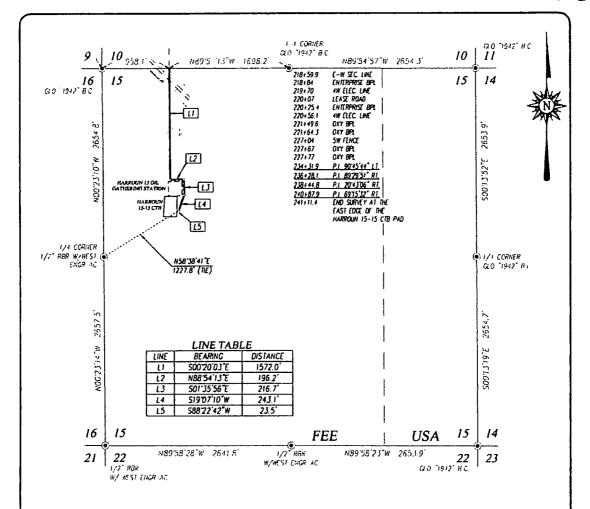
#### $\mathbf{P}$ U.S.AINC

SURVEY FOR A MULTI-USE ROW FROM THE **DIMENSION 6 CTB TO HARROUN 15-15 CTB CROSSING SECTION 10.** TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Survey Dote: 06/13 & 06/27/18 CAD Dote: 08/01/18 Drawn By. LSL

Sheet 1 of 1

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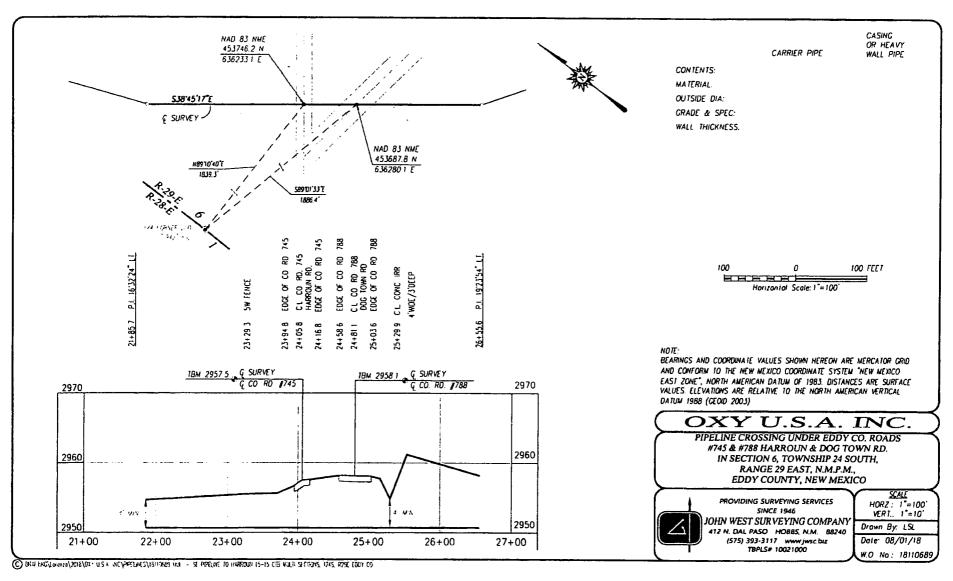


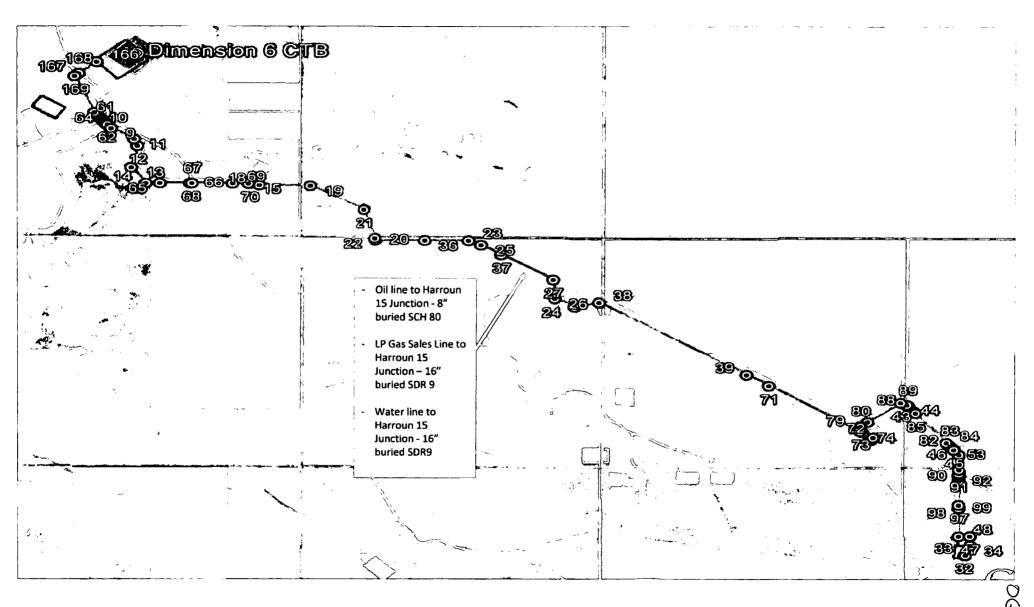
SURVEY FOR A MULTI-USE ROW CROSSING SECTION 15, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

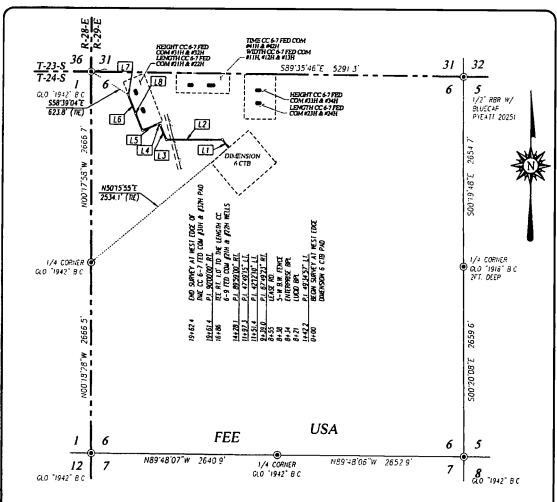
BEGINNING AT A POINT ON THE NORTH LINE, WHICH LIES S89'57'13'E 9581 FEET FROM THE NORTHWEST CORNER. THEN S00'20'03'E 1572 O FEET; THEN N88'54'13'E 196 2 FEET; THEN S01'35'56'E 216 7 FEET THEN S19'07'10'W 243.1 FEET THEN S88'22'42'W 23.5 FEET TO A POINT, WHICH LIES N58'38'41'E 1227.8 FEET FROM THE WEST QUARTER CORNER

TOTAL LENGTH EQUALS 2251 5 FEET OR 136 45 RODS

#### NOTE **LEGEND** BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES - DENOTES FOUND CORNER AS NOTED - DENOTES CENTERLINE SURVEY I. RONALD J EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR NO 3239, DO HEREBY CERTIFY THAT THIS SURVEY, PLAT, AND THE ACTUAL SURVEY ON THE GROUND UPON WHITELYTH, IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I WAN RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY WERE THE THE MEMBER TANDARDS FOR SURVEYING IN NEW MEXECR AND THABLIT, IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, AND BELLET 1000 1000 2000 FEET BEERE Scale. 1"= 1000 U.S.A. $\mathbf{X}\mathbf{Y}$ INC`E-1 RONALD J EIDSON Smitel Leidison SURVEY FOR A MULTI-USE ROW FROM THE DIMENSION 6 CTB TO HARROUN 15-15 CTB DATE 8/02/2018 CROSSING SECTION 15, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. PROVIDING SURVEYING SERVICES SINCE 1946 EDDY COUNTY, NEW MEXICO JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS, NM 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000 Survey Date: 06/13 & 06/27/18 CAD Date: 08/01/18 Drown By: LSL W.O. No.: 18110689 Rev. Rel. W.O: Sheet I of 1 @CPAFTRICS (control 2018 Oct 185 A INC) PPELINGS (18110889 MILLIN USF EFFLUNG TO HAPPOUN 15 15 CTB MILLIN SCHOOLS, 1215 R781 FEDOT CO







SURVEY FOR A PIPELINE CROSSING SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN LOT 3 OF SECTION 6, WHICH LIES NSO'15'55"E 2534 I FEET FROM THE WEST QUARTER CORNER OF SAID SECTION: THEN N40'48'04"W 142.2 FEET; THEN S89'36'59"W 796 8 FEET, THEN N22'33'38"W 212 4 FEET; THEN N64'45'48"W 45.9 FEET: THEN S67'24'57"W 230.8 FEET: THEN N22'36'03"W 257 7 FEET TO A SURVEY LINE WHICH BEARS N67'25'11"E A DISTANCE OF 1.0 FEET; 533.3 FEET IN ALL; THEN N67'25'11"E 1.0 FEET TO A POINT IN LOT 4 OF SAID SECTION, WHICH LIES S58'39'04"E 623 8 FEET FROM THE NORTHWEST CORNER OF SAID SECTION.

TOTAL LENGTH EQUALS 1963.4 FEET OR 118.99 RODS.

| LINE | BEARING     | DISTANCE |
|------|-------------|----------|
| L1   | N40'48'04"W | 142.2    |
| L2   | S89'36'59"W | 796.8    |
| L3   | N22'33'38"W | 212.4    |
| L4   | N64'45'48"W | 45.9     |
| L5   | 567'24'57'W | 230.8    |
| L6   | N22'36'03"W | 533.3    |
| L7   | N67'25'11"E | 1.0'     |
| L8   | N67'25'11"E | 1.0'     |

### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM NEW MEXICO EAST ZONE NORTH AMERICAN DATUM HOBBY THE DINCES ARE SURFACE VALUES.

I. RONALD J. EIDSON, NEW HIT PROFESSIONAL SURVEYOR NO. 3239. DO HEREBY CERTIFY THAT FILLS SURVEY BLAT AND THE ACTUAL SURVEYON THAT I ARE RESPONSIBLE FOR THIS SURVEY THAT THIS SURVEY THAT I ARE RESPONSIBLE FOR THIS SURVEY. THAT I THIS SURVEY THETS THE MEXIMUM STANDARDS FOR SURVEYING IN NEW MERCO, AND THAT ASTS TRUE AND CORRECT TO THE BEST OF MY KNOWLD THAT ASTS TRUE AND CORRECT TO THE BEST OF MY KNOWLD THAT ASTS TRUE AND CORRECT TO THE BEST OF MY KNOWLD THAT ASTS TRUE AND CORRECT TO THE BEST OF MY KNOWLD THAT ASTS TRUE AND CORRECT TO

RONALD J. EIDSON\_ASONALA DATE: <u>Q8/Q6/2018</u>

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

### LEGEND

- DENOTES FOUND CORNER AS NOTED

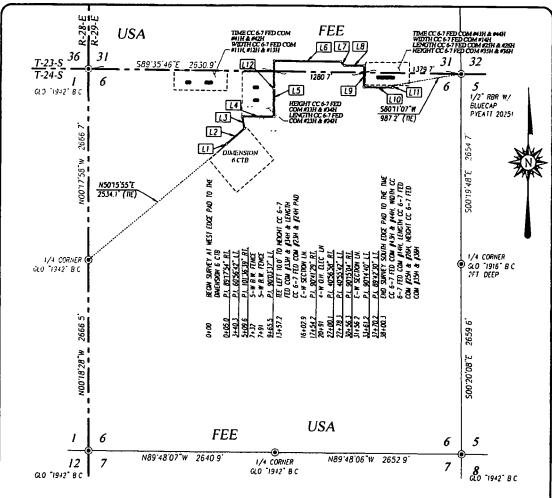
- DENOTES CENTERLINE SURVEY

1000 2000 FEET Scale: 1 = 1000

### U.S.AINC

SURVEY FOR A FLOW LINE TO THE HEIGHT CC 6-7 FED COM #31H & #32H AND LENGTH CC 6-7 FED COM #21H & #22H WELLS CROSSING SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

| Survey Date: 7/20/18 |        | CAD Date: 8/2/18 |  | Drawn By: ACK |  |
|----------------------|--------|------------------|--|---------------|--|
| W.O. No.: 18110840   | Rev: . | Rel. W.O.:       |  | Sheet 1 of 1  |  |



SURVEY FOR A PIPELINE CROSSING SECTION 6. TOWNSHIP 24 SOUTH, RANGE 29 EAST AND SECTION 31, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT IN LOT 3 OF SECTION 6, WHICH LIES N50'15'55'E 2534.1 FEET FROM THE WEST QUARTER CORNER OF SAID SECTION: THEN N40'11'23"W 5.0 FEET, THEN N49'06'31"E 335.2 FEET, THEN N11'50'11"W 169.3 FEET, THEN N89'46'28"E 455.9 FEET, THEN NOO'17'09"W 391.7 FEET TO A SURVEY LINE WHICH BEARS S89'32'34"W A DISTANCE OF 10 0 FEET, IN ALL 788.7 FEET, THEN S89'35'40"E 945.9 FEET; THEN S48'38'42"E 78.2 FEET; THEN S89'34'24"E 278.0 FEET; THEN S00'40'40"W 304.9 FEET; THEN S89'34'00'E 409 O FEET; THEN NOO'43'30'E 30 I FEET TO A POINT IN LOT 1 OF SAID SECTION, WHICH LIES S80'11'07 W 987 2 FEET FROM THE NORTHEAST CORNER OF SAID SECTION

TOTAL LENGTH EQUALS 3810 3 FEFT OR 230 93 ROOS

| LINE | BEARING     | DISTANCE | L6  | S89'35'40 E | 945.9 |
|------|-------------|----------|-----|-------------|-------|
| L1   | N4071'23"W  | 5.0      | L7  | S48'38'42'E | 78.2  |
| L2   | N49'06'31"E | 335.3'   | L8  | S89'34'24'E | 278.0 |
| L3   | N11'50'11'W | 169.31   | L9  | S00'40'40"W | 304.9 |
| L4   | N89'46'28'E | 455.9    | L10 | S89'34'00"E | 409.0 |
| L5   | N0077'09"W  | 788.7    | L11 | N00'43'30"E | 30.1  |
|      | <u> </u>    |          | LI2 | 589'32'34"W | 10.0  |

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM 'NEW MEXICO EAST ZONE' NORTH AMERICAN DATUM NORTH AMERICAN NORTH NORTH AMERICAN NORTH NOR

RONALD J. EIDSON\_ANONALA ( Coldon DATE: <u>08/06/2018</u>



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

**LEGEND** 

- DENOTES FOUND CORNER AS NOTED

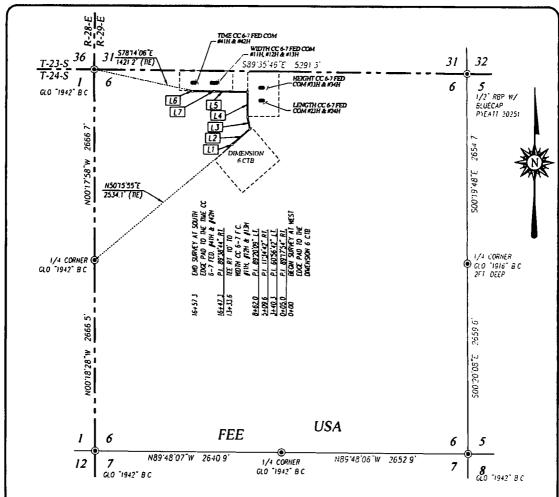
- DENOTES CENTERLINE SURVEY

1000 1000 2000 FEET Scale 1"=1000"

### $\mathbf{D}\mathbf{X}\mathbf{Y}$ U.S.A.

SURVEY FOR A FLOW LINE TO THE HEIGHT CC 6-7 FED COM #33H. #34H, #35H & #36H, LENGTH CC 6-7 FED COM #23H, #24H, #25H & #26H, TIME CC 6-7 FED COM #43H & #44H, WIDTH CC 6-7 FED COM #14H, IN CROSSING SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST AND SECTION 31, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Dale: 7/23/18 CAD Date: 8/2/18 Drawn By: ACK W.O. No.: 18110841 Rev: . Rel. W.O.: Sheet 1 of 1



SURVEY FOR A PIPELINE CROSSING SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT IN LOT 3 OF SECTION 6, WHICH LIES N50'15'55"E 2534.1 FEET FROM THE WEST QUARTER CORNER OF SAID SECTION: THEN N40'11'23"W 5.0 FEET, THEN N49'06'31"E 335.3 FEET, THEN N11'50'11"W 169.3 FEET, THEN N00'15'29"W 352.4 FEET, THEN NB9'35'38"W 471 6 FEET TO A SURVEY LINE WHICH BEARS NOI'19'55"E A DISTANCE OF 10.0 FEET; 785.3 FEET IN ALL, THEN NOO'03'06 W 10.0 FEET TO A POINT IN LOT 3 OF SAID SECTION, WHICH LIES S78'14'06"E 1421 2 FEET FROM THE NORTHWEST CORNER OF SAID SECTION.

TOTAL LENGTH EQUALS 1667 3 FEET OR 101.05 RODS

| LINE | BEARING     | DISTANCE |  |
|------|-------------|----------|--|
| LI   | N4071'23"W  | 5.0      |  |
| L2   | N49'06'31"E | 335.J'   |  |
| L3   | N11'50'11"W | 169.3'   |  |
| L4   | N00'15'29"W | 352.4'   |  |
| L5   | N89'35'38"W | 785.3    |  |
| 16   | N00'03'06 E | 10.0     |  |
| 17   | NO179'55"F  | 10.0     |  |

### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM NEW MEXICO EAST ZONE NORTH AMERICAN DATUM 1999. INFANCES ARE SURFACE VALUES NOW NOT HE ACTUAL SURVEYOR NO. 3239. IN CONTROL OF THE GROUND UPON WHICH 3239 BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SOFTWISTON, THAT I AMERICANOSIBLE FOR THIS SURVEY, THAT I THIS SURVEY MEETS THE SEMMUM STANDARDS FOR SURVEYING IN NEW MEXICO AND THAT I AS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE 1999.

RONALD J. EIDSON\_ date <u>08/06/2018</u>

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS, N.M. B8240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

## **LEGEND**

- DENOTES FOUND CORNER AS NOTED

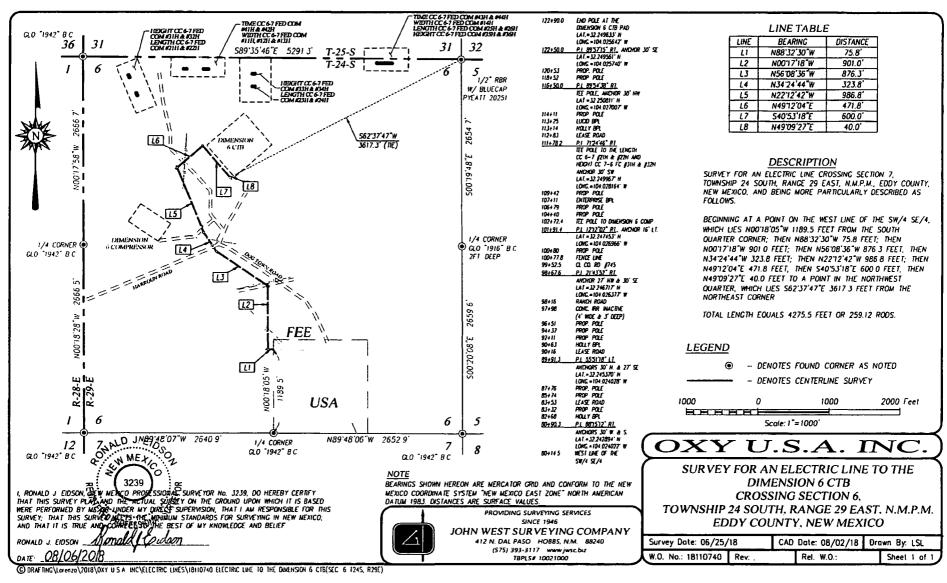
- DENOTES CENTERLINE SURVEY

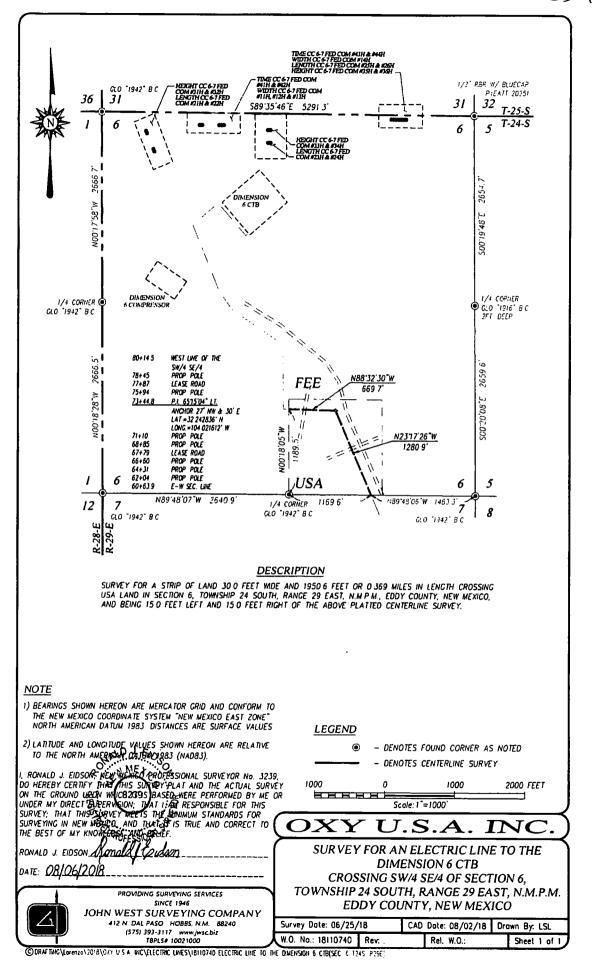
1000 1000 2000 FEET Scale. 1"=1000"

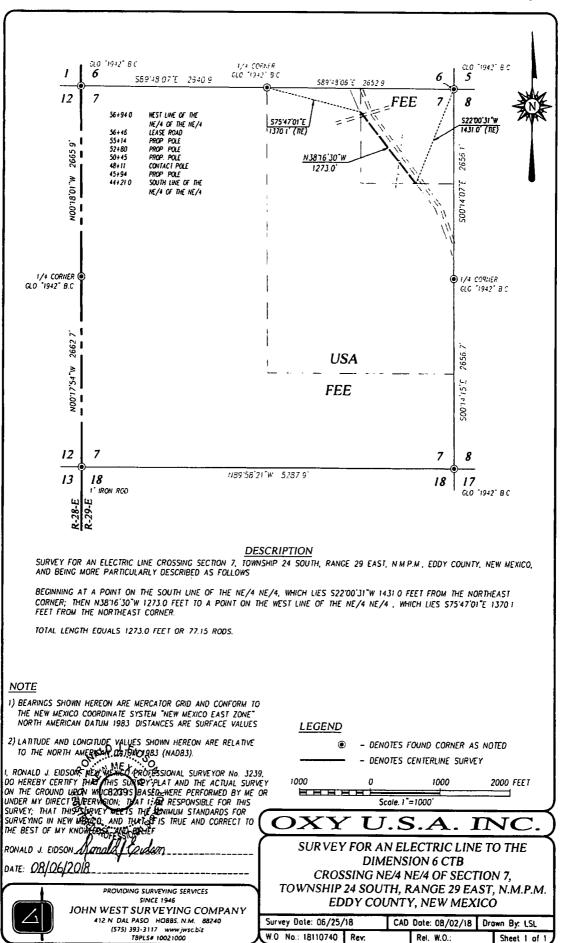
## OXY~U.S.A.

SURVEY FOR A FLOW LINE TO THE TIME CC 6-7 FED COM #41H & #42H AND WIDTH CC 6-7 FED COM #11H, #12H & #13H WELLS IN CROSSING SECTION 6. TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

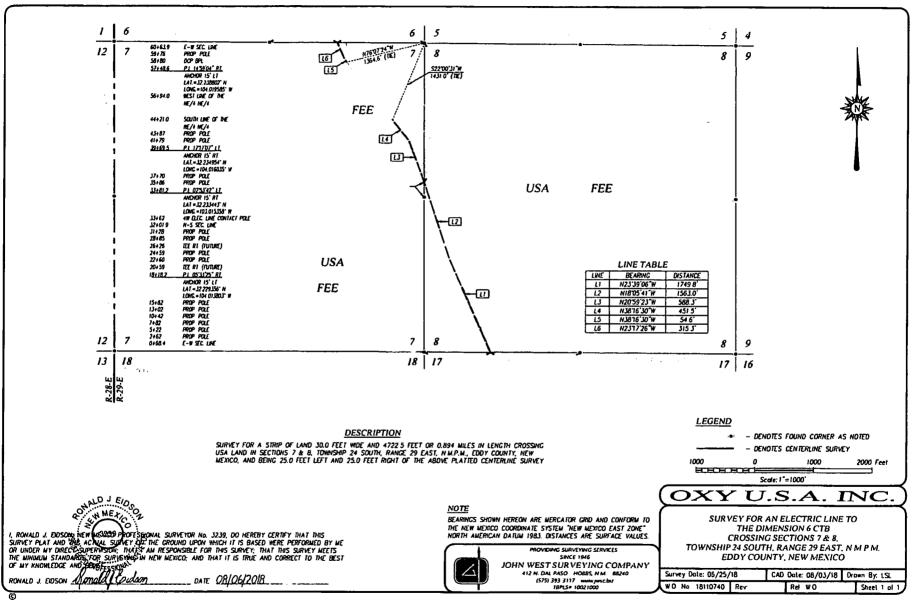
CAD Date: 8/1/18 Survey Date: 7/20/18 Drawn By: ACK W.O. No.: 18110842 Rev. Sheet 1 of 1





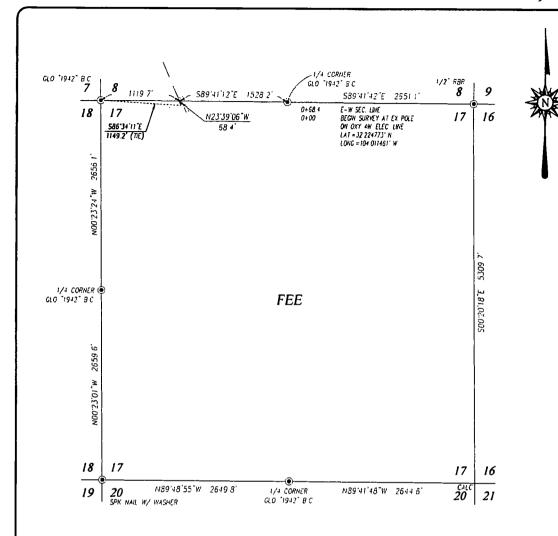


@DRAFTING/LORENZO/2018/OXY U.S.A. INC/ELECTRIC LINES/18110740 ELECTRIC LINE TO THE DIVENSION & CTE(SEC & 1245, R29E)



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SURVEY FOR AN ELECTRIC LINE CROSSING SECTION 17, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N M P M. EDDY COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT IN THE NORTHWEST QUARTER, WHICH LIES S86'34'11"E 1149 2 FEET FROM THE NORTHWEST CORNER, THEN N23'39'06"W 68 4 FEET TO A POINT ON THE NORTH LINE, WHICH LIES S89'41'12"E 1119 7 FEET FROM THE NORTHWEST CORNER.

TOTAL LENGTH EQUALS 68.4 FEET OR 04 15 RODS.

### NOTE

- 1) BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES

2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DISTRICT 983 (NAD83)

1. RONALD J. EIDSOR, NEW MEMIC PROFESSIONAL SURVEYOR NO 3239. DO HEREBY CRIFY THAT ANIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICE 2395 BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SPERVEYON; THAT I SURVEY THAT THIS SURVEY THAT THE AND CORRECT TO THE BEST OF MY KNOWED AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWED STANDARDS FOR

RONALD J. EIDSON AS anold Coldon DATE: 08/06/2018



SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz

PROVIDING SURVEYING SERVICES

### **LEGEND**

- DENOTES FOUND CORNER AS NOTED

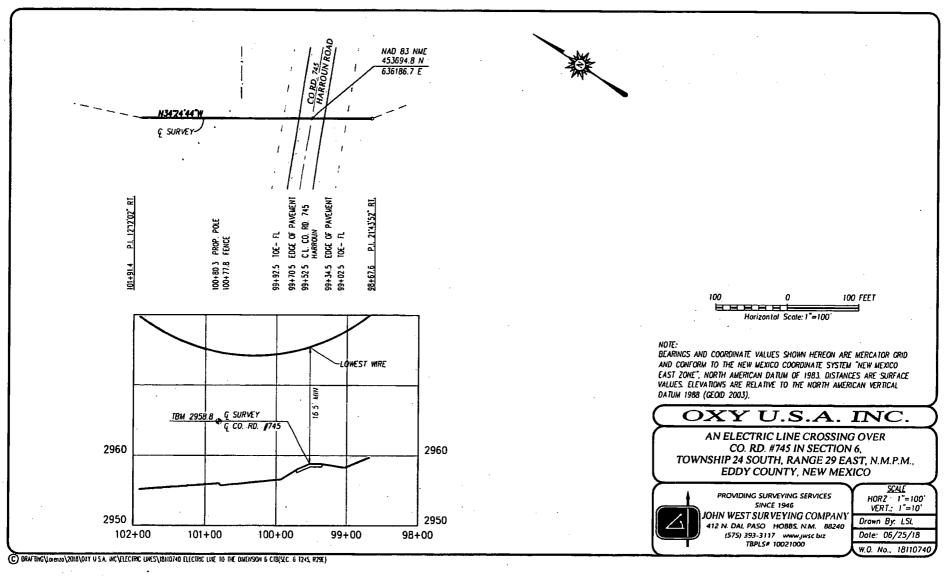
- DENOTES CENTERLINE SURVEY

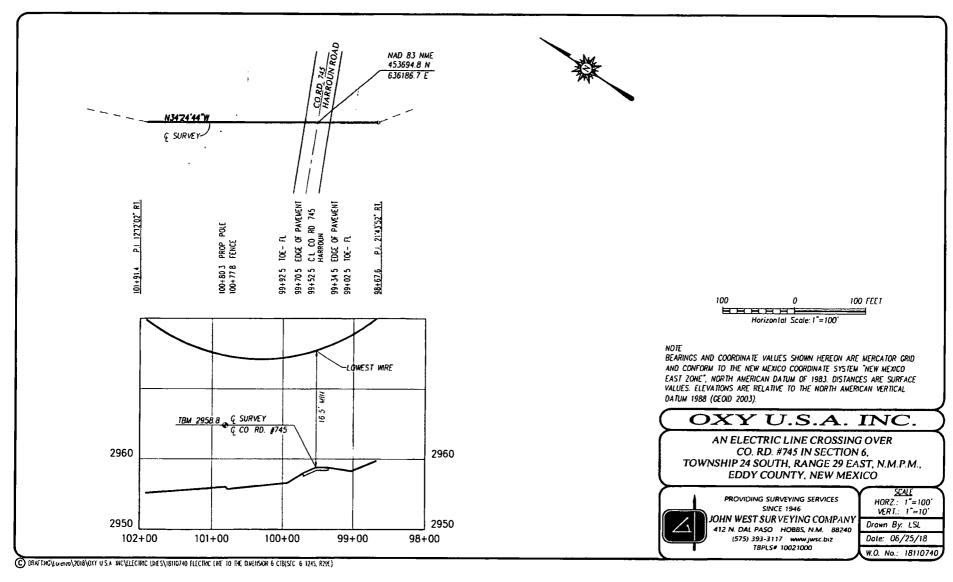
1000 1000 2000 FEET **HARBER** Scale: 1 = 1000'

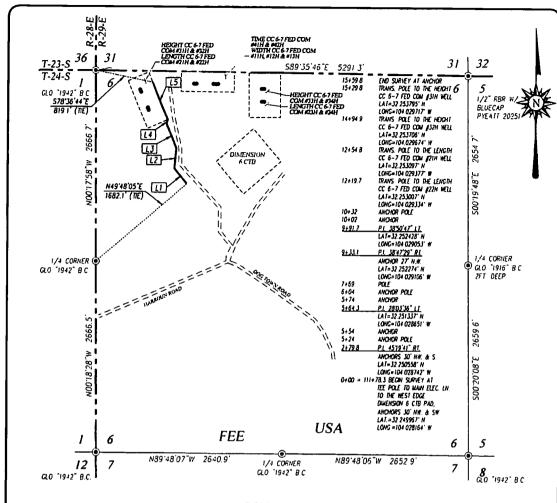
### OXY U.S.A INC.

SURVEY FOR AN ELECTRIC LINE TO THE **DIMENSION 6 CTB** CROSSING SECTION 17. TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Survey Date: 06/25/18 CAD Date: 08/02/18 Drawn By: LSL W.O. No.: 18110740 Rev. Rel. W.O.: Sheet 1 of 1







SURVEY FOR AN ELECTRIC LINE CROSSING SECTION 6. TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY, NEW MEXICO. AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT IN LOT 5 OF SECTION 6. WHICH LIES N49'48'05"E 1682 I FEET FROM THE WEST QUARTER CORNER OF SAID SECTION: THEN N39'50'14"W 279 8 FEET; THEN N05'29'27"E 284.5 FEET, THEN N22'34'09"W 368.8 FEET; THEN N16'13'20"E 58 6 FEET; THEN N22'37'27"W 568.1 FEET TO A POINT IN LOT 4 OF SAID SECTION, WHICH LIES \$78'36'44"E 819.1 FEET FROM THE NORTHWEST CORNER OF SAID SECTION

TOTAL LENGTH EQUALS 1559 8 FEET OR 94 53 RODS.

### NOTE

- 1) BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES
- 2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE

2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAND DATEN 1983 (NAD83).

I. RONALD J EIDSON, NEW MICHEO PROCESSIONAL SURVEYOR NO. 3239.

DO HEREBY CERTIFY THE THIS SURVEY, PLAT AND THE ACTUAL SURVEY ON THE GROUND HEADN WINCERED BY BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT IT DIRECT SUPERVISION; THAT IT DIRECT SUPERVISION; THAT IT DIRECT SUPERVISION; THAT IT DIRECT SURVEY, THAT THIS SURVEY THET STATE SINIMUM STANDARDS FOR SURVEYING IN NEW AND CORRECT TO THE BEST OF MY KNOW PROFESSION SERVEY.

RONALD J. EIDSON A COMOLOS date: *08/03/201*8



PROVIDING SURVEYING SERVICES **SINCE 1946** JOHN WEST SURVEYING COMPANY 412 N DAL PASO HOBBS, N.M. B8240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

| LINE | BEARING     | DISTANCE |
|------|-------------|----------|
| LI   | N39°50°14°W | 279.8    |
| L2   | N05'29'27'E | 284.5    |
| L3   | N22'34'09"W | 368.8    |
| L4   | N1673'20"E  | 58.6'    |
| 15   | M22'17'27"W | 568 1    |

### **LEGEND**

- DENOTES FOUND CORNER AS NOTED

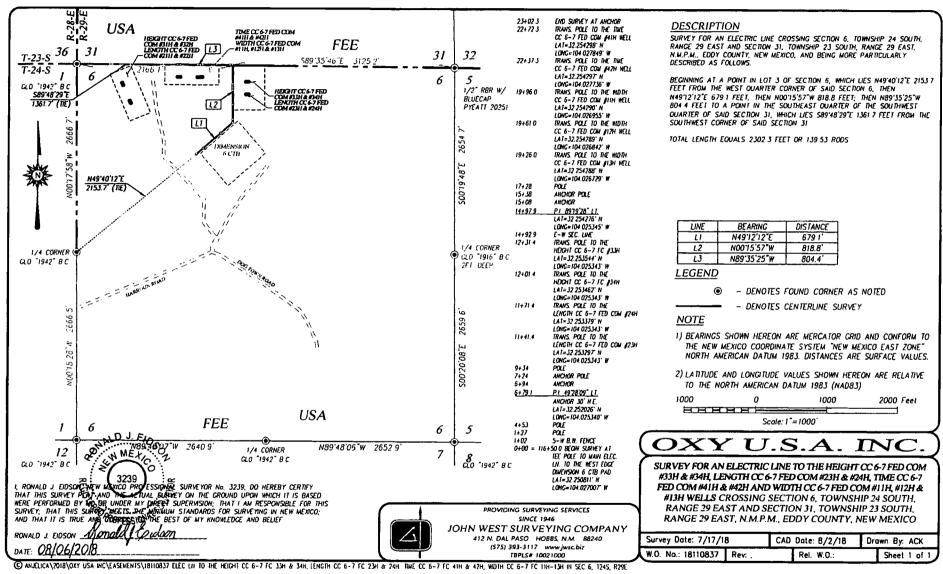
- DENOTES CENTERLINE SURVEY

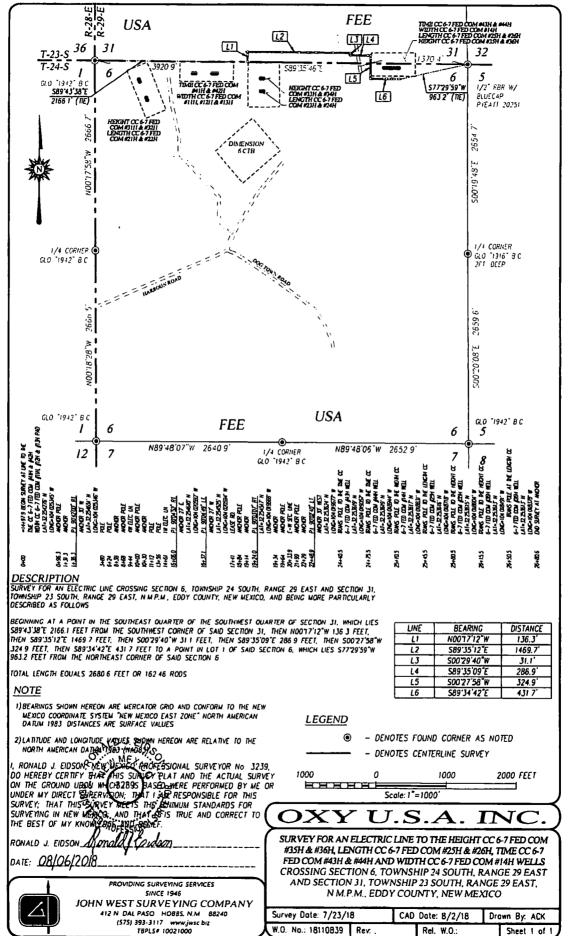
1000 1000 2000 FEET HHHHH Scale 1"=1000

#### $\mathbf{O}\mathbf{X}\mathbf{Y}$ U.S.A.INC.

SURVEY FOR AN ELECTRIC LINE TO THE HEIGHT CC 6-7 FED COM #31H & #32H AND LENGTH CC 6-7 FED COM #21H & #22H WELLS CROSSING SECTION 6, TOWNSHIP 24 SOUTH. RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 7/17/18 CAD Date: 8/2/18 Drawn By: ACK W.O. No.: 18110836 Rev. Rel. W.O.: Sheet 1 of 1





**GRR Land Department** 

# GRR, INC. WATER SOURCES FOR OXY CERTAIN POND LOCATIONS

| Pond Name    | Water Source1          | Water Source2 | Water Source3                          | Water Source4 |
|--------------|------------------------|---------------|--|---------------|
| Cedar Canyon | Mine Industrial        | <u>C-3478</u> | <u>C-2772</u>                          | <u>C-1360</u> |
| Corral Fly   | <u>C-1360</u>          | <u>C-1361</u> | <u>C-3358</u>                          | <u>C-3836</u> |
| Cypress      | <u>Mine_Industrial</u> | <u>C-3478</u> | <u>C-2772</u>                          | <u>C-1361</u> |
| Mesa Verde   | <u>C-2571</u>          | <u>C-2574</u> | <u>J-27</u>                            | <u>J-5</u>    |
| Peaches      | <u>C-906</u>           | <u>C-3200</u> | <u>SP-55 &amp; SP-1279</u><br><u>A</u> | <u>C-100</u>  |

GRR Inc.

|                         | GRR IN                                      | ic.               |                         |
|-------------------------|---|-------------------|-------------------------|
| NMOSE WELL NUMBER       | WELL COMMON NAME                            | LAND<br>OWNERSHIP | GPS LOCATION            |
| C-100                   | Tres Rios - Next to well shack              | PRIVATE           | 32.201921° -104.254317° |
| C-100-A                 | Tres Rios - Center of turnaround            | PRIVATE           | 32.201856° -104.254443° |
| C-272-B                 | Tres Rios - Northwest                       | PRIVATE           | 32.202315° -104.254812° |
| C-906                   | Whites City Commercial                      | PRIVATE           | 32.176949°-104.374371°  |
| C-1246-AC & C-1246-AC-S | Lackey                                      | PRIVATE           | 32.266978°-104.271212°  |
| C-1886                  | 1886 Tank                                   | BLM               | 32.229316° -104.312930° |
| C-1083                  | Petska                                      | PRIVATE           | 32.30904° -104.16979°   |
| C-1142                  | Winston West                                | BLM               | 32.507845-104.177410    |
| C-1360                  | ENG#1                                       | PRIVATE           | 32.064922° -103.908818° |
| C-1361                  | ENG#2                                       | PRIVATE           | 32.064908° -103.906266° |
| C-1573                  | Cooksey                                     | PRIVATE           | 32.113463° -104.108092° |
| C-1575                  | ROCKHOUSE Ranch Well - Wildcat              | BLM               | 32.493190° -104.444163° |
| C-2270                  | CW#1 (Oliver Kiehne)                        | PRIVATE           | 32.021440° -103.559208° |
| C-2242                  | Walterscheid                                | PRIVATE           | 32.39199° -104.17694°   |
| C-2492POD2              | Stacy Mills                                 | PRIVATE           | 32.324203° -103.812472° |
| C-2569                  | Paduca well #2                              | BLM               | 32.160588 -103.742051   |
| C-2569POD2              | Paduca well replacement                     | BLM               | 32.160588 -103.742051   |
| C-2570                  | Paduca (tank) well #4                       | BLM               | 32.15668 -103.74114     |
| C-2571                  | Paduca (road) well                          | BLM               | 32.163993° -103.745457° |
| C-2572                  | Paduca well #6                              | BLM               | 32.163985 -103.7412     |
| C-2573                  | Paduca (in the bush) well                   | BLM               | 32.16229 -103.74363     |
| C-2574                  | Paduca well (on grid power)                 | BLM               | 32.165777° -103.747590° |
| C-2701                  | 401 Water Station                           | BLM               | 32.458767° -104.528097° |
| C-2772                  | Mobley Alternate                            | BLM               | 32.305220° -103.852360° |
| C-3011                  | ROCKY ARROYO - MIDDLE                       | BLM               | 32.409046° -104.452045° |
| C-3060                  | Max Vasquez                                 | PRIVATE           | 32.31291° -104.17033°   |
| C-3095                  | ROCKHOUSE Ranch Well - North of Rockcrusher | PRIVATE           | 32.486794° -104.426227° |
| C-3200                  | Beard East                                  | PRIVATE           | 32.168720 -104.276600   |
| C-3260                  | Hayhurst                                    | PRIVATE           | 32.227110° -104.150925° |
| C-3350                  | Winston Barn                                | PRIVATE           | 32.511871° -104.139094° |
| C-3358                  | Branson                                     | PRIVATE           | 32.19214° -104.06201°   |
| C-3363                  | Watts#2                                     | PRIVATE           | 32.444637° -103.931313° |
| C-3453                  | ROCKY ARROYO - FIELD                        | PRIVATE           | 32.458657° -104.460804° |
| C-3478                  | Mobley Private                              | PRIVATE           | 32.294937° -103.888656° |
| C-3483pod1              | ENG#3                                       | BLM               | 32.065556° -103.894722° |
| C-3483pod3              | ENG#5                                       | BLM               | 32.06614° -103.89231°   |
| C-3483POD4              | CW#4 (Oliver Kiehne)                        | PRIVATE           | 32.021803° -103.559030° |
| C-3483POD5              | CW#5 (Oliver Kiehne)                        | PRIVATE           | 32.021692° -103.560158° |
| C-3554                  | Jesse Baker #1 well                         | PRIVATE           | 32.071937° -103.723030° |
| C-3577                  | CW#3 (Oliver Kiehne)                        | PRIVATE           | 32.021773° -103.559738° |
| C-3581                  | ENG#4                                       | BLM               | 32.066083° -103.895024° |
| C-3595                  | Oliver Kiehne house well #2                 | PRIVATE           | 32.025484° -103.682529° |
| C-3596                  | CW#2 (Oliver Kiehne)                        | PRIVATE           | 32.021793° -103.559018° |

GRR Inc.

|                   | GRR II                                | IC.               |                         |
|-------------------|---------------------------------------|-------------------|-------------------------|
| NMOSE WELL NUMBER | WELL COMMON NAME                      | LAND<br>OWNERSHIP | GPS LOCATION            |
| C-3614            | Dale Hood #2 well                     | PRIVATE           | 32.449290° -104.214500° |
| C-3639            | Jesse Baker #2 well                   | PRIVATE           | 32.073692° -103.727121° |
| C-3679            | McCloy-Batty                          | PRIVATE           | 32.215790° -103.537690° |
| C-3689            | Winston Barn_South                    | PRIVATE           | 32.511504° -104.139073° |
| C-3731            | Ballard Construction                  | PRIVATE           | 32.458551° -104.144219° |
| C-3764            | Watts#4                               | PRIVATE           | 32.443360° -103.942890° |
| C-3795            | Beckham#6                             | BLM               | 32.023434°-103.321968°  |
| C-3821            | Three River Trucking                  | PRIVATE           | 32.34636° -104.21355    |
| C-3824            | Collins                               | PRIVATE           | 32.224053° -104.090129° |
| C-3829            | Jesse Baker #3 well                   | PRIVATE           | 32.072545°-103.722258°  |
| C-3830            | Paduca                                | BLM               | 32.156400° -103.742060° |
| C-3836            | Granger                               | PRIVATE           | 32.10073° -104.10284°   |
| C-384             | ROCKHOUSE Ranch Well -<br>Rockcrusher | PRIVATE           | 32.481275° -104.420706° |
| C-459             | Walker                                | PRIVATE           | 32.3379° -104.1498°     |
| C-496pod2         | Munoz #3 Trash Pit Well               | PRIVATE           | 32.34224° -104.15365°   |
| C-496pod3&4       | Munoz #2 Corner of Porter & Derrick   | PRIVATE           | 32.34182° -104.15272°   |
| C-552             | Dale Hood #1 well                     | PRIVATE           | 32.448720° -104.214330° |
| C-764             | Mike Vasquez                          | PRIVATE           | 32.230553° -104.083518° |
| C-766(old)        | Grandi                                | PRIVATE           | 32.32352° -104.16941°   |
| C-93-S            | Don Kidd well                         | PRIVATE           | 32.344876 -104.151793   |
| C-987             | ROCKY ARROYO - HOUSE                  | PRIVATE           | 32.457049° -104.461506° |
| C-98-A            | Bindel well                           | PRIVATE           | 32.335125° -104.187255° |
| CP-1170POD1       | Beckham#1                             | PRIVATE           | 32.065889° -103.312583° |
| CP-1201           | Winston Ballard                       | BLM               | 32.580380° -104.115980° |
| CP-1202           | Winston Ballard                       | BLM               | 32.538178° -104.046024° |
| CP-1231           | Winston Ballard                       | PRIVATE           | 32.618968° -104.122690° |
| CP-1263POD5       | Beckham#5                             | PRIVATE           | 32.065670° -103.307530° |
| CP-1414           | Crawford #1                           | PRIVATE           | 32.238380° -103.260890° |
| CP-1414 POD 1     | RRR                                   | PRIVATE           | 32.23911° -103.25988°   |
| CP-1414 POD 2     | RRR                                   | PRIVATE           | 32.23914° -103.25981°   |
| CP-519            | Bond_Private                          | PRIVATE           | 32.485546 -104.117583   |
| CP-556            | Jimmy Mills (Stacy)                   | STATE             | 32.317170° -103.495080° |
| CP-626            | OI Loco (W)                           | STATE             | 32.692660° -104.068064° |
| CP-626-S          | Beach Exploration/ OI Loco (E)        | STATE             | 32.694229° -104.064759° |
| CP-73             | Laguna #1                             | BLM               | 32.615015°-103.747615°  |
| CP-74             | Laguna #2                             | BLM               | 32.615255°-103.747688°  |
| CP-741            | Jimmy Richardson                      | BLM               | 32.61913° -104.06101°   |
| CP-742            | Jimmy Richardson                      | BLM               | 32.614061° -104.017211° |
| CP-742            | Hidden Well                           | BLM               | 32.614061 -104.017211   |
| CP-745            | Leaning Tower of Pisa                 | BLM               | 32.584619° -104.037179° |
| CP-75             | Laguna #3                             | BLM               | 32.615499°-103.747715°  |
| CP-924            | Winston Ballard                       | BLM               | 32.545888° -104.110114° |
| CP-926            | Winchester well (Winston)             | BLM               | 32.601125° -104.128358° |
|                   |                                       |                   |                         |

|                               | GRR Inc.  |                   |                         |  |
|-------------------------------|---|-------------------|-------------------------|--|
| NMOSE WELL NUMBER             | WELL COMMON NAME                                  | LAND<br>OWNERSHIP | GPS LOCATION            |  |
| J-27                          | Beckham   | PRIVATE           | 32.020403° -103.299333° |  |
| J-5                           | EPNG Jal Well                                     | PRIVATE           | 32.050232° -103.313117° |  |
| J-33                          | Beckham   | PRIVATE           | 32.016443° -103.297714° |  |
| J-34                          | Beckham   | PRIVATE           | 32.016443° -103.297714° |  |
| J-35                          | Beckham   | PRIVATE           | 32.016443° -103.297714° |  |
| L-10167                       | Angell Ranch well                                 | PRIVATE           | 32.785847° -103.644705° |  |
| L-10613                       | Northcutt3 (2nd House well)                       | PRIVATE           | 32.687922°-103.472452°  |  |
| L-11281                       | Northcutt4  | PRIVATE           | 32.687675°-103.471512°  |  |
| L-12459                       | Northcutt1 (House well)                           | PRIVATE           | 32.689498°-103.472697°  |  |
| L-12462                       | Northcutt8 Private Well                           | PRIVATE           | 32.686238°-103.435409°  |  |
| L-13049                       | EPNG Maljamar well                                | PRIVATE           | 32.81274° -103.67730°   |  |
| L-13129                       | Pearce State                                      | STATE             | 32.726305°-103.553172°  |  |
| L-13179                       | Pearce Trust                                      | STATE             | 32.731304°-103.548461°  |  |
| L-13384                       | Northcutt7 (State) CAZA                           | STATE             | 32.694651°-103.434997°  |  |
| 1880S-2                       | HB Intrepid well #7                               | PRIVATE           | 32.842212° -103.621299° |  |
| L-1880S-3                     | HB Intrepid well #8                               | PRIVATE           | 32.852415° -103.620405° |  |
| 1881                          | HB Intrepid well #1                               | PRIVATE           | 32.829124° -103.624139° |  |
| 1883                          | HB Intrepid well #4                               | PRIVATE           | 32.828041° -103.607654° |  |
| L-3887                        | Northcutt2 (Tower or Pond well)                   | PRIVATE           | 32.689036°-103.472437°  |  |
| L-54 <b>3</b> 4               | Northcutt5 (State)                                | STATE             | 32.694074°-103.405111°  |  |
| 5434-S                        | Northcutt6 (State)                                | STATE             | 32.693355°-103.407004°  |  |
| RA-14                         | Horner Can  | PRIVATE           | 32.89348° -104.37208°   |  |
| RA-1474                       | Irvin Smith                                       | PRIVATE           | 32.705773° -104.393043° |  |
| RA-1474-B                     | NLake WS / Jack Clayton                           | PRIVATE           | 32.561221°-104.293095°  |  |
| RA-9193                       | Angell Ranch North Hummingbird                    | PRIVATE           | 32.885162° -103.676376° |  |
| SP-55 & SP-1279-A             | Blue Springs Surface POD                          | PRIVATE           | 32.181358° -104.294009° |  |
| SP-55 & SP-1279 (Bounds)      | Bounds Surface POD                                | PRIVATE           | 32.203875° -104.247076° |  |
| SP-55 & SP-1279 (Wilson)      | Wilson Surface POD                                | PRIVATE           | 32.243010° -104.052197° |  |
| City Treated Effluent         | City of Carlsbad Waste Treatment                  | PRIVATE           | 32.411122° -104.177030° |  |
| Mine Industrial               | Mosaic Industrial Water                           | PRIVATE           | 32.370286° -103.947839° |  |
| Mobley State Well (NO<br>DSE) | Mobiey Ranch                                      | STATE             | 32.308859° -103.891806° |  |
| EPNG Industrial               | Monument Water Well Pipeline (Oil Center, Eunice) | PRIVATE           | 32.512943° -103.290300° |  |
| MCOX Commercial               | Matt Cox Commercial                               | PRIVATE           | 32.529431° -104.188017° |  |
| TOOK COMMICIONS               | Watt Ook Commercial                               | LUIVAIL           | 32.323431 -104.100017   |  |

N/A

N/A

**VARIOUS TAPS** 

**VARIOUS TAPS** 

WAG Mine Industrial

**HB Mine Industrial** 

Mosaic Industrial Water

Intrepid Industrial Water

#### Mesquite

#### **Cedar Canyon**

Major Source: C464 (McDonald) Sec. 13 T24S R28E

Secondary Source: C-00738 (McDonald/Faulk) Sec. 12 T24S R28E

#### Corral Fly - South of Cedar Canyon

Major Source: C464 (McDonald) Sec. 13 T24S R28E

Secondary Source: C-00738 (McDonald/Faulk) Sec. 12 T24S R28E

#### Cypress - North of Cedar Canyon

Major Source: Caviness B: C-501-AS2 Sec 23 T28S R15E

Secondary Source: George Arnis; C-1303

# Sand Dunes - new frac pond

Major Source: 128 Fresh Water Pond (Mesquite/Mosaic) – located at MM 4 on 128; 240,000 bbl

pond

Secondary Source: George Arnis; C-1303

#### Mesa Verde – east of Sand Dunes

Major Source: 128 Fresh Water Pond (Mesquite/Mosaic) – located at MM 4 on 128; 240,000 bbl

pond

Secondary Source: Unknown at this time; needs coordinates to determine secondary source

#### Smokey Bits/Ivore/Misty – had posiden tanks before

Major Source: Unknown at this time; need coordinates to determine major source

Secondary Source: Unknown at this time; needs coordinates to determine secondary source

#### Red Tank/Lost Tank

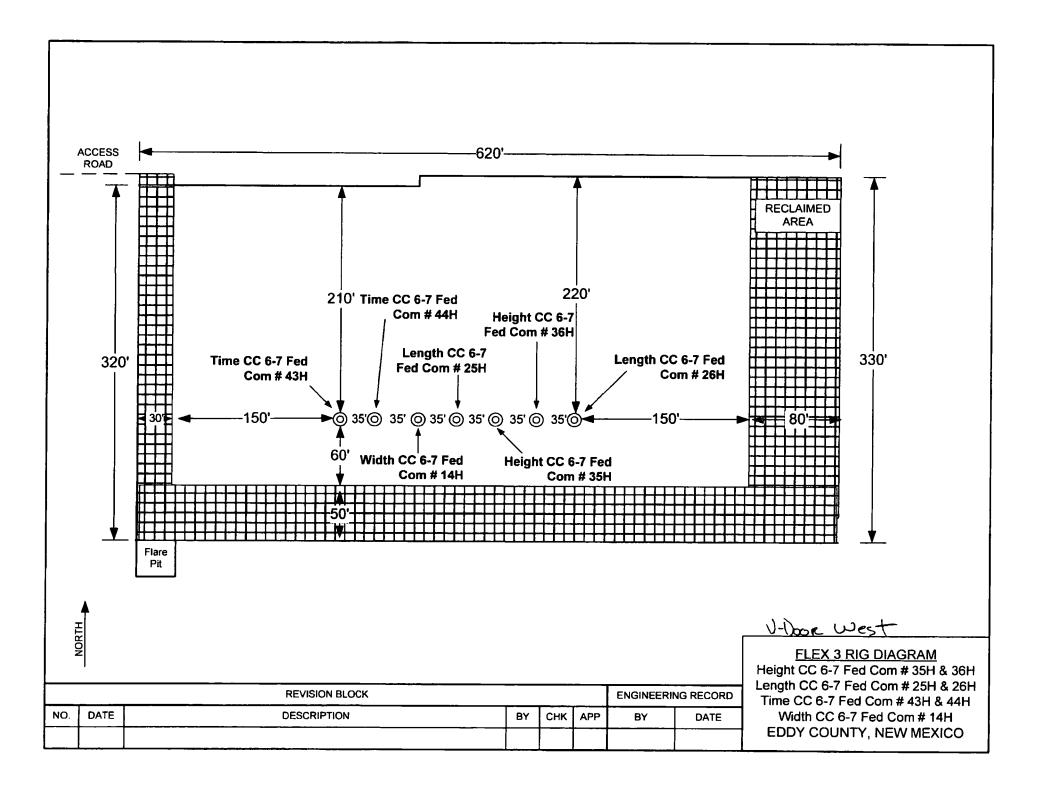
Major Source: Unknown at this time; need coordinates to determine major source

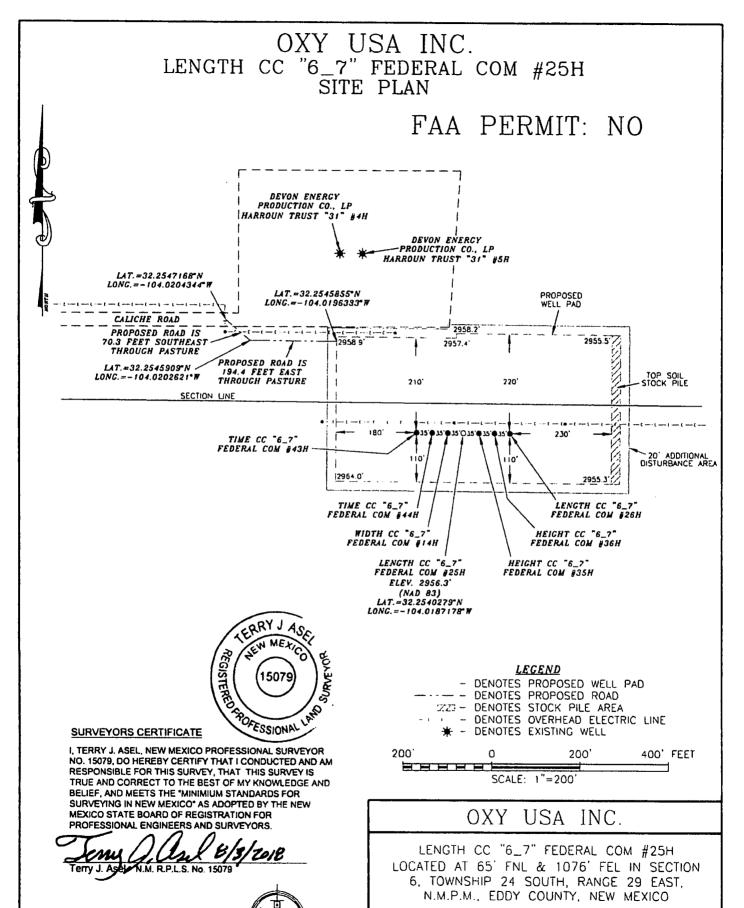
Secondary Source: Unknown at this time; needs coordinates to determine secondary source

## Peaches

Major Source: Unknown at this time; need coordinates to determine major source

Secondary Source: Unknown at this time; needs coordinates to determine secondary source





Asel Surveying

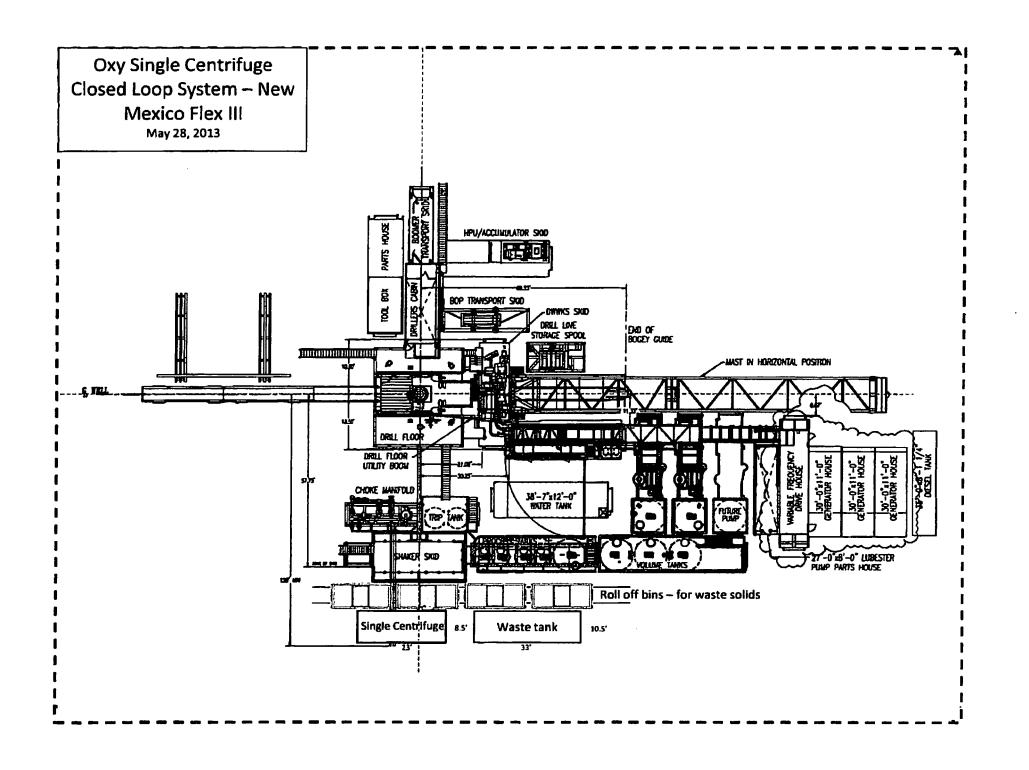
P.O. BOX 393 - 310 W TAYLOR

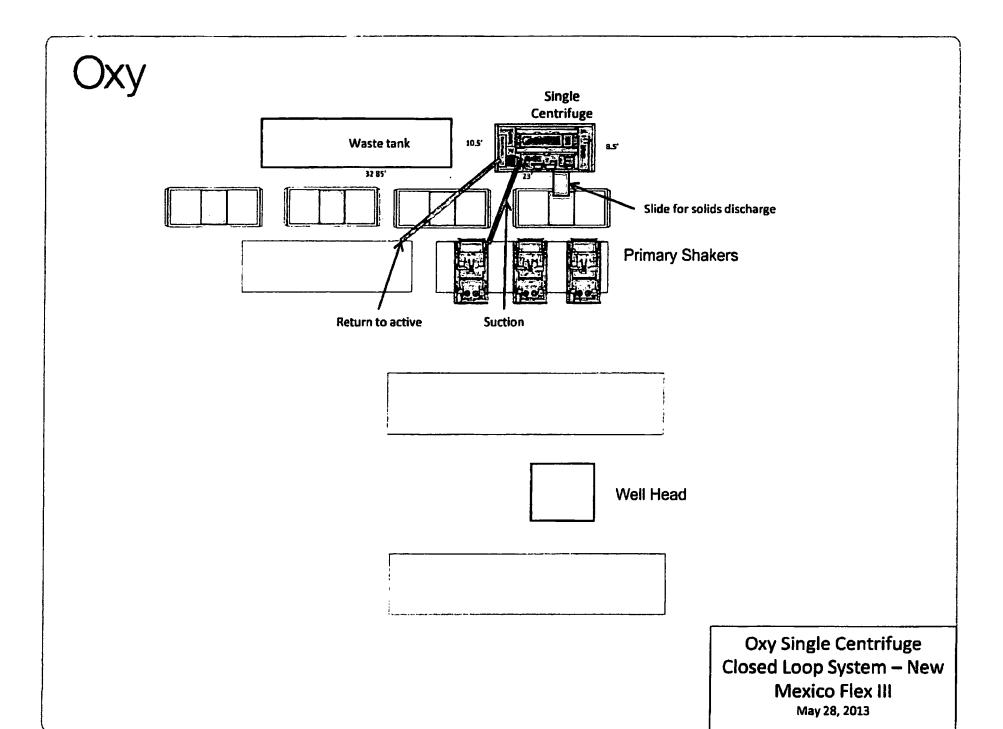
HOBBS. NEW MEXICO - 575-393-9146

 Survey
 Date:
 06/28/18
 Sheet
 1
 of
 1
 Sheets

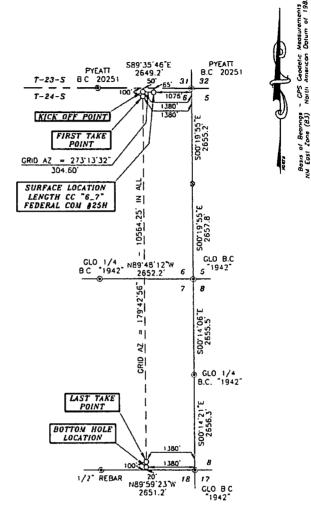
 W.O.
 Number:
 180628WL-b
 Drawn
 By:
 KA
 Rev:

 Date:
 08/03/18
 180628WL-b
 Scale:1"=200'





#### SECTIONS 6 & 7, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., **EDDY COUNTY** NEW MEXICO



DRIVING DIRECTIONS. FROM THE INTERSECTION OF U.S. HWY. #285 AND COUNTY ROAD #731 (ONSUREZ ROAD) IN MALAGA, GO NORTH ON COUNTY ROAD #731 FOR 0.6 MILES, TURN RIGHT ON COUNTY
ROAD #743 (BRUMBLE ROAD) AND GO EAST
FOR 1.0 MILES, CONTINUE EAST ON COUNTY ROAD #745 (HARROUN ROAD) FOR 2.0 MILES. TURN LEFT AND GO NORTH FOR 0.6 MILES,
TURN RIGHT AND GO EAST FOR 0.5 MILES,
TURN RIGHT ON PROPOSED ROAD AND GO
SOUTHEAST FOR 70 3 FEET, TURN LEFT AND
GO EAST FOR 194.4 FEET TO LOCATION.



#### 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 PROFESSIONAL ENGINEERS AND SURVEYORS



Asel Surveying

PO 80X 393 - 310 W TAYLOR HOBBS, NEW MEXICO - 575-391-9146



#### **LEGEND**

- DENOTES FOUND MONUMENT AS NOTED DENOTES CALCULATED CORNER

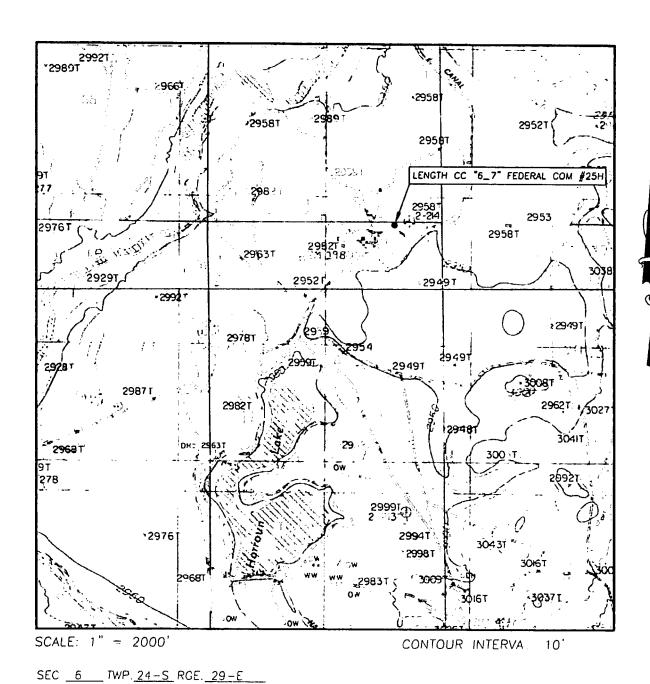
| 2000' | 0   | 2000'    | 4000' | FEET |
|-------|-----|----------|-------|------|
|       | F 2 | 1"=2000' |       |      |

## OXY USA INC.

LENGTH CC "6\_7" FEDERAL COM #25H LOCATED AT 65' FNL & 1076' FEL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

| Survey Date: 06/28/18   | Sheet 1 c    | of 1 Sheets    |
|-------------------------|--------------|----------------|
| W.O. Number: 180628WL-b | Drawn By: KA | Rev:           |
| Date: 08/03/18          | 180628WL-b   | Scale:1"=2000" |

# LOCATION VERIFICATION MAP



SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 65' FNL & 1076' FEL

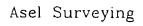
ELEVATION 2956.3'

OPERATOR OXY USA INC.

LEASE LENGTH CC "6 7" FEDERAL COM

LEASE LENGTH CC "6\_7" FEDERAL COM #25H

U.S.G.S. TOPOGRAPHIC MAP LOVING, N.M.



P O BOX 393 - 310 W TAYLOR HOBBS, NEW MEXICO - 575-393-9146



# AERIAL MAP



SCALE: NOT TO SCALE

SEC. 6 TWP. 24-S RGE 29-E

SURVEY N.M.P.M.

COUNTY EDDY

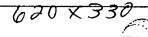
DESCRIPTION 65' FNL & 1076' FEL

ELEVATION 2956.3'

OPERATOR OXY USA INC.

LEASE LENGTH CC "6\_7" FEDERAL COM #25H

Asel Surveying
PO BOX 393 - 310 W TAYLOR
HOBBS. NEW MEXICO - 575-393-9146



# OXY U.S.A. INC.

# **NEW MEXICO STAKING FORM**

| Date Staked:           | 6-7-18                            | _  |
|------------------------|-----------------------------------|--|
| Lease / Well Name:     | LengTH CC 6-7 Fed Com # 25 H      | _  |
| Legal Description:     | 65' FNL 1076' FEL Sec 6 T245 R29E |  |
| Latitude:              | 32° 15' 14.50'' NAD 83            | <u>.                                    </u> |
| Longitude:             | -1040 01' 07.38" NAD 83           | <u> </u>                                     |
| X:                     | 638594.93 NAD 83                  | <u> </u>                                     |
| Υ:                     | 456291.14 NAD 83                  | _  |
| Elevation:             | 2956.3 NAD 83                     |  |
| Move information:      |                                   | _  |
| ·County:               | Eddy                              | _  |
| Surface Owner          | McDonald-BranTley + SALT COMPANY  | _  |
| Nearest Residence:     | ?                                 | _  |
| Nearest Water Well:    |                                   | _  |
| V-Door:                | WesT                              | _  |
| Top soil:              | EAST                              | _  |
| Road Description:      | NV COT From WesT                  | _  |
| New Road:              |                                   | _  |
| Upgrade Existing Road: |                                   | _  |
| Interim Reclamation:   | 50' 50 JH                         | -  |
| Source of Caliche:     | SKE BASSETT - BLM JUM JUM - BALL  |  |
| Onsite Attendees:      | SWCA ASEL SURVEY                  | _  |
| D41E                   | B-26-18                           |  |

# **Surface Use Plan of Operations**

Operator Name/Number: OXY USA Inc. - 16696

Lease Name/Number: Length CC 6 7 Federal Com #25H

Pool Name/Number: <u>Pierce Crossing Bone Spring</u> 50371

Surface Location: 65 FNL 1076 FEL NENE (1) Sec 6 T24S R29E – Fee
Bottom Hole Location: 20 FSL 1380 FEL SWSE (0) Sec 7 T24S R29E – Fee

# 1. Existing Roads

a. A copy of the USGS "Loving, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.

b. The well was staked by Terry J. Asel, Certificate No. 15079 on 6/26/18, certified 8/3/18.

c. Directions to Location: From the intersection of US 285 and CR 731 (Onsurez Rd) in Malaga, go north on CR 731 for 0.6 miles. Turn right on CR 743 (Brumble Rd) and go east for 1.0 miles, continue east on CR 745 (Harroun Rd) for 2.0 miles. Turn left and go north for 0.6 miles. Turn right and go east for 0.5 miles. Turn right on proposed road and go southeast for 70.3', turn left and go east for 194.4' to location.

#### 2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run 70.3' southeast, then 194.4' east through pasture to the northwest corner of the pad.
- b. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

#### 3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

# 4. Location of Existing and/or Proposed Facilities:

- a. In the event the well is found productive, the Dimension 6 Federal Central Tank Battery would 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 4" composite flowlines operating < 75% MAWP, surface lines to follow surveyed route. Survey of a strip of land 30' wide and 3810.3' in length crossing in Section 6, T24S R29E and Section 31 T23S R29E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.
- c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 2680.6' in length crossing Section 6 T24S R29E and Section 31 T23S R29E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.
- d. See attached for additional information on the Dimension 6 Central Tank Battery.

# 5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

#### 6. Construction Materials:

#### **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 as depicted in the attached plat.

# 7. Methods of Handling Waste Material:

- a. 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. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

#### 8. Ancillary Facilities: None needed.

# 9. Well Site Layout:

The proposed well site layout with dimensions of the pad layout and equipment location.

V-Door – West CL Tanks – South

Pad – 330' X 620' – 7 Well Pad

#### 10. Plans for Surface Reclamation:

a. 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. b. 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.

#### 11. Surface Ownership:

The surface is owned by the Southwest Salt Co. LLC, P.O. Box 445, Paola, KS 66071. Surface Use and Compensation Agreement between OXY USA Inc. and Southwest Salt Co. LLC as Surface Owners, copy provided upon request. They will be notified of our intention to drill prior to any activity.

The minerals are fee and the U.S. Government and administered by the BLM.

The surface is of limited use except for the grazing of livestock and the production of oil and gas.

#### 12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination—This well is located in the Permian Basin MOA. Payment to be determined by BLM. This well shares the same pad as the Height CC 6\_7 Federal Com #35H, 36H, Length CC 6\_7 Federal Com #26H, Time CC 6\_7 Federal Com #43H, 44H and Width CC 6\_7 Federal Com #14H..
- e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

#### 13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

#### 14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

Van Barton Ana Orozco
Operations Superintendent Asset Manager
1502 West Commerce Dr. P.O. Box 4294
Corleged NM 98330

Carlsbad, NM 88220 Houston, TX Carlsbad, NM 88220 Office – 575-628-4111 Office – 713-366-5111

Office = 575-628-4111 Office = 713-366-5111 Cellular = 575-706-7671 Cellular = 281-216-2461

 Jim Wilson
 Chan Tysor

 Operation Specialist
 RMT Lead

 P.O. Box 50250
 P.O. Box 4294

 Midland, TX 79710
 Houston, TX 77210

 Cellular - 575-631-2442
 Office - 713-513-6668

Cellular - 832-564-6454



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



# 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? NO

**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:

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

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options?  $\ensuremath{\mathsf{NO}}$ 

| Produced Water Disposal (PWD) Location:  |  |
|--|--|
| PWD surface owner:   | PWD disturbance (acres):                             |
| 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 Dissolutat of the existing water to be protected? | ved Solids (TDS) concentration equal to or less than |
| 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?   |  |
| 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? NO  |  |
| Produced Water Disposal (PWD) Location:  |  |
| PWD surface owner:   | PWD disturbance (acres):                             |

| 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? NO | )                          |
| 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? NO             |                            |
| Produced Water Disposal (PWD) Location:                     |                            |
| PWD surface owner:  | PWD disturbance (acres):   |
| Other PWD discharge volume (bbl/day):                       |                            |
| 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

# **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: