Form 3160-3 (June 2015)

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

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO D	6. If Indian, Allotee or Tribe Name							
Ib. Type of Well:	REENTER Other	✓ Multiple Zone		7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. PLATINUM MDP1 34-3 FEDERAL COM 172H				
2. Name of Operator OXY USA INCORPORATED		166910		9. API Well No.	5-4	33345 15231		
3a. Address 5 Greenway Plaza, Suite 110 Houston TX 77046	3b. Phon (713)366	e No. <i>(include area cod</i> 6-5716	e)	10. Field and Pool, or I PURPLE SAGE WOI	Explora	tory		
 Location of Well (Report location clearly and in accordance At surface NWNW / 220 FNL / 802 FWL / LAT 32.267 At proposed prod. zone SWSW / 180 FSL / 1260 FWL / 	5789 / LO	NG -103.7716122	701526	11. Sec., T. R. M. or B SEC 34 / T23S / R31		-		
14. Distance in miles and direction from nearest town or post of	lice*	·		12. County or Parish		13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No o	of acres in lease	17. Spacir	17. Spacing Unit dedicated to this well 320				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet	· ' '			:LM/BIA Bond No. in file : ESB000226				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3416 feet	22. Appr 08/24/20	roximate date work will D19	start*	23. Estimated duration 25 days				
	24. Λι	ttachments						
The following, completed in accordance with the requirements of (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Systes SUPO must be filed with the appropriate Forest Service Office	em Lands, 1	4. Bond to cover the Item 20 above). the 5. Operator certification	e operation	s unless covered by an emation and/or plans as ma	xisting l	oond on file (see		
25. Signature (Electronic Submission)		nmc (Printed/Typed) vid Stewart / Ph: (713)366-5716	Date 04/24/2018				
Title Sr. Regulatory Advisor					, .			
Approved by (Signature) (Electronic Submission)		nme <i>(Printed/Typed)</i> ody Layton / Ph: (575)	234-5959	ŀ	ate 8/23/20	018		
Title Assistant Field Manager Lands & Minerals		fice ARLSBAD				_		
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds leg	gal or equitable title to the	nose rights	in the subject lease which	th woul	d entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, to of the United States any false, fictitious or fraudulent statements					depart	ment or agency		

approval Date: 08/23/2018 Rul 9-10-18.

*(Instructions on page 2)

(Continued on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 220 FNL / 802 FWL / TWSP: 23S / RANGE: 31E / SECTION: 34 / LAT: 32.2675789 / LONG: -103.7716122 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 6 FNL / 1254 FWL / TWSP: 24S / RANGE: 31E / SECTION: 3 / LAT: 32.253648 / LONG: -103.770142 (TVD: 11611 feet, MD: 16628 feet)

PPP: NWNW / 340 FNL / 1260 FWL / TWSP: 23S / RANGE: 31E / SECTION: 34 / LAT: 32.2672497 / LONG: -103.7701311 (TVD: 11595 feet, MD: 11960 feet)

BHL: SWSW / 180 FSL / 1260 FWL / TWSP: 24S / RANGE: 31E / SECTION: 3 / LAT: 32.239629 / LONG: -103.7701526 (TVD: 11626 feet, MD: 21728 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@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 INC.

LEASE NO.: NMNM-043744

WELL NAME & NO.: | Platinum MDP1 34-3 Federal Com 172H

SURFACE HOLE FOOTAGE: 0220' FNL & 0802' FWL

BOTTOM HOLE FOOTAGE | 0180' FSL & 1260' FWL Sec. 03, T. 24 S., R 31 E.

LOCATION: | Section 34, T. 23 S., R 31 E., NMPM

COUNTY: | County, New Mexico

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.

A. DRILLING OPERATIONS REQUIREMENTS

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

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

☐ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

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.

- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Alternative when using skid/walking rig
 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 wells.
- 4. Option Setting surface casing with Spudder Rig
 - a. Notify the BLM when removing the Spudder Rig.
 - b. Notify the BLM when moving in the H&P Flex Rig. Rig to be moved in within 60 days of notification that Spudder Rig has left the location. Failure to notify or have rig on location within 60 days will result in an Incident of Non-Compliance.
 - c. Once the H&P Flex Rig is on location, it shall not be removed from over the hole without prior approval unless the production casing has been run and cemented or the well has been properly plugged. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
 - d. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as H&P Flex Rig is rigged up on well. CIT for the surface casing shall be performed and results recorded on subsequent sundry pressure to be 1200 psi.
- 5. 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 is located, this does not include the dog house or stairway area.
- 6. 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.

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P Potash

Possible water flows in the Castile and Salado.

Possible lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressures maybe encountered when penetrating the 3rd Bone Spring and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately 600 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

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

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

7-5/8" 2nd Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3.	The minimum required fill of cement behind the 7-5/8 inch intermediate casing is
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Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due potash.

Formation below the 7-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the

pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

4. The minimum required fill of cement behind the 5-1/2 inch p	ı production	n casing is
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- Cement as proposed by operator. Operator shall provide method of verification. Excess calculates to 19% Additional cement may be required.
- 5. 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.
- 6. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. 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 53.
- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

5M 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.

MULITBOWL OPTION:

- 4. 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 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. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. Operator shall perform the 9-5/8" and 7-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - f. 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.

5M 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.

- 5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. 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.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. 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

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will be submitted to the appropriate BLM office.

- f. 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.
- g. 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.

D. 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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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.

JAM 081518

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED

LEASE NO.: | NMNM 043744

WELL NAME & NO.: 172H-Platinum MDP1 34-3 FED

SURFACE HOLE FOOTAGE: 220'/N & 802'/W BOTTOM HOLE FOOTAGE 180'/S & 1260'/W

LOCATION: | T-23S, R-31E, S-34. NMPM

COUNTY: | EDDY, NM

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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Escape Ramps
Power Line Avian Protection
Watershed
☐ 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 Ahandonment & Reclamation

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)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

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

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Escape Ramps

The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them 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.

Power line Avian Protection

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 power line structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. The holder without liability or expense shall make such modifications and/or additions to the United States.

- The entirety of the well pads and CTB facilities would be bermed to prevent oil, salt, and other chemical contaminants from leaving the areas. Topsoil should not be used to construct the berm. No water flow from the uphill side(s) of the bermed areas should be allowed to enter the well pads or CTB facilities. 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

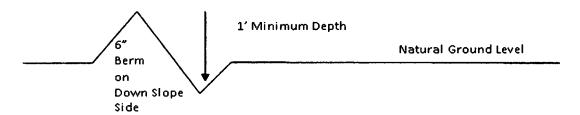
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Construction Steps

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

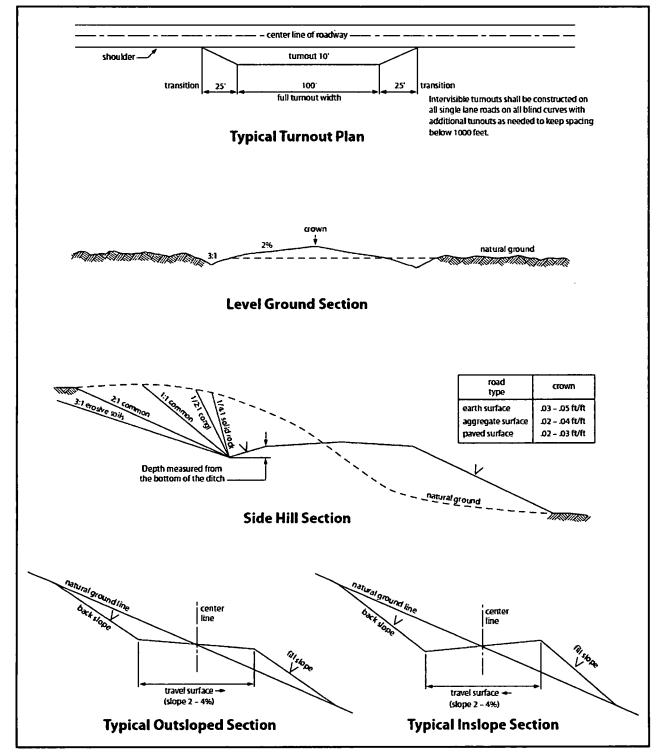


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

VRM Facility Requirement 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

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without regard to whether a release is caused by the holder, its agent, or unrelated third 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 20 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.

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- 7. No blading or clearing of any vegetation will be allowed unless approved in writing 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

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is issued by the authorized officer. An evaluation of the discovery will be made by the 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.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken:</u> Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

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

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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.
- 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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pipe a	nd ground level.
7. The	e maximum allowable disturbance for construction in this right-of-way will be 30 feet:
•	Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
•	Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> 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.)
topsoi from o	e holder shall stockpile an adequate amount of topsoil where blading is allowed. The l to be stripped is approximately6 inches in depth. The topsoil will be segregated other spoil piles from trench construction. The topsoil will be evenly distributed over the d area for the preparation of seeding.
lands. Functi owner line, the	e holder shall minimize disturbance to existing fences and other improvements on public. The holder is required to promptly repair improvements to at least their former state, ional use of these improvements will be maintained at all times. The holder will contact the of any improvements prior to disturbing them. When necessary to pass through a fence he fence shall be braced on both sides of the passageway prior to cutting of the fence. No ment gates will be allowed unless approved by the Authorized Officer.
randor otherv match	regetation, soil, and rocks left as a result of construction or maintenance activity will be mly scattered on this right-of-way and will not be left in rows, piles, or berms, unless wise approved by the Authorized Officer. The entire right-of-way shall be recontoured to the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will tover the ditch line to allow for settling back to grade.
holder	n those areas where erosion control structures are required to stabilize soil conditions, the r will install such structures as are suitable for the specific soil conditions being encountere thich are in accordance with sound resource management practices.

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

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seeding requirements, using the following see	d mix.
() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() Aplomado Falcon Mixture
Ç 5	to safety requirements shall be painted by the holder see. The paint used shall be color which simulates seen, Munsell Soil Color No. 5Y 4/2.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached

- 14. 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. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. 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 before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (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 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.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

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

- c. 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.
- d. 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.
- 19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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

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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.
- 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.

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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 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.

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

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

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.

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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.

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).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Page 20 of 21

Seed Mixture for LPC Sand/Shinnery 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 <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall 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 will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds 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 will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. 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	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

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



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

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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: 04/24/2018

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

Submission Date: 04/24/2018 APD ID: 10400029743

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Type: OIL WELL

Well Number: 172H

Well Work Type: Drill

Show Final Text

Section 1 - General

APD ID: 10400029743

Tie to previous NOS?

Submission Date: 04/24/2018

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: NMNM043744

Lease Acres: 640

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: OXY USA INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: OXY USA INCORPORATED

Operator Address: 5 Greenway Plaza, Suite 110

Operator PO Box:

Operator City: Houston

State: TX

Operator Phone: (713)366-5716

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING

Mater Development Plan name: Sand Dunes Area

Zip: 77046

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Pool Name: WOLFCAMP

WOLFCAMP

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

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

Describe other minerals:

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: PLATINUM MDP1 34-3

Well Class: HORIZONTAL

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: 8 Miles

Distance to nearest well: 35 FT

Distance to lease line: 50 FT

Number: 1H

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

PlatinumMDP1_34_3FdCom172H_C102_20180424082125.pdf

PlatinumMDP1_34_3FdCom172H_SitePlan_20180424082137.pdf

Well work start Date: 08/24/2019

Duration: 25 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	DVT
SHL Leg #1	220	FNL	802	FWL	238	31E	34	Aliquot NWN W	32.26757 89	- 103.7716 122	EDD Y	MEXI	,,,_,,		NMNM 043744		0	0
KOP Leg #1	50	FNL	126 0	FWL	23S	31E	34	Aliquot NWN W	32.26804 68	- 103.7701 305	EDD Y	MEXI	NEW MEXI CO		NMNM 043744	- 760 6	110 62	110 22

Operator Name: OXY USA INCOkr URATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

	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 Leg #1	340	FNL	126 0	FWL	238	31E	34	Aliquot NWN W	32.26724 97	- 103.7701 311	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 043744	- 817 9	119 60	115 95
PPP Leg #1	6	FNL	125 4	FWL	248	31E	3	Aliquot NWN W	32.25364 8	- 103.7701 42	EDD Y	l .	NEW MEXI CO	F	NMNM 055142	- 819 5	166 28	116 11
EXIT Leg #1	340	FSL	126 0	FWL	248	31E	3	Aliquot SWS W	32.24006 88	- 103.7701 523	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055142	- 820 9	215 68	116 25
BHL Leg #1	180	FSL	126 0	FWL	248	31E	3	Aliquot SWS W	32.23962 9	1	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 055142	- 821 0	217 28	116 26



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



APD ID: 10400029743 **Submission Date:** 04/24/2018

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

Well Type: OIL WELL Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

Formation	- " N	F-1	True Vertical	1	l .		Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3416	550	550	SHALE,DOLOMITE,ANH YDRITE	USEABLE WATER	No
2	SALADO	2535	881	881	SHALE,DOLOMITE,HAL ITE,ANHYDRITE	OTHER : SALT	No
3	CASTILE	588	2828	2828	ANHYDRITE	OTHER : salt	No
4	LAMAR	-889	4305	4305	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL,OTHER : BRINE	No
5	BELL CANYON	-916	4332	4332	SANDSTONE, SILTSTO NE	NATURAL GAS,OIL,OTHER : BRINE	No
6	CHERRY CANYON	-1802	5218	5218	SANDSTONE,SILTSTO NE	NATURAL GAS,OIL,OTHER : BRINE	No
7	BRUSHY CANYON	-3063	6479	6479	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL,OTHER : BRINE	No
8	BONE SPRING	-4729	8145	8147	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-5790	9206	9223	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	Yes
10	BONE SPRING 2ND	-6039	9455	9477	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 3RD	-6890	10306	10341	LIMESTONE,SANDSTO NE,SILTSTONE	NATURAL GAS,OIL	Yes
12	WOLFCAMP	-8059	11475	11591	SANDSTONE,SILTSTO NE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 11626

Requesting Variance? YES

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





Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

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 of requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system will be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. BOP Break Testing Request As per the agreement reached in the DXY/BLM meeting on Feb 22, 2018, OXY requests permission to allow BOP Break Testing under the following conditions: 1. After a full BOP test is conducted on the first well enough prior to drilling any production section.

Choke Diagram Attachment:

PlatinumMDP1_34_3FdCom172H_ChkManifoldAmd_20180712141159.pdf

BOP Diagram Attachment:

PlatinumMDP1_34_3FdCom172H_FlexHoseCert_20180424114404.pdf

PlatinumMDP1_34_3FdCom172H_BOPAmd_20180712141217.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	17.5	13.375	NEW	API	N	0	600	0	600			600	J-55	54.5	витт	1.12 5	1.2	BUOY	1.4	BUOY	1.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4355	0	4355			4355	L-80	43.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3	INTERMED IATE	8.5	7.625	NEW	API	N	О	10962	0	10922			10962	HCL -80		OTHER - SF-FJ	1.12 5	1.2	BUOY	1.4	BUOY	1.4
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	21728	0	11626			21728	P- 110		OTHER - DQX	1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Operator Name: OXY USA INCORPORATED Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PlatinumMDP1_34 3FdCom172H CsgCriteria 20180424114517.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PlatinumMDP1_34_3FdCom172H_CsgCriteria_20180424114553.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PlatinumMDP1_34_3FdCom172H_CsgCriteria_20180424114622.pdf

PlatinumMDP1_34_3FdCom172H_7.625_26.4_L80HC_TMKUPSF_20180712141502.pdf

PlatinumMDP1_34_3FdCom172H_7.625_26.4_L80HC_TMKUPFJ_20180712141513.pdf

Page 3 of 7

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PlatinumMDP1_34_3FdCom172H_CsgCriteria_20180424114656.pdf

 $Platinum MDP1_34_3FdCom172H_5.5_20_P110_DQX_20180424114707.pdf$

Section 4 - Cement

ring Type	ead/Tail	tage Tool epth	ор МD	ottom MD	uantity(sx)	eld	ensity	u Ft	%cess%	ement type	dditives
l Š	۳	الثاق	₽	👸	ď	≒ّ	ے ا	ರ	Ě	ŭ	Ă
SURFACE	Lead		O	600	713	1.33	14.8	948	100	CIC	Accelerator
		1 200		1.00							

INTERMEDIATE	Lead	40	Q`	3855	1201	1.88	12.9	2258	100	Pozzolan/C	Retarder
INTERMEDIATE	Tail	· · · · · ·	3855	4355	155	1.33	14.8	208	20	CIC	Accelerator
INTERMEDIATE	Lead		0	8146	425	1.92	12.9	816	25	CIC	Accelerator
INTERMEDIATE	Tail		8145	1096	139	1.65	13.2	229	5	GI H	Retarder Dispersant, Salt
PRODUCTION	Lead		1046 2	2172 8	826	1.38	13.2	f140	20		Retarder, Dispersant, Sail

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

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 (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1096 2	2172 8	OIL-BASED MUD	9.5	12					•		
600	4355	OTHER : Saturated Brine Based Mud	9.8	10							
4355	1096 2	OTHER : Water- Based and/or Oil-Based Mud	8.2	9.2							
0	600	WATER-BASED MUD	8.6	8.8							

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

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: 7255 Anticipated Surface Pressure: 4697.28

Anticipated Bottom Hole Temperature(F): 174

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:

PlatinumMDP1_34_3FdCom172H_H2S1_20180424115551.pdf PlatinumMDP1_34_3FdCom172H_H2S2_20180424115600.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PlatinumMDP1_34_3FdCom172H_DirectPlan_20180424115621.pdf PlatinumMDP1_34_3FdCom172H_DirectPlot_20180424115631.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 coment circulated to surface during first stage we will drop a cancelation come and not pump the second stage.

Bradenhead Squeeze - OXY requests to pump a two stage production easing cament job with the first stage being pumped conventionally with the calculated TOC @ the Bone Spring and the second stage performed as a bradenhead squeeze with planned cement from the top of the Bone Spring to surface.

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 elearance 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:

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

2, Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production openhole section.

Well will be drilled with a walking/skidding operation. Plan to drill the four well pad in batch by section all surface sections, intermediate sections and production sections. The wellhead will be secured with a night pap whenever the right not over the well.

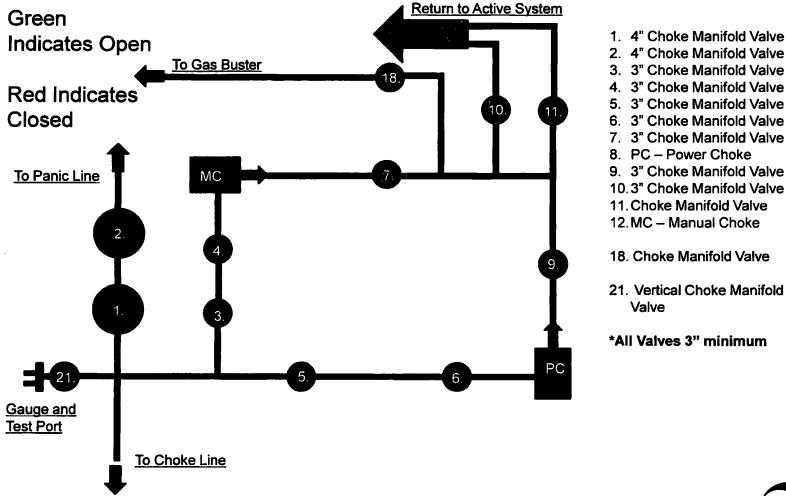
OXY requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that OXY would not be able to preset surface, the Primary Rig will MIRU and drill the wellfin its entirety per the APD. Please see the attached document for information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

Other proposed operations facets attachment:

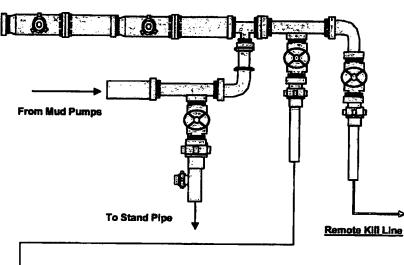
PlatinumMDP1_34_3FdCom172H_SpudRigData_20180424115714.pdf PlatinumMDP1_34_3FdCom172H_DrillPlanAmd_20180712142529.pdf

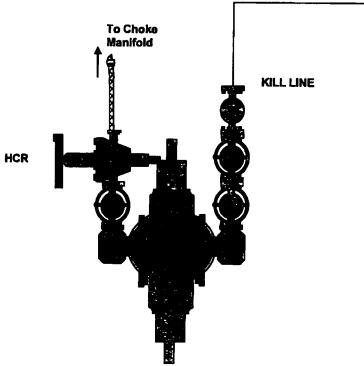
Other Variance attachment:

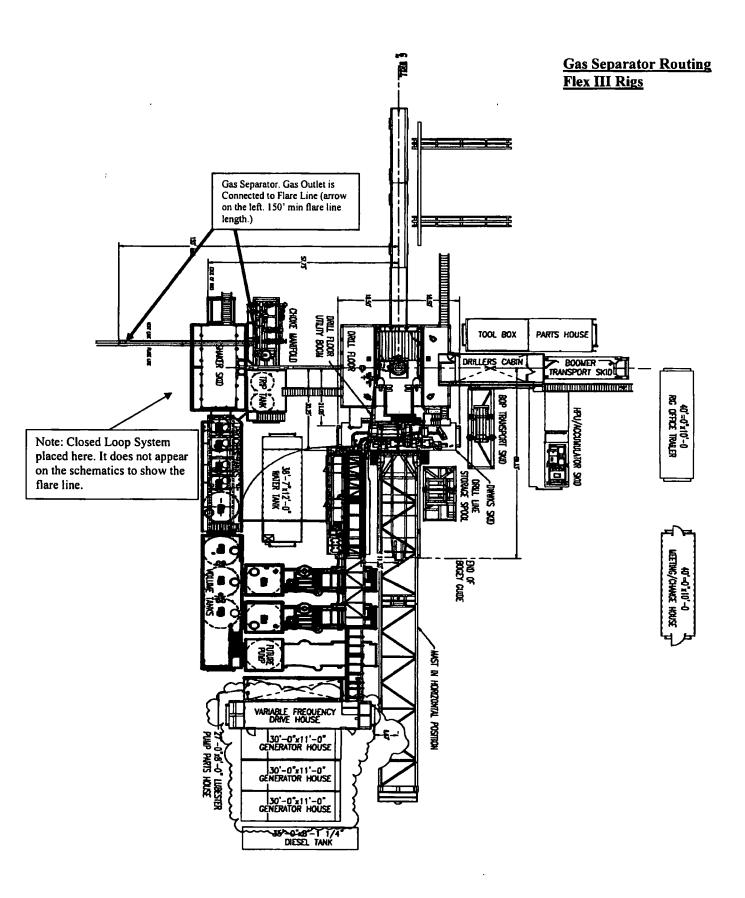
5M Choke Panel

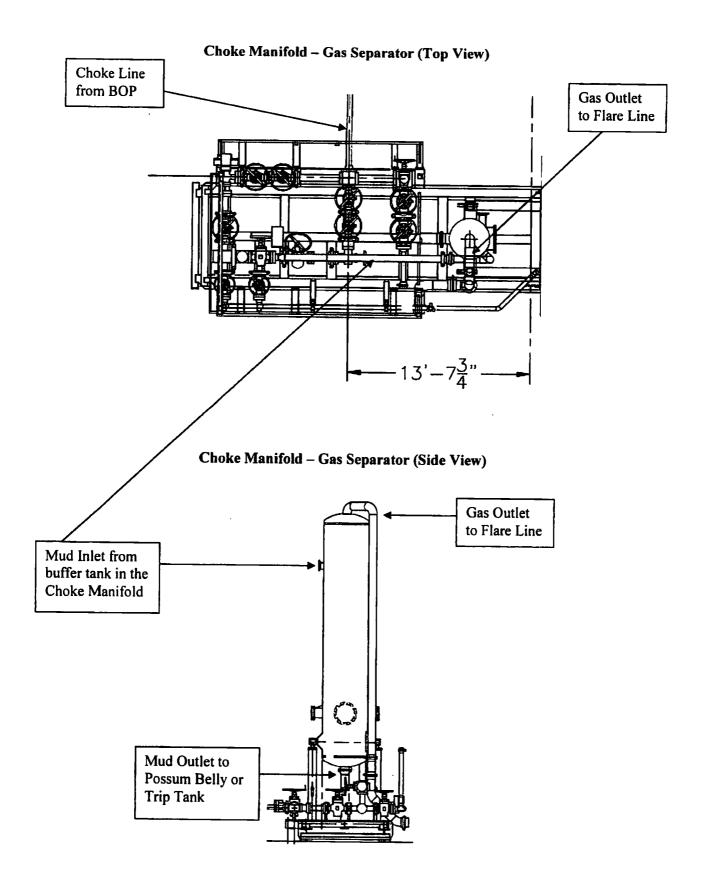


10M REMOTE KILL LINE SCHEMATIC









Coflex Hose Certification



Fluid Technology

Quality Document

QUALI INSPECTION A	TY CON		_	CATE		CERT.	No:	746	
PURCHASER:	Phoenix B	eattie (Co.			P.O. Nº:		002491	
CONTITIECH ORDER N°:	412638	HOS	E TYPE:	3°	ID	Che	oke and k	(III Hose	
HOSE SERIAL Nº:	52777	NON	IINAL / AC	TUAL L	ENGTH:		10,67 m	1	
W.P. 68,98 MPa 1	0000	psi T.P.	103,4	MPe	15000) psi	Ouretton:	60 ~	min
Pressure test with water at ambient temperature 10 mm = 10 mm = 25 MPa		ee atta	chment.	(1 pa	ge)				
			COUP	Lings					
Туре		Sertal	N°		-	Juality		Heat Nº	
3" coupling with	8	17	913		AIS	1 4130		T7998A	
4 1/16" Flange end					AIS	l 4130		2 6984	
INFOCHIP INSTALL	ED ED						Te	API Spec 16 mperature ra	C te:"B"
All metal parts are flawless			·						
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE	E HOSE HAS WITH SATIS	BEEN MA	anufactui Presult.	RED IN A	ACCORD	ance Wi	THE TER	ems of the ord	er and
Date:	Inapector			Quality	Control				
04. April. 2008				14	nan (Indi	Tech Rubbe estrial Kit. Control De (1))	

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Coflex Hose Certification

Form No 100/12

-- PHOENIX Beattie

Phoenix Beattle Corp
11536 Brittmore Fark Orive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0163
E-saril sariliphoenubeattle.com
wer.phoenizbeattle.com

Delivery Note

Customer Order Number 370-369-001	Delivery Note Number	003078	Pege	1
Customer / Invoice Address HELMERICH & PAYNE INT'L ORILLING CO 1437 SOUTH BOULDER TULSA. OK 74119	Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RI 13609 INDUSTRIAL ROAD HOUSTON, TX 77015	G 370		

Customer Acc No	Phoenix Beattle Contract Manager	Phoenix Beattle Reference	Date
H01	IJL	006330	05/23/2008

Item No	Beattle Part Number / Description	Oty Ordered	Oty Sent	Oty To 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 6BX Flange End 2: 4.1/16° 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S 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	
	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" CD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

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

Form No 100/12

--- PHOENIX Beattie

Phoenix Beattle Corp 11575 Brittamore Park Drive Houston, 17 77041 161: (832) 327-6141 ··· Fas: (832) 327-6146 E-serl satiliphoenisbeattle.com www.phoenisbeattle.com

Delivery Note

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

Customer Acc No	Phoenix Beattle Contract Manager	Phoenix Beattle Reference	Date
H01	JJL	006330	05/23/2008

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

Phoenix Beattle Inspection Signature :	MANAMARY
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 6 days. Returns may be subject to a handling charge.

Coflex Hose Certification

H	** PHOENIX Beat	ıttie	Materia	I Ident	ificatio	Material Identification Certificate	cate			
PA No 008330	Clent	LMERICH & PAY	HELMERICH & PAYNE INT'L DRILLING COOM Ref 370-369-001	Coent H	lof 37	0-369-001			Page	-
Part No	Description	Material Desc	Material Spec	AŽO	WO No	Betch No	Toot Cort Mo	14 -10	i	
P10013A-36-4F1	3. 10K 16C CHK HOSE x 35 Pt GAL				2497	62777.A884	001 100 100 1	ON LING	Org No	Issue No
SEDIS-HPF3	LIFTING & SAFETY BOUINERS TO			_	ı	002440		5		
5C726-200CS		CARBON STEEL		_	2810	HEGG		MV318.		
5C725-13ECS	SAFETY CLAP 132H 7.25T	CARBON STEEL		_	ı	8.5		S S		
					1			S.		
									-	F

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

05/23/09.

Coflex Hose Certification



Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier: CONTITECH RUBBER INDUSTRIAL KFT.

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

Type:

3" x 10,67 m WP: 10000 psi

Supplier File 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

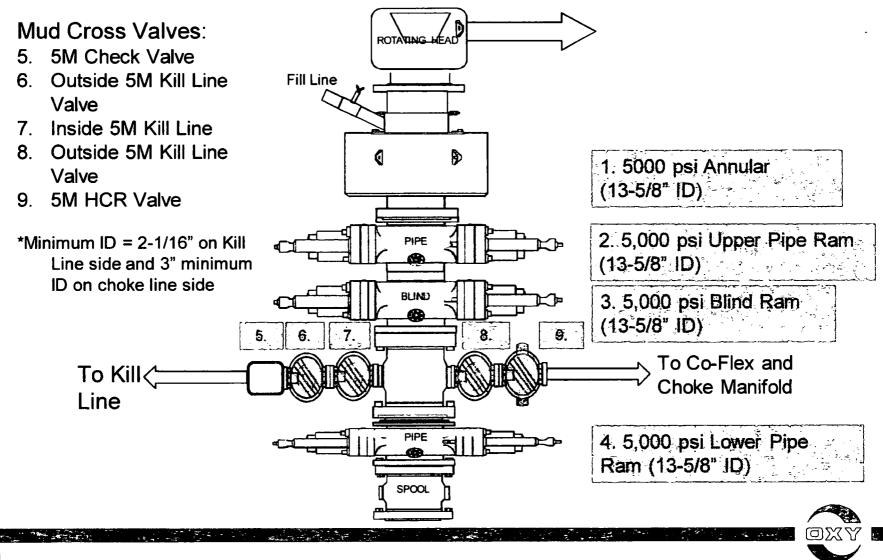
Sinned

ontifiech Bubbs Industrial KD. Quality Control Dez

Position: Q.C. Manager

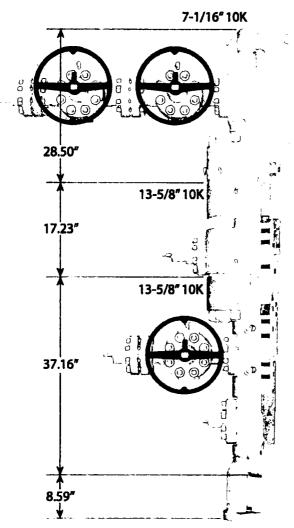
Date: 04. April. 2008

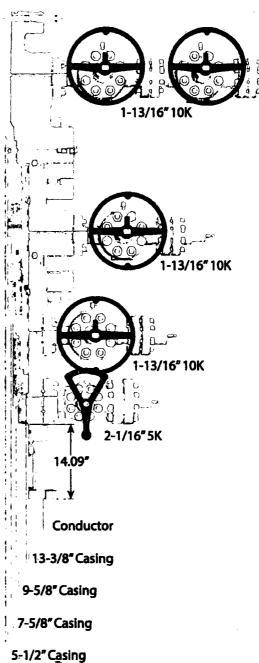
5M BOP Stack





13-5/8" 10K MN-DS Wellhead Four String







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- 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.
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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.
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Injection / Stimulation Down Casing (Production)

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- 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)

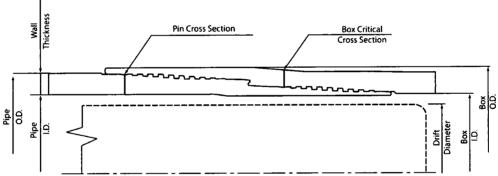
 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

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

TECHNICAL DATA SHF" TMK UP SF 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft)	26.40
Pipe Grade	L80 HC	Nominał ID, (inch)	6.969
Drift	Standard	Drift Diameter, (inch)	6.844
		Nominal Pipe Body Area, (sq inch)	7.519
CONNECTION PARAMETERS		Yield Strength in Tension, (klbs)	601
Connection OD (inch)	7.79	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.938	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	6.029		
Connection Critical Area, (sq inch)	5.948	Internal Pressure	
Yield Strength in Tension, (klbs)	533		
Yeld Strength in Compression, (klbs)	533		
Tension Efficiency	89%	The Her Killing	A
Compression Efficiency	89%	the second secon	Andrew Princer
Min. Internal Yield Pressure, (psi)	6 020	The state of the s	1-7
Collapse Pressure, (psi)	3 910	Company	- J- inio
Uniaxial Bending (deg/100ft)	42.7	reserve to afference to the second se	/-/
MAKE-UP TORQUES			
Yield Torque, (ft-lb)	22 600		, WE
Minimum Make-Up Torque, (ft-lb)	15 000	Simple de la constante de la c	4
Optimum Make-Up Torque, (ft-lb)	16 500	External Pressure	
Maximum Make-Up Torque, (ft-lb)	18 200		
I			

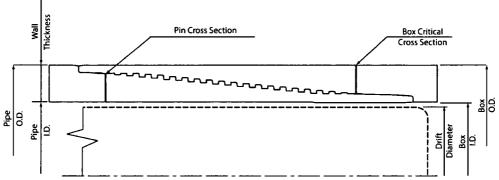


NOTE. The content of this feethin all Data Shelt to for gons all atomic tion only an does not guarantee performance or angle times, for a particular purpose of a north or considerance in this momentum become feething the speed of installation and operation parameters. This information is users account this connection between the considerance in the particular purpose as the parameters and does not interest on the parameters are the latest indicated in the parameter of the param

Print date: 07/10/2018 20:00

TECHNICAL DATA SHEFT TMK UP FJ 7.625 X 26.4 L80 HC

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	7.625	PE Weight, (lbs/ft)	25.56
Wall Thickness, (inch)	0.328	Nominal Weight, (lbs/ft)	26.40
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Drift	Standard	Drift Diameter, (inch)	6.844
CONNECTION PARAMETERS		Nominal Pipe Body Area, (sq inch)Yield Strength in Tension, (klbs)	7.519 601
Connection OD (inch)	7.63	Min. Internal Yield Pressure, (psi)	6 020
Connection ID, (inch)	6.975	Collapse Pressure, (psi)	3 910
Make-Up Loss, (inch)	4.165	обпарас г геззоге, (раг)	3 710
Connection Critical Area, (sq inch)	2.520	Internal Pressure	
Yield Strength in Tension, (klbs)	347		
Yeld Strength in Compression, (klbs)	347		
Tension Efficiency	58%	अ जीवि कर जिले	
Compression Efficiency	58%		*-
Min. Internal Yield Pressure, (psi)	6 020	The second secon	an afr a
Collapse Pressure, (psi)	3 910		lend.
Uniaxial Bending (deg/100ft)	28.0		
MAKE-UP TORQUES			<u> </u>
Yield Torque, (ft-lb)	22 200	- + + + + + + + + + + + + + + + + + + +	VALE
Minimum Make-Up Torque, (ft-lb)	12 500		
Optimum Make-Up Torque, (ft-lb)	13 900	External Pressure	- (7.80)
Maximum Make-Up Torque, (ft-lb)	15 300		VF.000
"			



NOTE. The content of this Technical Data Sheet is for general information only and does not go mantee performance or imply funess for a particular purpose which crivia competent drilling professional can determine considering the specific installation and operation parameters. The information supersede all professional can determine considering the specific installation and operation parameters. The information supersede all professional can design the best detailed in the case of the formation herein decreases a final parameter of the formation herein decreases a final parameter of the formation place controlled by TMK and might not be the latest recharged information please contact PAOLTMK Technical Sales in Russia (Tel. + 1 (281) 275-76-00 Email technical formation please contact PAOLTMK Technical Sales in Russia (Tel. + 1 (281) 249-1044 Email technical sales in the professional can decrease a final parameter of the first par

Print date. 07/10/2018 20:11

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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

Tubular Parameters					
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		1 1	

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		
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 SHE MK UP DQX 5.5 X 20 P110

UBULAR PARAMETERS		PIPE BODY PROPERTIES	
iominal OD, (inch)	5 500	PE Weight, (lbs/ft)	19.81
Vall Thickness, (inch)	0.361	Nominal Weight, (lbs/ft)	20.00
lipe 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
Prift	Standard	Yield Strength In Tension, (klbs)	641
ONNECTION PARAMETERS		Min. Internal Yield Pressure, (psl)	12 640
Connection OD (inch)		_Collapse Pressure, (psi)	11 110
, ,	6.05		
Connection ID, (inch) Make-Up Loss, (inch)	4.778	La company of the control of the con	
nake-up coss, (inch) Connection Critical Area, (sq inch)	4.122 5.828		
Tield Strength in Tension, (klbs)	5.828 641		
eld Strength in Compression, (kibs)	641	and the same of th	
ension Efficiency	100%		1
compression Efficiency	100%		- L - 341
fin. Internal Yield Pressure, (psi)	12 640		
collapse Pressure, (psi)	11 110		/
Iniaxial Bending (deg/100ft)	91.7		
MAKE-UP TORQUES			· ve
ield Torque, (ft-lb)	20 600	First and Frenche	
finimum Make-Up Torque, (ft-lb)	11 600		
ptimum Make-Up Torque, (ft-lb)	12 900		
faximum Make-Up Torque, (ft-lb)	14 100		
1 1	Cou	pling Length	
Wall McGuress	ake Up Loss	Box Critical Cross Section	
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d Pin Cross Se	ction	}	Defin

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Print date: 12/07/2017 18:09

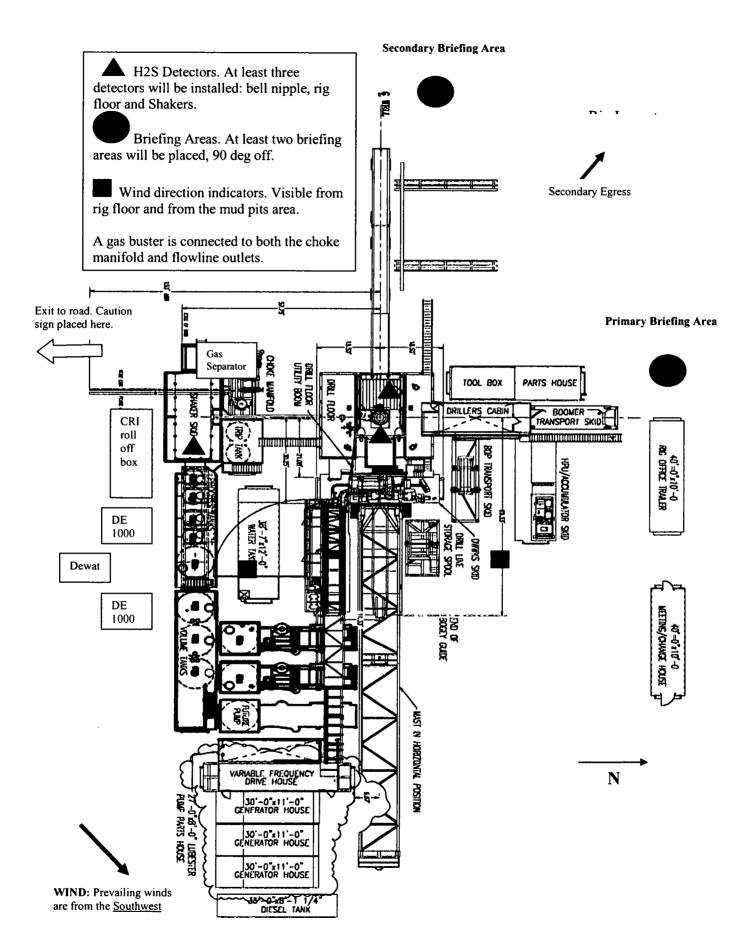


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Platinum MDP1 34-3 Federal Com 172H

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. <u>Hydrogen sulfide sensors and alarms</u>

- 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.

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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.
- 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).
- Assigns least essential person to notify Drill Site
 Manager and tool pusher by quickest means in case
 of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

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

Mud engineer:

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

Safety personnel:

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

Taking a kick

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

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

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

Checked by:______ Date:_____

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout - if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Table i
Toxicity of various gases

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

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

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	<u>Ppm</u>	Grains	
		100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

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

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

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper 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

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H

WB00

Plan: Permitting Plan

Standard Planning Report

28 March, 2018

Planning Report

Database:

HOPSPP

ENGINEERING DESIGNS

Company: Project:

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Well: PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H

Wellbore:

WB00

Design:

Permitting Plan

Map System:

Map Zone:

US State Plane 1983

New Mexico Eastern Zone

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well PLATINUM MDP1 34-3 FED COM 172H

The second secon

DATUM @ 3442.00ft

DATUM @ 3442.00ft

Grid

Minimum Curvature

PRD NM DIRECTIONAL PLANS (NAD 1983) **Project**

Geo Datum:

North American Datum 1983

System Datum:

Mean Sea Level

Using geodetic scale factor

Site PLATINUM MDP1 34-3 FED COM

Site Position:

From:

Map

Northing: Easting:

714,923.95 usft

461,352.44 usft Latitude: Longitude:

32° 16' 1.502765 N

103° 46' 18.211063 W

Position Uncertainty:

0.00 ft Slot Radius:

13.200 in

Grid Convergence:

0.30°

Well PLATINUM MDP1 34-3 FED COM 172H

Well Position

+N/-S +E/-W

180.21 ft 34.03 ft Northing: Easting:

461,532.64 usft 714,957.98 usft

Latitude: Longitude:

32° 16' 3.284176 N 103° 46' 17.803741 W

3,415.50 ft 0.00 ft **Ground Level: Position Uncertainty** 0.00 ft Wellhead Elevation:

Welibore	WB00				_ , ,
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/28/2018	6.88	60.02	48,090

Design	Permitting Plan					
Audit Notes:						
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction	
		(ft)	(ft)	(ft)	()	
		0.00	0.00	0.00	177.16	

lan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,750.00	0.00	0.00	7,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,250.05	10.00	69.31	8,247.52	15.38	40.72	2.00	2.00	0.00	69.31	
10,562.19	10.00	69.31	10,524.52	157.24	416.37	0.00	0.00	0.00	0.00	
11,062.25	0.00	179.74	11,022.04	172.62	457.10	2.00	-2.00	0.00	180.00	PLATINUM_172H
11,960.25	89.80	179.74	11,594.99	-398.33	459.71	10.00	10.00	0.00	179.74	
21,728.21	89.84	179.74	11,626.00	-10,166.14	504.50	0.00	0.00	0.00	0.00	PLATINUM_172H

Planning Report

Database:

HOPSPP

Company:

ENGINEERING DESIGNS

Project:

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Well: PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H

Wellbore: Design: WB00

Permitting Plan

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well PLATINUM MDP1 34-3 FED COM 172H

DATUM @ 3442.00ft DATUM @ 3442.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

:Database:

HOPSPP

Company:

ENGINEERING DESIGNS

Project:

PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM

Site: Well:

PLATINUM MDP1 34-3 FED COM 172H

Wellbore:

WB00

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

ate Reference: Well PLATINUM MDP1 34-3 FED COM 172H

DATUM @ 3442.00ft DATUM @ 3442.00ft

Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		5,700.00	0.00	0.00	0.00	0.00	0.00	
5,700.00		0.00							0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
			•						
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7.700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,750.00	0.00	0.00	7,750.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	1.00	69.31	7,800.00	0.15	0.41	-0.13	2.00	2.00	0.00
	3.00		7,899.93						
7,900.00		69.31		1.39	3.67	-1.20	2.00	2.00	0.00
8,000.00	5.00	69.31	7,999.68	3.85	10.20	-3.34	2.00	2.00	0.00
8,100.00	7.00	69.31	8,099.13	7.54	19.98	-6.54	2.00	2.00	0.00
8,200.00	9.00	69.31	8,198.15	12.46	33.00	-10.81	2.00	2.00	0.00
8,250.05	10.00	69.31	8,247.52	15.38	40.72	-13.34	2.00	2.00	0.00
8,300.00	10.00	69.31	8,296.71	18.44	48.84	-16.00	0.00	0.00	0.00
8,400.00	10.00	69.31	8,395.19	24.58	65.09	-21.32	0.00	0.00	0.00
8,500.00	10.00	69.31	8,493.67	30.71	81.33	-26.65	0.00	0.00	0.00
8,600.00	10.00	69.31	8,592.15	36.85	97.58	-31.97	0.00	0.00	0.00
8,700.00	10.00	69.31	8,690.63	42.99	113.83	-37.29	0.00	0.00	0.00
8,800.00	10.00	69.31	8,789.11	49.12	130.07	-42.61	0.00	0.00	0.00
8,900.00	10.00	69.31	8,887.59	55.26	146.32	-47.94	0.00	0.00	0.00
9,000.00	10.00	69.31	8,986.07	61.39	162.57	-53.26	0.00	0.00	0.00
9,100.00	10.00	69.31	9.084.55	67.53	178.81	-58.58	0.00	0.00	0.00
9,200.00	10.00	69.31	9,183.03	73.66	195.06	-63.90	0.00	0.00	0.00
9,300.00	10.00	69.31	9,281.51	79.80		-69.23		0.00	
9,400.00	10.00	69.31	9,281.51 9,379.99	79.80 85.93	211.31 227.55	-69.23 -74.55	0.00 0.00	0.00	0.00 0.00
9,500.00	10.00	69.31	9,379.99 9,478.47	92.07	243.80	-74.55 - 79.87			
							0.00	0.00	0.00
9,600.00	10.00	69.31 60.31	9,576.95	98.21	260.05	-85.20	0.00	0.00	0.00
9,700.00	10.00	69.31	9,675.43	104.34	276.29	-90 .52	0.00	0.00	0.00
9,800.00	10.00	69.31	9,773.91	110.48	292.54	-95.84	0.00	0.00	0.00
9,900.00	10.00	69.31	9,872.39	116.61	308.79	-101.16	0.00	0.00	0.00
10,000.00	10.00	69.31	9,970.87	122.75	325.03	-106.49	0.00	0.00	0.00
10,100.00	10.00	69.31	10,069.35	128.88	341.28	-111.81	0.00	0.00	0.00
10,200.00	10.00	69.31	10,167.83	135.02	357.53	-117.13	0.00	0.00	0.00
10,300.00	10.00	69.31	10,266.31	141.15	. 373.77	-122.45	0.00	0.00	0.00
10,400.00	10.00	69.31	10,364.80	147.29	390.02	-127.78	0.00	0.00	0.00
10,500.00	10.00	69.31	10,463.28	153.42	406.27	-133.10	0.00	0.00	0.00

Planning Report

Database:

HOPSPP

References to the control of the con

Company:

ENGINEERING DESIGNS

Project: Site: PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM

Well:

PLATINUM MDP1 34-3 FED COM 172H

Wellbore:

WB00

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well PLATINUM MDP1 34-3 FED COM 172H

DATUM @ 3442.00ft DATUM @ 3442.00ft

Grid

Magazzad			Vertical			Vontion	Doglas	Build	Turn
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
10,562.19	10.00	69.31	10,524.52	157.24	416.37	-136.41	0.00	0.00	0.00
10,600.00	9.24	69.31	10,561.80	159.47	422.28	-138.35	2.00	-2.00	0.00
10,700.00	7.24	69.31	10,660.76	164.54	435.70	-142.74	2.00	-2.00	0.00
10,800.00	5.24	69.31	10,760.16	168.38	445.88	-146.08	2.00	-2.00	0.00
10,900.00	3.24	69.31	10,859.88	171.00	452.80	-148.34	2.00	-2.00	0.00
11,000.00	1.24	69.31	10,959.80	172.38	456.46	-149.54	2.00	-2.00	0.00
11,062.25	0.00	179.74	11,022.04	172.62	457.10	-149.75	2.00	-2.00	0.00
11,100.00	3.78	179.74	11,059.77	171.38	457.10	-148.51	10.00	10.00	0.00
11,200.00	13.78	179.74	11,158.47	156.14	457.17	-133.29	10.00	10.00	0.00
11,300.00	23.78	179.74	11,253.03	123.99	457.32	-101.18	10.00	10.00	0.00
11,400.00	33.78	179.74	11,340.57	75.92	457.54	-53.15	10.00	10.00	0.00
11,500.00	43.78	179.74	11,418.43	13.37	457.83	9.34	10.00	10.00	0.00
11,600.00	53.78	179.74	11,484.25	-61.75	458.17	84.38	10.00	10.00	0.00
11,700.00	63.78	179.74	11,536.02	-147.15	458.56	169.70	10.00	10.00	0.00
11,800.00	73.78	179.74	11,572.18	-240.25	458.99	262.70	10.00	10.00	0.00
11,900.00	83.78	179.74	11,591.62	-338.21	459.44	360.57	10.00	10.00	0.00
11,960.25	89.80	179.74	11,594.99	-398.33	459.71	420.63	10.00	10.00	0.00
12,000.00	89.80	179.74	11,595.13	-438.09	459.90	460.34	0.00	0.00	0.00
12,100.00	89.80	179.74	11,595.48	-538.08	460.36	560.24	0.00	0.00	0.00
12,200.00	89.80	179.74	11,595.83	-638.08	460.81	660.14	0.00	0.00	0.00
12,300.00	89.80	179.74	11,596.18	-738.08	461.27	760.04	0.00	0.00	0.00
12,400.00	89.80	179.74	11,596.52	-838.08	461.73	859.93	0.00	0.00	0.00
12,500.00	89.80	179.74	11,596.87	-938.08	462.19	959.83	0.00	0.00	0.00
12,600.00	89.80	179.74	11,597.21	-1,038.08	462.65	1,059.73	0.00	0.00	0.00
12,700.00	89.80	179.74	11,597.56	-1,138.07	463.11	1,159.63	0.00	0.00	0.00
12,800.00	89.80	179.74	11,597.90	-1,238.07	463.56	1,259.53	0.00	0.00	0.00
12,900.00	89.80	179.74	11,598.25	-1,338.07	464.02	1,359.43	0.00	0.00	0.00
13,000.00	89.80	179.74	11,598.59	-1,438.07	464.48	1,459.32	0.00	0.00	0.00
13,100.00	89.80	179.74	11,598.93	-1,538.07	464.94	1,559.22	0.00	0.00	0.00
13,200.00	89.80	179.74	11,599.27	-1,638.07	465.40	1,659.12	0.00	0.00	0.00
13,300.00	89.80	179.74	11,599.61	-1,738.06	465.86	1,759.02	0.00	0.00	0.00
13,400.00	89.81	179.74	11,599.95	-1,838.06	466.32	1,858.92	0.00	0.00	0.00
13,500.00	89.81	179.74	11,600.29	-1,938.06	466.77	1,958.81	0.00	0.00	0.00
13,600.00	89.81	179.74	11,600.63	-2,038.06	467.23	2,058.71	0.00	0.00	0.00
13,700.00	89.81	179.74	11,600.97	-2,138.06	467.69	2,158.61	0.00	0.00	0.00
13,800.00	89.81	179.74	11,601.31	-2,238.06	468.15	2,258.51	0.00	0.00	0.00
13,900.00	89.81	179.74	11,601.64	-2,338.05	468.61	2,358.41	0.00	0.00	0.00
14,000.00	89.81	179.74	11,601.98	-2,438.05	469.07	2,458.31	0.00	0.00	0.00
14,100.00	89.81	179.74	11,602.32	-2,538.05	469.53	2,558.20	0.00	0.00	0.00
14,200.00	89.81	179.74	11,602.65	-2,638.05	469.98	2,658.10	0.00	0.00	0.00
14,300.00	89.81	179.74	11,602.98	-2,738.05	470.44	2,758.00	0.00	0.00	0.00
14,400.00	89.81	179.74	11,603.32	-2,838.05	470.90	2,857.90	0.00	0.00	0.00
14,500.00	89.81	179.74	11,603.65	-2,938.05	471.36	2,957.80	0.00	0.00	0.00
14,600.00	89.81	179.74	11,603.98	-3,038.04	471.82	3,057.70	0.00	0.00	0.00
14,700.00	89.81	179.74	11,604.31	-3,138.04	472.28	3,157.59	0.00	0.00	0.00
14,800.00	89.81	179.74	11,604.65	-3,238.04	472.73	3,257.49	0.00	0.00	0.00
14,900.00	89.81	179.74	11,604.98	-3,338.04	473.19	3,357.39	0.00	0.00	0.00
15,000.00	89.81	179.74	11,605.31	-3,438.04	473.65	3,457.29	0.00	0.00	0.00
15,100.00	89.81	179.74	11,605.64	-3,538.04	474.11	3,557.19	0.00	0.00	0.00
15,200.00	89.81	179.74	11,605.96	-3,638.03	474.57	3,657.08	0.00	0.00	0.00
15,300.00	89.81	179.74	11,606.29	-3,738.03	475.03	3,756.98	0.00	0.00	0.00
15,400.00	89.81	179.74	11,606.62	-3,838.03	475.49	3,856.88	0.00	0.00	0.00
15,500.00	89.81	179.74	11,606.94	-3,938.03	475.94	3,956.78	0.00	0.00	0.00
15,600.00	89.81	179.74	11,607.27	-4,038.03	476.40	4,056.68	0.00	0.00	0.00

Planning Report

Database: Company:

HOPSPP

ENGINEERING DESIGNS

Project:

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Well: PLATINUM MDP1 34-3 FED COM PLATINUM MDP1 34-3 FED COM 172H

Wellbore:

WB00

Design:

Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well PLATINUM MDP1 34-3 FED COM 172H

DATUM @ 3442.00ft

DATUM @ 3442.00ft

Grid

									_
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,700.00	89.81	179.74	11,607.60	-4,138.03	476.86	4,156.58	0.00	0.00	0.00
15,800.00	89.81	179.74	11,607.92	-4,238.02	477.32	4,256.47	0.00	0.00	0.00
15,900.00	89.81	179.74	11,608.24	-4,338.02	477.78	4,356.37	0.00	0.00	0.00
16,000.00	89.81	179.74	11,608.57	-4,438.02	478.24	4,456.27	0.00	0.00	0.00
16,100.00	89.82	179.74	11,608.89	-4,538.02	478.69	4,556.17	0.00	0.00	0.00
16,200.00	89.82	179.74	11,609.21	-4,638.02	479.15	4,656.07	0.00	0.00	0.00
16,300.00	89.82	179.74	11,609.53	-4,738.02	479.61	4,755.97	0.00	0.00	0.00
16,400.00	89.82	179.74	11,609.85	-4,838.02	480.07	4,855.86	0.00	0.00	0.00
16,500.00	89.82	179.74	11,610.17	-4,938.01	480.53	4,955.76	0.00	0.00	0.00
16,600.00	89.82	179.74	11,610.49	-5,038.01	480.99	5,055.66	0.00	0.00	0.00
16,700.00	89.82	179.74	11,610.81	-5,138.01	481.45	5,155.56	0.00	0.00	0.00
16,800.00	89.82	179.74	11,611.13	-5,238.01	481.90	5,255.46	0.00	0.00	0.00
16,900.00	89.82	179.74	11,611.45	-5,338.01	482.36	5,355.35	0.00	0.00	0.00
17,000.00	89.82	179.74	11,611.76	-5,438.01	482.82	5,455.25	0.00	0.00	0.00
17,100.00	89.82	179.74	11,612.08	-5,538.00	483.28	5,555.15	0.00	0.00	0.00
17,200.00	89.82	179.74	11,612.40	-5,638.00	483.74	5,655.05	0.00	0.00	0.00
17,300.00	89.82	179.74	11,612.71	-5,738.00	484.20	5,754.95	0.00	0.00	0.00
17,400.00	89.82	179.74	11,613.02	-5,838.00	484.66	5,854.85	0.00	0.00	0.00
17,500.00	89.82	179.74	11,613.34	-5,938.00	485.11	5,954.74	0.00	0.00	0.00
17,600.00	89.82	179.74	11,613.65	-6,038.00	485.57	6,054.64	0.00	0.00	0.00
17,700.00	89.82	179.74	11,613.96	-6.138.00	486.03	6,154.54	0.00	0.00	0.00
17,800.00	89.82	179.74	11,614.27	-6,237.99	486.49	6.254.44	0.00	0.00	0.00
17,900.00	89.82	179.74	11,614.59	-6,337.99	486.95	6,354.34	0.00	0.00	0.00
18,000.00	89.82	179.74	11,614.90	-6.437.99	487.41	6.454.24	0.00	0.00	0.00
18,100.00	89.82	179.74	11,615.21	-6,537.99	487.86	6,554.13	0.00	0.00	0.00
18,200.00	89.82	179.74	11,615.51	-6,637.99	488.32	6,654.03	0.00	0.00	0.00
18,300.00	89.82	179.74	11,615.82	-6.737.99	488.78	6,753.93	0.00	0.00	0.00
18,400.00	89.82	179.74	11,616.13	-6,837.98	489.24	6,853.83	0.00	0.00	0.00
18,500.00	89.82	179.74	11,616.44	-6,937.98	489.70	6,953.73	0.00	0.00	0.00
18,600.00	89.82	179.74	11,616.74	-7,037.98	490.16	7,053.63	0.00	0.00	0.00
18,700.00	89.83	179.74	11,617.05	-7,137.98	490.62	7,153.52	0.00	0.00	0.00
18,800.00	89.83	179.74	11,617.35	-7,237.98	491.07	7,253.42	0.00	0.00	0.00
18,900.00	89.83	179.74	11,617.66	-7,337.98	491.53	7,353.32	0.00	0.00	0.00
19,000.00	89.83	179.74	11,617.96	-7,437.98	491.99	7,453.22	0.00	0.00	0.00
19,100.00	89.83	179.74	11,618.27	-7,537.97	492.45	7,553.12	0.00	0.00	0.00
19,200.00	89.83	179.74	11,618.57	-7,637.97	492.91	7,653.02	0.00	0.00	0.00
19,300.00	89.83	179.74	11,618.87	-7,737.97	493.37	7,752.91	0.00	0.00	0.00
19,400.00	89.83	179.74	11,619.17	-7,837.97	493.82	7,852.81	0.00	0.00	0.00
19,500.00	89.83	179.74	11,619.47	-7.937.97	494.28	7.952.71	0.00	0.00	0.00
19,600.00	89.83	179.74	11,619.77	-8,037.97	494.74	8,052.61	0.00	0.00	0.00
19,700.00	89.83	179.74	11,620.07		495.20	8,152.51	0.00	0.00	0.00
19,800.00	89.83	179.74	11,620.37	-8,237.96	495.66	8,252.41	0.00	0.00	0.00
19,900.00	89.83	179.74	11,620.67	-8,337.96	496.12	8,352.30	0.00	0.00	0.00
20,000.00	89.83	179.74	11,620.96	-8,437.96	496.58	8,452.20	0.00	0.00	0.00
20,100.00	89.83	179.74	11,621.26	-8,537.96	497.03	8,552.10	0.00	0.00	0.00
20,200.00	89.83	179.74	11,621.56	-8,637.96	497.49	8,652.00	0.00	0.00	0.00
20,300.00	89.83	179.74	11,621.85	-8,737.96	497.45	8,751.90	0.00	0.00	0.00
20,300.00	89.83	179.74	11,621.65	-8,837.95	497.95 498.41	8,851.80	0.00	0.00	0.00
20,500.00	89.83	179.74	11,622.44	-8,937.95	498.87	8,951.69	0.00	0.00	0.00
20,500.00	89.83	179.74	11,622.73	-9,037.95	499.33	9,051.59	0.00	0.00	0.00
20,700.00	89.83	179.74	11,622.73	-9,037.95 -9,137.95	499.33 499.79	9,051.59	0.00	0.00	0.00
20,800.00 20,900.00	89.83 89.83	179.74 179.74	11,623.32 11,623.61	-9,237.95 -9,337.95	500.24 500.70	9,251.39 9,351.29	0.00 0.00	0.00 0.00	0.00 0.00
20,000.00	00.00		,020.01	0,001.00	500.70	0,001.20	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project:

PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM

Site: Well:

PLATINUM MDP1 34-3 FED COM 172H

Wellbore: Design:

WB00 Permitting Plan Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference: North Reference: DATUM @ 3442.00ft DATUM @ 3442.00ft

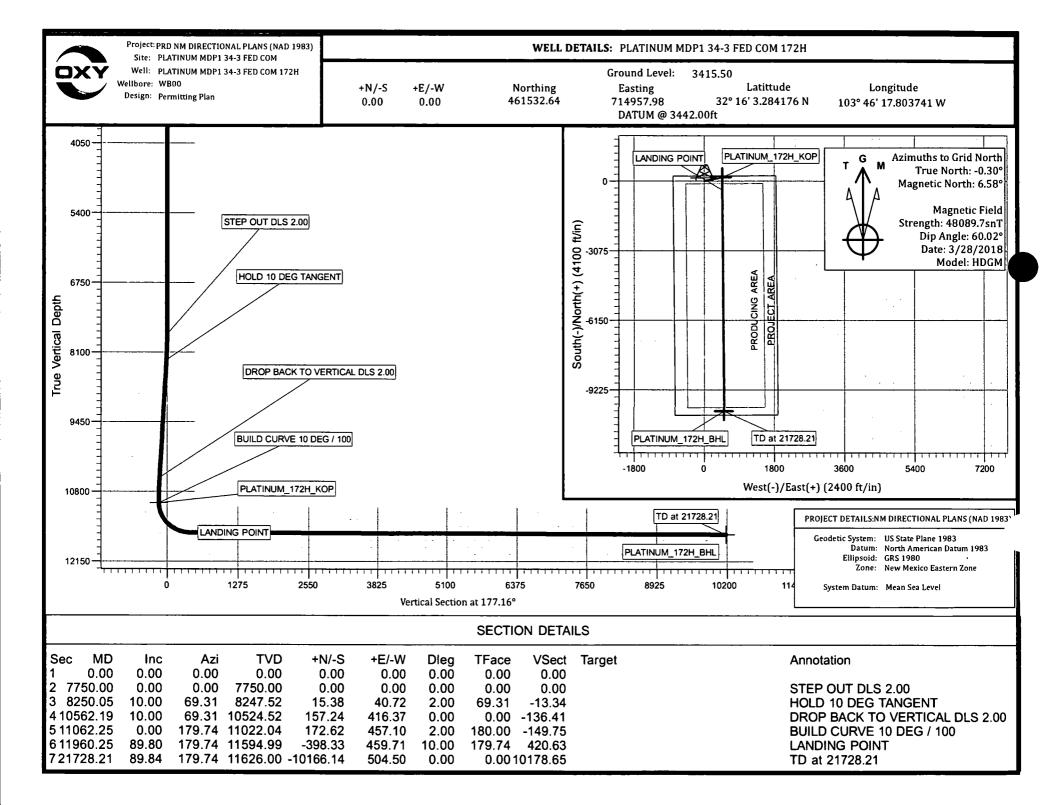
Well PLATINUM MDP1 34-3 FED COM 172H

Grid

nned Survey				ned Survey													
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)								
21,100.00	89.83	179.74	11,624.19	-9,537.94	501.62	9,551.08	0.00	0.00	0.00								
21,200.00	89.83	179.74	11,624.48	-9,637.94	502.08	9,650.98	0.00	0.00	0.00								
21,300.00	89.83	179.74	11,624.77	-9,737.94	502.54	9,750.88	0.00	0.00	0.00								
21,400.00	89.84	179.74	11,625.06	-9,837.94	502.99	9,850.78	0.00	0.00	0.00								
21,500.00	89.84	179.74	11,625.35	-9,937.94	503.45	9,950.68	0.00	0.00	0.00								
21,600.00	89.84	179.74	11,625.63	-10,037.94	503.91	10,050.58	0.00	0.00	0.00								
21,700.00	89.84	179.74	11,625.92	-10,137.94	504.37	10,150.47	0.00	0.00	0.00								
21,728.21	89.84	179.74	11,626.00	-10,166.14	504.50	10,178,65	0.00	0.00	0.00								

Design Targets	Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PLATINUM_172H_KO - plan hits target cer - Point	0.00 nter	0.00	11,022.04	172.62	457.10	461,705.25	715,415.05	32° 16' 4.968536 N	103° 46' 12.469816	
PLATINUM_172H_BH - plan hits target cer - Point	0.00 nter	0.00	11,626.00	-10,166.14	504.50	451,367.09	715,462.45	32° 14' 22.664414 N	103° 46′ 12.549388	

Plan Annotations								
Measured	Vertical	Local Coor	dinates					
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment				
7,750.00	7,750.00	0.00	0.00	STEP OUT DLS 2.00				
8,250.05	8,247.52	15.38	40.72	HOLD 10 DEG TANGENT				
10,562.19	10,524.52	157.24	416.37	DROP BACK TO VERTICAL DLS 2.00				
11,062.25	11,022.04	172.62	457.10	BUILD CURVE 10 DEG / 100				
11,960.25	11,594.99	-398.33	459.71	LANDING POINT				
21,728.21	11,626.00	-10,166.14	504.50	TD at 21728.21				



OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

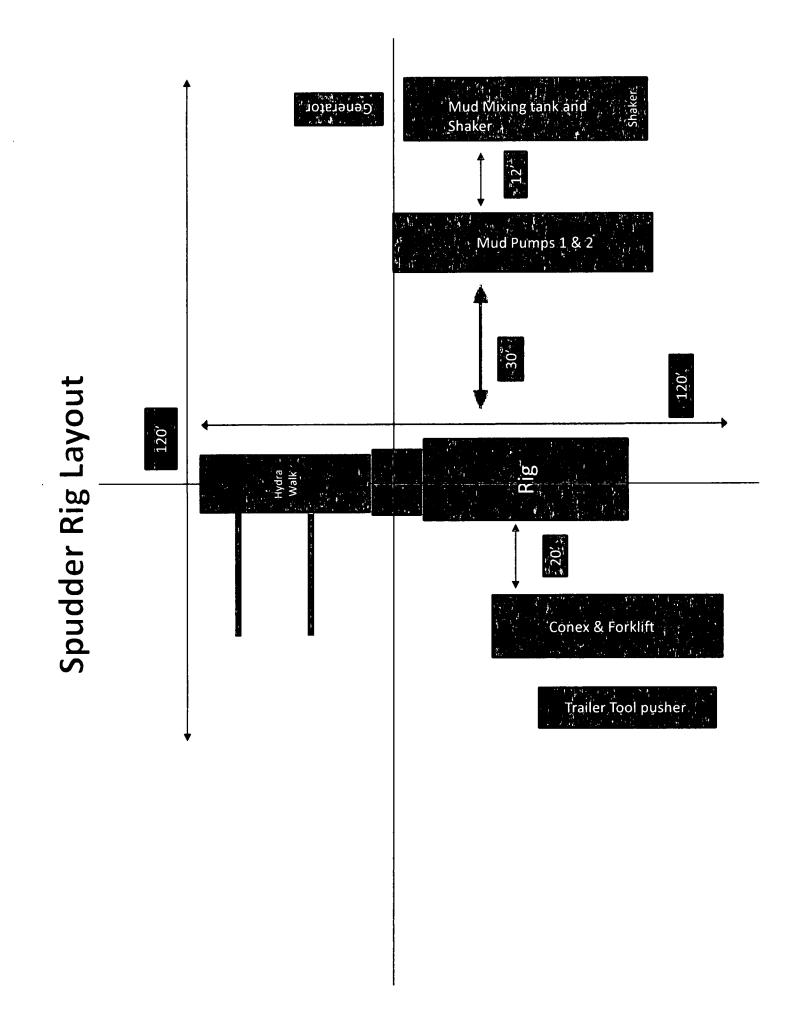
1. SUMMARY OF REQUEST:

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.



1. Geologic Formations

TVD of target	11626'	Pilot Hole Depth	N/A
MD at TD:	21728'	Deepest Expected fresh water:	550'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	550	
Salado	881	Brine
Castile	2828	Brine
Lamar/Delaware	4305	Brine
Bell Canyon	4332	Oil/Gas
Cherry Canyon	5218	Oil/Gas
Brushy Canyon	6479	Losses
Bone Spring	8145	Oil/Gas
1st Bone Spring	9206	Oil/Gas
2nd Bone Spring	9455	Oil/Gas
3rd Bone Spring	10306	Oil/Gas
Wolfcamp	11475	Oil/Gas

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

2. Casing Program

Buoyant Buoyant

Hole Size	Casing In	terval	Csg. Size	Weight	[Comm	SF	CE D	Body SF	Joint SF
(in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension
17.5	0	600	13.375	54.5	J55	BTC	1.125	1.2	1.4	1.4
12.25	0	4355	9.625	43.5	L80	BTC	1.125	1.2	1.4	1.4
8.5	0	10962	7.625	26.4	HCL80	SF (0 ft to 4000 ft) FJ (4000 ft to 10962 ft)	1.125	1.2	1.4	1.4
6.75	0	21728	5.5	20	P110	DQX	1.125	1.2	1.4	1.4
	_						SF V	/alues will	meet or Ex	ceed

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

^{*}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 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description	
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Surface (Tail)	713	14.8	1.33	6.365	5:26	Class C Cement, Accelerator	
Intermediate (Lead)	1201	12.9	1.88	10.130	14:22	Pozzolan Cement, Retarder	
Intermediate (Tail)	155	14.8	1.33	6.370	12:45	Class C Cement, Accelerator	
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Intermediate II 1st Stage (Tail)	139	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt	
Intermediate II 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus							
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Intermediate II 2nd Stage (Tail)	425	12.9	1.92	10.410	23:10	Class C Cement, Accelerator	
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A	
Production (Tail)	826	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt	

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	600	100%
Intermediate (Lead)	0	3855	100%
Intermediate (Tail)	3855	4355	20%
Intermediate II 1st Stage (Lead)	N/A	N/A	N/A
Intermediate II 1st Stage (Tail)	8145	10962	5%
Intermediate II 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate II 2nd Stage (Tail)	0	8145	25%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	10462	21728	20%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:			
			Annula	r	✓	70% of working pressure			
10.05077.1	12.5/01	5M Blind Ram Pipe Ram Double Ram Other*	5M	Blind Ra	ım	✓			
12.25" Hole	le 13-5/8") SIMI	SIVI	JIVI	Pipe Ra	m	
			✓	230/3000psi					
			Other*						

^{*}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			
From (ft)	To (ft)	Туре	(ppg)	Viscosity	Water Loss	
0	600	Water-Based Mud	8.6-8.8	40-60	N/C	
600	4355	Saturated Brine- Based Mud	9.8-10.0	35-45	N/C	
4355	10962	Water-Based or Oil- Based Mud	8.2-9.2	38-50	N/C	
10962	21728	Oil-Based Mud	9.5-12.0	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		

Additional 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	7255 psi	
Abnormal Temperature	No	
BH Temperature at deepest TVD	174°F	

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

N H2S is present

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes
• We plan to drill the 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: 1666.1 bbls.

9. Company Personnel

Brendan Flores – Drilling Engineer – 713-985-6360 – 512-964-0965

<u>Name</u>	<u>Title</u>	Office Phone	Mobile Phone
Edgar Diaz-Aguirre	Drilling Engineer	713-552-8594	713-550-2699
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417



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



APD ID: 10400029743

Submission Date: 04/24/2018

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PlatinumMDP1 34 3FdCom172H ExistRoads 20180424082656.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? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PlatinumMDP1_34_3FdCom172H_ExistWells_20180424082712.pdf

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

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 Sand Dunes Silver/Platinum 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 to follow surveyed route. Survey of a strip of land 30' wide and 6784.5' in length crossing USA Land in Sections 34 T23S R31E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey of a strip of land 30' wide and 5179.1' in length crossing USA Land in Sections 33 & 34 T23S R31E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey. Two–6" steel gas lift hp line operating 1500 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 3055.8' in length crossing USA Land in Sections 33 & 34 T23S R31E, 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 418.1' in length crossing USA land in Sections 34 T23S R31E 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 Sand Dunes MDP1 Platinum Surface Production Facilities Production Facilities map:

PlatinumMDP1_34_3FdCom172H_FacilityPLEL_20180424082730.pdf PlatinumMDP1_34_3FdCom172H_LeaseFacilityInfo_20180424082740.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,

OTHER, SURFACE CASING

Describe type:

Source latitude:

Source longitude:

Water source type: GW WELL

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:

PlatinumMDP1_34_3FdCom172H_GRRWtrSrc_20180424082839.pdf PlatinumMDP1_34_3FdCom172H_MesqWtrSrc_20180424082850.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

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6" of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120' X 120' area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120' X 120' within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad. Caliche will be provided from a pit located in Section 7 T24S R31E. Water will be provided from a frac pond located in Sections 7 T24S R31E.

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: 2000

barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

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.)

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:

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PlatinumMDP1_34_3FdCom172H_WellSiteCL_20180424083048.pdf

Comments: V-Door-East - CL Tanks-North - 465' X 620' - 4 Well Pad

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PLATINUM MDP1 34-3 FEDERAL COM

Multiple Well Pad Number: 1H

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): 6.62 (acres): 5.55

Road proposed disturbance (acres): 0 Road interim reclamation (acres): 0.24 Road long term disturbance (acres):

Powerline proposed disturbance

Powerline interim reclamation (acres): Powerline long term disturbance (acres): 0.29

(acres): 0 Pipeline proposed disturbance Pipeline interim reclamation (acres):

Pipeline long term disturbance (acres): 6.78

(acres): 2.26 Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0.33

Other long term disturbance (acres): 0

Total proposed disturbance: 13.69 Total interim reclamation: 6.45 Total long term disturbance: 8.02

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:

Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H

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:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

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 source:

Seed name:

Source name: Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre: Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JIM Last Name: WILSON

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

Operator Name: OXY USA INCORPORATED Well Name: PLATINUM MDP1 34-3 FEDERAL COM Well Number: 172H Seedbed prep: Seed BMP: Seed method: Existing invasive species? NO Existing invasive species treatment description: **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: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office:**

Military Local Office: USFWS Local Office: Other Local Office:

USFS Forest/Grassland:

USFS Region:

USFS Ranger District:

Operator Name: OXY USA INCORPORATED	
Well Name: PLATINUM MDP1 34-3 FEDERAL COM	Well Number: 172H
Disturbance type: PIPELINE	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: OTHER	
Describe: Electric Line	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34-3 FEDERAL COM

Well Number: 172H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

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

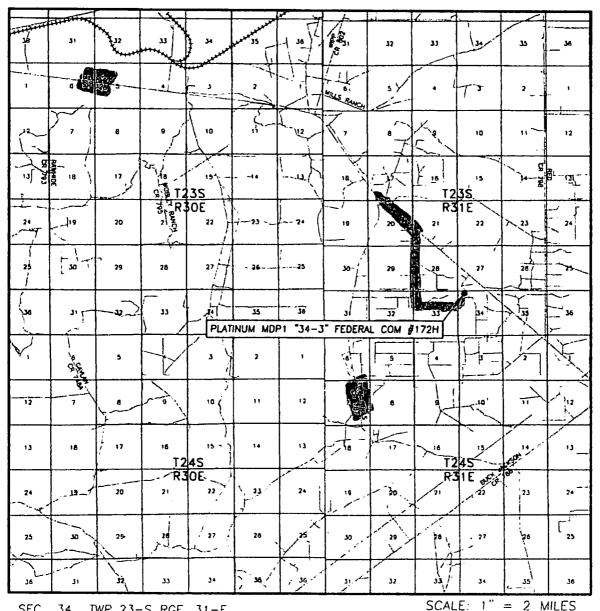
SUPO Additional Information: Permian Basin MOA - see attached SUPO and to be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** NO

Previous Onsite information:

Other SUPO Attachment

PlatinumMDP1_34_3FdCom172H_GasCapPlan_20180424115954.pdf PlatinumMDP1_34_3FdCom172H_MiscSvyPlats_20180424120005.pdf PlatinumMDP1_34_3FdCom172H_StakeForm_20180424120021.pdf PlatinumMDP1_34_3FdCom172H_SUPO_20180424120036.pdf

VICINITY MAP



SEC. 34 TWP. 23-S RGE. 31-E SURVEY N.M.P.M.

COUNTY_ EDDY

DESCRIPTION 220' FNL & 802' FWL

ELEVATION_ 3415.5

QPERATOR ____OXY USA INC.

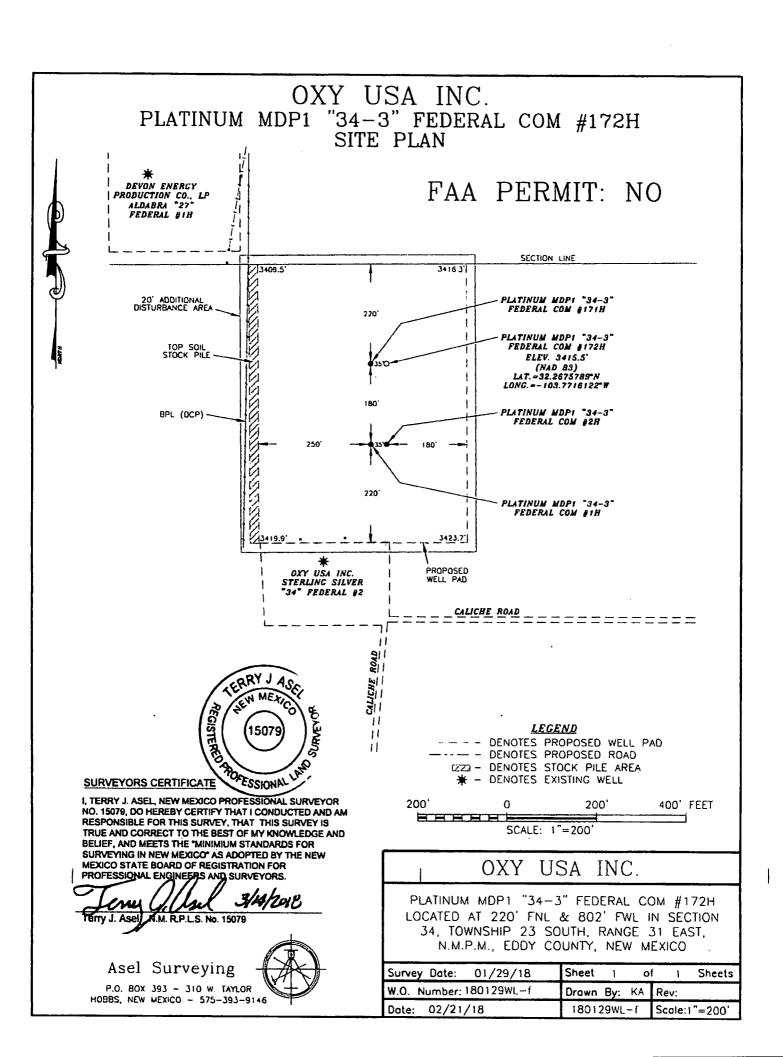
Asel Surveying

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

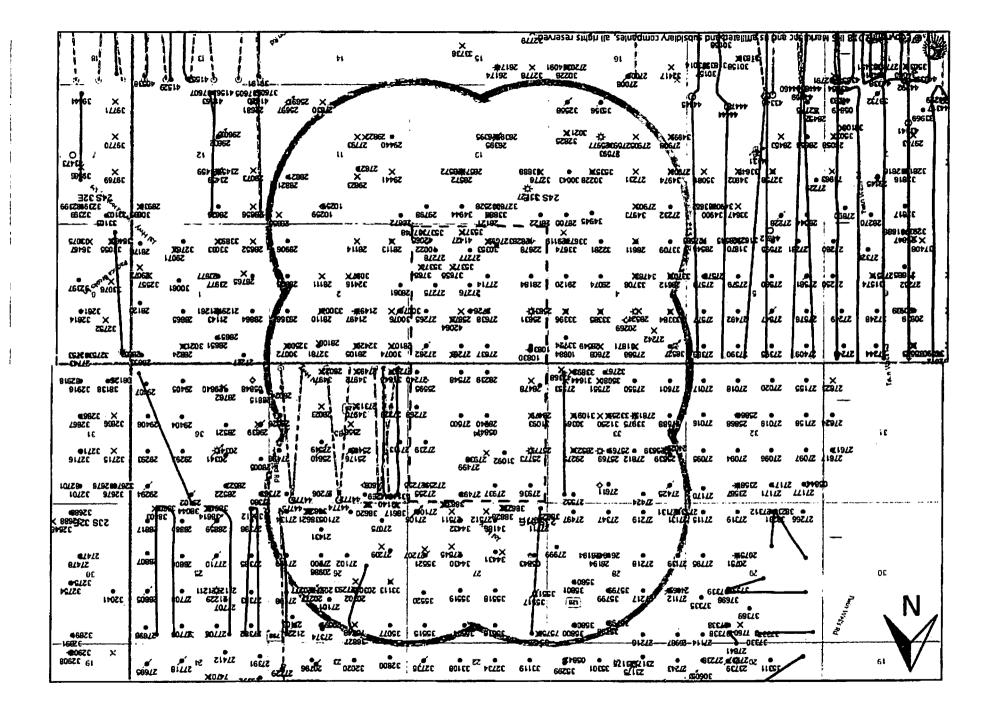
LEASE PLATINUM MDP1 "34-3" FEDERAL COM #172H

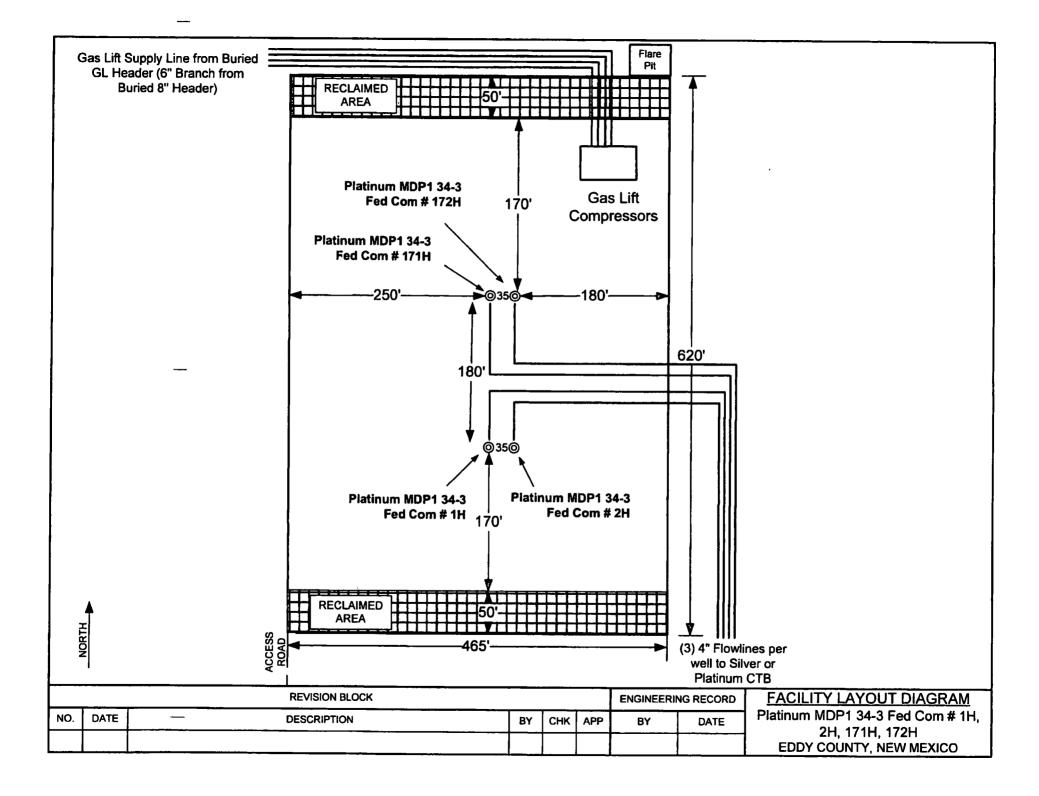
DIRECTIONS BEGINNING AT THE INTERSECTION OF N.M. STATE HWY. #128 AND EDDY COUNTY ROAD #787 (TWIN WELLS ROAD), GO SOUTHEAST ON N.M. STATE HWY. #128 FOR 1.1 MILES, TURN RIGHT ON CALICHE ROAD AND GO SOUTH FOR 1.8 MILES, TURN LEFT AND GO EAST FOR 1.1 MILES, TURN LEFT AND GO NORTH FOR 0.2 MILES TO LOCATION.

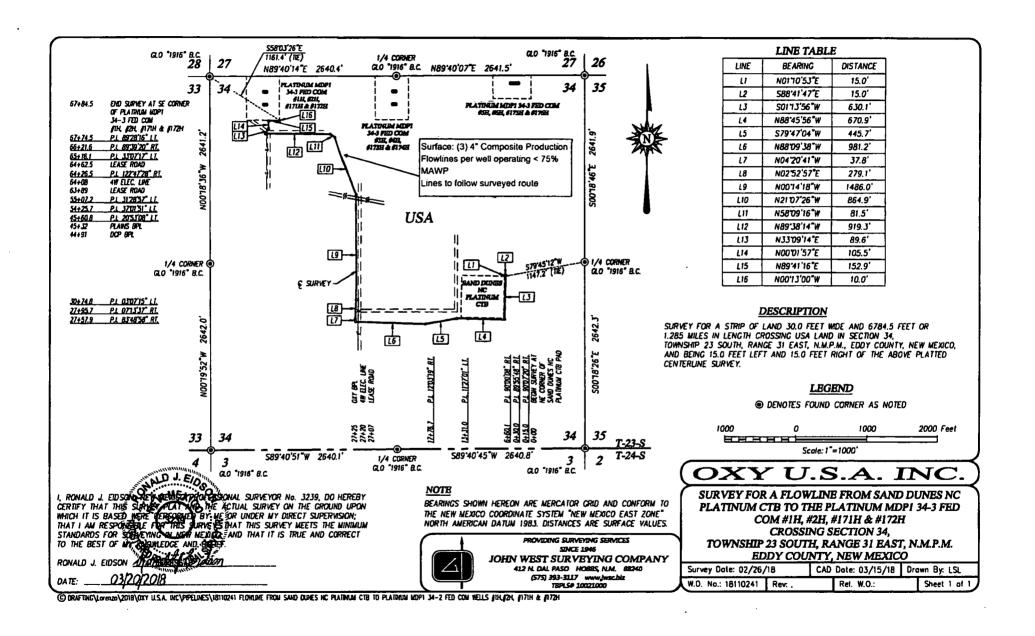


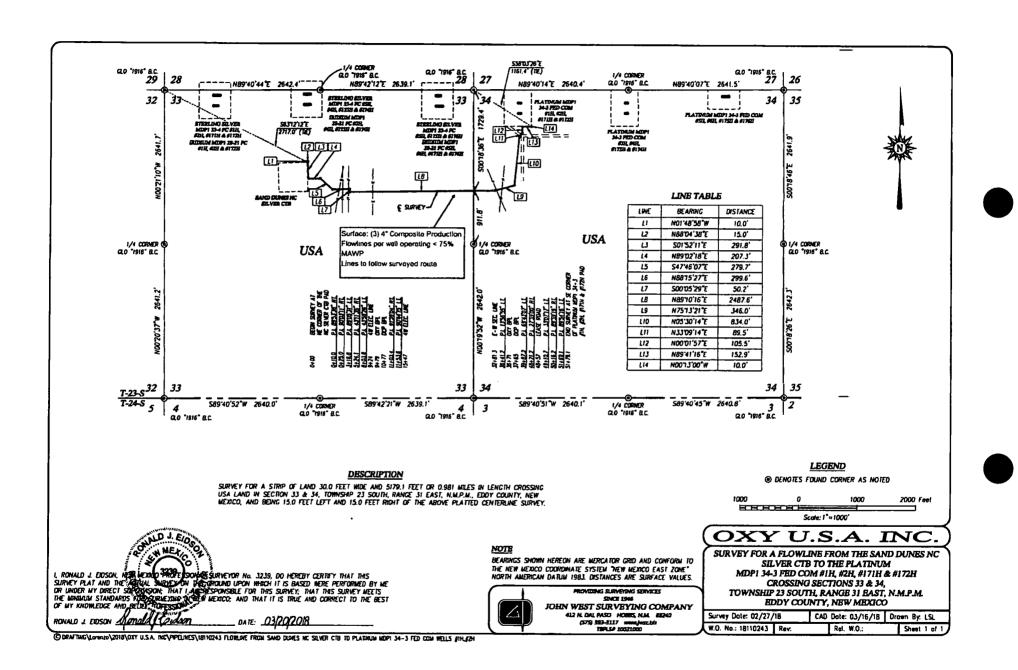


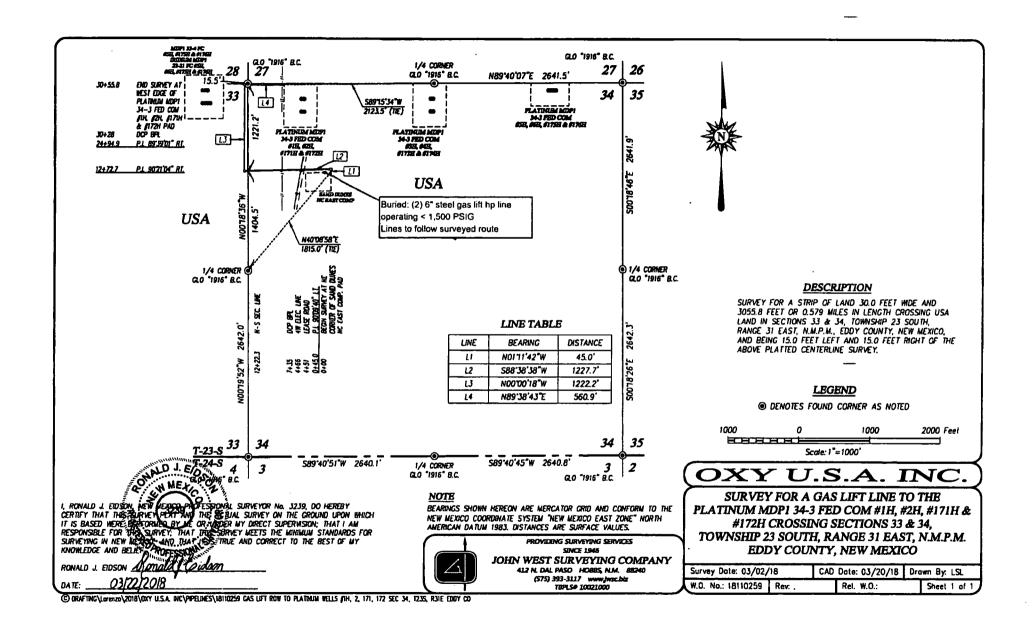
Platinum MDP1 34-3 Federal Com - One Mile AOR

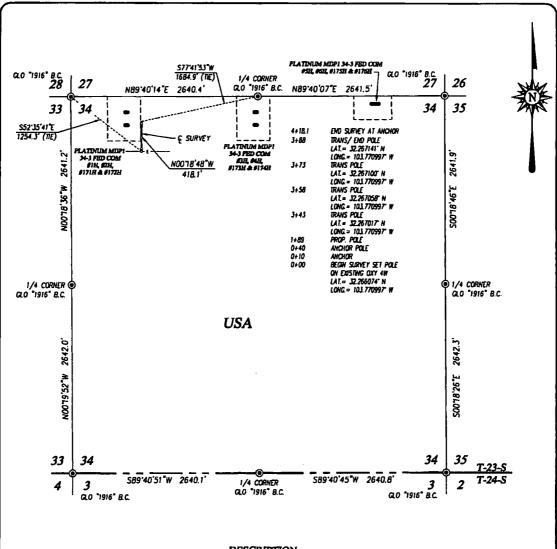












SURVEY FOR A STRIP OF LAND 30.0 FEET WIDE AND 418.1 FEET OR 0.079 MILES IN LENGTH CROSSING USA LAND IN SECTION 34, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

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

RONALD J. EIDSON<u>AI) *D*YMALA</u> 03/08/2018 DATE:

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

LEGEND

O DENOTES FOUND CORNER AS NOTED

1000	0	1000	2000 FEE1
HHH	Scale:	1"=1000"	

OXY U.S.A. INC.

SURVEY FOR AN ELECTRIC LINE TO THE PLATINUM MDP1 34-3 FED COM #1H, #2H, #171H & #172H CROSSING SECTION 34, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Survey Date: 02/15/18 CAD Date: 03/06/18 | Drawn By. LSL W.O. No.: 18110204 Rev. Rel. W.O.: Sheet 1 of 1

<u>Platinum MDP1 34-3 Federal Com - Sand Dunes Platinum Development - Surface Production Facilities</u>

CTB Site

All wells will route to the Platinum CTB which will be composed of (3) tracts with the following dimensions: 600'x600', 200'x30', and 150'x150'.

Reference Plats:

(1) Terry Asel Surveying Company W.O. No: 180213PS-A Survey Date: 3/8/18 CAD: 3/27/18

Production Flowlines

Each well will have (3) surface laid 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. The flowlines will be routed to both the Silver CTB (existing site) and Platinum CTB. The wells will produce to only one of these CTBs at any given time.

Reference plats per well APD package

Gas Lift Compressor Site, Suction, and Injection Lines

Each well pad will have two (2) 6" buried gas lift supply lines operating at < 1500 PSIG branching off of a common 8" main line (existing).

Reference plats per well APD package

Salt Water Disposal

Produced water will be pumped into (2) 16" HDPE buried lines operating at less than 300 PSIG. Produced water will then be combined and pumped into (3) 16" HDPE buried lines operating at less than 300 PSIG which connects to the existing Sand Dunes disposal system. This produced water line will also connect to the OXY water treatment facility in Section 4 Township 24S Range 31E and will connect to the rest of the Sand Dunes disposal system. An additional (1) 16" HDPE buried line will be required to transfer treated water from treatment disposal water from treatment systems to ponds.

Reference Plats:

- (2) John West Surveying Company W.O. No: 17111174 Survey: 12/13/17 CAD: 2/5/18
- (1) John West Surveying Company W.O. No: 18110284 Survey: 3/9/18 CAD: 4/2/18

Gas Sales

Gas will flow into (2) 16" HDPE buried line operating at less than 300 PSIG. This gas line will interconnect to an existing pipeline routed to the Enterprise (3rd Party) tie-in point per the attached plat. Reference Plat:

(1) John West Surveying Company W.O. No: 18110262 Survey: 3/6/18 CAD: 3/22/18

Oil Sales

Oil will flow into (2) 6" Steel buried line operating at less than 300 PSIG. This oil line will interconnect to an existing pipeline routed to the North Corridor oil sales tie-in point per the attached plat.

Reference Plat

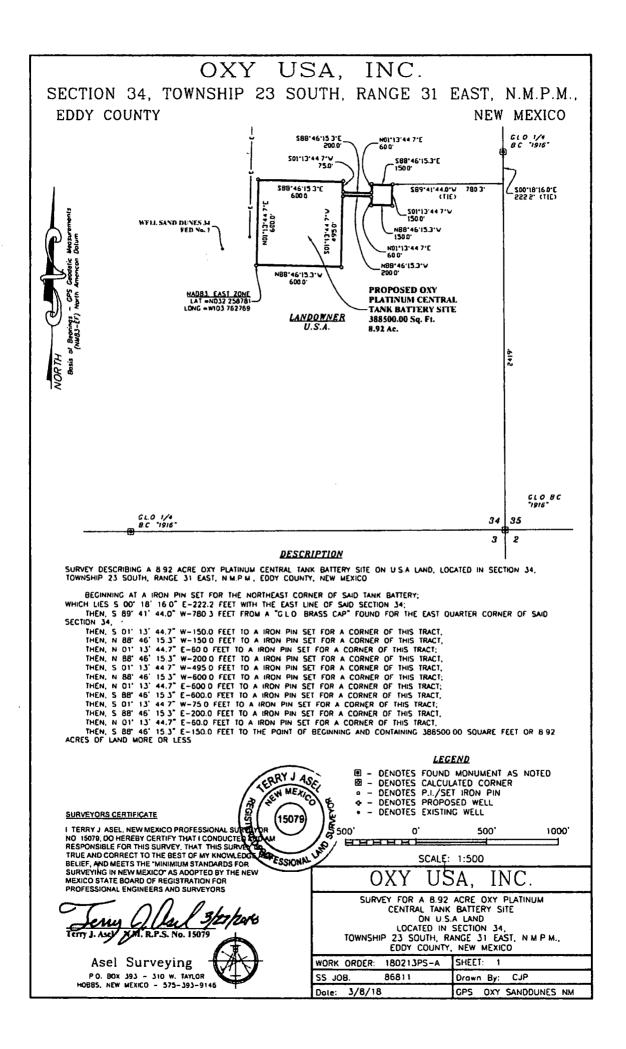
(1) John West Surveying Company W.O. No: 18110262 Survey: 3/6/18 CAD: 3/22/18

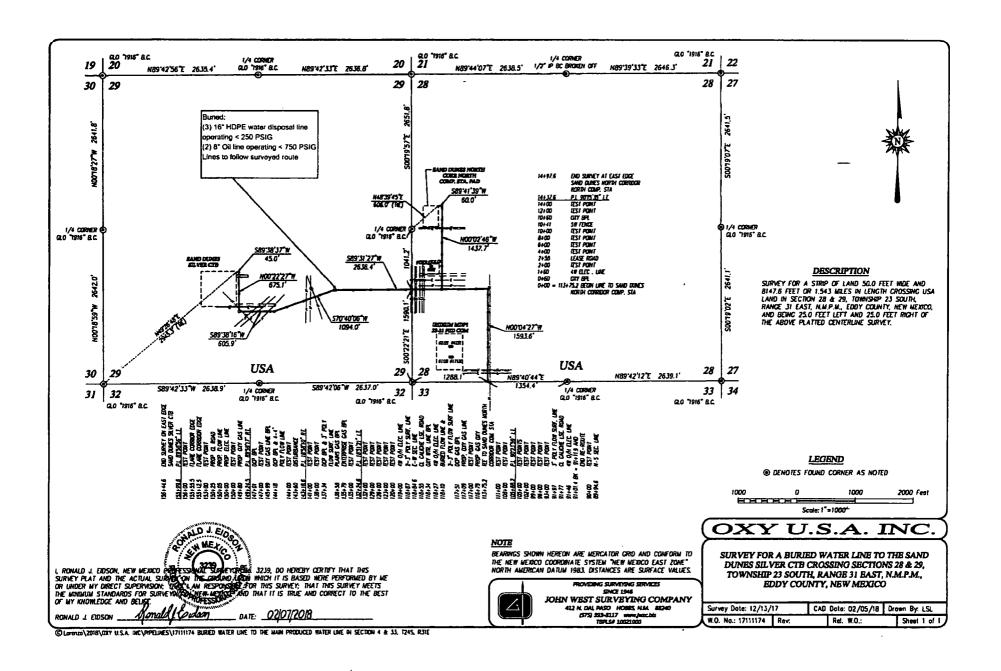
Electrical Systems

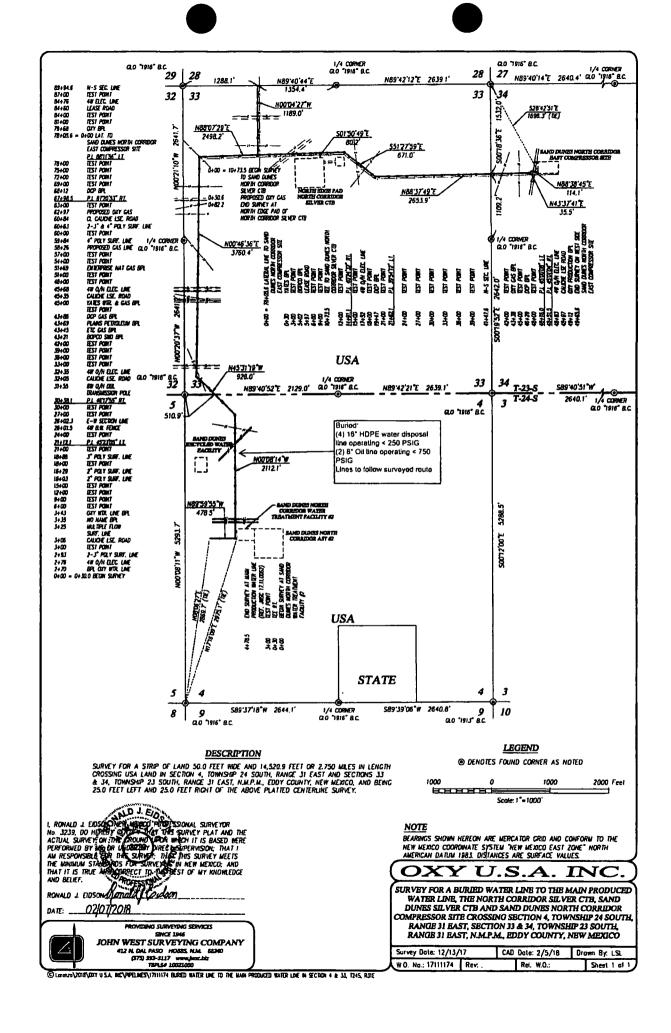
Electrical overhead connections are required from the existing electrical infrastructure to connect to the central tank battery.

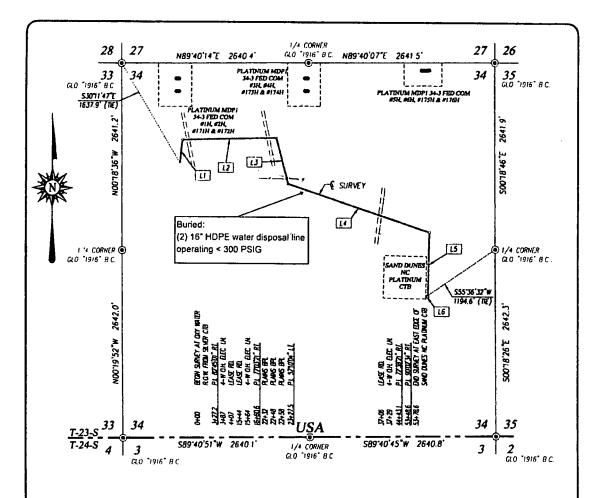
Reference Plat:

(1) John West Surveying Company W.O. No: 18110265 Survey: 3/6/18 CAD: 3/22/18









LINE	BÉARING	DISTANCE
LI I	N055740 E	327.2'
12	N88'42'41 E	1333.4"
U	51473'58'E	666.9
14	571 74 02 E	2115.6'
15	50174'19"W	905.5
16	N88'43'07'W	30.0

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 5378.6 FEET OR 1.019 MILES IN LENGTH CROSSING USA LAND IN SECTION 34, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATIED CENTERLINE SURVEY.

<u>NO</u>TE

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 PROTESSIONAL SURVEYOR NO. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLATENT THE ACTUAL SURVEY ON THE CROUND UPON WHICHER S. BREED, MERIC DEFICIENCE BY ME OR UNDER MY DIRECT SUPERVISION. THAT I MERESON BUT FOR THIS SURVEY MEETISCHE WINNING STRUDANDS FOR SURVEYING IN NEW MEXICOS AND THAT THIS THUE AND CORRECT TO THE BEST OF MY KNOWLEDGE UND BUTET.

PONALD J EIDSON STATESTATE OF 103/2018 PORTESTATE OF 103/2018 PORTESTATE OF 103/2018

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY 412 N. DAI PASO. HOBBS N.M. 88240 (575) 393-3117 www.jws.cbi. 18PL5# 10021000

LEGEND

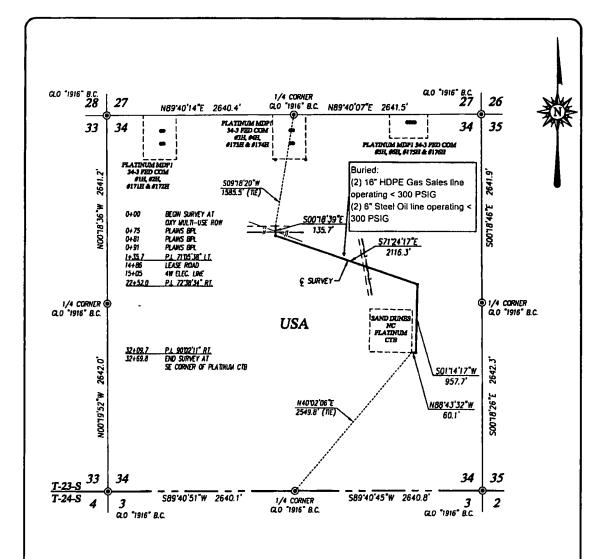
OENOTES FOUND CORNER AS NOTED

1000 0 1000 2000 FEET

| Scale: 1"= 1000"

OXY U.S.A. INC.

SURVEY FOR A BURIED WATER PIPELINE FROM THE OXY WATER R.O.W. TO THE SAND DUNES NC PLATINUM CTB CROSSING SECTION 34, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

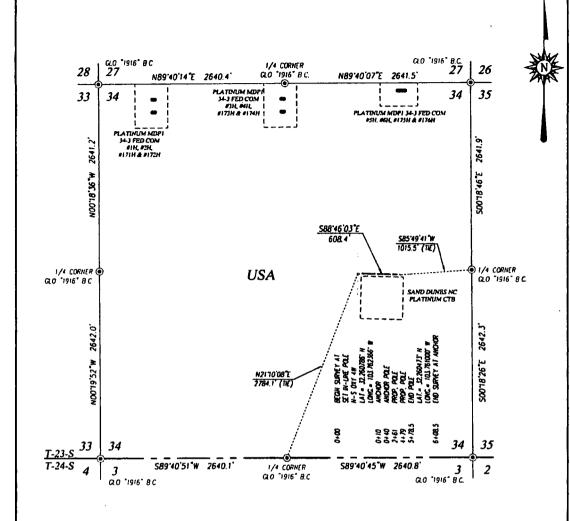


SURVEY FOR A STRIP OF LAND 30.0 FEET WIDE AND 3269.8 FEET OR 0.619 MILES IN LENGTH CROSSING USA LAND IN SECTION 34, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

NOTE BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO BEARINGS SHOWN HEREON ARE MERCATOR CRID AND CONFORM TO THE NEW MEXICO COORDINATE STREET, NEW MEXICO EAST ZONE" NORTH AMERICAN DATE OF THE STREET OF THE NORTH AMERICAN DATE OF THE STREET OF THE STREE LEGEND **O DENOTES FOUND CORNER AS NOTED** 1000 1000 2000 FEET Scale: 1"=1000" U.S.AINC. SURVEY FOR A OIL LINE RONALD J. EIDSON_1 TO THE SAND DUNES NC PLATINUM CTB DATE: **CROSSING SECTION 34,** TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. PROVIDING SURVEYING SERVICES SINCE 1946 EDDY COUNTY, NEW MEXICO JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jmsc.biz Survey Date: 03/06/18 CAD Date: 03/22/18 Drawn By: LSL

Rel. W.O.:

Sheet 1 of 1



SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 608.5 FEET OR 0.115 MILES IN LENGTH CROSSING USA LAND IN SECTION 34. TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

NOTE

- 1) 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.
- 2) LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM 1983 (NAD83).

LEGEND

O DENOTES FOUND CORNER AS NOTED

I. RONALD J. EIDSON, NEW MERICO PROFESSIONAL SURVEYOR NO. 3239.

DO HEREBY CERTIFY THAT FORD SURVEY DEO AND THE ACTUAL SURVEY ON THE CROUND UPON ANGLET I, IS BROSED WERE FOR THIS SURVEY. THAT THIS SURVEY MEETS THE WARMAN STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT AT THE BEST OF MY KNOWLD AND THAT AND CORRECT TO THE BEST OF MY KNOWLD AND BELLE.

1000 2000 FEET HOR HORSE Scale: 1 = 1000

4/12/2018

DXY U.S.AINC

SURVEY FOR AN ELECTRIC LINE TO SAND DUNES NC PLATINUM CTB **CROSSING SECTION 34.** TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

Survey Date: 03/06/18 W.O. No : 18110265 Rev. CAD Date: 03/22/18 Drown By: LSL Ref W.O: Sheet 1 of 1

PROVIDING SURVEYING SERVICES STNCE 1946

JOHN WEST SURVEYING COMPANY 417 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

Prepared by: Dave Andersen 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	Mine Industrial	<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 & SP-1279</u> <u>A</u>	<u>C-100</u>



	GRHI	1C.	
NMOSE WELL NUMBER	WELL COMMON NAME	LAND 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.

NMOSE WELL NUMBER	WELL COMMON NAME	LAND	GPS LOCATION
		OWNERSHIP	
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 Bam_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 - 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.

	GRR Inc.		
NMOSE WELL NUMBER	WELL COMMON NAME	LAND 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°
L-1880S-2	HB Intrepid well #7	PRIVATE	32.842212° -103.621299°
L-1880S-3	HB Intrepid well #8	PRIVATE	32.852415° -103.620405°
L-1881	HB Intrepid well #1	PRIVATE	32.829124° -103.624139°
L-1883	HB Intrepid well #4	PRIVATE	32.828041° -103.607654°
L-3887	Northcutt2 (Tower or Pond well)	PRIVATE	32.689036°-103.472437°
L-5434	Northcutt5 (State)	STATE	32.694074°-103.405111°
L-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 OSE)	Mobley 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°
AMAX Mine Industrial	Mosaic Industrial Water	N/A	VARIOUS TAPS
WAG Mine Industrial	Mosaic Industrial Water	N/A	VARIOUS TAPS
HB Mine Industrial	Intrepid Industrial Water	N/A	VARIOUS TAPS

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

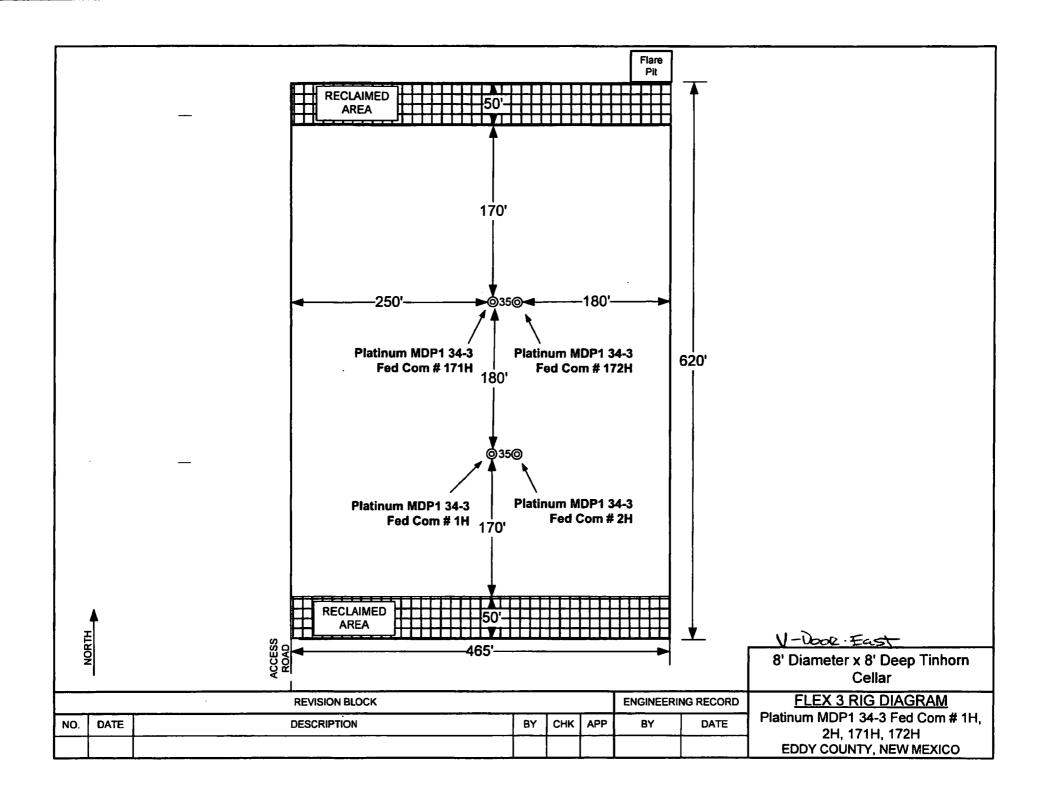
Major Source: Unknown at this time; need coordinates to determine major source

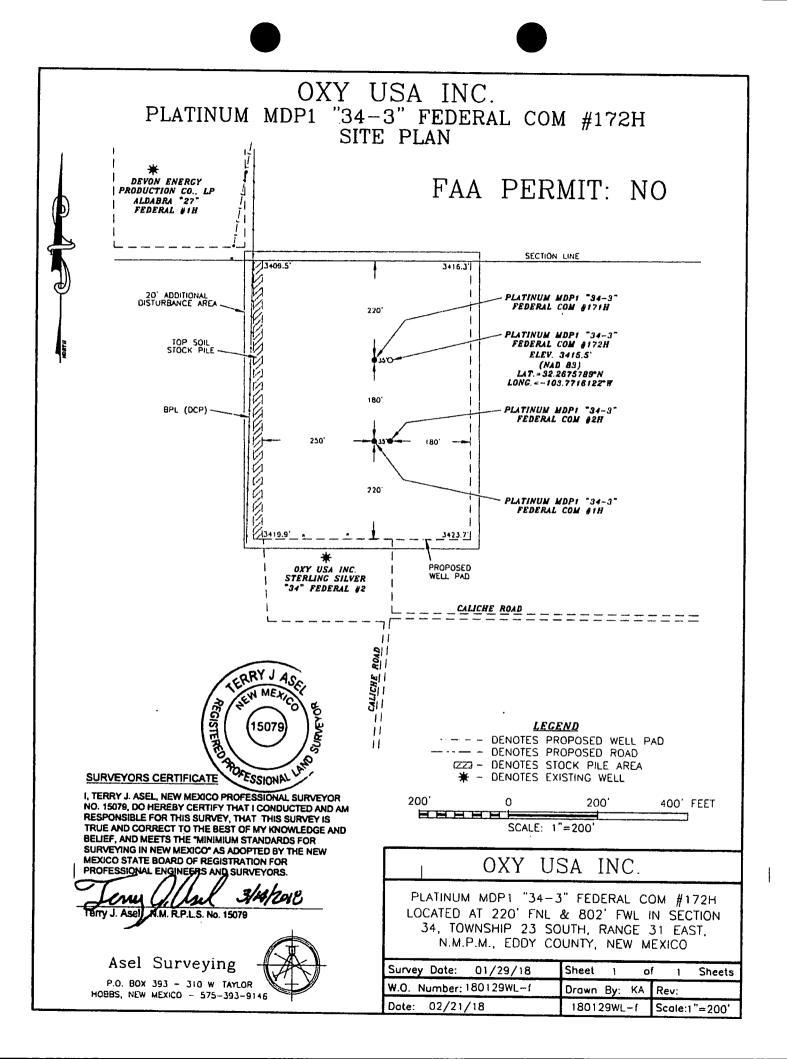
Secondary Source: Unknown at this time; needs coordinates to determine secondary source

Peaches

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

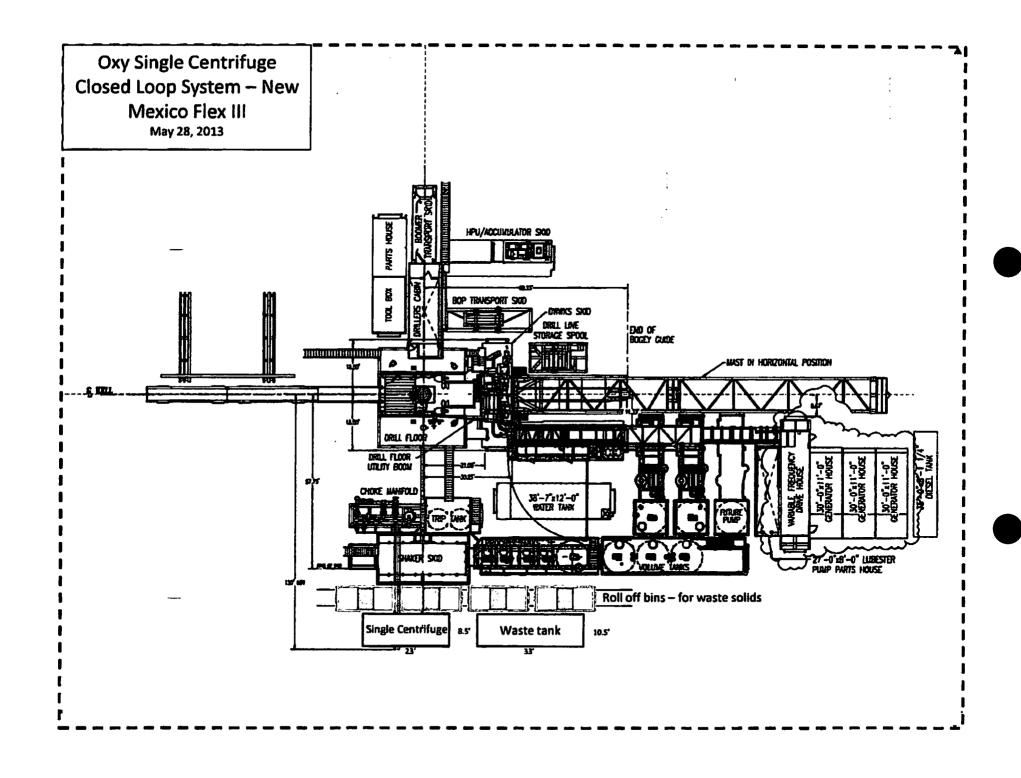
Secondary Source: Unknown at this time; needs coordinates to determine secondary source



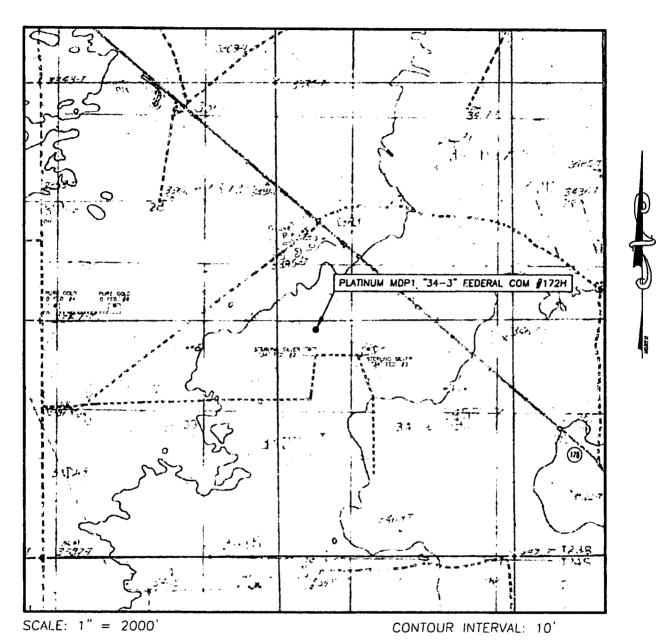


Single Centrifuge Waste tank 31 85' Slide for solids discharge **Primary Shakers** Return to active Suction Well Head Oxy Single Centrifuge Closed Loop System - New Mexico Flex III

May 28, 2013



LOCATION VERIFICATION MAP



SEC. 34 TWP. 23-S RGE. 31-E SURVEY_____N.M.P.M.

COUNTY____EDDY

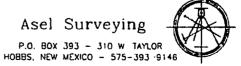
DESCRIPTION 220' FNL & 802' FWL

ELEVATION 3415.5'

OPERATOR OXY USA INC.

LEASE PLATINUM MDP1 "34-3" FEDERAL COM #172H

U.S.G.S. TOPOGRAPHIC MAP LOS MEDANOS, N.M.



AERIAL MAP



SCALE: NOT TO SCALE

 SEC. 34 TWP. 23-S RGE. 31-E

 SURVEY N.M.P.M.

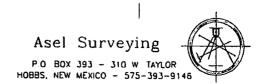
 COUNTY EDDY

 DESCRIPTION 220' FNL & 802' FWL

 ELEVATION 34 15.5'

 OPERATOR OXY USA INC.

LEASE PLATINUM MDP1 "34-3" FEDERAL COM #172H





en a

OXY U.S.A. INC.

NEW MEXICO STAKING FORM

Date Staked: _	1-15-18
Lease / Well Name:	PLATINUM MOPI 34-3 Fed COM # 172H
Legal Description: _	270' FNL 802' FWL SEL 34 T235 R31E
Latitude: _	32° /6' 03.28" NAD 83
Longitude:	-103° 46′ 17.80″ NAD83
х:	714.957.98 NAD 83
Y: _	461532.64 NAD 83
Elevation:	3415.5 NAD 83
Move information:	
County:	Eddy
Surface Owner	BLM
Nearest Residence:	
Nearest Water Well:	
	EAST
Top soil:	Wast
Road Description:	
New Road:	
Upgrade Existing Road:	
Interim Reclamation:	50' NOrTH
Source of Caliche:	Tarris BASCATT-RIM JIM WILSON - 1) XU
Onsite Attendees:	Tessie BasseTT-BLM Jim Wilson-Oxy Swea Asel Survey
DATE: _	1-25-18

Surface Use Plan of Operations

Operator Name/Number: OXY USA Inc. – 16696

Lease Name/Number: Platinum MDP1 34-3 Federal Com #172H

Pool Name/Number: Purple Sage Wolfcamp 98220

Surface Location: <u>220 FNL 802 FWL NWNW (D) Sec 34 T23S R31E - NMNM043744</u>

Bottom Hole Location: <u>180 FSL 1260 FWL SWSW (M) Sec 3 T24S R31E - NMNM055142</u>

1. Existing Roads

- a. A copy of the USGS "Los Medanos, 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 1/29/18, certified 3/14/18.
- c. Directions to Location: From the intersection of NM State Hwy 128 and CR 787 (Twin Wells Rd), go southeast on SH 128 for 1.1 miles. Turn right on caliche road and go south for 1.8 miles. Turn left and go east for 1.1 miles. Turn left and go north for 0.2 miles to location.

2. New or Reconstructed Access Roads:

a. No new access road will be built.

b. Surfacing material: N/Ac. Maximum Grade: N/Ad. Turnouts: None needede. Drainage Design: N/A

f. Culverts: None needed

g. Cut and fills: N/A

h. Gates or cattleguards: none required

i. Blade, water & repair existing caliche road as needed.

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 Sand Dunes Silver/Platinum 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 to follow surveyed route. Survey of a strip of land 30' wide and 6784.5' in length crossing USA Land in Sections 34 T23S R31E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey or a survey of a strip of land 30' wide and 5179.1' in length crossing USA Land in Sections 33 & 34 T23S R31E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey. Two–6" steel gas lift hp line operating <1500 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 3055.8' in length crossing USA Land in Sections 33 & 34 T23S R31E, 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 418.1' in length crossing USA land in Sections 34 T23S R31E 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 Sand Dunes MDP1 Platinum Surface Production Facilities.

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.

OXY USA Inc. - Platir.

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 pickup 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 - East

CL Tanks - North

Pad - 465' X 620' - 4 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 U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Mark & Annette McCloy, P.O. Box 795, Tatum, NM 88267. They will be notified of our intention to drill prior to any activity.

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 PA. Payment to be determined by BLM. This well shares the same pad as the Platinum MDP1 34-3 Federal Com #1H, 2H, 171H.

Copy of this application will be furnished 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:

Leo Ortega
Operations Superintendent
1502 West Commerce Dr.
Carlsbad, NM 88220
Office – 575-628-4012
Cellular – 575-706-8995

Jim Wilson Operation Specialist P.O. Box 50250 Midland, TX 79710 Cellular – 575-631-2442 Cuong Q. Phan Asset Manager P.O. Box 4294

Houston, TX Carlsbad, NM 88220

Office - 713-513-6645 Cellular - 281-832-0978

Michael Walton RMT Lead P.O. Box 4294 Houston, TX 77210 Office – 713-366-5526 Cellular – 281-814-2971



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

PWD surface owner: PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Produced Water Disposal (PWD) Location:

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 well mineral owner:

Would you like to utilize Unlined Pit PWD options? 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 Dissol that of the existing water to be protected?	lved 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 PWD discharge volume (bbl/day):	

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 08/23/2018

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: