Form 3160-5 (June 2015)

# UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT Carlsbad Fied (as find)
SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter a OCD Artesiain, Allottee or Tribe Name

abandoned wei	I. Use form 3160-3 (APD)	for such proposals.		O Marian, Amorree of	Tribe Name	
SUBMIT IN 1	RIPLICATE - Other instru	uctions on page 2		7. If Unit or CA/Agree	ment, Name and/or No.	
I. Type of Well  ☑ Oil Well ☐ Gas Well ☐ Oth	er			8. Well Name and No. CEDAR CANYON	23-24 FEDERAL 32H	
2. Name of Operator Contact: DAVID STEWART OXY USA INC. E-Mail: david_stewart@oxy.com				9. API Well No. 30-015-44180		
3a. Address P.O. BOX 50250 MIDLAND, TX 79710		3b. Phone No. (include area code Ph: 432-685-5717	)	10. Field and Pool or E PIERCE CROSS	Exploratory Area SING BN SPRG E	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)			11. County or Parish, S	State	
Sec 22 T24S R29E NENE 520 32.208802 N Lat, 103.964305				EDDY COUNTY	′, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES) T	O INDICATE NATURE C	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION			
➤ Notice of Intent	☐ Acidize	☐ Deepen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclam	ation	■ Well Integrity	
☐ Subsequent Report	Casing Repair	■ New Construction	☐ Recomp	olete	Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	□ Tempor	arily Abandon	Change to Original A PD	
	☐ Convert to Injection	□ Plug Back	☐ Water I	Disposal		
Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final COXY USA Inc. respectfully required that the site is ready for final complete in Mud Program a. Replace MMH with water based on the site is ready for final complete in Mud Program and Replace MMH with water based on the site is ready for final complete in Mud Program and Replace MMH with water based on the site is ready for final complete in Mud Program and Replace MMH with water based on the site is ready for final complete in Mud Program and Replace MMH with water based on the site is ready for final complete in Mud Program and Replace in Mud Program and Replac	operations. If the operation resulandonment Notices must be filed in all inspection.  Juests approval for the follo	Its in a multiple completion or rec l only after all requirements, inclu- wing changes from the app	ompletion in a r ding reclamation	new interval, a Form 3166 n, have been completed a  I NM OIL CON ARTESIA	O-4 must be filed once nd the operator has  USERVATION DISTRICT	
b. Replace Brine & MMH syste	·		diate Hole fro	•	<b>6</b> 70-7	
to ICP.  c. Raise expected Mud Weigh	t range from 8 6-9 2 ppg to	9 5-11 5 ppg due to weigh	ts seen in red	RECI	EIVED	
offsets.	trange nom ere erz ppg te	olo / no ppg ddo to wolgh		, o		
, d. OXY will make the change of	contingent upon the vendor	being ready to support the	rig. If the	Accepted for rec	ord - NMOCD	
14. I hereby certify that the foregoing is	Electronic Submission #37 For OXY	7177 verified by the BLM We USA INC., sent to the Carls ocessing by DEBORAH MCK	bad			
Name (Printed/Typed) DAVID ST			GULATORY	· ·		
Signature (Electronic S	ubmission)	Date 05/24/2	MPPR	CAED		
	THIS SPACE FOR	R FEDERAL OR STATE	ÓFFICE U	SE		
Approved By  Conditions of approval, if any, we attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conductive of the second conductive of the	itable title to those rights in the stoct operations thereon.  U.S.C. Section 1212, make it a cr	ubject lease Office Office Office	CARLSBAD F Fwillfully to ma	P 2017 FENGINEER  D MANAGEMENT HELD CT-10E Ike to any department or	Date 6/08/2017	
States any false, fictitious or fraudulent s	tatements or representations as to	any matter within its jurisdiction				

#### Additional data for EC transaction #377177 that would not fit on the form

#### 32. Additional remarks, continued

vendor is not ready to support the rig, OXY will continue with the current MMH system that was permitted.

- e. As discussed on 04/12/17, Oxy proposes to drill out the surface casing shoe with a Direct Emulsion Water Based Mud which will consist of an external saturated brine phase with pH above 10 at all times, from 400'?ICP. This will eliminate the need for two mud systems, to manage both the salt and losses circulation interval in the intermediate hole section.
- 2. 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.
- 3. Request a variance from the 0.422" clearance requirement on each side of the casing. a. Run 5-1/2" 20# P-110 DQX with a Connection OD of 6.05" inside of our 7-5/8" casing (Nominal ID: 6-7/8" and Drift ID: 6-3/4").
- b. The 5-1/2" string will be used as a tie-back above the 4-1/2" liner and will remain un-cemented. The only cemented portion of the well will be the liner, which will be cemented a minimum of 100' back into the 7-5/8" casing.

Please see attached for detailed information.

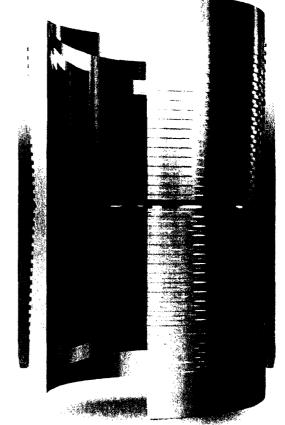
- All previous COAn still apply. Additional COA in not required.

## PERFORMANCE DATA

TMK UP DQX	5.500 in	20.00 lbs/ft	P-110
Tochnical Data Sheet			

Tubula Parameters				Lines of the state of the state of	10 1 WA 1 WA 21 BA
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	ın			
Nom Pipe Body Area	5.828	in²			
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Connection by subdec		
Connection OD	6 950	in
Connection ID	4.778	in
Make-Up Loss	4 122	in
Critical Section Area	5.828	in²
Tension Efficiency	100.0	0,
Compressio Efficiency	100.0	/0
Yield Load In Tension	641,000	lbs
Min. Internal Yield Press re	12 600	psi
Collapse Pressure	11 1 JC	psı
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Min. Make-Up Tirrque	11.600	ft-lbs
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Max Make C Torque	141 0	ft-lbs



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#### OXY USA Inc. - Cedar Canyon 23-24 Federal 32H

#### OXY respectfully requests approval for the following changes from the approved permit:

- 1. Change in Mud Program
  - o Replace MMH with water based Spud Mud in Surface Hole
  - Replace Brine & MMH system with Direct Emulsion Water Based Mud in Intermediate Hole from 400ft to ICP.
  - Raise expected Mud Weight range from 8.6-9.2 ppg to 9.5-11.5 ppg due to weights seen in recent offsets.
  - OXY will make the change contingent upon the vendor being ready to support the rig. If the vendor is not ready to support the rig, OXY will continue with the current MMH system that was permitted.

### **Mud Program**

Depth From (ft)	Depth To (ft)	Fluid Type	Mud Weight (ppg)	Funnel Visc (sec/qt)	API Fluid Loss
0	400	Spud Mud	8.4-8.6	40-50	N/C
400	9517	Direct Emulsion WBM	9.0-10.0	28-38	N/C
9517	17649	ОВМ	9.5-11.5	28-34	<15

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

As discussed on 04/12/17, Oxy proposes to drill out the surface casing shoe with a Direct Emulsion Water Based Mud which will consist of an external saturated brine phase with pH above 10 at all times, from 400' – ICP. This will eliminate the need for two mud systems, to manage both the salt and losses circulation interval in the intermediate hole section.

- 2. 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.
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## 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