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If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and the vertical depths of all pertinent markers and zones. Attach the Boon durd will be performed or provide the Boon No. on file with BL/M/BL. Required subsequent reports must be filed with 10 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed with subset filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection. OXY USA Inc. respectfully requests approval for the following changes to the approved APD: Amend casing/commenting program - Amend for surface casing setting depth and run production liner. OXY USA Inc. respectfully requests approval for the following changes to the approved APD: Amend casing/commenting program - Amend for surface casing setting depth and run production liner. OXY is requesting permission to have minimum fill of cernet behind -1/2" liner to be 100' into the		Convert to Injection	🗖 Plug B:	ack	🗖 Water I	Disposal	
IN SPECIE TO THE WORK OF THE SET HOLE SF Coll-7.6 SF Burst-1.54 SF Body Ten-2.89 SF Joint Ten-3.23 CONDITIONS OF APPROVAL Production Casing - 7-5/8" new casing @ 0-8147'M, 9-7/8" hole IN SPECIFIC Submission #359314 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by MUSTAFA HAQUE on 12/13/2016 (17MH0021SE) Name (Printed/Typed) DAVID STEWART Title REGULATORY ADVISOR Holf TecOID Signature (Electronic Submission) Date 11/30/2016 Accepted OCD THIS SPACE FOR FEDERAL OR STATE OFFICE USE	following completion of the involved testing has been completed. Final At determined that the site is ready for fi OXY USA Inc. respectfully req Amend casing/cementing prog OXY is requesting permission production casing. The reason the same 7-5/8" mainbore in the	d operations. If the operation res bandonment Notices must be file inal inspection. quests approval for the foll- gram - Amend for surface to have minimum fill of ce on for this is so OXY can co	ults in a multiple co d only after all req owing changes casing setting d ment behind 4- me back and do	ompletion or reco uirements, includ to the approve lepth and run <u>1/2" liner to be</u> evelop shallov	mpletion in a t ing reclamatio ed APD: production I a 100' into to ver benches	new interval, a Form 316 n, have been completed a iner. De -D refer to t from well bor	10-4 must be filed once and the operator has
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Electronic Submission #359314 verified by the BLM Well Information System For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by MUSTAFA HAQUE on 12/13/2016 (17MH0021SE) Image: For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by MUSTAFA HAQUE on 12/13/2016 (17MH0021SE) Image: For OXY USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by MUSTAFA HAQUE on 12/13/2016 (17MH0021SE) Image: For OXY USA INCORPORATED, sent to the Carlsbad Name (Printed/Typed) DAVID STEWART Title REGULATORY ADVISOR Image: For OXY USA INCORPORATED, sent to the Carlsbad Signature (Electronic Submission) Date 11/30/2016 Image: For OXY USA INCORPORATED, sent to the Carlsbad Approved By_MUSTAFA HAQUE TitlePETROLEUM ENGINEER Date 12/13/2 Conditions of approval, if any, are attached. Approval of this notice does not warrant or retrify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office Carlsbad		w casing @ 0-8147'M, 9-7		UURDIN			
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Approved By_MUSTAFA HAQUE	14. I hereby certify that the foregoing is	Electronic Submission #3 For OXY USA nmitted to AFMSS for proce	INCORPORATE ssing by MUSTA	Ď, sent to the \FA HAQUE or	Carlsbad 12/13/2016	n System (17MH0021SE)	tor record
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** BLM REVISED **

Additional data for EC transaction #359314 that would not fit on the form

32. Additional remarks, continued

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a. 7-5/8" 26.4# L-80 BTC new csg @ 0-7200'M SF Coll-1.19 SF Burst-1.29 SF Body Ten-2.03 SF Joint Ten-2.03 b. 7-5/8" 29.7# L-80 BTC new csg @ 7200-8147'M SF Coll-1.13 SF Burst-1.43 SF Body Ten-4.62 SF Joint Ten-4.7 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 at +/- 2933' in case a contingency second stage is required for cement to reach surface. If cement circulates on 1st stage, cancellation cone will be dropped.

Production Liner 4-1/2" 11.6# P-110 DQX new csg @ 8047-13492'M 6-3/4" hole SF Coll-1.64 SF Burst-1.2 SF Body Ten-1.91 SF Joint Ten-2.05

Surface - Circulate cement w/ 296sx CI C cmt w/ accelerator, 14.8ppg 1.35 yield, 500# CS in 6.5hr, 50% Excess

Production - Circulate cement w/ 860sx CI C cmt w/ retarder, 10.2ppg 3.05 yield, 500# CS in 15.07hr, 75% Excess followed by 163sx CI H cmt w/ retarder, dispersant, salt, 13.2ppg 1.65 yield, 500# CS in 12.57hr, 20% Excess. Contingency 2nd Stage - Circulate cement to surface w/ 460sx CI C cmt w/ accelerator, retarder, 12.9ppg 1.85 yield, 500# CS in 12.44hr, 75% Excess followed by 182sx CI C cmt, 14.8ppg 1.33 yield, 500# CS in 6.31hr, 125% Excess.

Liner - Cement w/ 532sx CI H cmt w/ retarder, dispersant, salt, 13.2ppg 1.63 yield, 500# CS in 15.15hr, 15% Excess. TOC @ 8047'

Mud progra	ım -			
Depth	Mud WT	Vis Sec	Fluid L	oss Type
0 - 450'	8.4-8.6	40-60	N/C	EnerSeal (MMH)
450-2933'	9.8-10.0	35-45	N/C	Brine
2933-8147	8.8-9.6	38-50	N/C	EnerSeal (MMH)
8147-13492	2' 8.8-9.6	35-50	N/C	OBM

Plan to drill the multi well pad in batch by section: all surface and intermediate/production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.

NM OIL CONSERVATION

PECOS DISTRICT

DEC 222016

CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	OXY USA Inc
LEASE NO.:	NM94651
WELL NAME & NO.:	21H-Cedar Canyon 29 Federal
SURFACE HOLE FOOTAGE:	1989'/N & 150'/E
BOTTOM HOLE FOOTAGE	1336'/N & 160'/W
LOCATION:	Section 29, T. 24 S., R. 29 E., NMPM
COUNTY:	Eddy County, New Mexico

All previous COAs still apply except for the following:

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

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

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. (For surface casing the BOP can be nippled up after the cement has reached 500 psi compressive strength.)

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

Medium cave/karst

Possible water flows in Castile and Salado. Posible lost circulation in Rustler, Salado and Delaware.

- 1. The 10-3/4 inch surface casing shall be set at approximately 450 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 10-3/4" 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.

The 7-5/8 inch intermediate casing must be kept liquid filled while running into hole to meet minimum BLM requirements for collapse.

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

Operator has proposed a contingency DV tool at 2933'. If operator circulates cement on the first stage, operator is approved to inflate the ACP and run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will inflate ACP and proceed with the second stage.

a. First stage to DV tool:

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- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate see A.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

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 (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.

3. The minimum required fill of cement behind the 4-1/2 inch production liner is:

Cement as proposed by operator. Operator shall provide method of verification. Excess calculates to 15% - Additional cement might be required.

4. 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.

MHH 12132016

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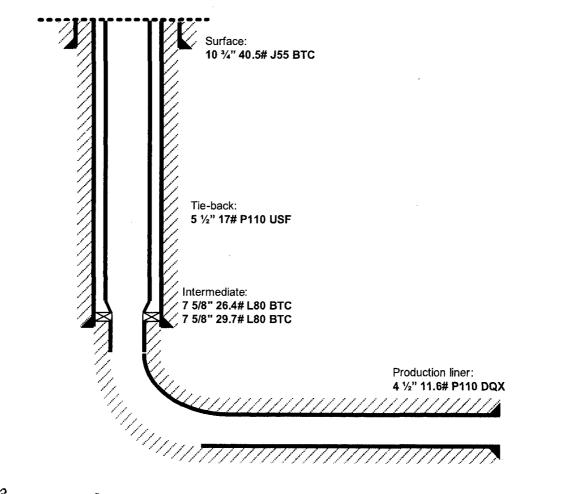
OXY USA WTP LP Cedar Canyon 29 Fed Com 2H

Below is a summary that describes the general operational steps to drill and complete well Cedar Canyon 29 Fed Com 2H:

- Drill 14 $\frac{3}{4}$ " hole x 10 $\frac{3}{4}$ " casing for surface section. Cement to surface.
- Drill 9 7/8" hole x 7 5/8" casing for intermediate section. Cement to surface.
- Drill 6 ³/₄" hole x 4 ¹/₂" liner for production section. Cement to top of liner, 100' inside 7 5/8" shoe.
- Release drilling rig from location.
- Move in workover rig and run a 5 ¹/₂" 17# P110 USF tie-back frack string and seal assembly (see connection specs below). Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
- Pump hydraulic fracture job.
- Flowback and produce well.

When a decision is made to develop a secondary bench from this wellbore, a workover rig will be moved to location. The workover rig will then retrieve the tie-back frack string and seal assembly before temporarily abandoning the initial lateral.

General well schematic:



- An Nincussed with operator regarding Bimilar caring change in ECH 351594

PERFORMANCE DATA

TMK UP ULTRA™ DQX Technical Data Sheet

Tubular Parameters

Critical Section Area

Compression Efficiency

Min. Internal Yield Pressure

Yield Load In Tension

Tension Efficiency

Collapse Pressure

Uniaxial Bending

Make-Up Torques Min. Make-Up Torque

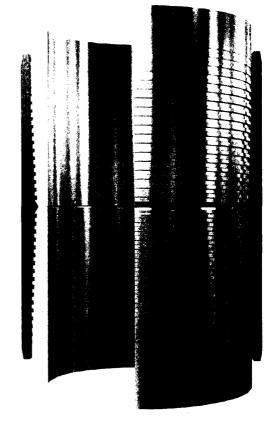
Opt. Make-Up Torque

Max. Make-Up Torque

Size	4.500	in
Nominal Weight	11.60	lbs/ft
Grade	P - 110	
PE Weight	11.35	lbs/ft
Wall Thickness	0.250	in
Nominal ID	4.000	in
Drift Diameter	3.875	in
Nom. Pipe Body Area	3.338	in²
Connection Parameters	 versideries - scenech is second in second in the second sec	anarita, i jangiang tini tur
Connection OD	5.000	in
Connection ID	4.000	in
Make-Up Loss	3.772	in

Minimum Yield	110,000	psi
Minimum Tensile	125,000	psi
Yield Load	367,000	lbs
Tensile Load	417,000	lbs
Min. Internal Yield Pressure	10,700	psi
Collapse Pressure	7,580	psi

P-110



Printed on: July-24-2015

⇒OTE.

Yield Torque

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