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

Sundry Print Report

02/02/2023

Well Name: OXBOW CC 17-8 FED COM

Well Location: T24S / R29E / SEC 17 / SESW / 32.21103 / -104.009519

County or Parish/State: EDDY / NM

Well Number: 2H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM94651

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001548281

Well Status: Drilling Well

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2709505

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/05/2023

Time Sundry Submitted: 08:02

Date proposed operation will begin: 02/13/2023

Procedure Description: Oxy USA Inc. respectfully requests to update the APD with the following changes: BHL move, TVD shift, and drill plan update with all 5.5” production casing. Old BHL: 20 FNL, 1260 FWL, D, Sec 8, T24S, R29E New BHL: 20 FNL, 500 FWL, D, Sec 8, T24S, R29E

NOI Attachments

Procedure Description

OxbowCC17_8FederalCom2H_TNSWedge441_5.500in_20.00ppf_P110CY_20230105080144.pdf

OxbowCC17_8FederalCom2H_TNSWedge461_5.500in_20.00ppf_P110CY_20230105080145.pdf

OxbowCC17_8FederalCom2H_DrillPlan_20230105080137.pdf

OxbowCC17_8FederalCom2H_DirectPlan_20230105080137.pdf

OxbowCC17_8FederalCom2H_13inADAPT_10.75in_7.625in_10x10_20230105080137.pdf

Oxbow_CC_17_8_Fed._Com__2H_c_102__Rev._C__FLAT_20230105080137.pdf

OxbowCC17_8FederalCom2H_DirectPlot_20230105080137.pdf

OxbowCC17_8FederalCom2H_TNSWedge425_5.500in_20.00ppf_P110CY_20230105080137.pdf

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Operator: OXY USA INCORPORATED

Conditions of Approval

Additional

OXBOW_CC_17_8_FED_COM_2H___COA_20230201104053.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STEPHEN JANACEK

Signed on: JAN 05, 2023 08:01 AM

Name: OXY USA INCORPORATED

Title: Regulatory Engineer

Street Address: 5 Greenway Plaza, Suite 110

City: Houston **State:** TX

Phone: (713) 497-2417

Email address: stephen_janacek@oxy.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 02/01/2023

Signature: KEITH IMMATTY

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-48281	50371 / 96473 / 11520	PIERCE CROSSING; BS / PIERCE CROSSING; BS EAST / CEDAR CANYON; BS

Property Code	Property Name	Well Number
321633	OXBOW CC "17_8" FEDERAL COM	2H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	2936.2'

Surface Location

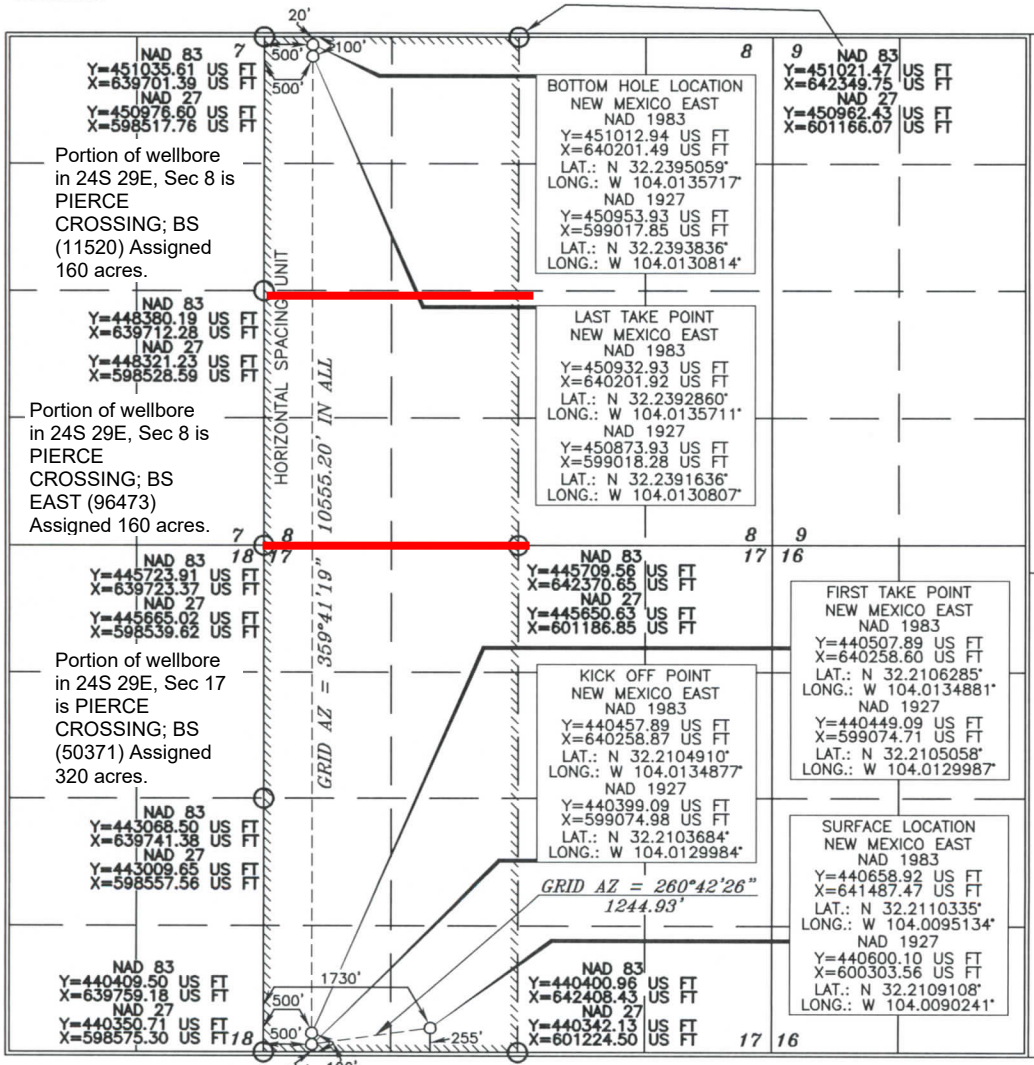
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	24 SOUTH	29 EAST, N.M.P.M.		255'	SOUTH	1730'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	24 SOUTH	29 EAST, N.M.P.M.		20'	NORTH	500'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640	Y		

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stephen Janacek — Signature
1/5/2023 — Date

STEPHEN JANACEK — Printed Name

STEPHEN_JANACEK@OXY.COM — E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

TERRY J ASEL — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

NOVEMBER 26, 2018 — Date of Survey

Signature and Seal of Professional Surveyor:

Terry J. Asel 11/13/2020

15079 — Certificate Number

WO# 181126WL-c (Rev. C) (KA)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	OXBOW CC 17-8 FED COM 2H
SURFACE HOLE FOOTAGE:	255'/S & 1730'/W
BOTTOM HOLE FOOTAGE	20'/N & 500'/W
LOCATION:	T-24S, R-29E, S-17. NMPM
COUNTY:	EDDY COUNTY, NEW MEXICO

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. CASING

Alternate Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **535** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **7-5/8** inch intermediate casing shall be set at approximately **7,149** feet. **KEEP CASING HALF FULL DURING RUN FOR COLLASPE SF.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

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

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

3. The **5-1/2** inch production casing shall be set at approximately **18,750** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

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

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

b. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

GENERAL REQUIREMENTS

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

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

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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
b. When the operator proposes to set surface casing with Spudder Rig
   - Notify the BLM when moving in and removing the Spudder Rig.

- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

KPI – 2/1/2023

Oxy USA Inc. - Oxbow CC 17_8 Federal Com 2H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	7787	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	18750	Deepest Expected Fresh Water (ft):	280

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	280	280	
Salado	595	595	Salt
Castile	1237	1237	Salt
Delaware	2789	2789	Oil/Gas/Brine
Bell Canyon	2841	2841	Oil/Gas/Brine
Cherry Canyon	3743	3721	Oil/Gas/Brine
Brushy Canyon	5052	4966	Losses
Bone Spring	6728	6560	Oil/Gas
Bone Spring 1st	7753	7510	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	535	0	535	10.75	45.5	J-55	BTC
Intermediate	9.875	0	7149	0	6956	7.625	26.4	L-80 HC	BTC
Production	6.75	0	18750	0	7787	5.5	20	P-110	Wedge 461

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

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

All Casing SF Values will meet or exceed those below			
SF Collapse	**SF Burst**	**Body SF Tension**	**Joint SF Tension**
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face 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 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	448	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	252	1.65	13.2	5%	5,302	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	822	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	914	1.38	13.2	25%	6,649	Circulate	Class H+Ret., Disper., Salt

Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:
Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
Land casing.
Fill pipe with kill weight fluid, and confirm well is static.
If well Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
   a. If well is not static notify BLM and kill well.
   b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
    a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	3M	Annular	✓	70% of working pressure	6956
		3M	Blind Ram	✓	250 psi / 3000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	3M	Annular	✓	70% of working pressure	7787
		3M	Blind Ram	✓	250 psi / 3000 psi	
			Pipe Ram			
			Double Ram	✓		
			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.

	Formation integrity test will be performed per Onshore Order #2.	
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.	

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:
- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

If the kill line is broken prior to skid, two tests will be performed.
1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.
1)Wellhead flange, co-flex hose, check valve, upper pipe rams

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	535	0	535	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	535	7149	535	6956	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	7149	18750	6956	7787	Water-Based or Oil-Based Mud	8.0 - 9.6	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

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	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3888 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	143°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

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
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 2 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.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. 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.	Yes

Total Estimated Cuttings Volume: 1254 bbls

Attachments
_x__ Directional Plan
_x__ H2S Contingency Plan
_x__ Flex III Attachments
_x__ Spudder Rig Attachment
_x__ Premium Connection Specs

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Oxbow CC 17-08 Federal Com
Well: Oxbow CC 17_8 Federal Com 2H
Wellbore: Wellbore #1
Design: Permitting Plan

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Azimuths to Grid North
True North: -0.17°
Magnetic North: 6.74°

Magnetic Field
Strength: 47853.1nT
Dip Angle: 59.90°
Date: 12/4/2019
Model: HDGM_FILE

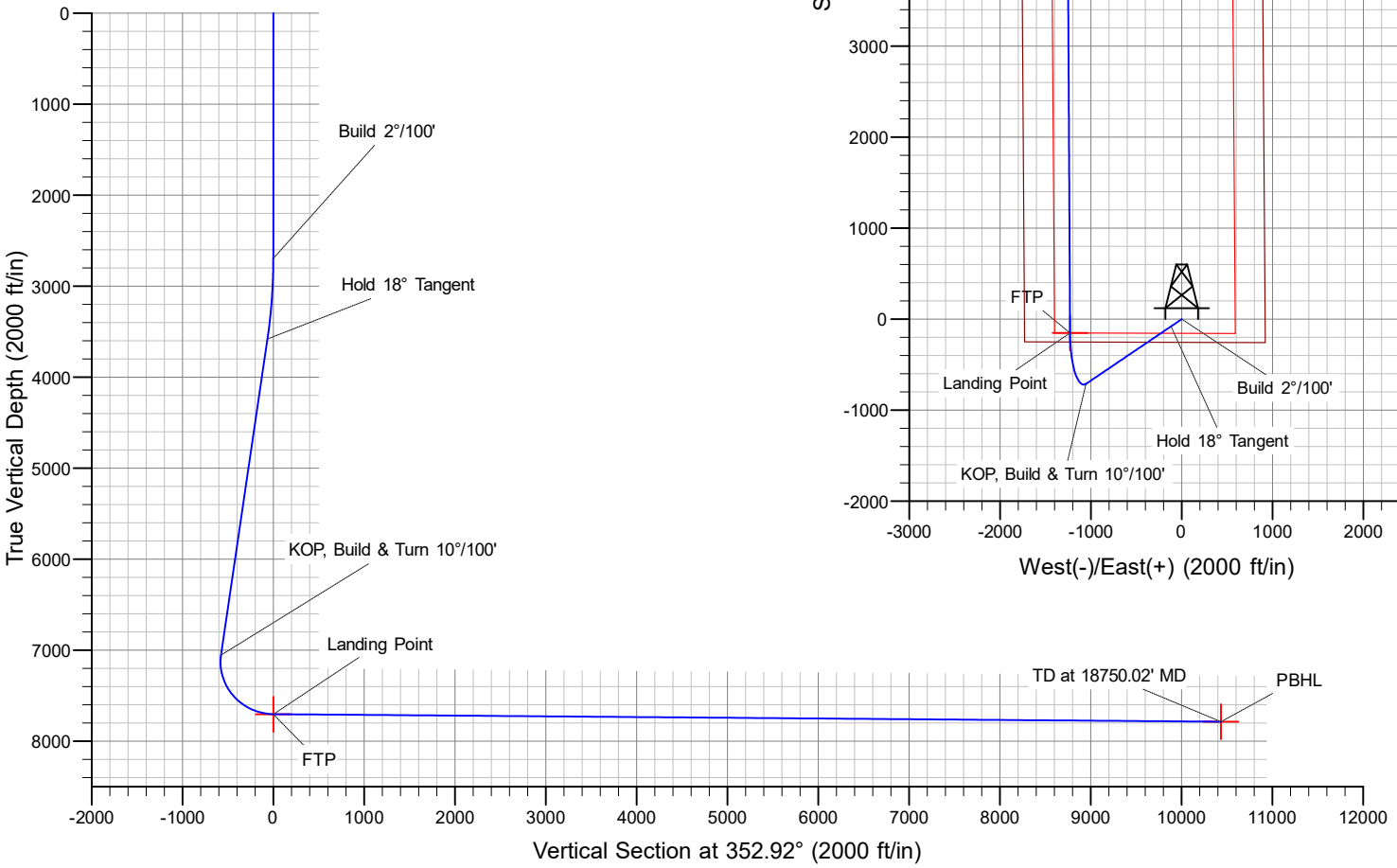
WELL DETAILS: Oxbow CC 17_8 Federal Com 2H

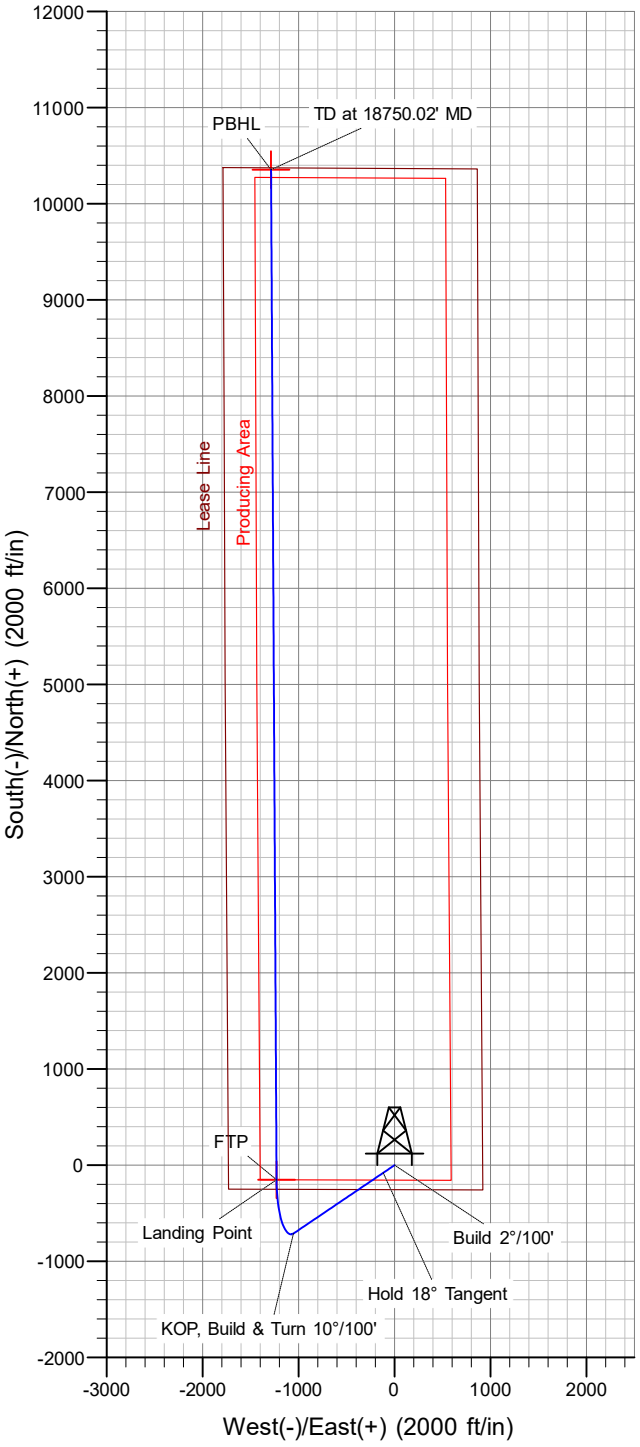
Ground Level: 2936.20

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440658.92	641487.47	32.211034	-104.009513

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2695.00	0.00	0.00	2695.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'
3594.97	18.00	235.98	3580.24	-78.44	-116.21	2.00	235.98	-63.52	Hold 18° Tangent
7249.26	18.00	235.98	7055.69	-710.19	-1052.14	0.00	0.00	-575.09	KOP, Build & Turn 10°/100'
8243.63	89.55	359.69	7704.00	-151.04	-1228.97	10.00	122.51	1.58	Landing Point
18750.02	89.55	359.69	7787.00	10354.86	-1286.08	0.00	0.00	10434.42	TD at 18750.02' MD





OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Oxbow CC 17-08 Federal Com
Oxbow CC 17_8 Federal Com 2H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

03 January, 2023

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2962.70ft
Site:	Oxbow CC 17-08 Federal Com	**North Reference:**	Grid
Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Oxbow CC 17-08 Federal Com

Site Position:		**Northing:**	440,994.67 usft	**Latitude:**	32.211937
From:	Map	**Easting:**	643,785.93 usft	**Longitude:**	-104.002079
Position Uncertainty:	49.91 ft	**Slot Radius:**	13.200 in		

Well Oxbow CC 17_8 Federal Com 2H

Well Position	**+N/-S**	0.00 ft	**Northing:**	440,658.92 usf	**Latitude:**	32.211034
	+E/-W	0.00 ft	**Easting:**	641,487.47 usf	**Longitude:**	-104.009514
Position Uncertainty		1.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	2,936.20 ft
Grid Convergence:		0.17 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/4/2019	6.92	59.90	47,853.10000000

Design Permitting Plan

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	352.92

Plan Survey Tool Program **Date** 1/3/2023

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,750.02	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM	
				OWSG MWD + HRGM	

Plan 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	
2,695.00	0.00	0.00	2,695.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,594.97	18.00	235.98	3,580.24	-78.44	-116.21	2.00	2.00	0.00	235.98	
7,249.26	18.00	235.98	7,055.69	-710.19	-1,052.14	0.00	0.00	0.00	0.00	
8,243.63	89.55	359.69	7,704.00	-151.04	-1,228.97	10.00	7.20	12.44	122.51	FTP (Oxbow CC
18,750.02	89.55	359.69	7,787.00	10,354.86	-1,286.08	0.00	0.00	0.00	0.00	PBHL (Oxbow CC

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
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Site:	Oxbow CC 17-08 Federal Com	**North Reference:**	Grid
Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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
2,695.00	0.00	0.00	2,695.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.10	235.98	2,700.00	0.00	0.00	0.00	2.00	2.00	0.00
2,800.00	2.10	235.98	2,799.98	-1.08	-1.59	-0.87	2.00	2.00	0.00
2,900.00	4.10	235.98	2,899.83	-4.10	-6.08	-3.32	2.00	2.00	0.00
3,000.00	6.10	235.98	2,999.42	-9.07	-13.44	-7.35	2.00	2.00	0.00
3,100.00	8.10	235.98	3,098.65	-15.99	-23.69	-12.95	2.00	2.00	0.00
3,200.00	10.10	235.98	3,197.39	-24.84	-36.80	-20.11	2.00	2.00	0.00
3,300.00	12.10	235.98	3,295.51	-35.61	-52.75	-28.83	2.00	2.00	0.00
3,400.00	14.10	235.98	3,392.91	-48.29	-71.54	-39.10	2.00	2.00	0.00
3,500.00	16.10	235.98	3,489.45	-62.86	-93.13	-50.90	2.00	2.00	0.00
3,594.97	18.00	235.98	3,580.24	-78.44	-116.21	-63.52	2.00	2.00	0.00
3,600.00	18.00	235.98	3,585.02	-79.31	-117.50	-64.22	0.00	0.00	0.00
3,700.00	18.00	235.98	3,680.13	-96.60	-143.11	-78.22	0.00	0.00	0.00
3,800.00	18.00	235.98	3,775.24	-113.88	-168.72	-92.22	0.00	0.00	0.00
3,900.00	18.00	235.98	3,870.34	-131.17	-194.33	-106.22	0.00	0.00	0.00
4,000.00	18.00	235.98	3,965.45	-148.46	-219.94	-120.22	0.00	0.00	0.00
4,100.00	18.00	235.98	4,060.55	-165.75	-245.56	-134.22	0.00	0.00	0.00
4,200.00	18.00	235.98	4,155.66	-183.04	-271.17	-148.22	0.00	0.00	0.00
4,300.00	18.00	235.98	4,250.77	-200.32	-296.78	-162.22	0.00	0.00	0.00
4,400.00	18.00	235.98	4,345.87	-217.61	-322.39	-176.22	0.00	0.00	0.00
4,500.00	18.00	235.98	4,440.98	-234.90	-348.00	-190.22	0.00	0.00	0.00
4,600.00	18.00	235.98	4,536.08	-252.19	-373.62	-204.22	0.00	0.00	0.00
4,700.00	18.00	235.98	4,631.19	-269.48	-399.23	-218.21	0.00	0.00	0.00
4,800.00	18.00	235.98	4,726.30	-286.76	-424.84	-232.21	0.00	0.00	0.00
4,900.00	18.00	235.98	4,821.40	-304.05	-450.45	-246.21	0.00	0.00	0.00
5,000.00	18.00	235.98	4,916.51	-321.34	-476.06	-260.21	0.00	0.00	0.00
5,100.00	18.00	235.98	5,011.61	-338.63	-501.68	-274.21	0.00	0.00	0.00
5,200.00	18.00	235.98	5,106.72	-355.91	-527.29	-288.21	0.00	0.00	0.00

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Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
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Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
5,300.00	18.00	235.98	5,201.83	-373.20	-552.90	-302.21	0.00	0.00	0.00
5,400.00	18.00	235.98	5,296.93	-390.49	-578.51	-316.21	0.00	0.00	0.00
5,500.00	18.00	235.98	5,392.04	-407.78	-604.12	-330.21	0.00	0.00	0.00
5,600.00	18.00	235.98	5,487.14	-425.07	-629.74	-344.21	0.00	0.00	0.00
5,700.00	18.00	235.98	5,582.25	-442.35	-655.35	-358.21	0.00	0.00	0.00
5,800.00	18.00	235.98	5,677.36	-459.64	-680.96	-372.21	0.00	0.00	0.00
5,900.00	18.00	235.98	5,772.46	-476.93	-706.57	-386.21	0.00	0.00	0.00
6,000.00	18.00	235.98	5,867.57	-494.22	-732.18	-400.20	0.00	0.00	0.00
6,100.00	18.00	235.98	5,962.67	-511.51	-757.80	-414.20	0.00	0.00	0.00
6,200.00	18.00	235.98	6,057.78	-528.79	-783.41	-428.20	0.00	0.00	0.00
6,300.00	18.00	235.98	6,152.89	-546.08	-809.02	-442.20	0.00	0.00	0.00
6,400.00	18.00	235.98	6,247.99	-563.37	-834.63	-456.20	0.00	0.00	0.00
6,500.00	18.00	235.98	6,343.10	-580.66	-860.24	-470.20	0.00	0.00	0.00
6,600.00	18.00	235.98	6,438.20	-597.94	-885.86	-484.20	0.00	0.00	0.00
6,700.00	18.00	235.98	6,533.31	-615.23	-911.47	-498.20	0.00	0.00	0.00
6,800.00	18.00	235.98	6,628.42	-632.52	-937.08	-512.20	0.00	0.00	0.00
6,900.00	18.00	235.98	6,723.52	-649.81	-962.69	-526.20	0.00	0.00	0.00
7,000.00	18.00	235.98	6,818.63	-667.10	-988.30	-540.20	0.00	0.00	0.00
7,100.00	18.00	235.98	6,913.73	-684.38	-1,013.92	-554.20	0.00	0.00	0.00
7,200.00	18.00	235.98	7,008.84	-701.67	-1,039.53	-568.20	0.00	0.00	0.00
7,249.26	18.00	235.98	7,055.69	-710.19	-1,052.14	-575.09	0.00	0.00	0.00
7,300.00	15.84	251.84	7,104.26	-716.74	-1,065.23	-579.98	10.00	-4.25	31.25
7,400.00	15.94	288.95	7,200.68	-716.53	-1,091.26	-576.57	10.00	0.10	37.12
7,500.00	21.28	315.94	7,295.59	-698.98	-1,116.93	-555.99	10.00	5.34	26.99
7,600.00	29.10	330.80	7,386.10	-664.63	-1,141.47	-518.87	10.00	7.82	14.86
7,700.00	37.89	339.51	7,469.46	-614.52	-1,164.14	-466.35	10.00	8.79	8.72
7,800.00	47.10	345.29	7,543.14	-550.16	-1,184.24	-400.01	10.00	9.22	5.77
7,900.00	56.53	349.53	7,604.91	-473.52	-1,201.16	-321.87	10.00	9.43	4.25
8,000.00	66.08	352.94	7,652.87	-386.93	-1,214.39	-234.30	10.00	9.55	3.40
8,100.00	75.69	355.86	7,685.59	-293.01	-1,223.53	-139.97	10.00	9.61	2.93
8,200.00	85.34	358.55	7,702.05	-194.62	-1,228.30	-41.74	10.00	9.64	2.69
8,243.63	89.55	359.69	7,704.00	-151.04	-1,228.97	1.58	10.00	9.65	2.61
8,300.00	89.55	359.69	7,704.45	-94.68	-1,229.28	57.56	0.00	0.00	0.00
8,400.00	89.55	359.69	7,705.24	5.32	-1,229.82	156.86	0.00	0.00	0.00
8,500.00	89.55	359.69	7,706.03	105.31	-1,230.36	256.16	0.00	0.00	0.00
8,600.00	89.55	359.69	7,706.82	205.31	-1,230.91	355.46	0.00	0.00	0.00
8,700.00	89.55	359.69	7,707.61	305.30	-1,231.45	454.76	0.00	0.00	0.00
8,800.00	89.55	359.69	7,708.40	405.30	-1,231.99	554.06	0.00	0.00	0.00
8,900.00	89.55	359.69	7,709.19	505.29	-1,232.54	653.36	0.00	0.00	0.00
9,000.00	89.55	359.69	7,709.98	605.29	-1,233.08	752.66	0.00	0.00	0.00
9,100.00	89.55	359.69	7,710.77	705.28	-1,233.63	851.96	0.00	0.00	0.00
9,200.00	89.55	359.69	7,711.56	805.28	-1,234.17	951.26	0.00	0.00	0.00
9,300.00	89.55	359.69	7,712.35	905.28	-1,234.71	1,050.56	0.00	0.00	0.00
9,400.00	89.55	359.69	7,713.14	1,005.27	-1,235.26	1,149.86	0.00	0.00	0.00
9,500.00	89.55	359.69	7,713.93	1,105.27	-1,235.80	1,249.16	0.00	0.00	0.00
9,600.00	89.55	359.69	7,714.72	1,205.26	-1,236.34	1,348.46	0.00	0.00	0.00
9,700.00	89.55	359.69	7,715.51	1,305.26	-1,236.89	1,447.76	0.00	0.00	0.00
9,800.00	89.55	359.69	7,716.30	1,405.25	-1,237.43	1,547.06	0.00	0.00	0.00
9,900.00	89.55	359.69	7,717.09	1,505.25	-1,237.97	1,646.36	0.00	0.00	0.00
10,000.00	89.55	359.69	7,717.88	1,605.24	-1,238.52	1,745.66	0.00	0.00	0.00
10,100.00	89.55	359.69	7,718.67	1,705.24	-1,239.06	1,844.96	0.00	0.00	0.00
10,200.00	89.55	359.69	7,719.46	1,805.23	-1,239.61	1,944.26	0.00	0.00	0.00
10,300.00	89.55	359.69	7,720.25	1,905.23	-1,240.15	2,043.56	0.00	0.00	0.00
10,400.00	89.55	359.69	7,721.04	2,005.22	-1,240.69	2,142.86	0.00	0.00	0.00
10,500.00	89.55	359.69	7,721.83	2,105.22	-1,241.24	2,242.16	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2962.70ft
Site:	Oxbow CC 17-08 Federal Com	**North Reference:**	Grid
Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	89.55	359.69	7,722.62	2,205.22	-1,241.78	2,341.46	0.00	0.00	0.00
10,700.00	89.55	359.69	7,723.41	2,305.21	-1,242.32	2,440.76	0.00	0.00	0.00
10,800.00	89.55	359.69	7,724.20	2,405.21	-1,242.87	2,540.06	0.00	0.00	0.00
10,900.00	89.55	359.69	7,724.99	2,505.20	-1,243.41	2,639.36	0.00	0.00	0.00
11,000.00	89.55	359.69	7,725.78	2,605.20	-1,243.95	2,738.66	0.00	0.00	0.00
11,100.00	89.55	359.69	7,726.57	2,705.19	-1,244.50	2,837.96	0.00	0.00	0.00
11,200.00	89.55	359.69	7,727.36	2,805.19	-1,245.04	2,937.26	0.00	0.00	0.00
11,300.00	89.55	359.69	7,728.15	2,905.18	-1,245.59	3,036.56	0.00	0.00	0.00
11,400.00	89.55	359.69	7,728.94	3,005.18	-1,246.13	3,135.86	0.00	0.00	0.00
11,500.00	89.55	359.69	7,729.73	3,105.17	-1,246.67	3,235.15	0.00	0.00	0.00
11,600.00	89.55	359.69	7,730.52	3,205.17	-1,247.22	3,334.45	0.00	0.00	0.00
11,700.00	89.55	359.69	7,731.31	3,305.16	-1,247.76	3,433.75	0.00	0.00	0.00
11,800.00	89.55	359.69	7,732.10	3,405.16	-1,248.30	3,533.05	0.00	0.00	0.00
11,900.00	89.55	359.69	7,732.89	3,505.16	-1,248.85	3,632.35	0.00	0.00	0.00
12,000.00	89.55	359.69	7,733.68	3,605.15	-1,249.39	3,731.65	0.00	0.00	0.00
12,100.00	89.55	359.69	7,734.47	3,705.15	-1,249.93	3,830.95	0.00	0.00	0.00
12,200.00	89.55	359.69	7,735.26	3,805.14	-1,250.48	3,930.25	0.00	0.00	0.00
12,300.00	89.55	359.69	7,736.05	3,905.14	-1,251.02	4,029.55	0.00	0.00	0.00
12,400.00	89.55	359.69	7,736.84	4,005.13	-1,251.56	4,128.85	0.00	0.00	0.00
12,500.00	89.55	359.69	7,737.63	4,105.13	-1,252.11	4,228.15	0.00	0.00	0.00
12,600.00	89.55	359.69	7,738.42	4,205.12	-1,252.65	4,327.45	0.00	0.00	0.00
12,700.00	89.55	359.69	7,739.21	4,305.12	-1,253.20	4,426.75	0.00	0.00	0.00
12,800.00	89.55	359.69	7,740.00	4,405.11	-1,253.74	4,526.05	0.00	0.00	0.00
12,900.00	89.55	359.69	7,740.79	4,505.11	-1,254.28	4,625.35	0.00	0.00	0.00
13,000.00	89.55	359.69	7,741.58	4,605.11	-1,254.83	4,724.65	0.00	0.00	0.00
13,100.00	89.55	359.69	7,742.37	4,705.10	-1,255.37	4,823.95	0.00	0.00	0.00
13,200.00	89.55	359.69	7,743.16	4,805.10	-1,255.91	4,923.25	0.00	0.00	0.00
13,300.00	89.55	359.69	7,743.95	4,905.09	-1,256.46	5,022.55	0.00	0.00	0.00
13,400.00	89.55	359.69	7,744.74	5,005.09	-1,257.00	5,121.85	0.00	0.00	0.00
13,500.00	89.55	359.69	7,745.53	5,105.08	-1,257.54	5,221.15	0.00	0.00	0.00
13,600.00	89.55	359.69	7,746.32	5,205.08	-1,258.09	5,320.45	0.00	0.00	0.00
13,700.00	89.55	359.69	7,747.11	5,305.07	-1,258.63	5,419.75	0.00	0.00	0.00
13,800.00	89.55	359.69	7,747.90	5,405.07	-1,259.18	5,519.05	0.00	0.00	0.00
13,900.00	89.55	359.69	7,748.69	5,505.06	-1,259.72	5,618.35	0.00	0.00	0.00
14,000.00	89.55	359.69	7,749.48	5,605.06	-1,260.26	5,717.65	0.00	0.00	0.00
14,100.00	89.55	359.69	7,750.27	5,705.05	-1,260.81	5,816.95	0.00	0.00	0.00
14,200.00	89.55	359.69	7,751.06	5,805.05	-1,261.35	5,916.25	0.00	0.00	0.00
14,300.00	89.55	359.69	7,751.85	5,905.05	-1,261.89	6,015.55	0.00	0.00	0.00
14,400.00	89.55	359.69	7,752.64	6,005.04	-1,262.44	6,114.85	0.00	0.00	0.00
14,500.00	89.55	359.69	7,753.43	6,105.04	-1,262.98	6,214.15	0.00	0.00	0.00
14,600.00	89.55	359.69	7,754.22	6,205.03	-1,263.52	6,313.45	0.00	0.00	0.00
14,700.00	89.55	359.69	7,755.01	6,305.03	-1,264.07	6,412.75	0.00	0.00	0.00
14,800.00	89.55	359.69	7,755.80	6,405.02	-1,264.61	6,512.05	0.00	0.00	0.00
14,900.00	89.55	359.69	7,756.59	6,505.02	-1,265.16	6,611.35	0.00	0.00	0.00
15,000.00	89.55	359.69	7,757.38	6,605.01	-1,265.70	6,710.65	0.00	0.00	0.00
15,100.00	89.55	359.69	7,758.17	6,705.01	-1,266.24	6,809.95	0.00	0.00	0.00
15,200.00	89.55	359.69	7,758.96	6,805.00	-1,266.79	6,909.25	0.00	0.00	0.00
15,300.00	89.55	359.69	7,759.75	6,905.00	-1,267.33	7,008.55	0.00	0.00	0.00
15,400.00	89.55	359.69	7,760.54	7,004.99	-1,267.87	7,107.85	0.00	0.00	0.00
15,500.00	89.55	359.69	7,761.33	7,104.99	-1,268.42	7,207.15	0.00	0.00	0.00
15,600.00	89.55	359.69	7,762.12	7,204.99	-1,268.96	7,306.45	0.00	0.00	0.00
15,700.00	89.55	359.69	7,762.91	7,304.98	-1,269.50	7,405.75	0.00	0.00	0.00
15,800.00	89.55	359.69	7,763.70	7,404.98	-1,270.05	7,505.05	0.00	0.00	0.00
15,900.00	89.55	359.69	7,764.49	7,504.97	-1,270.59	7,604.35	0.00	0.00	0.00
16,000.00	89.55	359.69	7,765.28	7,604.97	-1,271.14	7,703.65	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2962.70ft
Site:	Oxbow CC 17-08 Federal Com	**North Reference:**	Grid
Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
16,100.00	89.55	359.69	7,766.07	7,704.96	-1,271.68	7,802.95	0.00	0.00	0.00
16,200.00	89.55	359.69	7,766.86	7,804.96	-1,272.22	7,902.25	0.00	0.00	0.00
16,300.00	89.55	359.69	7,767.65	7,904.95	-1,272.77	8,001.55	0.00	0.00	0.00
16,400.00	89.55	359.69	7,768.44	8,004.95	-1,273.31	8,100.85	0.00	0.00	0.00
16,500.00	89.55	359.69	7,769.23	8,104.94	-1,273.85	8,200.15	0.00	0.00	0.00
16,600.00	89.55	359.69	7,770.02	8,204.94	-1,274.40	8,299.45	0.00	0.00	0.00
16,700.00	89.55	359.69	7,770.81	8,304.94	-1,274.94	8,398.75	0.00	0.00	0.00
16,800.00	89.55	359.69	7,771.60	8,404.93	-1,275.48	8,498.05	0.00	0.00	0.00
16,900.00	89.55	359.69	7,772.39	8,504.93	-1,276.03	8,597.35	0.00	0.00	0.00
17,000.00	89.55	359.69	7,773.18	8,604.92	-1,276.57	8,696.65	0.00	0.00	0.00
17,100.00	89.55	359.69	7,773.97	8,704.92	-1,277.11	8,795.95	0.00	0.00	0.00
17,200.00	89.55	359.69	7,774.76	8,804.91	-1,277.66	8,895.25	0.00	0.00	0.00
17,300.00	89.55	359.69	7,775.55	8,904.91	-1,278.20	8,994.55	0.00	0.00	0.00
17,400.00	89.55	359.69	7,776.34	9,004.90	-1,278.75	9,093.85	0.00	0.00	0.00
17,500.00	89.55	359.69	7,777.13	9,104.90	-1,279.29	9,193.15	0.00	0.00	0.00
17,600.00	89.55	359.69	7,777.92	9,204.89	-1,279.83	9,292.45	0.00	0.00	0.00
17,700.00	89.55	359.69	7,778.71	9,304.89	-1,280.38	9,391.75	0.00	0.00	0.00
17,800.00	89.55	359.69	7,779.50	9,404.88	-1,280.92	9,491.05	0.00	0.00	0.00
17,900.00	89.55	359.69	7,780.29	9,504.88	-1,281.46	9,590.35	0.00	0.00	0.00
18,000.00	89.55	359.69	7,781.08	9,604.88	-1,282.01	9,689.65	0.00	0.00	0.00
18,100.00	89.55	359.69	7,781.87	9,704.87	-1,282.55	9,788.95	0.00	0.00	0.00
18,200.00	89.55	359.69	7,782.66	9,804.87	-1,283.09	9,888.25	0.00	0.00	0.00
18,300.00	89.55	359.69	7,783.45	9,904.86	-1,283.64	9,987.55	0.00	0.00	0.00
18,400.00	89.55	359.69	7,784.24	10,004.86	-1,284.18	10,086.85	0.00	0.00	0.00
18,500.00	89.55	359.69	7,785.03	10,104.85	-1,284.73	10,186.15	0.00	0.00	0.00
18,600.00	89.55	359.69	7,785.82	10,204.85	-1,285.27	10,285.45	0.00	0.00	0.00
18,700.00	89.55	359.69	7,786.60	10,304.84	-1,285.81	10,384.75	0.00	0.00	0.00
18,750.02	89.55	359.69	7,787.00	10,354.86	-1,286.08	10,434.42	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Oxbow CC - plan hits target center - Point	0.00	0.00	7,704.00	-151.04	-1,228.97	440,507.89	640,258.60	32.210629	-104.013488
PBHL (Oxbow CC - plan hits target center - Point	0.00	0.00	7,787.00	10,354.86	-1,286.08	451,012.94	640,201.49	32.239506	-104.013572

OXY
Planning Report

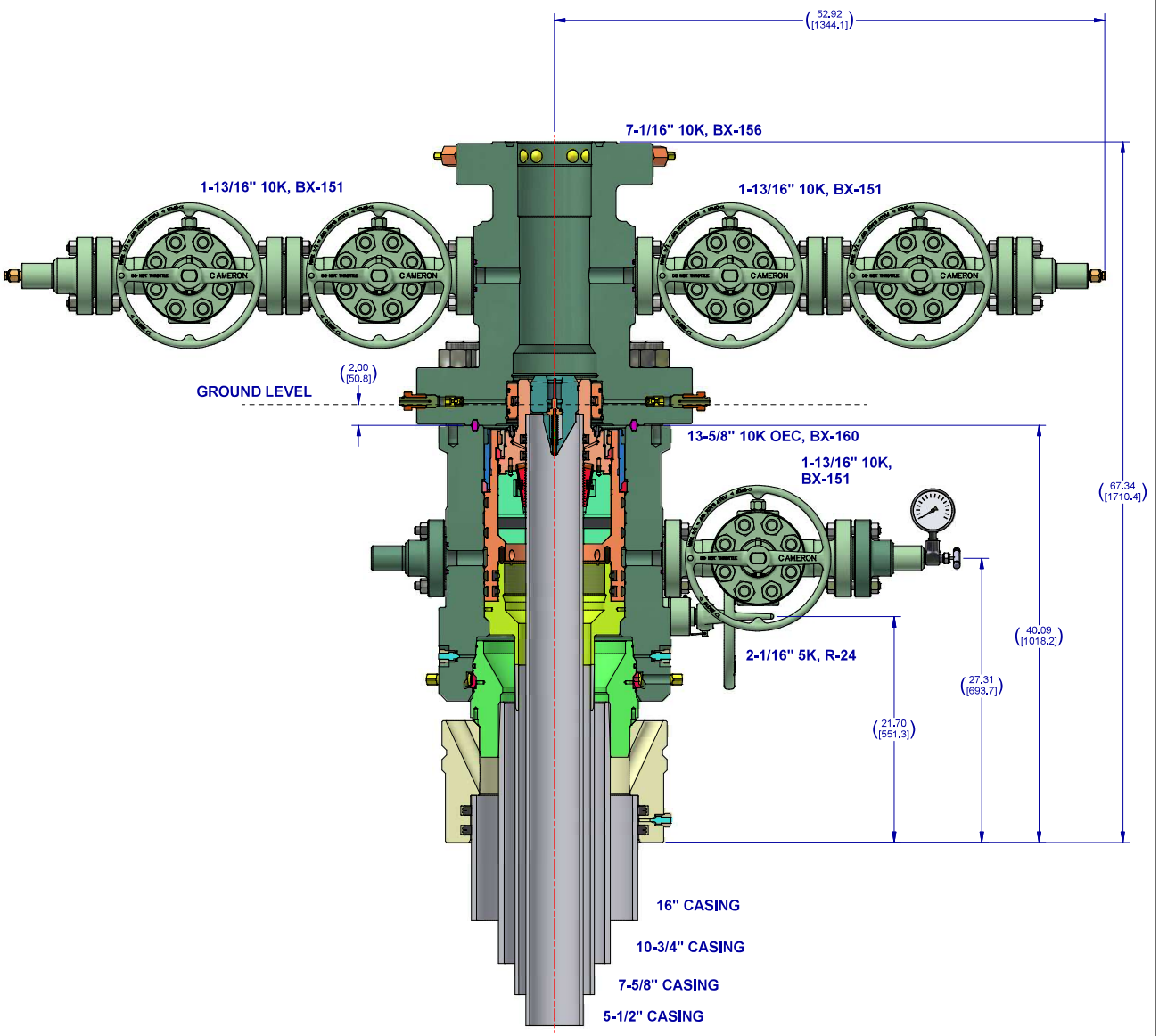
Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Oxbow CC 17_8 Federal Com 2H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2962.70ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2962.70ft
Site:	Oxbow CC 17-08 Federal Com	**North Reference:**	Grid
Well:	Oxbow CC 17_8 Federal Com 2H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
279.70	279.70	RUSTLER			
594.70	594.70	SALADO			
1,236.70	1,236.70	CASTILE			
2,788.72	2,788.70	DELAWARE			
2,840.76	2,840.70	BELL CANYON			
3,742.66	3,720.70	CHERRY CANYON			
5,051.72	4,965.70	BRUSHY CANYON			
6,727.75	6,559.70	BONE SPRING			
7,752.77	7,509.70	BONE SPRING 1ST			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,695.00	2,695.00	0.00	0.00	Build 2°/100'
3,594.97	3,580.24	-78.44	-116.21	Hold 18° Tangent
7,249.26	7,055.69	-710.19	-1,052.14	KOP, Build & Turn 10°/100'
8,243.63	7,704.00	-151.04	-1,228.97	Landing Point
18,750.02	7,787.00	10,354.86	-1,286.08	TD at 18750.02' MD



Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL

SURFACE TREATMENT	DO NOT SCALE		CAMERON A Schlumberger Company	SURFACE SYSTEMS
	DRAWN BY: D. GOTTUNG	DATE 2 Dec 21		
MATERIAL & HEAT TREAT	CHECKED BY: D. GOTTUNG	DATE 2 Dec 21	OXY 13-5/8" 10K ADAPT 16" X 10-3/4" X 7-5/8" X 5-1/2"	
	APPROVED BY: D. GOTTUNG	DATE 2 Dec 21		
ESTIMATED WEIGHT:	6515,617 LBS [2955,434 KG]	INITIAL USE B/M:	SHEET 4 OF 4	SD-053434-94-05 REV: 01

INVENTOR - D

Tenaris

TenarisHydril Wedge 425®

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	641 x1000 lb
Nominal Weight	20 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	12,640 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.777 in.	**Tension Efficiency**	90 %	**Minimum**	15,700 ft-lb
Connection ID	4.734 in.	**Joint Yield Strength**	577 x1000 lb	**Optimum**	19,600 ft-lb
Make-up Loss	5.823 in.	**Internal Pressure Capacity**	12,640 psi	**Maximum**	21,600 ft-lb
Threads per inch	3.77	**Compression Efficiency**	90 %		
Connection OD Option	Regular	**Compression Strength**	577 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	82 °/100 ft	**Operating Torque**	29,000 ft-lb
		External Pressure Capacity	11,100 psi	**Yield Torque**	36,000 ft-lb

Notes

This connection is fully interchangeable with:
TORQ® SFW™ - 5.5 in. - 0.361 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For the lastest performance data, always visit our website: www.tenaris.com

Tenaris

TenarisHydril Wedge 441®

Coupling	Pipe Body
Grade: **P110-CY**	Grade: **P110-CY**
Body: **White**	1st Band: **White**
1st Band: **Grey**	2nd Band: **Grey**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-CY
Min. Wall Thickness	87.50 %	**Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	641 x1000 lb
Nominal Weight	20 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	12,640 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	**Tension Efficiency**	81.50 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	522 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	12,640 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	522 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	71 °/100 ft	**Operating Torque**	32,000 ft-lb
		External Pressure Capacity	11,100 psi	**Yield Torque**	38,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For the lastest performance data, always visit our website: www.tenaris.com

TenarisHydril

5.500" 20.00 lb/ft P110-CY TenarisHydril Wedge 461™ Matched Strength

Special Data Sheet
TH DS-20.0359
12 August 2020
Rev 00

Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-CY
Min Wall Thickness	87.5%	**Type**	CASING	**Connection OD Option**	MATCHED STRENGTH

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Nominal ID**	4.778 in.	**Body Yield Strength**	641 x 1000 lbs
Nominal Weight	20.00 lbs/ft	**Wall Thickness**	0.361 in.	**Internal Yield**	12640 psi
Standard Drift Diameter	4.653 in.	**Plain End Weight**	19.83 lbs/ft	**SMYS**	110000 psi
Special Drift Diameter	N/A	**OD Tolerance**	API	**Collapse Pressure**	11110 psi

Connection Data

Geometry		Performance		Make-up Torques	
Matched Strength OD	6.050 in.	**Tension Efficiency**	100%	**Minimum**	17000 ft-lbs
Make-up Loss	3.775 in.	**Joint Yield Strength**	641 x 1000 lbs	**Optimum**	18000 ft-lbs
Threads per in.	3.40	**Internal Yield**	12640 psi	**Maximum**	21600 ft-lbs
Connection OD Option	MATCHED STRENGTH	**Compression Efficiency**	100%	**Operational Limit Torques**	
Coupling Length	7.714 in.	**Compression Strength**	641 x 1000 lbs	**Operating Torque**	32000 ft-lbs
		Bending	92 °/100 ft	**Yield Torque**	38000 ft-lbs
		Collapse	11110 psi	**Buck-On Torques**	
				Minimum	21600 ft-lbs
				Maximum	23100 ft-lbs

Notes

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 181905

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 181905
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/3/2023