

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

Sundry Print Reports
10/21/2024

County or Parish/State: LEA /

Well Name: DR PI FEDERAL UNIT

18_7 IPP

Well Location: T22S / R32E / SEC 18 /

LOT 4 / 32.3851139 / -103.7184611

Allottee or Tribe Name:

Lease Number: NMNM32411,

Well Number: 72H

NMNM90587

Unit or CA Name:

Type of Well: OIL WELL

Unit or CA Number: NMNM105825907

US Well Number: 3002548163

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2778402

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/07/2024 Time Sundry Submitted: 12:06

Date proposed operation will begin: 11/01/2024

Procedure Description: Oxy USA Inc. respectfully requests to amend the subject well APD to update the following information: 3S Falcon Base Plan w/ 4S Falcon Contingency Design. The SHL, BHL, HSU Size, TVD, Surface, Intermediate & Production casings are changing. "SHL moving to 519' FSL & 1563' FWL and there is no additional surface disturbance related to the Sundry" Documents attached: C102, Drill Plan, Casing Connections, Directional Plan, Contingency tie back Plan. Updated variance requests for BOP Break Testing, Bradenhead CBL, Cement Top and Liner Overlap & Offline cementing

NOI Attachments

Procedure Description

DrPiFedUnit18 7IPP 72H TNSWedge463 7.827in 39.3ppf P110S 20240307120318.pdf

DrPiFedUnit_18_7IPP_72H_TNSWedge461_5.5in_20ppf_P110CY_20240307120307.pdf

DrPiFedUni_18_7IPP_72H_API_BTC_SC_10.75in_45.5ppf_L80IC_20240307120256.pdf

Dr_Pi_Fed_Unit_18_7_IPP_72H_13inADAPT_4S_10x15_20240307120153.pdf

 $Dr_Pi_Fed_Unit_18_7_IPP_72H_OfflineCementVariance_20240307120144.pdf$

Dr_Pi_Fed_Unit_18_7_IPP_72H_FalconSL1AnnClearanceVariance_20240307120136.pdf

 $DR_PI_FED_UNIT_18_7_IPP_71H_4SFalconSL1ContTieback_20240307120107.pdf$

 $DR_PI_FED_UNIT_18_7_IPP_72H_3SFalconSL1ContTieback_20240307120101.pdf$

eived by OCD: 19/22/2024 7:03:45 AM Well Name: DR PI FEDERAL UNIT

18_7 IPP

Well Location: T22S / R32E / SEC 18 / LOT 4 / 32.3851139 / -103.7184611

County or Parish/State: LEA/ 2 of

Well Number: 72H

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Operator: OXY USA INCORPORATED

Dr_Pi_Fed_Unit_18_7_IPP_72H_DirectPlan_20240307120048.pdf

 $Dr_Pi_Fed_Unit_18_7_IPP_72H_DrillPlan_4S_Cont_20240307120042.pdf$

Dr_Pi_Fed_Unit_18_7_IPP_72H_DrillPlan3S_20240307120036.pdf

IP9784WEL01NM_DR_PI_FED_UNIT_18_7_IPP_72H_C_102_20240307120023.pdf

OXY_APD_CHANGE_SUNDRY_LIST_03.07.24_20240307120008.pdf

Conditions of Approval

Additional

FALCON_DESIGN___DR_PI_FEDERAL_UNIT_18_7_IPP_72H_ _SUNDRY_COA_20241016130608.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: MELISSA GUIDRY Signed on: MAR 07, 2024 12:03 PM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON State: TX

Phone: (713) 497-2481

Email address: MELISSA_GUIDRY@OXY.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Email Address: cwalls@blm.gov

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

Disposition Date: 10/16/2024

Disposition: Approved Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.			Lease Serial No. If Indian, Allottee or Tribe Name		
1. Type of Well Oil Well Gas V	Vell Other			8. Well Name and No.	
2. Name of Operator				9. API Well No.	
3a. Address	3	b. Phone No. (include	de area code)	10. Field and Pool or Explora	atory Area
4. Location of Well (Footage, Sec., T., F.	R.,M., or Survey Description)			11. Country or Parish, State	
12. CHE	CK THE APPROPRIATE BOX	X(ES) TO INDICAT	E NATURE (DF NOTICE, REPORT OR OT	THER DATA
TYPE OF SUBMISSION			TYPE	E OF ACTION	
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic F	Fracturing [Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Constr	ruction [Recomplete	Other
	Change Plans	Plug and Al	bandon [Temporarily Abandon	
Final Abandonment Notice	Convert to Injection	Plug Back	<u> </u>	Water Disposal	vork and approximate duration thereof. If
is ready for final inspection.) 14. I hereby certify that the foregoing is			uding reciama	tion, nave been completed and	the operator has detennined that the site
14. I hereby certify that the folegoing is	true and correct. Name (Frint	Title			
Signature		Date			
	THE SPACE	FOR FEDERA	L OR STA	TE OFICE USE	
Approved by					
			Title		Date
Conditions of approval, if any, are attackertify that the applicant holds legal or which would entitle the applicant to con	equitable title to those rights in		Office		
Title 18 U.S.C Section 1001 and Title 4.	3 U.S.C Section 1212, make it	a crime for any pers	son knowingly	and willfully to make to any d	department or agency of the United States

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: LOT 4 / 310 FSL / 1385 FWL / TWSP: 22S / RANGE: 32E / SECTION: 18 / LAT: 32.3851139 / LONG: -103.7184611 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 1313 FNL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 7 / LAT: 32.409683 / LONG: -103.71597 (TVD: 10978 feet, MD: 20542 feet)
PPP: SENW / 2635 FNL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 18 / LAT: 32.391543 / LONG: -103.715979 (TVD: 10978 feet, MD: 13943 feet)
PPP: SENW / 2633 FNL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 7 / LAT: 32.406055 / LONG: -103.715972 (TVD: 10978 feet, MD: 19222 feet)
PPP: SESW / 4 FSL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 7 / LAT: 32.398799 / LONG: -103.715975 (TVD: 10978 feet, MD: 16582 feet)
PPP: NENW / 1315 FNL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 18 / LAT: 32.395171 / LONG: -103.715977 (TVD: 10978 feet, MD: 15263 feet)
PPP: SESW / 100 FSL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 18 / LAT: 32.384547 / LONG: -103.7159831 (TVD: 10978 feet, MD: 11399 feet)
BHL: NENW / 20 FNL / 2150 FWL / TWSP: 22S / RANGE: 32E / SECTION: 7 / LAT: 32.4132381 / LONG: -103.7159677 (TVD: 10978 feet, MD: 21836 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
WELL NAME & NO.:
DR PI FEDERAL UNIT 18 7 IPP / 72H
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
OXY USA INCORPORATED
DR PI FEDERAL UNIT 18 7 IPP / 72H
S197/S & 1563'/W
20'/N & 1950'/W
Section 18, T.22 S., R.32 E.
Lea County, New Mexico

ALL PREVIOUS COAs STILL APPLY. Only Primary 3S Design approved. Contact Keith Immatty if 4S Design is needed.

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency	☐ EchoMeter	✓ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	\Box COM	✓ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	Break Testing	✓ Offline	✓ Casing
Variance	_	Cementing	Clearance

COA

A. CASING

COA for the proposed Falcon Design (2-string + production liner):

- Tie Back of the liner should be a minimum of 200' into the previous casing
- Surface and Intermediate cement to surface should be verified visually. If cement fallback is suspected, an Echo-meter can be run to verify cement top in the intermediate and a temp log may be run in the surface interval. CBL should be run if confidence is lacking in the surface or intermediate cement job. The proposed falcon design (2-string + production liner) is only approved when surface and intermediate sections are cemented to surface. Operator to revert to 3-string design when surface or intermediate cementing is of poor quality or not verified to surface
- Region 2 NACE certified intermediate casing must be used

- A third-party verification (such as thread rep or torque turn) must be conducted to ensure the connection makeups are to spec for the intermediate casing string exposed to frac pressures
- Corrosion inhibitors must be used in areas with corrosive production fluids
- Operator should actively monitor annulus during the completion phase. Wells should be monitored in a manner capable of identifying a casing leak or liner top packer leak, within an acceptable time frame while on production. Remedial work may be required to restore intermediate casing integrity or liner top packer integrity in a failure event
- BLM should be notified if cement is not verified to the liner top
- Surface location must NOT be located within SOPA, KPLA, Capitan Reef or High Cave Karst

Alternate Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 921 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 **7.827** inch intermediate casing shall be set at approximately **10,506** feet. Operator has requested for the option to change hole size from 12.25" to 9.875" after trip at Brushy Top and is OK. The minimum required fill of cement behind the **7.827** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 7.827" X 10-3/4" 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 7.827" 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 liner shall be set at approximately 22,040 feet. A minimum 200' tie back of production liner into the intermediate casing is required. Successful liner top pressure test critical for zonal isolation check. If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran. The minimum required fill of cement behind the 5-1/2 inch production liner is:
 - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.
 - Operator has proposed 10% excess instead of 25% excess recommendation for the liner design and this is acceptable. Losses may need to be cured and pump rates may need to be modified to achieve cement tieback when losses occur or are anticipated in the production interval

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM NM CFO DrillingNotifications@BLM.GOV**; (575) 361-2822

Contact Lea County Petroleum Engineering Inspection Staff:

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
 - i.Notify the BLM when moving in and removing the Spudder Rig.
 - ii.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.
 - iii.BOP/BOPE test to be conducted per **43 CFR 3172** 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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 integrity 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-Q 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 **43 CFR 3172**.

- 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:
 - i.Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii.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.
 - iii.Manufacturer representative shall install the test plug for the initial BOP
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v.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.
 - i.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).
 - ii.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.)
 - iii. 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 43 CFR 3172 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to

- initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v.The results of the test shall be reported to the appropriate BLM office.
- vi.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.
- vii. 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.
- viii.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 43 CFR 3172.

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 - 10/16/2024

Tenaris

TenarisHydril Wedge 463[®]



Coupling	Pipe Body
Grade: P110-S	Grade: P110-S
Body: White	1st Band: White
1st Band: Orange	2nd Band: Orange
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.827 in.	Wall Thickness	0.500 in.	Grade	P110-S
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.827 in.	Wall Thickness	0.500 in.
Nominal Weight	39.30 lb/ft	Plain End Weight	39.16 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.827 in.		

Performance	
Body Yield Strength	1266 x1000 lb
Min. Internal Yield Pressure	12,300 psi
SMYS	110,000 psi
Collapse Pressure	10,490 psi

Connection Data

Geometry	
Connection OD	8.500 in.
Coupling Length	10.950 in.
Connection ID	6.814 in.
Make-up Loss	4.520 in.
Threads per inch	3.25
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	1266 x1000 lb
Internal Pressure Capacity	12,300 psi
Compression Efficiency	100 %
Compression Strength	1266 x1000 lb
Max. Allowable Bending	64.42 °/100 ft
External Pressure Capacity	10,490 psi
Coupling Face Load	414,177 lb

Make-Up Torques	
Minimum	22,000 ft-lb
Optimum	23,000 ft-lb
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	61,000 ft-lb
Operating Torque Yield Torque	61,000 ft-lb 70,000 ft-lb
Yield Torque	

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PII/CII

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%	Туре	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	5
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



API BTC -Special Clearance

 Coupling
 Pipe Body

 Grade: L80-IC
 Grade: L80-IC

 Body: Red
 1st Band: Red

 1st Band: Brown
 2nd Band: Brown

 2nd Band: 3rd Band: Pale Green

 3rd Band: 4th Band:

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

Geometry			
Nominal OD	10.750 in.	Drift	9.875 in.
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft
Nominal Weight	45.500 lb/ft	OD Tolerance	API
Nominal ID	9.950 in.		

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	1040 x1000 lb
Min. Internal Yield Pressure	5210 psi
Collapse Pressure	2950 psi
Max. Allowed Bending	34 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	1041 x1000 lb
Connection OD	11.250 in.	Coupling Face Load	478 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	4150 psi

Notes

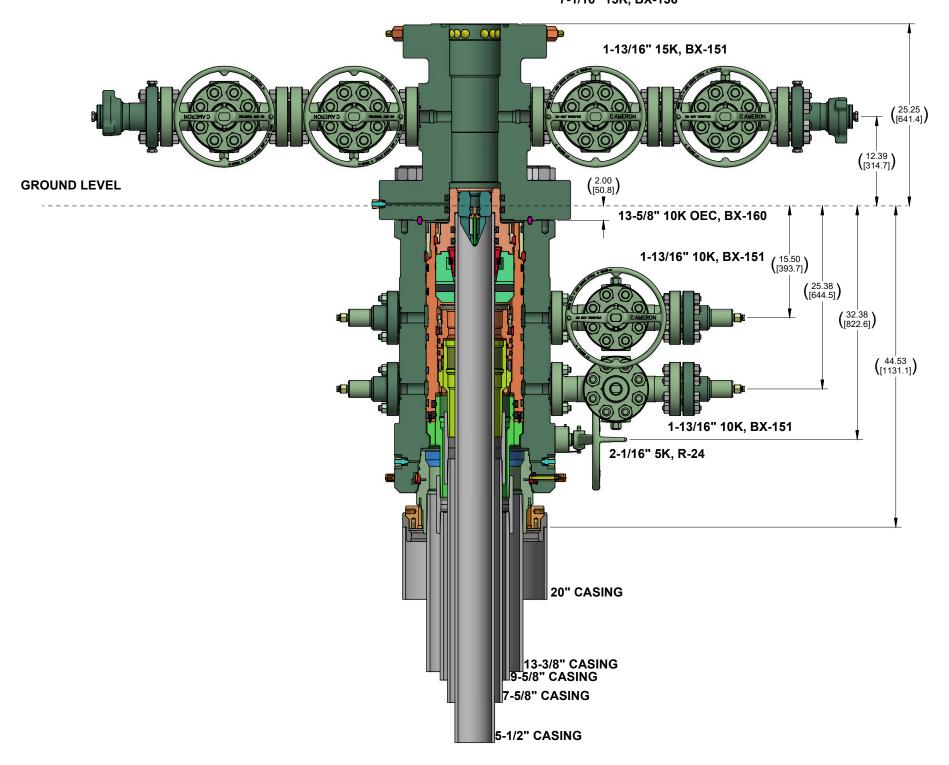
For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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7-1/16" 15K, BX-156



Offline Cementing Variance Request

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.

1. Cement Program

No changes to the cement program will take place for offline cementing.

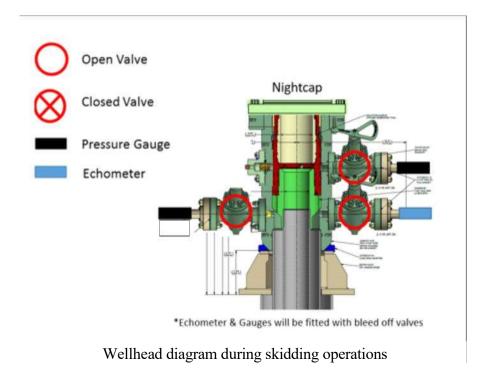
2. Offline Cementing Procedure

The operational sequence will be as follows:

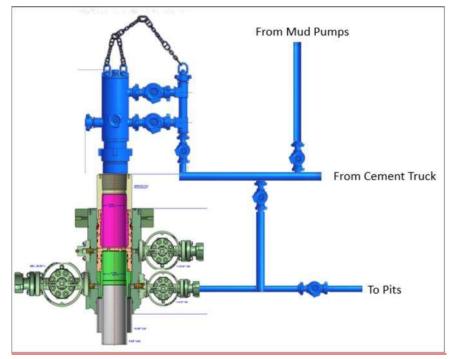
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a $3^{\rm rd}$ party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 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.

Falcon SL1 Production Casing Annular Clearance Variance Request

If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal.
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

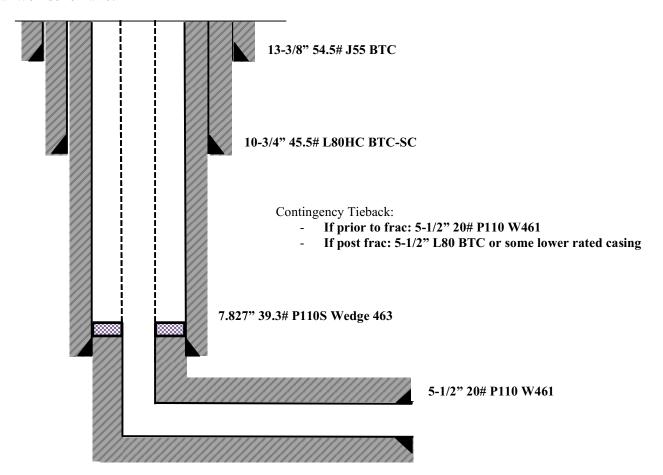
OXY USA WTP LP

4S Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 17-1/2" hole x 13-3/8" casing for surface section. Cement to surface.
- Drill 12-1/4" hole x 10-3/4" casing for intermediate #1 section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate #2 section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 200' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - Return well to production.

General well schematic:



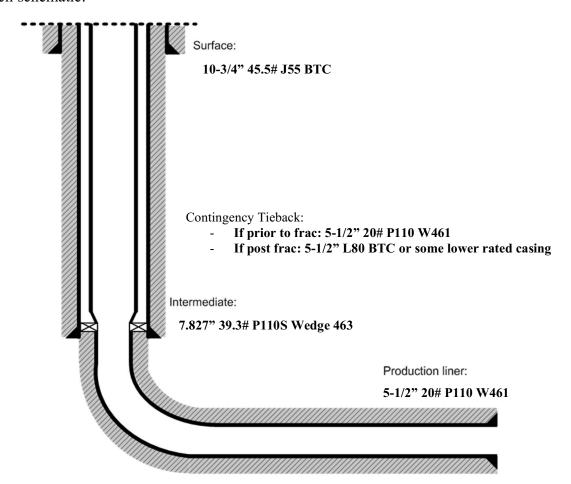
OXY USA WTP LP

Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4" hole x 10-3/4" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - o Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Return well to production.

General well schematic:



PRD NM DIRECTIONAL PLANS (NAD 1983) I Prefer Pi 18_7 Federal Com Dr Pi Fed Unit 18_7 IPP 72H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

17 October, 2023

Planning Report

HOPSPP Database:

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

I Prefer Pi 18_7 Federal Com

Site Position: Northing: 504,515.55 usft Latitude: 32.385491 From: Мар Easting: 730,590.36 usft Longitude: -103.720243

Position Uncertainty: 0.89 ft Slot Radius: 13.200 in

Well Dr Pi Fed Unit 18_7 IPP 72H

Well Position +N/-S 0.00 ft Northing: 504.592.62 usf Latitude: 32.385692 731,317.29 usf +E/-W 0.00 ft Easting: Longitude: -103.717887

Position Uncertainty 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,627.30 ft

Grid Convergence: 0.33°

Wellbore Wellbore #1

Model Name Declination Field Strength Magnetics Sample Date Dip Angle (°) (nT) HDGM FILE 10/17/2023 6.37 60.00 47,611.60000000

Design Permitting Plan

Audit Notes:

Site

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 1.91

Plan Survey Tool Program Date 10/17/2023

Depth From Depth To

(ft) (ft) Remarks Survey (Wellbore) **Tool Name**

0.00 22,040.01 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	
4,360.00	0.00	0.00	4,360.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,860.16	10.00	160.16	4,857.63	-40.97	14.78	2.00	2.00	0.00	160.16	
10,605.58	10.00	160.16	10,515.70	-979.76	353.42	0.00	0.00	0.00	0.00	
11,599.80	90.00	359.70	11,181.30	-414.33	389.66	10.00	8.05	-16.14	-160.19	FTP (Dr Pi Fed Unit
22,040.01	90.00	359.70	11,181.30	10,025.73	334.14	0.00	0.00	0.00	0.00	PBHL (Dr Pi Fed

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

Grid

esign:	Permitting Pia						_		
lanned 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		500.00				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
4,360.00	0.00	0.00	4,360.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.80	160.16	4,400.00	-0.26	0.09	-0.26	2.00	2.00	0.00
4,500.00	2.80	160.16	4,499.94	-3.22	1.16	-3.18	2.00	2.00	0.00
4,600.00	4.80	160.16	4,599.72	-9.45	3.41	-9.33	2.00	2.00	0.00
4,700.00	6.80	160.16	4,699.20	-18.96	6.84	-18.72	2.00	2.00	0.00
4,800.00	8.80	160.16	4,798.27	-31.72	11.44	-31.32	2.00	2.00	0.00
4,860.16	10.00	160.16	4,857.63	-40.97	14.78	-40.45	2.00	2.00	0.00
4,900.00	10.00	160.16	4,896.86	-47.48	17.13	-46.88	0.00	0.00	0.00
5,000.00	10.00	160.16	4,995.34	-63.82	23.02	-63.01	0.00	0.00	0.00
5,100.00	10.00	160.16	5,093.82	-80.16	28.91	-79.15	0.00	0.00	0.00
5,200.00	10.00	160.16	5,192.30	-96.50	34.81	-95.28	0.00	0.00	0.00
5,200.00	10.00	100.10	0,102.00	50.00	J-1.01	30.20	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

Grid

Design:	Permitting Pla	an							
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	10.00	160.16	5,290.78	-112.84	40.70	-111.42	0.00	0.00	0.00
5,400.00 5,500.00	10.00 10.00	160.16 160.16	5,389.26 5,487.74	-129.18 -145.52	46.60 52.49	-127.55 -143.69	0.00 0.00	0.00 0.00	0.00 0.00
5,600.00	10.00	160.16	5,586.22	-145.52 -161.86	58.38	-143.69 -159.82	0.00	0.00	0.00
5,700.00	10.00	160.16	5,684.70	-178.20	64.28	-175.96	0.00	0.00	0.00
5,800.00	10.00	160.16	5,783.18	-194.54	70.17	-192.09	0.00	0.00	0.00
5,900.00	10.00	160.16	5,881.66	-210.87	76.07	-208.22	0.00	0.00	0.00
6,000.00	10.00	160.16	5,980.14	-227.21	81.96	-224.36	0.00	0.00	0.00
6,100.00	10.00	160.16	6,078.61	-243.55	87.85	-240.49	0.00	0.00	0.00
6,200.00	10.00	160.16	6,177.09	-259.89	93.75	-256.63	0.00	0.00	0.00
6,300.00	10.00	160.16	6,275.57	-276.23	99.64	-272.76	0.00	0.00	0.00
6,400.00 6,500.00	10.00 10.00	160.16 160.16	6,374.05 6,472.53	-292.57 -308.91	105.54 111.43	-288.90 -305.03	0.00 0.00	0.00 0.00	0.00 0.00
6,600.00	10.00	160.16	6,472.53 6,571.01	-308.91	117.33	-305.03 -321.17	0.00	0.00	0.00
6,700.00	10.00	160.16	6,669.49	-341.59	123.22	-337.30	0.00	0.00	0.00
6,800.00	10.00	160.16	6,767.97	-357.93	129.11	-353.43	0.00	0.00	0.00
6,900.00	10.00	160.16	6,866.45	-374.27	135.01	-369.57	0.00	0.00	0.00
7,000.00	10.00	160.16	6,964.93	-390.61	140.90	-385.70	0.00	0.00	0.00
7,100.00	10.00	160.16	7,063.41	-406.95	146.80	-401.84	0.00	0.00	0.00
7,200.00	10.00	160.16	7,161.89	-423.29	152.69	-417.97	0.00	0.00	0.00
7,300.00	10.00	160.16	7,260.37	-439.63	158.58	-434.11	0.00	0.00	0.00
7,400.00	10.00	160.16	7,358.85	-455.97	164.48	-450.24	0.00	0.00	0.00
7,500.00	10.00	160.16	7,457.33	-472.31	170.37	-466.38	0.00	0.00	0.00
7,600.00	10.00	160.16	7,555.81	-488.65	176.27	-482.51	0.00	0.00	0.00
7,700.00	10.00	160.16	7,654.29	-504.99	182.16	-498.64	0.00	0.00	0.00
7,800.00	10.00	160.16	7,752.77	-521.33	188.05	-514.78	0.00	0.00	0.00
7,900.00 8,000.00	10.00 10.00	160.16 160.16	7,851.25 7,949.73	-537.67 -554.01	193.95 199.84	-530.91 -547.05	0.00 0.00	0.00 0.00	0.00 0.00
8,100.00	10.00	160.16	8,048.21	-570.35	205.74	-563.18	0.00	0.00	0.00
8,200.00	10.00	160.16	8,146.69	-586.69	211.63	-579.32	0.00	0.00	0.00
8,300.00	10.00	160.16	8,245.17	-603.03	217.52	-595.45	0.00	0.00	0.00
8,400.00	10.00	160.16	8,343.65	-619.37	223.42	-611.59	0.00	0.00	0.00
8,500.00	10.00	160.16	8,442.13	-635.71	229.31	-627.72	0.00	0.00	0.00
8,600.00	10.00	160.16	8,540.61	-652.05	235.21	-643.85	0.00	0.00	0.00
8,700.00	10.00	160.16	8,639.09	-668.39	241.10	-659.99	0.00	0.00	0.00
8,800.00	10.00	160.16	8,737.57	-684.73	247.00	-676.12	0.00	0.00	0.00
8,900.00	10.00	160.16	8,836.05	-701.07	252.89	-692.26	0.00	0.00	0.00
9,000.00 9,100.00	10.00 10.00	160.16 160.16	8,934.53 9,033.01	-717.41 -733.75	258.78 264.68	-708.39 -724.53	0.00 0.00	0.00 0.00	0.00 0.00
9,100.00	10.00	160.16	9,033.01	-733.75 -750.09	270.57	-724.53 -740.66	0.00	0.00	0.00
9,300.00	10.00	160.16	9,229.97	-766.43	276.47	-756.80	0.00	0.00	0.00
9,400.00	10.00	160.16	9,328.45	-782.77	282.36	-772.93	0.00	0.00	0.00
9,500.00	10.00	160.16	9,426.93	-799.11	288.25	-789.06	0.00	0.00	0.00
9,600.00	10.00	160.16	9,525.41	-815.45	294.15	-805.20	0.00	0.00	0.00
9,700.00	10.00	160.16	9,623.89	-831.79	300.04	-821.33	0.00	0.00	0.00
9,800.00	10.00	160.16	9,722.37	-848.13	305.94	-837.47	0.00	0.00	0.00
9,900.00	10.00	160.16	9,820.85	-864.47	311.83	-853.60	0.00	0.00	0.00
10,000.00	10.00	160.16 160.16	9,919.33	-880.81 907.15	317.72	-869.74	0.00	0.00	0.00
10,100.00 10,200.00	10.00 10.00	160.16 160.16	10,017.81 10,116.29	-897.15 -913.49	323.62 329.51	-885.87 -902.01	0.00 0.00	0.00 0.00	0.00 0.00
10,300.00	10.00	160.16	10,214.77	-929.83	335.41	-918.14	0.00	0.00	0.00
10,300.00	10.00	160.16	10,214.77	-929.83 -946.17	341.30	-918.14 -934.27	0.00	0.00	0.00
10,500.00	10.00	160.16	10,411.73	-940.17 -962.51	347.19	-950.41	0.00	0.00	0.00
10,600.00	10.00	160.16	10,510.21	-978.85	353.09	-966.54	0.00	0.00	0.00
10,605.58	10.00	160.16	10,515.70	-979.76	353.42	-967.44	0.00	0.00	0.00
			*						

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

Grid

Design:	Permitting Pla	an							
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)
10,700.00	3.37	89.36	10,609.53	-987.46	358.99	-974.95	10.00	-7.02	-74.99
10,800.00	10.57	18.12	10,708.85	-978.69	364.80	-966.00	10.00	7.19	-71.24
10,900.00	20.29	8.87	10,805.14	-952.78	370.34	-939.91	10.00	9.72	-9.25
11,000.00	30.19	5.51	10,895.49	-910.51	375.45	-897.50	10.00	9.90	-3.36
11,100.00	40.14	3.71	10,977.14	-853.17	379.95	-840.04	10.00	9.95	-1.81
11,200.00	50.10	2.52	11,047.61	-782.51	383.73	-769.29	10.00	9.97	-1.18
11,300.00	60.08	1.64	11,104.77	-700.66	386.67	-687.39	10.00	9.97	-0.88
11,400.00	70.06	0.92	11,146.87	-610.12	388.67	-596.83	10.00	9.98	-0.72
11,500.00	80.04	0.29	11,172.65	-513.63	389.68	-500.37	10.00	9.98	-0.63
11,599.80	90.00	359.70	11,181.30	-414.33	389.66	-401.12	10.00	9.98	-0.59
11,600.00 11,700.00 11,800.00 11,900.00 12,000.00 12,100.00 12,200.00	90.00 90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	-414.13 -314.13 -214.14 -114.14 -14.14 85.86 185.86	389.66 389.13 388.60 388.06 387.53 387.00 386.47	-400.92 -301.00 -201.07 -101.15 -1.22 98.70 198.63	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
12,300.00 12,400.00 12,500.00 12,600.00	90.00 90.00 90.00	359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30	285.86 385.86 485.85 585.85	385.94 385.40 384.87 384.34	298.55 398.48 498.40 598.33	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
12,700.00 12,800.00 12,900.00 13,000.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	685.85 785.85 885.85 985.85 1,085.85	383.81 383.28 382.75 382.21 381.68	698.25 798.18 898.11 998.03 1,097.96	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,200.00 13,300.00 13,400.00 13,500.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	1,185.84 1,285.84 1,385.84 1,485.84 1,585.84	381.15 380.62 380.09 379.55 379.02	1,197.88 1,297.81 1,397.73 1,497.66 1,597.58	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
13,700.00	90.00	359.70	11,181.30	1,685.84	378.49	1,697.51	0.00	0.00	0.00
13,800.00	90.00	359.70	11,181.30	1,785.84	377.96	1,797.43	0.00	0.00	0.00
13,900.00	90.00	359.70	11,181.30	1,885.83	377.43	1,897.36	0.00	0.00	0.00
14,000.00	90.00	359.70	11,181.30	1,985.83	376.90	1,997.28	0.00	0.00	0.00
14,100.00	90.00	359.70	11,181.30	2,085.83	376.36	2,097.21	0.00	0.00	0.00
14,200.00	90.00	359.70	11,181.30	2,185.83	375.83	2,197.14	0.00	0.00	0.00
14,300.00	90.00	359.70	11,181.30	2,285.83	375.30	2,297.06	0.00	0.00	0.00
14,400.00	90.00	359.70	11,181.30	2,385.83	374.77	2,396.99	0.00	0.00	0.00
14,500.00	90.00	359.70	11,181.30	2,485.83	374.24	2,496.91	0.00	0.00	0.00
14,600.00	90.00	359.70	11,181.30	2,585.82	373.70	2,596.84	0.00	0.00	0.00
14,700.00	90.00	359.70	11,181.30	2,685.82	373.17	2,696.76	0.00	0.00	0.00
14,800.00	90.00	359.70	11,181.30	2,785.82	372.64	2,796.69	0.00	0.00	0.00
14,900.00	90.00	359.70	11,181.30	2,885.82	372.11	2,896.61	0.00	0.00	0.00
15,000.00	90.00	359.70	11,181.30	2,985.82	371.58	2,996.54	0.00	0.00	0.00
15,100.00	90.00	359.70	11,181.30	3,085.82	371.05	3,096.46	0.00	0.00	0.00
15,200.00	90.00	359.70	11,181.30	3,185.82	370.51	3,196.39	0.00	0.00	0.00
15,300.00	90.00	359.70	11,181.30	3,285.81	369.98	3,296.31	0.00	0.00	0.00
15,400.00	90.00	359.70	11,181.30	3,385.81	369.45	3,396.24	0.00	0.00	0.00
15,500.00	90.00	359.70	11,181.30	3,485.81	368.92	3,496.17	0.00	0.00	0.00
15,600.00	90.00	359.70	11,181.30	3,585.81	368.39	3,596.09	0.00	0.00	0.00
15,700.00	90.00	359.70	11,181.30	3,685.81	367.85	3,696.02	0.00	0.00	0.00
15,800.00	90.00	359.70	11,181.30	3,785.81	367.32	3,795.94	0.00	0.00	0.00
15,900.00	90.00	359.70	11,181.30	3,885.81	366.79	3,895.87	0.00	0.00	0.00
16,000.00	90.00	359.70	11,181.30	3,985.80	366.26	3,995.79	0.00	0.00	0.00

Planning Report

Database: Company: Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

Design:	Permitting Pla	an							
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 16,200.00 16,300.00 16,400.00 16,500.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	4,085.80 4,185.80 4,285.80 4,385.80 4,485.80	365.73 365.20 364.66 364.13 363.60	4,095.72 4,195.64 4,295.57 4,395.49 4,495.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	4,585.80 4,685.79 4,785.79 4,885.79 4,985.79	363.07 362.54 362.00 361.47 360.94	4,595.34 4,695.27 4,795.20 4,895.12 4,995.05	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00 17,600.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	5,085.79 5,185.79 5,285.79 5,385.78 5,485.78 5,585.78	360.41 359.88 359.35 358.81 358.28 357.75	5,094.97 5,194.90 5,294.82 5,394.75 5,494.67 5,594.60	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,700.00 17,800.00 17,900.00 18,000.00 18,100.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	5,685.78 5,785.78 5,885.78 5,985.78 6,085.77	357.22 356.69 356.15 355.62	5,694.52 5,794.45 5,894.37 5,994.30 6,094.23	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	6,185.77 6,285.77 6,385.77 6,485.77	354.56 354.03 353.50 352.96	6,194.15 6,294.08 6,394.00 6,493.93 6,593.85	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
18,700.00 18,800.00 18,900.00 19,000.00 19,100.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	6,685.77 6,785.76 6,885.76 6,985.76 7,085.76	351.90 351.37 350.84 350.30 349.77	6,693.78 6,793.70 6,893.63 6,993.55 7,093.48	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,200.00 19,300.00 19,400.00 19,500.00 19,600.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	7,185.76 7,285.76 7,385.76 7,485.75 7,585.75	349.24 348.71 348.18 347.65 347.11	7,193.40 7,293.33 7,393.26 7,493.18 7,593.11	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,700.00 19,800.00 19,900.00 20,000.00 20,100.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	7,685.75 7,785.75 7,885.75 7,985.75 8,085.75	346.58 346.05 345.52 344.99	7,693.03 7,792.96 7,892.88 7,992.81 8,092.73	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,200.00 20,300.00 20,400.00 20,500.00	90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30	8,185.75 8,285.74 8,385.74 8,485.74	343.92 343.39 342.86 342.33	8,192.66 8,292.58 8,392.51 8,492.43	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
20,600.00 20,700.00 20,800.00 20,900.00 21,000.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	8,585.74 8,685.74 8,785.74 8,885.74 8,985.73	341.80 341.26 340.73 340.20 339.67	8,592.36 8,692.29 8,792.21 8,892.14 8,992.06	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
21,100.00 21,200.00 21,300.00 21,400.00 21,500.00	90.00 90.00 90.00 90.00 90.00	359.70 359.70 359.70 359.70 359.70	11,181.30 11,181.30 11,181.30 11,181.30 11,181.30	9,085.73 9,185.73 9,285.73 9,385.73 9,485.73	339.14 338.60 338.07 337.54 337.01	9,091.99 9,191.91 9,291.84 9,391.76 9,491.69	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 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)

Site: I Prefer Pi 18_7 Federal Com Well: Dr Pi Fed Unit 18_7 IPP 72H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Dr Pi Fed Unit 18_7 IPP 72H

RKB = 26' @ 3653.30ft (H&P 373) RKB = 26' @ 3653.30ft (H&P 373)

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)
21,600.00	90.00	359.70	11,181.30	9,585.73	336.48	9,591.61	0.00	0.00	0.00
21,700.00	90.00	359.70	11,181.30	9,685.72	335.95	9,691.54	0.00	0.00	0.00
21,800.00	90.00	359.70	11,181.30	9,785.72	335.41	9,791.46	0.00	0.00	0.00
21,900.00	90.00	359.70	11,181.30	9,885.72	334.88	9,891.39	0.00	0.00	0.00
22,000.00	90.00	359.70	11,181.30	9,985.72	334.35	9,991.32	0.00	0.00	0.00
22,040.01	90.00	359.70	11,181.30	10,025.73	334.14	10,031.29	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss targe - Shape	et Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Dr Pi Fed Uni - plan hits target - Point		0.00	11,181.30	10,025.73	334.14	514,617.83	731,651.41	32.413242	-103.716617
KOP (Dr Pi Fed Unit - plan misses tar - Point			11,181.30 49.94ft MD (-464.32 (11179.14 TVI	389.94 D, -464.14 N,	504,128.32 389.80 E)	731,707.21	32.384409	-103.716632
FTP (Dr Pi Fed Unit - plan hits target - Point	0.00 center	0.00	11,181.30	-414.33	389.66	504,178.31	731,706.93	32.384547	-103.716632

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	861.30	861.30	RUSTLER			
	1,153.30	1,153.30	SALADO			
	2,861.30	2,861.30	CASTILE			
	4,619.66	4,619.30	DELAWARE			
	4,690.03	4,689.30	BELL CANYON			
	5,549.31	5,536.30	CHERRY CANYON			
	6,785.10	6,753.30	BRUSHY CANYON			
	8,570.24	8,511.30	BONE SPRING			
	9,669.96	9,594.30	BONE SPRING 1ST			
	10,319.84	10,234.30	BONE SPRING 2ND			

Plan Annota	tions				
	Measured	Vertical	Local Coor	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	4,360.00	4,360.00	0.00	0.00	Build 2°/100'
	4,860.16	4,857.63	-40.97	14.78	Hold 10° Tangent
	10,605.58	10,515.70	-979.76	353.42	KOP, Build 10°/100'
	11,599.80	11,181.30	-414.33	389.66	Landing Point
	22,040.01	11,181.30	10,025.73	334.14	TD at 22040.01' MD

Oxy USA Inc. - Dr Pi Fed Unit 18_7 IPP 72H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11181	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22040	Deepest Expected Fresh Water (ft):	861

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	861	861	
Salado	1153	1153	Salt
Castile	2861	2861	Salt
Delaware	4620	4619	Oil/Gas/Brine
Bell Canyon	4690	4689	Oil/Gas/Brine
Cherry Canyon	5549	5536	Oil/Gas/Brine
Brushy Canyon	6785	6753	Losses
Bone Spring	8570	8511	Oil/Gas
Bone Spring 1st	9670	9594	Oil/Gas
Bone Spring 2nd	10320	10234	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

		M	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	921	0	921	13.375	54.5	J-55	BTC
Salt	12.25	0	4719	0	4717	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	10506	0	10416	7.827	39.3	P110S	Wedge 463
Production	6.75	10306	22040	10216	11181	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed						
those below						
SF SF		Body SF	Joint SF			
Collapse	Burst	Tension	Tension			
1.00	1.100	1.4	1.4			

*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

	Y or N				
Is casing new? If used, attach certification as required in 43 CFR 3160	Y				
Does casing meet API specifications? If no, attach casing specification sheet.					
Is premium or uncommon casing planned? If yes attach casing specification sheet.					
Does the above casing design meet or exceed BLM's minimum standards?	V				
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	Y				
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?	N				
If yes, are the first three strings cemented to surface?					
Is 2 nd 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?					

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3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	962	1.33	14.8	100%	1	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,219	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	665	1.73	12.9	50%	1	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	437	1.65	13.2	5%	7,035	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	903	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	885	1.38	13.2	25%	10,306	Circulate	Class H+Ret., Disper., Salt

Offline Cementing Request

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. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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. Please see Bradenhead CBL Variance attachment for further details.

Cement Top and Liner Overlap

• Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string

The reason for this is so that we can come back and develop shallower benches from the same 7.625"/7.827" mainbore in the future

Cement will be brought to the top of this liner hanger

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4. Pressure Control Equipment

4. Fressure Control Equipment										
BOP installed and		Min.				TVD Depth				
tested before drilling	Size?	Required	Type	- ✓	Tested to:	(ft) per				
which hole?		WP				Section:				
		5M	Annular	√	70% of working pressure					
			Blind Ram	✓						
12.25" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	4717				
		Sivi	Double Ram	✓	250 psi / 5000 psi					
			Other*							
	13-5/8"					5M	Annular	✓	70% of working pressure	
								Blind Ram	√	
9.875" Hole		5M	Pipe Ram		250 psi / 5000 psi	10416				
		1				SIVI	Double Ram	✓	230 psi / 3000 psi	
			Other*							
		5M	Annular	✓	70% of working pressure					
6.75" Hole			Blind Ram	✓						
	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	11181				
		J SIVI	Double Ram	√	250 psi / 5000 psi					
			Other*							

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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.

^{*}Specify if additional ram is utilized

Occidental - Permian New Mexico

Dr Pi Fed Unit 18_7 IPP 72H

Created On: 10/18/2023 at 10:48 AM

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

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 43 CFR part 3170 Subpart 3172.

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.

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 43 CFR part 3170 Subpart 3172 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. Please see BOP Break Testing Variance attachment for further details.

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	Dep	th	Depth -	TVD	Tymo	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type	(ppg)	Viscosity	Loss
Surface	0	921	0	921	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	921	4719	921	4717	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4719	10506	4717	10416	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	10506	22040	10416	11181	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	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITOTING

6. Logging and Testing Procedures

Loggi	Logging, Coring and Testing.						
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).						
res	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						

Addit	ional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5582 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	170°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 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Υ	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: 1887 bbls

Oxy USA Inc. - Dr Pi Fed Unit 18_7 IPP 72H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11181	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22040	Deepest Expected Fresh Water (ft):	861

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	861	861	
Salado	1153	1153	Salt
Castile	2861	2861	Salt
Delaware	4620	4619	Oil/Gas/Brine
Bell Canyon	4690	4689	Oil/Gas/Brine
Cherry Canyon	5549	5536	Oil/Gas/Brine
Brushy Canyon	6785	6753	Losses
Bone Spring	8570	8511	Oil/Gas
Bone Spring 1st	9670	9594	Oil/Gas
Bone Spring 2nd	10320	10234	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

		N	ID	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	921	0	921	13.375	54.5	J-55	ВТС
Intermediate	12.25	0	10506	0	10416	7.827	39.3	P110S	Wedge 463
Production	6.75	10306	22040	10216	11181	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

*Oxy requests the option to run the 10.75" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" / 7.827" Casing the Intermediate II.

**If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate I at 1st trip point below Brushy top (estimated top in formation table above). Cement volumes will be updated on C103 submission.

All Casing SF Values will meet or exceed						
those below						
SF	SF	Body SE	Joint SF			
٥.	٥.	Douy 3.	301116 31			
Collapse	Burst	Tension				

*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	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?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd 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?	

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Occidental - Permian New Mexico Dr Pi Fed Unit 18_7 IPP 72H

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	962	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	1070	1.65	13.2	5%	7,035	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	2452	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	885	1.38	13.2	25%	10,306	Circulate	Class H+Ret., Disper., Salt

Offline Cementing Request

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. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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Cement Top and Liner Overlap

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The reason for this is so that we can come back and develop shallower benches from the same 7.625''/7.827'' mainbore in the future

Cement will be brought to the top of this liner hanger

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Occidental - Permian New Mexico Dr Pi Fed Unit 18_7 IPP 72H

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	•	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓]
12.25" Hole	13-5/8"	5M	Pipe Ram 250 psi / 5000 psi		10416		
			Double Ram		√	230 psi / 3000 psi	
			Other*				
		5M		Annular	√	70% of working pressure	
	13-5/8"	3" 5M		Blind Ram			
6.75" Hole				Pipe Ram		250 psi / 5000 psi	11181
				Double Ram		230 psi / 3000 psi	
			Other*				

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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.

^{*}Specify if additional ram is utilized

Occidental - Permian New Mexico

Dr Pi Fed Unit 18_7 IPP 72H

Created On: 10/18/2023 at 10:31 AM

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

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 43 CFR part 3170 Subpart 3172.

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.

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 43 CFR part 3170 Subpart 3172 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. Please see BOP Break Testing Variance attachment for further details.

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		Tymo	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg) Viscosit		Loss
Surface	0	921	0	921	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	921	10506	921	10416	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	10506	22040	10416	11181	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	PVT/MD Totco/Visual Monitoring
	loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITOTING

6. Logging and Testing Procedures

Loggi	Logging, Coring and Testing.							
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).							
res	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							

Addit	ional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

Created On: 10/18/2023 at 10:31 AM

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5582 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	170°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 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

Ν	H2S is present
Υ	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: 2182 bbls

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

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

	WEEL DOCKTION THAT REALIZED DEDICATION TEXT					
¹ API Number		² Pool Code				
30-025-48163	5695 BILBREY BASIN; BONE SPRING					
4 Property Code		5 Pr	6 Well Number			
332928		DR PI FE	72H			
7 OGRID No.		8 Op	⁹ Elevation			
16696		OXY	Y USA INC.	3627.3'		

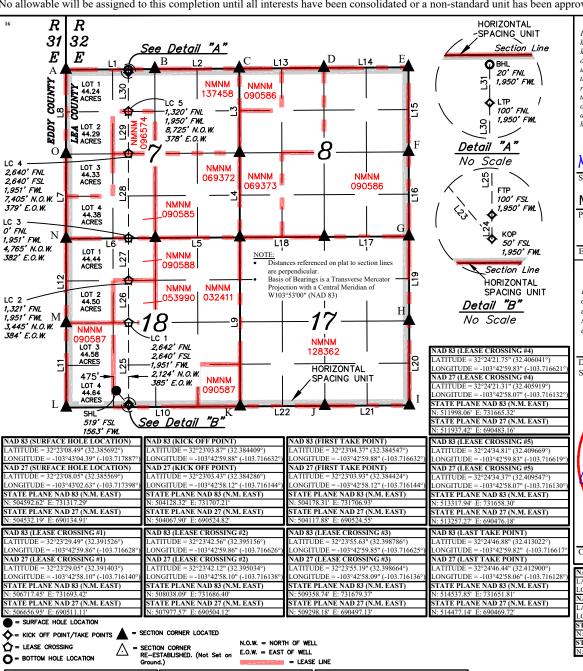
10 Surface Location

١	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	N	18	22S	32E		519	SOUTH	1563	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 7	Township 22S	Range 32E	Lot Idn	Feet from the 20	North/South line NORTH	Feet from the 1950	East/West line WEST	County LEA
12 Dedicated Acre 2560	es 13	Joint or Infill	14 Conse	olidation Code	15 Order No.				

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.



¹⁷ OPERATOR CERTIFICATION

¹⁷ 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.

Melíssa Guídry03/07/24

Melissa Guidry

Printed Name

 $melissa_guidry@oxy.com$

E-mail Address

18 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.

May 02, 2023

Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number:

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°2447.67" (32.413242°)
LONGITUDE = -103°42′59.82" (-103.71661′
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°2447.23" (32.413120°)
LONGITUDE = -103°42′58.06" (-103.71612′
STATE PLANE NAD 83 (N.M. EAST)
N: 514617.83' E: 731651.41"

DRAWN BY: Z.L. 05-15-23

	LINE TAB	LE	LINE TABLE			LINE TABLE		
LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH
L1	S89*32'39"W	2778.17	L12	N00°03'46"W	2640.91	L23	S39*46'58"E	606.43'
L2	S89*41'25"W	2640.32	L13	S89*30'51"W	2641.06'	L24	N00°04'43"W	50.00'
L3	N00°10'50"W	2635.88'	L14	S89*37'22"W	2642.53	L25	N00°03'49"W	2539.64
L4	N00°09'34"W	2638.30'	L15	N00°10'37"W	2644.80'	L26	N00°03'49"W	1320.91'
L5	S89°33'52"W	2640.81	L16	N00°10'34"W	2639.05	L27	N00°03'49"W	1320.91'
L6	S89*32'13"W	2788.14	L17	S89°38'44"W	2643.24	L28	N00°03'49"W	2639.84
L7	N00°04'00"W	2641.40'	L18	S89°42'05"W	2640.91	L29	N00°03'49"W	1320.15'
L8	N00°02'49"W	2638.99	L19	N00°10'15"W	2640.53	L30	N00°03'49"W	1220.15'
L9	N00°09'21"W	5284.30'	L20	N00°09'25"W	2641.42'	L31	N00°02'49"W	80.00'
L10	S89°36'19"W	5436.77	L21	S89*39'10"W	2641.57	3000'	1500'	
L11	N00°04'43"W	2638.22'	L22	S89*38'35"W	2643.34			
		•			•		SCAL	Е

REV: 1	06-	-08-23	T.I. (1	HSU CH.	ANGE)		
		HS	U COORDIN	NATES			
		NAD 27 N.M PLANE, EA		NAD 83 N.M. STATE PLANE, EAST ZONE			
	POINT	NORTHING	EASTING	NORTHING	EASTING		
	A	514553.41'	688519.69'	514614.11'	729701.76'		
	В	514587.20'	691297.12'	514647.90'	732479.22'		
	С	514612.58'	693936.82'	514673.29'	735118.93'		
	D	514646.08'	696577.17'	514706.80'	737759.30'		
	E	514674.60'	699219.04'	514735.32'	740401.19'		
	F	512030.42'	699238.27'	512091.07'	740420.49'		
	G	509391.99'	699257.41'	509452.57'	740439.70'		
	Н	506752.08'	699276.33'	506812.59'	740458.69'		
	I	504111.28'	699294.60'	504171.71'	740477.03'		
	J	504084.17'	696653.66'	504144.60 '	737836.08'		
	K	504056.59'	694010.96'	504117.02'	735193.37'		
	L	503996.27'	688575.56'	504056.69'	729757.94'		
	M	506633.90'	688560.92'	506694.39'	729743.22'		
	N	509274.21'	688547.00'	509334.77'	729729.22'		
	0	511915.01'	688532.88'	511975.65'	729715.03'		

Released to Imaging: 1/27/2025 8:11:35 AM

OXY APD CHANGE SUNDRY LIST

DATE	3/7/2024	
WELL NAME	DR PI FED UNIT 18_7 IPP 72H	
API NUMBER	30-025-48163	
SPUD DATE	11/1/2024	

ITEM	PREVIOUS	UPDATE
NAME	DR PI FED UNIT 18_7 IPP 71H	N/A
NSL	NA	N/A
SHL	310' FSL, 1385' FWL	519' FSL, 1563' FWL
PAD	18_4	N/A
BHL	20' FNL, 2150' FWL	20' FNL, 1950' FWL
HSU SIZE, ACRES	640	2560
POOL	BONESPRING	N/A
TARGET FORMATION	BILBREY BASIN, BONE SPRING	Harkey (Bonespring)
TVD	10977	11181
SURFACE CASING	902' MD/TD, 17.5 (in), 54.5 LBS, 13.375 (in), J-55, BTC	921' MD/TVD, 17.5 (in), 54.5 LBS, 13.375 (in), J-55, BTC
INTERMEDIATE CASING	5583' MD/TVD, 12.25 (in), 26.4 lbs, 7.625 (in), L-80 HC, BTC	10506' MD/10416' TVD, 12.25 (in), 39.3 lbs, 7.827 (in), P110s, Wedge 463
INTERMEDIATE 2 CASING	5583' MD to 10324' MD, 9.875 (in), 26.4 lbs, 7.625 (in), L-80 HC, BTC	Removed
PRODUCTION CASING	21836' MD, 6.75 (in), 20 lbs, 5.5 (in), P-110, DQX	10306' MD to 22040' MD, 6.75 (in), 20 lbs, 5.5 (in), P-110, Wedge 461
LINER OR TIE BACK	NA	N/A
CEMENT	Surface - 954 sxs, 14.8 wt, 1.33 yld	962 sxs, 14.8 wt, 1.33 yld.
	Interm (Tail) - 462 sxs, 13.2 wt, 1.65 yld	1070 sxs, 13.2 wt, 1.65 yld
	Interm, (BH) - 1779 sxs, 12.9 wt, 1.92 yld	2452 sxs, 13.3 wt, 1.71 yld
	Prod - 880 sxs, 13.2 wt, 1.38 yld	885 sxs, 13.2 wt, 1.38 yld
FACILITIES	NA	N/A
OTHER	NA	N/A

OTHER COMMENTS

3S BASE PLAN W/4S CONTINGENCY PLAN - THE SHL, BHL, HSU SIZE, TVD, SURFACE CASING, INTERMEDIATE CASING, AND PRODUCTION CASING ARE CHANGING.

ATTACHMENTS

The C-102, DRILL PLAN, CASING CONNECTIONS, DIRECTIONAL PLAN AND A CONTINGENCY TIE BACK ARE ATTACHED. UPDATED VARIANCE REQUESTS FOR BOP BREAK TESTING, BRADENHEAD CBL, AND OFFLINE CEMENT ARE ATTACHED.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 394373

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	394373
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Create By		Condition Date
pkau	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/27/2025