

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

Sundry Print Reports
10/03/2024

Well Name: PRECIOUS 30-18 Well Location: T23S / R31E / SEC 31 / County or Parish/State: EDDY /

FEDERAL COM NENW / 32.266615 / -103.817544

Well Number: 53H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM21640 Unit or CA Name: Unit or CA Number:

US Well Number: Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2806552

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/13/2024 Time Sundry Submitted: 06:33

Date proposed operation will begin: 08/13/2024

Procedure Description: OXY USA INC. REQUESTS A CHANGE TO THE APPROVED APD. THE 2ND INTERMEDIATE CASING POINT DEPTH CHANGING FROM THE ORIGINAL APD APPROVAL. THE UPDATES ARE DETAILED IN THE ATTACHMENT LABELED 'OXY APD CHANGE SUNDRY'. THE CEMENT VOLUMES HAVE BEEN ADJUSTED ACCORDINGLY. NO CHANGES TO THE SURFACE HOLE LOCATION.

NOI Attachments

Procedure Description

PRECIOUS_30_18_FED_COM_53H____OXY_APD_CHANGE_SUNDRY_LIST_8.13.24_20240813062951.pd

PRECIOUS30_18FEDCOM53H_DrillPlan_20240813062951.pdf

PRECIOUS30_18FEDCOM53H_DirectPlan_20240813062951.pdf

PRECIOUS30_18FEDCOM53H_VAM_SPRINT_SF_5.5in_23ppf_P110RY_20240813062951.pdf

PRECIOUS30_18FEDCOM53H_2024_KPLA_Addendum_WellboreSchematics_20240813062951.pdf

Page 1 of 2

Received by OCD: 10/3/2024 1:13:34 PM
Well Name: PRECIOUS 30-18

FEDERAL COM

Well Location: T23S / R31E / SEC 31 / NENW / 32.266615 / -103.817544

County or Parish/State: EDDY? of

NM

Well Number: 53H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM21640

1640 Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: OXY USA INCORPORATED

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: RONI MATHEW Signed on: AUG 13, 2024 06:30 AM

Name: OXY USA INCORPORATED

Title: REGULATORY SPECIALIST

Street Address: 5 Greenway Plaza, Suite 110

City: Houston State: TX

Phone: (713) 215-7827

Email address: RONI_MATHEW@OXY.COM

Field

Representative Name: JIM WILSON

Street Address: 6001 DEAUVILLE BLVD.

City: MIDLAND State: TX Zip: 79710

Phone: (575)631-2442

Email address: JIM_WILSON@OXY.COM

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:** 10/02/2024

Signature: KEITH IMMATTY

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

BURE	EAU OF LAND MANAGEMENT		5. Lease Serial No.			
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or Tribe	Name		
	RIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agreement, 1	Name and/or No.		
1. Type of Well Oil Well Gas W	ell Other		8. Well Name and No.			
2. Name of Operator			9. API Well No.			
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or Explora	tory Area		
4. Location of Well (Footage, Sec., T.,R.	.,M., or Survey Description)		11. Country or Parish, State			
12. CHEC	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE (OF NOTICE, REPORT OR OT	HER DATA		
TYPE OF SUBMISSION		TYPI	E OF ACTION			
Notice of Intent	Acidize Deep Alter Casing Hydr	en aulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity		
Cubacquent Report		Construction	Recomplete	Other		
Subsequent Report	Change Plans Plug	and Abandon	Temporarily Abandon	_		
Final Abandonment Notice	Convert to Injection Plug	Back	Water Disposal			
is ready for final inspection.)						
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	T:41-				
		Title				
Signature		Date				
	THE SPACE FOR FEDI	ERAL OR STA	TE OFICE USE			
Approved by						
		Title		Date		
	led. Approval of this notice does not warran quitable title to those rights in the subject leduct operations thereon.					
Title 18 U.S.C Section 1001 and Title 43	U.S.C Section 1212, make it a crime for ar	y person knowingly	and willfully to make to any d	epartment 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, 3162.3-3, 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: NENW / 568 FNL / 2503 FWL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.266615 / LONG: -103.817544 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 1 FSL / 2171 FWL / TWSP: 23S / RANGE: 31E / SECTION: 18 / LAT: 32.297217 / LONG: -103.81861 (TVD: 12051 feet, MD: 22876 feet) PPP: SENW / 2642 FSL / 2170 FWL / TWSP: 23S / RANGE: 31E / SECTION: 30 / LAT: 32.275435 / LONG: -103.818619 (TVD: 12051 feet, MD: 14950 feet) PPP: SESW / 100 FSL / 2170 FWL / TWSP: 23S / RANGE: 31E / SECTION: 30 / LAT: 32.268449 / LONG: -103.818622 (TVD: 12051 feet, MD: 12407 feet) PPP: NESW / 1321 FSL / 2170 FWL / TWSP: 23S / RANGE: 31E / SECTION: 19 / LAT: 32.286328 / LONG: -103.818615 (TVD: 12051 feet, MD: 18914 feet) BHL: NESW / 2621 FSL / 2170 FWL / TWSP: 23S / RANGE: 31E / SECTION: 18 / LAT: 32.304419 / LONG: -103.818607 (TVD: 12051 feet, MD: 25493 feet)

OXY APD CHANGE SUNDRY LIST

DATE	8/13/2024
WELL NAME	PRECIOUS 30-18 FEDERAL COM 53H
API NUMBER	30-015-55312

ITEM	PREVIOUS	UPDATE
NAME	NA	
NSL	NA	
SHL	NA	
PAD	NA	
BHL	NA	
HSU SIZE, ACRES	NA	
POOL	NA	
TARGET FORMATION	NA	
TVD	12051'	12046'
SURFACE CASING	NA	
INTERMEDIATE CASING	NA	
INTERMEDIATE 2 CASING	11421'	11700'
PRODUCTION CASING	NA	
LINER OR TIE BACK	NA	
CEMENT - SURFACE (TAIL)	NA	
CEMENT - INTERM 1ST (TAIL)	NA	
CEMENT - INTERM 1ST (LEAD)	NA	
CEMENT - INTERM 2ND (TAIL)	310 SX, 13.2 LBS, 1.68 YLD, Class C + RETARDER, DISP, EXCESS 5%	329 SX, 13.2 LBS, 1.68 YLD, Class C + RETARDER, DISP, EXCESS 5%
CEMENT - INTERM 2ND (BH)	239 SX, 13.3 LBS, 1.71 YLD, Class C + ACCELERATOR, EXCESS 25%	242 SX, 13.3 LBS, 1.71 YLD, Class C + ACCELERATOR, EXCESS 25%
CEMENT - PROD (TAIL)	822 SX, 13.3 LBS, 1.84 YLD, Class C + RETARDER, EXCESS 25%	792 SX, 13.3 LBS, 1.84 YLD, Class C + RETARDER, EXCESS 25%
FACILITIES	NA	NA
OTHER	NA	NA

OTHER COMMENTS

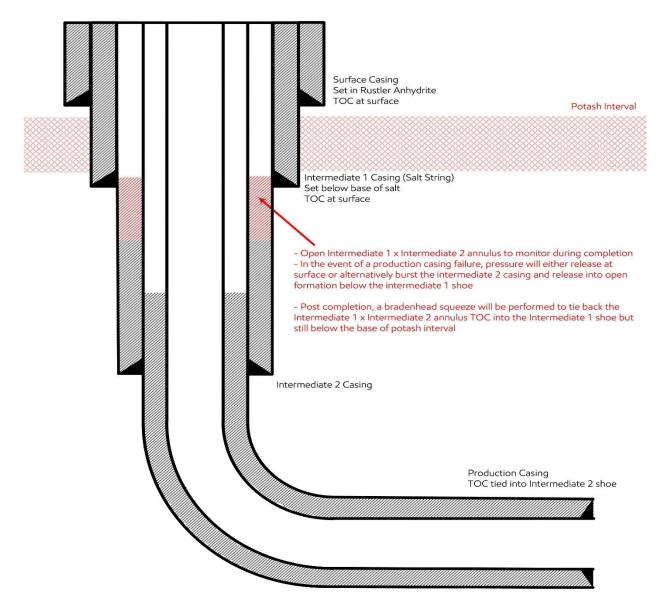
2ND INTERMEDIATE CASING POINT DEPTH CHANGING FROM ORIGINAL APD APPROVAL. CEMENT VOLUMES ADJUSTED ACCORDINGLY.

ATTACHMENTS

DRILL PLAN, DIRECTIONAL PLAN ARE ATTACHED.

Revision Date – May 21, 2024

4-String Design - Open Int 1 x Int 2 Annulus



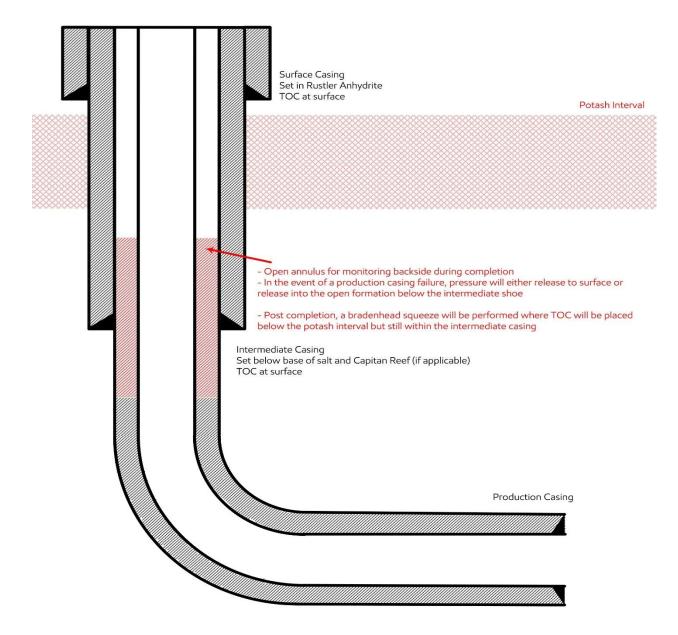
Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe
- 5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date – May 21, 2024

3-String Design – Open Production Casing Annulus



Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126
- 4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that SF > 1.0; Anti-Collision Reports will be provided with APD Packages for review where SF < 1.5 against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

PRD NM DIRECTIONAL PLANS (NAD 1983) Precious 30_18 Precious 30_18 Fed Com 53H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

12 August, 2024

Planning Report

HOPSPP Database:

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site:

Precious 30_18

Well:

Precious 30_18 Fed Com 53H

Wellbore: Design:

Map Zone:

Wellbore #1 Permitting Plan Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Site Precious 30_18

Site Position: From:

Мар

Northing: Easting:

Northing:

461,098.38 usft 698,809.83 usft

Latitude: Longitude:

32.266607 -103.823862

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Precious 30_18 Fed Com 53H

Well Position +N/-S +E/-W **Position Uncertainty**

0.00 ft 0.00 ft 2.00 ft 0.28°

Easting: Wellhead Elevation: 461.110.52 usf 700,762.46 usf ft

Latitude: Longitude: **Ground Level:**

32.266615 -103.817545 3,348.70 ft

Grid Convergence:

Wellbore #1

Model Name Declination Field Strength Magnetics Sample Date Dip Angle (°) (nT) HDGM FILE 11/17/2023 6.42 59.83 47,486.00000000

Design Permitting Plan

Audit Notes:

Wellbore

Version: Vertical Section:

Phase: Depth From (TVD)

(ft)

0.00

PROTOTYPE +N/-S (ft)

0.00

Tie On Depth: +E/-W (ft)

Remarks

0.00

0.00 Direction

(°) 358.36

Plan Survey Tool Program Date 8/12/2024

Depth From Depth To (ft)

(ft) 0.00 25,286.31 Permitting Plan (Wellbore #1)

Survey (Wellbore)

Tool Name

MWD+HRGM+Sag+MSA

B005Mc_MWD+HRGM+SA

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

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	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.04	10.00	292.62	4,297.51	16.74	-40.18	2.00	2.00	0.00	292.62	
7,290.97	10.00	292.62	7,242.99	216.52	-519.64	0.00	0.00	0.00	0.00	
8,291.05	0.00	0.00	8,238.00	250.00	-600.00	1.00	-1.00	0.00	180.00	
11,013.05	0.00	0.00	10,960.00	250.00	-600.00	0.00	0.00	0.00	0.00	
11,513.05	20.00	15.00	11,449.91	333.44	-577.64	4.00	4.00	0.00	15.00	
11,813.05	20.00	15.00	11,731.82	432.55	-551.09	0.00	0.00	0.00	0.00	
12,400.38	90.40	10.00	12,046.43	876.16	-462.66	12.00	11.99	-0.85	-5.31	
12,855.38	90.40	10.00	12,043.25	1,324.24	-383.65	0.00	0.00	0.00	0.00	
13,368.44	90.40	359.74	12,039.64	1,834.76	-340.16	2.00	0.00	-2.00	-89.94	
25,286.31	90.40	359.74	11,955.45	13,752.20	-394.57	0.00	0.00	0.00	0.00 PE	3HL (Precious

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

Planned Survey Plan	Design:	Permitting Pla	an							
Measured Depth Inclination Azimuth Certical Depth (r) (r	Plannod Survey									
Depth	Planned Survey									
100,000	Depth			Depth			Section	Rate	Rate	Rate
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300.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
\$60.00 0.00 0.00 \$60.00 0.00 0.00 0.00 0	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
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4,900.00 10.00 292.62 4,888.35 56.82 -136.36 60.70 0.00 0.00 0.00 5,000.00 10.00 292.62 4,986.83 63.49 -152.39 67.84 0.00 0.00 0.00 5,100.00 10.00 292.62 5,085.31 70.17 -168.42 74.98 0.00 0.00 0.00 5,200.00 10.00 292.62 5,183.79 76.85 -184.45 82.11 0.00 0.00 0.00										
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5,100.00 10.00 292.62 5,085.31 70.17 -168.42 74.98 0.00 0.00 0.00 5,200.00 10.00 292.62 5,183.79 76.85 -184.45 82.11 0.00 0.00 0.00										
5,200.00 10.00 292.62 5,183.79 76.85 -184.45 82.11 0.00 0.00 0.00										
0.00 0.00 10.00 292.02 0,262.21 60.00 -200.46 89.25 0.00 0.00 0.00										
	5,300.00	10.00	292.62	5,282.21	83.53	-200.48	ŏ9.∠5	0.00	0.00	0.00

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

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)
5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	10.00 10.00 10.00 10.00 10.00	292.62 292.62 292.62 292.62 292.62	5,380.75 5,479.23 5,577.71 5,676.19 5,774.67	90.21 96.89 103.57 110.25 116.93	-216.51 -232.54 -248.57 -264.60 -280.63	96.38 103.52 110.66 117.79 124.93	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
5,900.00 6,000.00 6,100.00 6,200.00 6,300.00	10.00 10.00 10.00 10.00 10.00	292.62 292.62 292.62 292.62 292.62	5,873.15 5,971.63 6,070.12 6,168.60 6,267.08	123.61 130.29 136.97 143.65 150.33	-296.66 -312.69 -328.72 -344.75 -360.78	132.07 139.20 146.34 153.47 160.61	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
6,400.00 6,500.00 6,600.00 6,700.00 6,800.00	10.00 10.00 10.00 10.00 10.00	292.62 292.62 292.62 292.62 292.62	6,365.56 6,464.04 6,562.52 6,661.00 6,759.48	157.00 163.68 170.36 177.04 183.72	-376.81 -392.84 -408.87 -424.90 -440.93	167.75 174.88 182.02 189.16 196.29	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
6,900.00 7,000.00 7,100.00 7,200.00 7,290.97	10.00 10.00 10.00 10.00 10.00	292.62 292.62 292.62 292.62 292.62	6,857.96 6,956.44 7,054.92 7,153.40 7,242.99	190.40 197.08 203.76 210.44 216.52	-456.96 -472.99 -489.02 -505.05 -519.64	203.43 210.56 217.70 224.84 231.33	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,300.00 7,400.00 7,500.00 7,600.00 7,700.00	9.91 8.91 7.91 6.91 5.91	292.62 292.62 292.62 292.62 292.62	7,251.88 7,350.54 7,449.46 7,548.62 7,648.00	217.12 223.40 229.03 233.99 238.29	-521.08 -536.17 -549.67 -561.58 -571.88	231.97 238.69 244.70 250.00 254.59	1.00 1.00 1.00 1.00 1.00	-1.00 -1.00 -1.00 -1.00 -1.00	0.00 0.00 0.00 0.00 0.00
7,800.00 7,900.00 8,000.00 8,100.00 8,200.00	4.91 3.91 2.91 1.91 0.91	292.62 292.62 292.62 292.62 292.62	7,747.55 7,847.25 7,947.07 8,046.98 8,146.95	241.91 244.87 247.16 248.78 249.72	-580.59 -587.69 -593.18 -597.06 -599.33	258.46 261.62 264.07 265.80 266.81	1.00 1.00 1.00 1.00 1.00	-1.00 -1.00 -1.00 -1.00 -1.00	0.00 0.00 0.00 0.00 0.00
8,291.05 8,300.00 8,400.00 8,500.00 8,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8,238.00 8,246.95 8,346.95 8,446.95 8,546.95	250.00 250.00 250.00 250.00 250.00	-600.00 -600.00 -600.00 -600.00	267.10 267.10 267.10 267.10 267.10	1.00 0.00 0.00 0.00 0.00	-1.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,700.00 8,800.00 8,900.00 9,000.00 9,100.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8,646.95 8,746.95 8,846.95 8,946.95 9,046.95	250.00 250.00 250.00 250.00 250.00	-600.00 -600.00 -600.00 -600.00	267.10 267.10 267.10 267.10 267.10	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
9,200.00 9,300.00 9,400.00 9,500.00 9,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,146.95 9,246.95 9,346.95 9,446.95 9,546.95	250.00 250.00 250.00 250.00 250.00	-600.00 -600.00 -600.00 -600.00	267.10 267.10 267.10 267.10 267.10	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
9,700.00 9,800.00 9,900.00 10,000.00 10,100.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,646.95 9,746.95 9,846.95 9,946.95 10,046.95	250.00 250.00 250.00 250.00 250.00	-600.00 -600.00 -600.00 -600.00	267.10 267.10 267.10 267.10 267.10	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
10,200.00 10,300.00 10,400.00 10,500.00 10,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,146.95 10,246.95 10,346.95 10,446.95 10,546.95	250.00 250.00 250.00 250.00 250.00	-600.00 -600.00 -600.00 -600.00	267.10 267.10 267.10 267.10 267.10	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: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

esign:	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 10,800.00	0.00 0.00	0.00 0.00	10,646.95 10,746.95	250.00 250.00	-600.00 -600.00	267.10 267.10	0.00 0.00	0.00 0.00	0.00 0.00
10,900.00	0.00	0.00	10,746.95	250.00	-600.00	267.10	0.00	0.00	0.00
11,000.00	0.00	0.00	10,946.95	250.00	-600.00	267.10	0.00	0.00	0.00
11,013.05	0.00	0.00	10,960.00	250.00	-600.00	267.10	0.00	0.00	0.00
11,100.00	3.48	15.00	11,046.89	252.55	-599.32	269.63	4.00	4.00	0.00
11,200.00	7.48	15.00	11,146.42	261.77	-596.85	278.78	4.00	4.00	0.00
11,300.00	11.48	15.00	11,245.03	277.67	-592.59	294.55	4.00	4.00	0.00
11,400.00	15.48	15.00	11,342.26	300.18	-586.55	316.88	4.00	4.00	0.00
11,500.00	19.48	15.00	11,437.62	329.18	-578.78	345.65	4.00	4.00	0.00
11,513.05 11,600.00	20.00 20.00	15.00 15.00	11,449.91 11,531.61	333.44 362.17	-577.64 -569.95	349.87 378.36	4.00 0.00	4.00 0.00	0.00 0.00
11,700.00	20.00	15.00	11,625.58	395.20	-561.09	411.13	0.00	0.00	0.00
11,800.00	20.00	15.00	11,719.55	428.24	-552.24	443.90	0.00	0.00	0.00
11,813.05	20.00	15.00	11,731.82	432.55	-551.09	448.18	0.00	0.00	0.00
11,900.00	30.40	13.10	11,810.38	468.44	-542.22	483.80	12.00	11.97	-2.18
12,000.00	42.39	12.00	11,890.73	526.27	-529.43	541.23	12.00	11.98	-1.10
12,100.00	54.38	11.31	11,957.03	599.36	-514.40	613.86	12.00	11.99	-0.69
12,200.00	66.37	10.81	12,006.37	684.52	-497.78	698.51	12.00	11.99	-0.51
12,300.00	78.36	10.39	12,036.62	778.02	-480.30	791.48	12.00	11.99	-0.42
12,400.00	90.35	10.00	12,046.43	875.79	-462.72	888.70	12.00	11.99	-0.38
12,400.38	90.40	10.00	12,046.43	876.16	-462.66	889.07	12.00	11.99	-0.38
12,500.00	90.40	10.00	12,045.73	974.27	-445.36	986.64	0.00	0.00	0.00
12,600.00 12,700.00	90.40 90.40	10.00 10.00	12,045.03 12,044.34	1,072.75 1,171.22	-427.99 -410.63	1,084.58 1,182.52	0.00 0.00	0.00 0.00	0.00 0.00
12,800.00	90.40	10.00	12,043.64	1,269.70	-393.26	1,280.46	0.00	0.00	0.00
12,855.38	90.40	10.00	12,043.04	1,324.24	-383.65	1,280.40	0.00	0.00	0.00
12,900.00	90.40	9.11	12,043.23	1,368.24	-376.24	1,378.47	2.00	0.00	-2.00
13,000.00	90.40	7.11	12,042.24	1,467.23	-362.14	1,477.01	2.00	0.00	-2.00
13,100.00	90.40	5.11	12,041.53	1,566.66	-351.50	1,576.09	2.00	0.00	-2.00
13,200.00	90.40	3.11	12,040.83	1,666.39	-344.34	1,675.58	2.00	0.00	-2.00
13,300.00	90.40	1.11	12,040.12	1,766.32	-340.66	1,775.36	2.00	0.00	-2.00
13,368.44	90.40	359.74	12,039.64	1,834.76	-340.16	1,843.76	2.00	0.00	-2.00
13,400.00	90.40	359.74	12,039.42	1,866.31	-340.30	1,875.30	0.00	0.00	0.00
13,500.00	90.40	359.74	12,038.71	1,966.31	-340.76	1,975.27	0.00	0.00	0.00
13,600.00	90.40	359.74	12,038.00	2,066.30	-341.21	2,075.24	0.00	0.00	0.00
13,700.00	90.40	359.74	12,037.30	2,166.30	-341.67	2,175.21	0.00	0.00	0.00
13,800.00 13,900.00	90.40 90.40	359.74 359.74	12,036.59 12,035.88	2,266.30 2,366.29	-342.13 -342.58	2,275.18 2,375.15	0.00 0.00	0.00 0.00	0.00 0.00
14,000.00	90.40	359.74 359.74	12,035.88	2,366.29	-342.58 -343.04	2,375.15 2,475.11	0.00	0.00	0.00
14,100.00	90.40	359.74	12,034.47	2,566.29	-343.50	2,575.08	0.00	0.00	0.00
14,200.00	90.40	359.74	12,033.76	2,666.28	-343.95	2,675.05	0.00	0.00	0.00
14,300.00	90.40	359.74	12,033.06	2,766.28	-344.41	2,775.02	0.00	0.00	0.00
14,400.00	90.40	359.74	12,032.35	2,866.28	-344.87	2,874.99	0.00	0.00	0.00
14,500.00	90.40	359.74	12,031.64	2,966.27	-345.32	2,974.96	0.00	0.00	0.00
14,600.00	90.40	359.74	12,030.94	3,066.27	-345.78	3,074.92	0.00	0.00	0.00
14,700.00	90.40	359.74	12,030.23	3,166.27	-346.24	3,174.89	0.00	0.00	0.00
14,800.00 14,900.00	90.40 90.40	359.74 359.74	12,029.53 12,028.82	3,266.26 3,366.26	-346.69 -347.15	3,274.86 3,374.83	0.00 0.00	0.00 0.00	0.00 0.00
15,000.00	90.40	359.74 359.74	12,028.82	3,466.26	-347.15 -347.61	3,374.83 3,474.80	0.00	0.00	0.00
15,100.00	90.40	359.74	12,027.41	3,566.25	-348.06	3,574.77	0.00	0.00	0.00
15,200.00	90.40	359.74	12,026.70	3,666.25	-348.52	3,674.74	0.00	0.00	0.00
15,300.00	90.40	359.74	12,025.99	3,766.24	-348.97	3,774.70	0.00	0.00	0.00
15,400.00	90.40	359.74	12,025.29	3,866.24	-349.43	3,874.67	0.00	0.00	0.00
15,500.00	90.40	359.74	12,024.58	3,966.24	-349.89	3,974.64	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
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)
15,600.00	90.40	359.74	12,023.87	4,066.23	-350.34	4,074.61	0.00	0.00	0.00
15,700.00	90.40	359.74	12,023.17	4,166.23	-350.80	4,174.58	0.00	0.00	0.00
15,800.00	90.40	359.74	12,022.46	4,266.23	-351.26	4,274.55	0.00	0.00	0.00
15,900.00	90.40	359.74	12,021.76	4,366.22	-351.71	4,374.51	0.00	0.00	0.00
16,000.00	90.40	359.74	12,021.05	4,466.22	-352.17	4,474.48	0.00	0.00	0.00
16,100.00	90.40	359.74	12.020.34	4,566.22	-352.63	4,574.45	0.00	0.00	0.00
16,100.00	90.40	359.74	12,020.34	4,666.21	-352.03	4,674.45	0.00	0.00	0.00
16,300.00	90.40	359.74	12,019.04	4,766.21	-353.06		0.00	0.00	0.00
16,400.00	90.40	359.74	12,018.93	4,766.21	-353.54 -354.00	4,774.39	0.00	0.00	0.00
16,500.00	90.40	359.74	12,016.22	4,966.20	-354.00 -354.45	4,874.36 4,974.32	0.00	0.00	0.00
16,600.00	90.40	359.74	12,016.81	5,066.20	-354.91	5,074.29	0.00	0.00	0.00
16,700.00	90.40	359.74	12,016.10	5,166.19	-355.37	5,174.26	0.00	0.00	0.00
16,800.00	90.40	359.74	12,015.40	5,266.19	-355.82	5,274.23	0.00	0.00	0.00
16,900.00	90.40	359.74	12,014.69	5,366.19	-356.28	5,374.20	0.00	0.00	0.00
17,000.00	90.40	359.74	12,013.98	5,466.18	-356.74	5,474.17	0.00	0.00	0.00
17,100.00	90.40	359.74	12,013.28	5,566.18	-357.19	5,574.14	0.00	0.00	0.00
17,200.00	90.40	359.74	12,012.57	5,666.18	-357.65	5,674.10	0.00	0.00	0.00
17,300.00	90.40	359.74	12,011.87	5,766.17	-358.11	5,774.07	0.00	0.00	0.00
17,400.00	90.40	359.74	12,011.16	5,866.17	-358.56	5,874.04	0.00	0.00	0.00
17,500.00	90.40	359.74	12,010.45	5,966.17	-359.02	5,974.01	0.00	0.00	0.00
17,600.00	90.40	359.74	12,009.75	6,066.16	-359.47	6,073.98	0.00	0.00	0.00
17,700.00	90.40	359.74	12,009.04	6,166.16	-359.93	6,173.95	0.00	0.00	0.00
17,800.00	90.40	359.74	12,008.33	6,266.16	-360.39	6,273.91	0.00	0.00	0.00
17,900.00	90.40	359.74	12,000.53	6,366.15	-360.84	6,373.88	0.00	0.00	0.00
18,000.00	90.40	359.74	12,006.92	6,466.15	-361.30	6,473.85	0.00	0.00	0.00
18,100.00	90.40	359.74	12,006.21	6,566.15	-361.76	6,573.82	0.00	0.00	0.00
18,200.00	90.40	359.74	12,005.51	6,666.14	-362.21	6,673.79	0.00	0.00	0.00
18,300.00	90.40	359.74	12,004.80	6,766.14	-362.67	6,773.76	0.00	0.00	0.00
18,400.00	90.40	359.74	12,004.10	6,866.13	-363.13	6,873.72	0.00	0.00	0.00
18,500.00	90.40	359.74	12,003.39	6,966.13	-363.58	6,973.69	0.00	0.00	0.00
18,600.00	90.40	359.74	12,002.68	7,066.13	-364.04	7,073.66	0.00	0.00	0.00
18,700.00	90.40	359.74	12,001.98	7,166.12	-364.50	7,173.63	0.00	0.00	0.00
18,800.00	90.40	359.74	12,001.27	7,266.12	-364.95	7,273.60	0.00	0.00	0.00
18,900.00	90.40	359.74	12,000.56	7,366.12	-365.41	7,373.57	0.00	0.00	0.00
19,000.00	90.40	359.74	11,999.86	7,466.11	-365.87	7,473.54	0.00	0.00	0.00
19,100.00	90.40	359.74	11,999.15	7,566.11	-366.32	7,573.50	0.00	0.00	0.00
19,200.00	90.40	359.74	11,998.44	7,666.11	-366.78	7,673.47	0.00	0.00	0.00
19,300.00	90.40	359.74	11,997.74	7,766.10	-367.24	7,773.44	0.00	0.00	0.00
19,400.00	90.40	359.74	11,997.03	7,866.10	-367.69	7,873.41	0.00	0.00	0.00
19,500.00	90.40	359.74	11,996.32	7,966.10	-368.15	7,973.38	0.00	0.00	0.00
				8.066.09				0.00	
19,600.00	90.40 90.40	359.74 350.74	11,995.62	-,	-368.61	8,073.35	0.00		0.00
19,700.00 19,800.00	90.40	359.74 359.74	11,994.91 11,994.21	8,166.09 8,266.09	-369.06 -369.52	8,173.31 8,273.28	0.00 0.00	0.00 0.00	0.00 0.00
19,800.00	90.40	359.74 359.74	11,994.21		-369.52 -369.98	8,273.28 8,373.25		0.00	0.00
20,000.00	90.40	359.74 359.74	11,993.50	8,366.08 8,466.08	-369.98 -370.43	8,473.22	0.00 0.00	0.00	0.00
20,100.00	90.40	359.74	11,992.09	8,566.07	-370.89	8,573.19	0.00	0.00	0.00
20,200.00	90.40	359.74	11,991.38	8,666.07	-371.34	8,673.16	0.00	0.00	0.00
20,300.00	90.40	359.74	11,990.67	8,766.07	-371.80	8,773.12	0.00	0.00	0.00
20,400.00	90.40	359.74	11,989.97	8,866.06	-372.26	8,873.09	0.00	0.00	0.00
20,500.00	90.40	359.74	11,989.26	8,966.06	-372.71	8,973.06	0.00	0.00	0.00
20,600.00	90.40	359.74	11,988.55	9,066.06	-373.17	9,073.03	0.00	0.00	0.00
20,700.00	90.40	359.74	11,987.85	9,166.05	-373.63	9,173.00	0.00	0.00	0.00
20,800.00	90.40	359.74	11,987.14	9,266.05	-374.08	9,272.97	0.00	0.00	0.00
20,900.00	90.40	359.74	11,986.44	9,366.05	-374.54	9,372.94	0.00	0.00	0.00
21,000.00	90.40	359.74	11,985.73	9,466.04	-375.00	9,472.90	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

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)
21,100.00	90.40	359.74	11,985.02	9,566.04	-375.45	9,572.87	0.00	0.00	0.00
21,200.00	90.40	359.74	11,984.32	9,666.04	-375.91	9,672.84	0.00	0.00	0.00
21,300.00	90.40	359.74	11,983.61	9,766.03	-376.37	9,772.81	0.00	0.00	0.00
21,400.00	90.40	359.74	11,982.90	9,866.03	-376.82	9,872.78	0.00	0.00	0.00
21,500.00	90.40	359.74	11,982.20	9,966.03	-377.28	9,972.75	0.00	0.00	0.00
21,600.00	90.40	359.74	11,981.49	10,066.02	-377.74	10,072.71	0.00	0.00	0.00
21,700.00	90.40	359.74	11,980.78	10,166.02	-378.19	10,172.68	0.00	0.00	0.00
21,800.00	90.40	359.74	11,980.08	10,266.01	-378.65	10,272.65	0.00	0.00	0.00
21,900.00	90.40	359.74	11,979.37	10,366.01	-379.11	10,372.62	0.00	0.00	0.00
22,000.00	90.40	359.74	11,978.67	10,466.01	-379.56	10,472.59	0.00	0.00	0.00
22,100.00	90.40	359.74	11,977.96	10,566.00	-380.02	10,572.56	0.00	0.00	0.00
22,200.00	90.40	359.74	11,977.25	10,666.00	-380.48	10,672.52	0.00	0.00	0.00
							0.00		
22,300.00	90.40	359.74	11,976.55	10,766.00	-380.93	10,772.49		0.00	0.00
22,400.00	90.40	359.74	11,975.84	10,865.99	-381.39	10,872.46	0.00	0.00	0.00
22,500.00	90.40	359.74	11,975.13	10,965.99	-381.84	10,972.43	0.00	0.00	0.00
22,600.00	90.40	359.74	11,974.43	11,065.99	-382.30	11,072.40	0.00	0.00	0.00
22,700.00	90.40	359.74	11,973.72	11,165.98	-382.76	11,172.37	0.00	0.00	0.00
22,800.00	90.40	359.74	11,973.01	11,265.98	-383.21	11,272.34	0.00	0.00	0.00
22,900.00	90.40	359.74	11,972.31	11,365.98	-383.67	11,372.30	0.00	0.00	0.00
23,000.00	90.40	359.74	11,971.60	11,465.97	-384.13	11,472.27	0.00	0.00	0.00
	90.40	359.74	11,970.89	11,565.97			0.00	0.00	0.00
23,100.00				,	-384.58	11,572.24			
23,200.00	90.40	359.74	11,970.19	11,665.97	-385.04	11,672.21	0.00	0.00	0.00
23,300.00	90.40	359.74	11,969.48	11,765.96	-385.50	11,772.18	0.00	0.00	0.00
23,400.00	90.40	359.74	11,968.78	11,865.96	-385.95	11,872.15	0.00	0.00	0.00
23,500.00	90.40	359.74	11,968.07	11,965.95	-386.41	11,972.11	0.00	0.00	0.00
23,600.00	90.40	359.74	11,967.36	12,065.95	-386.87	12,072.08	0.00	0.00	0.00
23,700.00	90.40	359.74	11,966.66	12,165.95	-387.32	12,172.05	0.00	0.00	0.00
23,800.00	90.40	359.74	11,965.95	12,265.94	-387.78	12,272.02	0.00	0.00	0.00
23,900.00	90.40	359.74	11,965.24	12,365.94	-388.24	12,371.99	0.00	0.00	0.00
24,000.00	90.40	359.74	11,964.54	12,465.94	-388.69	12,471.96	0.00	0.00	0.00
24,100.00	90.40	359.74	11,963.83	12,565.93	-389.15	12,571.93	0.00	0.00	0.00
,		359.74 359.74		,				0.00	0.00
24,200.00	90.40		11,963.12	12,665.93	-389.61	12,671.89	0.00		
24,300.00	90.40	359.74	11,962.42	12,765.93	-390.06	12,771.86	0.00	0.00	0.00
24,400.00	90.40	359.74	11,961.71	12,865.92	-390.52	12,871.83	0.00	0.00	0.00
24,500.00	90.40	359.74	11,961.01	12,965.92	-390.98	12,971.80	0.00	0.00	0.00
24,600.00	90.40	359.74	11,960.30	13,065.92	-391.43	13,071.77	0.00	0.00	0.00
24,700.00	90.40	359.74	11,959.59	13,165.91	-391.89	13,171.74	0.00	0.00	0.00
24,800.00	90.40	359.74	11,958.89	13,265.91	-392.35	13,271.70	0.00	0.00	0.00
24,900.00	90.40	359.74	11,958.18	13,365.91	-392.80	13,371.67	0.00	0.00	0.00
25,000.00	90.40	359.74	11,957.47	13,465.90	-393.26	13,471.64	0.00	0.00	0.00
	90.40	359.74	11,956.77		-393.71		0.00	0.00	0.00
25,100.00			,	13,565.90		13,571.61			
25,200.00	90.40	359.74	11,956.06	13,665.89	-394.17	13,671.58	0.00	0.00	0.00
25,286.31	90.40	359.74	11,955.45	13,752.20	-394.57	13,757.86	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Precious 30_18

Well: Precious 30_18 Fed Com 53H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Precious 30_18 Fed Com 53H

RKB = 25' @ 3373.70ft RKB = 25' @ 3373.70ft

Grid

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
KOP (Precious 30_18 - plan misses targe - Point	0.00 t center by 70	0.00 01.51ft at 0.0	0.00 Oft MD (0.0	615.83 0 TVD, 0.00 I	-335.96 N, 0.00 E)	461,726.31	700,426.52	32.268312	-103.818622
PBHL (Precious 30_18 - plan hits target ce - Point	0.00 enter	0.01	11,955.45	13,752.20	-394.57	474,861.84	700,367.92	32.304419	-103.818608
FTP (Precious 30_18 - plan misses targe - Point	0.00 t center by 16		12,046.79 223.07ft MD	665.82) (12015.11 T	-336.19 VD, 705.49 N	461,776.30 , -493.79 E)	700,426.29	32.268449	-103.818622

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	361.70	361.70	RUSTLER			
	677.70	677.70	SALADO			
	2,604.70	2,604.70	CASTILE			
	4,043.99	4,043.70	DELAWARE			
	4,080.15	4,079.70	BELL CANYON			
	4,985.65	4,972.70	CHERRY CANYON			
	6,294.54	6,261.70	BRUSHY CANYON			
	7,997.62	7,944.70	BONE SPRING			
	9,030.75	8,977.70	BONE SPRING 1ST			
	9,671.75	9,618.70	BONE SPRING 2ND			
	10,876.75	10,823.70	BONE SPRING 3RD			
	11,351.90	11,295.70	WOLFCAMP			
	11,509.64	11,446.70	WOLFCAMP A			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	dinates +E/-W (ft)	Comment
3,800.00	3,800.00	0.00	0.00	Build 2°/100'
4,300.04	4,297.51	16.74	-40.18	Hold 10° Tangent
7,290.97	7,242.99	216.52	-519.64	Drop 1°/100'
8,291.05	8,238.00	250.00	-600.00	Hold Vertical
11,013.05	10,960.00	250.00	-600.00	Build 4°/100'
11,513.05	11,449.91	333.44	-577.64	Hold 20°
11,813.05	11,731.82	432.55	-551.09	KOP, Build & Turn 12°/100'
12,400.38	12,046.43	876.16	-462.66	Landing Point
12,855.38	12,043.25	1,324.24	-383.65	Turn 2°/100'
13,368.44	12,039.64	1,834.76	-340.16	Hold
25,286.31	11,955.45	13,752.20	-394.57	TD at 25286.31' MD

Received by OCD: 10/3/2024 1:13:34 PM

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Oxy USA Inc. - PRECIOUS 30_18 FED COM 53H Drill Plan

1. Geologic Formations

TVD of Target (ft):	12046	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	25286	Deepest Expected Fresh Water (ft):	362

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	362	362	
Salado	678	678	Salt
Castile	2605	2605	Salt
Delaware	4044	4044	Oil/Gas/Brine
Bell Canyon	4080	4080	Oil/Gas/Brine
Cherry Canyon	4986	4973	Oil/Gas/Brine
Brushy Canyon	6295	6262	Losses
Bone Spring	7998	7945	Oil/Gas
Bone Spring 1st	9031	8978	Oil/Gas
Bone Spring 2nd	9672	9619	Oil/Gas
Bone Spring 3rd	10877	10824	Oil/Gas
Wolfcamp	11352	11296	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	ID	T\	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	422	0	422	13.375	54.5	J-55	ВТС
Salt	12.25	0	4144	0	4143	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	11780	0	11700	7.625	29.7	L-80 HC	ВТС
Production	6.75	0	25286	0	12046	5.5	23	P-110	Sprint-SF

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

Occidental - Permian New Mexico

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			

	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).	<u> </u>
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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there 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	441	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3,644	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	584	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	329	1.68	13.2	5%	6,545	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	242	1.71	13.3	25%	3,644	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	792	1.84	13.3	25%	11,280	Circulate	Class C+Ret.

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.

4. Pressure Control Equipment

Received by OCD: 10/3/2024 1:13:34 PM

BOP installed and		Min.					TVD Depth			
tested before drilling which hole?	Size?	Required WP		Туре	>	Tested to:	(ft) per Section:			
		5M		Annular	>	70% of working pressure				
			E	Blind Ram	√					
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4143			
		SIVI	D	ouble Ram	>	250 psi / 5000 psi				
			Other*							
		5M		Annular	>	70% of working pressure	11700			
		<i>T</i> N 4	E	Blind Ram	>					
9.875" Hole	13-5/8"			Pipe Ram		250 poi / 5000 poi				
					5M	D	ouble Ram	>	250 psi / 5000 psi	
			Other*							
		5M		Annular	√	100% of working pressure				
			Е	Blind Ram	√					
6.75" Hole	13-5/8"	10M	Pipe Ram			250 pai / 10000 pai	12046			
			Double Ram		\	250 psi / 10000 psi				
			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 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

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack,* Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

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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.

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 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

	Depth		Depth - TVD			Weight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Loss
Surface	0	422	0	422	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	422	4144	422	4143	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4144	11780	4143	11700	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	11780	25286	11700	12046	Water-Based or Oil- Based Mud	9.5 - 13.5	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,

What will be used to monitor the	DVT/NAD Totac/Viewal Namitoring
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

Loggi	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					

Addi	tional 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	8457 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	177°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

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

Y H2S Plan attached

8. Other facets of operation

Yes/No
Yes
res
Yes

Total Estimated Cuttings Volume: 1990 bbls



CONNECTION DATA SHEET



Make-up Torque (ft-lb) 20,250 MIN 22,750 OPTI 25,250 MAX Torque with Sealability (ft-lb) 40,000 MTS Locked Flank Torque (ft-lb) 4,550 MIN 15,920 MAX

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.670	in.
Nominal Wall Thickness	0.415	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	23.00	lb/ft
Plain End Weight	22.56	lb/ft
Drift	4.545	in.
Grade Type	Controlle	ed Yield
Grade Type Minimum Yield Strength	Controlle	ed Yield <i>ksi</i>
Minimum Yield Strength	110	ksi
Minimum Yield Strength Maximum Yield Strength	110 125	ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength	110 125 140	ksi ksi ksi

CONNECTION PROPERTIES

Connection Type	Semi-Pr	emium Integral Semi-Flu
Nominal Connection OD	5.779	in.
Nominal Connection ID	4.615	in.
Make-up Loss	5.606	in.
Tension Efficiency	92	% Pipe Body
Compression Efficiency	92	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	671	klb
Compression Strength	671	klb
Internal Pressure Resistance	14,530	psi
External Pressure Resistance	14,540	psi
Maximum Bending, Structural	80	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



(2) MTS: Maximum Torque with Sealability.

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

CONDITIONS

Action 389711

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	389711
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

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