Well Name: POKER LAKE UNIT 20-8 BD

Well Location: T25S / R30E / SEC 20 / NWSE / 32.113248 / -103.89969

County or Parish/State: EDDY / NM

Well Number: 126H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC064894A

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001553248

Well Status: Drilling Well

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2761420

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/14/2023

Time Sundry Submitted: 08:20

Date proposed operation will begin: 09/14/2023

Procedure Description: Poker Lake Unit 20-8 BD Fed 126H Sidetrack High-Level Summary While drilling the intermediate the BHA became stuck at 8,405’ MD on the Poker Lake Unit 20-8 BD 126H. The drilling string was parted at 7,193’ MD, top of fish. Circulation was maintained down the drilling string until the drill string parted. We attempted retrieving the fish and were unsuccessful. XTO proposes to isolate the original wellbore and sidetrack from the intermediate hole. Attachments: Sidetrack Procedure Current WBD Proposed WBD Directional Plan Current Status: XTO has set 9-5/8” surface casing with cement to surface at 970’ MD. Intermediate drilled to 8,405’ MD. Fish stuck at 7,193’ to 8,337’ MD. Requested Proposal: XTO proposes to set a 500’ isolation cement plug at top of fish and a 1000’ cement kickoff plug inside the 8.75” intermediate wellbore, sidetrack, and redrill the 8.75” intermediate section. Proposed Procedure: 1. Set a 500’ isolation plug at 7,193’ MD (top of fish), 205 sks Class H 15.6 ppg 2. Set a 1000’ balanced kickoff plug at 6,500’ MD, 525 sks Class H 17.5 ppg 3. RIH with 8.75” Intermediate sidetrack BHA a. Tag TOC 5,500’ to 5,900’ MD b. Planned KOP at 5,900’ MD 4. Drill to original planned intermediate TD of 10,983’ MD. Current Well Information: 1. Surface: 12.25” hole at 990’ MD, 9-5/8” casing at 970’ MD. Cemented with Lead: 245sks 12.5 ppg Class C cement (2.08 yield); Tail: 190sks 14.8 ppg Class C cement (1.33 yield). Circ to surface. 55 bbls returned to surface. 2. Intermediate: 8.75” hole @ 8,405’ MD. Fish: 7,193’ to 8,337’ MD (8.75” bit and drill sting). Formation Tops

NOI Attachments

Procedure Description

Poker_Lake_Unit_20_8_BD_126H_Attachments_20231114081959.pdf

Poker_Lake_unit_20_8_BD_126H_Sdtrk_Procedure_20231114081958.pdf

BLM_Appvl_Email_20231114081958.pdf

Well Name: POKER LAKE UNIT 20-8 BD	**Well Location:** T25S / R30E / SEC 20 / NWSE / 32.113248 / -103.89969	**County or Parish/State:** EDDY / NM
Well Number: 126H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMLC064894A	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001553248	**Well Status:** Drilling Well	**Operator:** XTO PERMIAN OPERATING LLC

PLU_20_8_Brushy_Draw_126H_ST01_Plan_1_Well_Plan_Rpt_20231114081957.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: CASSIE EVANS

Signed on: NOV 14, 2023 08:20 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland **State:** TX

Phone: (432) 218-3671

Email address: RANELL.KLEIN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 03/15/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ 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 Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

8,337 MD.

Requested Proposal: XTO proposes to set a 500 isolation cement plug at top of fish and a 1000 cement kickoff plug inside the 8.75 intermediate wellbore, sidetrack, and redrill the 8.75 intermediate section.

Proposed Procedure:

1. Set a 500 isolation plug at 7,193 MD (top of fish), 205 sks Class H 15.6 ppg

2. Set a 1000 balanced kickoff plug at 6,500 MD, 525 sks Class H 17.5 ppg

3. RIH with 8.75 Intermediate sidetrack BHA

a. Tag TOC 5,500 to 5,900 MD

b. Planned KOP at 5,900 MD

4. Drill to original planned intermediate TD of 10,983 MD.

Current Well Information:

1. Surface: 12.25 hole at 990 MD, 9-5/8 casing at 970 MD. Cemented with Lead: 245sks 12.5 ppg Class C cement (2.08 yield); Tail: 190sks 14.8 ppg Class C cement (1.33 yield). Circ to surface. 55 bbls returned to surface.

2. Intermediate: 8.75 hole @ 8,405 MD. Fish: 7,193 to 8,337 MD (8.75 bit and drill sting).

Formation Tops

Location of Well

0. SHL: NWSE / 1718 FSL / 2064 FEL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.113248 / LONG: -103.89969 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 566 FEL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108614 / LONG: -103.896637 (TVD: 11030 feet, MD: 11800 feet)

BHL: NENE / 2611 FSL / 1980 FEL / TWSP: 25S / RANGE: 30E / SECTION: 8 / LAT: 32.152177 / LONG: -103.896612 (TVD: 11030 feet, MD: 27561 feet)

Poker Lake Unit 20-8 BD Fed 126H Sidetrack

Current Status: XTO has set 9-5/8" surface casing with cement to surface at 970' MD. Intermediate drilled to 8,405' MD. Fish stuck at 7,193' to 8,337' MD.

Requested Proposal: XTO proposes to set a 500' isolation cement plug at top of fish and a 1000' cement kickoff plug inside the 8.75" intermediate wellbore, sidetrack, and redrill the 8.75" intermediate section.

Proposed Procedure:

1. Set a 500' isolation plug at 7,193' MD (top of fish), 205 sks Class H 15.6 ppg
2. Set a 1000' balanced kickoff plug at 6,500' MD, 525 sks Class H 17.5 ppg
3. RIH with 8.75" Intermediate sidetrack BHA
    a. Tag TOC 5,500' to 5,900' MD
    b. Planned KOP at 5,900' MD
4. Drill to original planned intermediate TD of 10,983' MD.

Current Well Information:

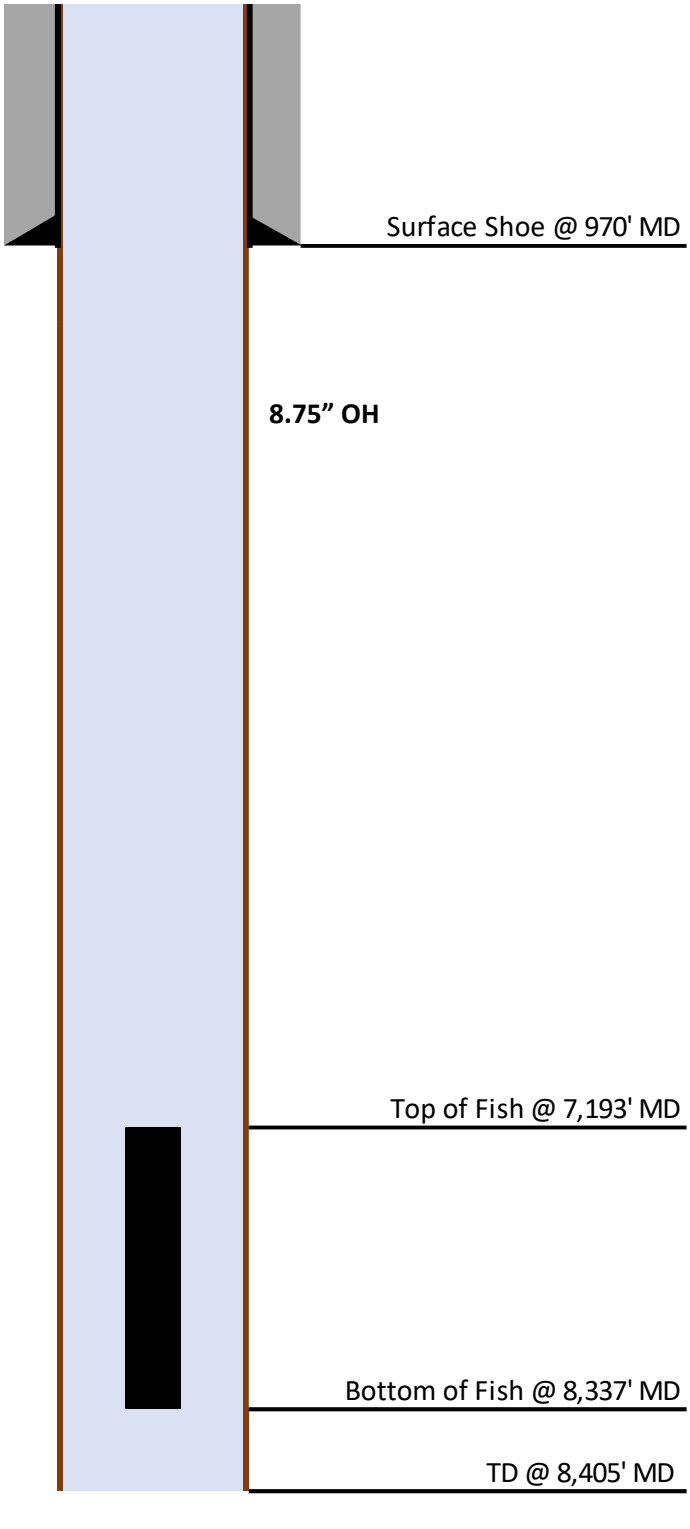
1. Surface: 12.25" hole at 990' MD, 9-5/8" casing at 970' MD. Cemented with Lead: 245sks 12.5 ppg Class C cement (2.08 yield); Tail: 190sks 14.8 ppg Class C cement (1.33 yield). Circ to surface. 55 bbls returned to surface.

2. Intermediate: 8.75" hole @ 8,405' MD. Fish: 7,193' to 8,337' MD (8.75" bit and drill sting).

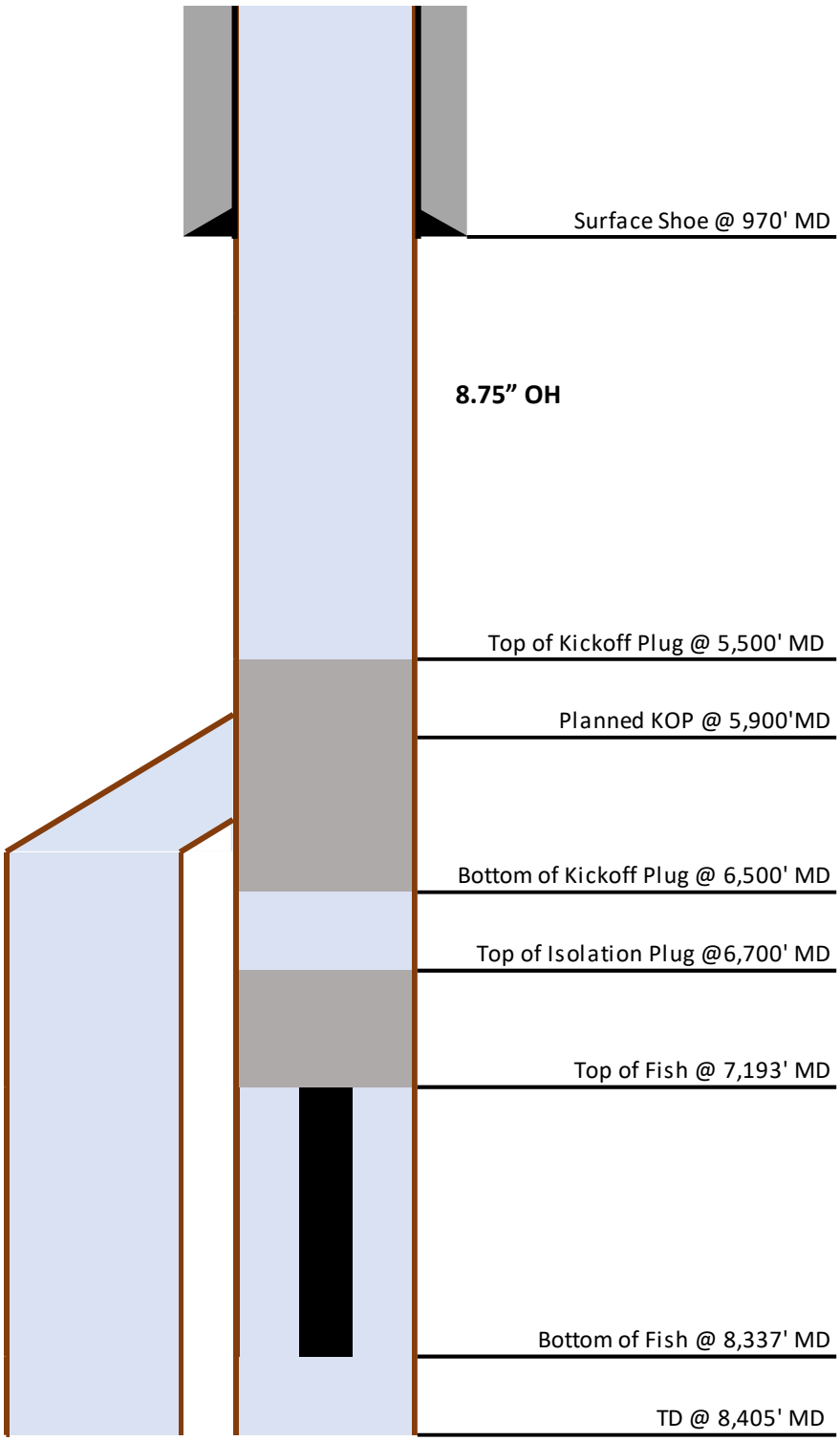
Formation Tops

	TVD	MD
Rustler	842	842
Top Salt	1084	1084
Base Salt	3439	3520
Delaware	3655	3747
Cherry Canyon	4581	4716
Brushy Canyon	6147	6341
Bone Spring	7450	7670
Avalon	7611	7832

PLU 20-8 BD Fed 126H Current WBD



PLU 20-8 BD Fed 126H Proposed WBD



ROC

HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)
(HP463) PLU 20-8 Brushy Draw Pad D - Plans
PLU 20-8 BD - 126H

ST01

Plan: Plan 1

Standard Planning Report

03 June, 2023

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Project HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site (HP463) PLU 20-8 Brushy Draw Pad D - Plans

Site Position:		**Northing:**	405,071.70 usft	**Latitude:**	32° 6' 46.495 N
From:	Map	**Easting:**	634,322.10 usft	**Longitude:**	103° 53' 58.193 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well PLU 20-8 BD - 126H

Well Position	**+N/-S**	0.0 usft	**Northing:**	405,065.80 usft	**Latitude:**	32° 6' 46.455 N
	+E/-W	0.0 usft	**Easting:**	633,862.10 usft	**Longitude:**	103° 54' 3.542 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,199.0 usft
Grid Convergence:		0.23 °				

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/3/2023	6.46	59.69	47,191.64717599

Design Plan 1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	5,642.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.15

Plan Survey Tool Program **Date** 6/3/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	5,642.0	24,644.0	Plan 1 (ST01)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	0.00	0.00	0.00	0.00	
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	1.32	1.10	3.48	34.57	
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	1.16	1.04	2.28	27.33	
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	6.00	-5.23	-14.63	-155.06	
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	0.00	0.00	0.00	0.00	
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	2.00	-1.72	-6.53	-152.71	
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	0.00	0.00	0.00	0.00	
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	2.00	-1.48	17.22	160.23	PLU 20-8 BD 126H S
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H S
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	10.00	9.46	15.61	143.97	
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	2.00	0.00	-2.00	-90.00	
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H L
24,644.0	90.00	359.75	11,533.0	11,532.1	30.7	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H B

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
165.0	0.43	335.11	165.0	0.6	-0.3	0.6	0.26	0.26	0.00
228.0	0.47	322.68	228.0	1.0	-0.5	1.0	0.17	0.06	-19.73
291.0	0.58	315.44	291.0	1.4	-0.9	1.4	0.20	0.17	-11.49
354.0	0.61	314.53	354.0	1.9	-1.4	1.9	0.05	0.05	-1.44
417.0	0.62	316.34	417.0	2.4	-1.8	2.4	0.03	0.02	2.87
480.0	0.68	309.55	480.0	2.8	-2.4	2.8	0.15	0.10	-10.78
543.0	0.60	306.17	543.0	3.3	-2.9	3.3	0.14	-0.13	-5.37
606.0	0.72	308.44	606.0	3.7	-3.5	3.7	0.19	0.19	3.60
669.0	0.63	304.64	669.0	4.2	-4.1	4.1	0.16	-0.14	-6.03
701.0	0.81	314.94	701.0	4.4	-4.4	4.4	0.69	0.56	32.19
796.0	1.23	320.08	796.0	5.7	-5.5	5.7	0.45	0.44	5.41
891.0	1.24	316.83	890.9	7.2	-6.9	7.2	0.07	0.01	-3.42
916.0	1.27	320.76	915.9	7.6	-7.2	7.6	0.36	0.12	15.72
982.0	1.18	325.54	981.9	8.7	-8.1	8.7	0.21	-0.14	7.24
1,077.0	0.97	352.17	1,076.9	10.3	-8.7	10.3	0.56	-0.22	28.03
1,172.0	1.50	174.68	1,171.9	9.9	-8.7	9.9	2.60	0.56	-186.83
1,267.0	1.89	171.61	1,266.8	7.1	-8.4	7.1	0.42	0.41	-3.23
1,362.0	4.14	176.77	1,361.7	2.1	-8.0	2.1	2.38	2.37	5.43
1,457.0	6.85	176.70	1,456.3	-6.9	-7.5	-7.0	2.85	2.85	-0.07
1,552.0	9.02	174.86	1,550.3	-20.0	-6.5	-20.0	2.30	2.28	-1.94
1,647.0	10.63	172.33	1,643.9	-36.1	-4.6	-36.1	1.75	1.69	-2.66
1,742.0	12.79	174.95	1,737.0	-55.3	-2.5	-55.3	2.34	2.27	2.76
1,838.0	14.17	179.18	1,830.3	-77.6	-1.4	-77.6	1.77	1.44	4.41
1,933.0	15.84	182.14	1,922.1	-102.2	-1.7	-102.2	1.93	1.76	3.12
2,028.0	17.60	182.11	2,013.1	-129.5	-2.8	-129.5	1.85	1.85	-0.03
2,123.0	17.60	180.43	2,103.6	-158.2	-3.4	-158.2	0.53	0.00	-1.77
2,218.0	16.92	179.71	2,194.3	-186.4	-3.4	-186.4	0.75	-0.72	-0.76
2,313.0	16.04	178.97	2,285.4	-213.4	-3.1	-213.4	0.95	-0.93	-0.78
2,408.0	17.16	177.62	2,376.5	-240.5	-2.3	-240.5	1.25	1.18	-1.42
2,503.0	17.75	176.30	2,467.1	-268.9	-0.8	-268.9	0.75	0.62	-1.39
2,598.0	16.64	175.20	2,557.9	-296.9	1.3	-296.9	1.22	-1.17	-1.16
2,694.0	17.76	175.56	2,649.6	-325.2	3.6	-325.2	1.17	1.17	0.38
2,789.0	17.27	175.56	2,740.2	-353.7	5.8	-353.7	0.52	-0.52	0.00
2,884.0	16.33	176.65	2,831.1	-381.1	7.7	-381.1	1.04	-0.99	1.15
2,979.0	16.10	178.77	2,922.3	-407.6	8.7	-407.6	0.67	-0.24	2.23
3,074.0	18.02	177.36	3,013.1	-435.5	9.7	-435.5	2.07	2.02	-1.48
3,169.0	17.06	173.00	3,103.7	-464.0	12.0	-464.0	1.71	-1.01	-4.59
3,264.0	15.56	172.23	3,194.9	-490.5	15.5	-490.4	1.60	-1.58	-0.81
3,360.0	17.19	176.27	3,287.0	-517.4	18.1	-517.3	2.07	1.70	4.21
3,455.0	18.51	178.76	3,377.4	-546.5	19.4	-546.4	1.60	1.39	2.62
3,550.0	18.25	175.60	3,467.6	-576.4	20.8	-576.3	1.08	-0.27	-3.33
3,645.0	18.14	190.06	3,557.9	-605.8	19.4	-605.7	4.74	-0.12	15.22
3,740.0	16.61	188.93	3,648.5	-633.8	14.7	-633.7	1.65	-1.61	-1.19
3,835.0	15.68	186.84	3,739.8	-659.9	11.1	-659.9	1.15	-0.98	-2.20
3,930.0	15.91	187.05	3,831.2	-685.6	7.9	-685.6	0.25	0.24	0.22
4,026.0	16.20	186.53	3,923.5	-711.9	4.8	-711.9	0.34	0.30	-0.54
4,121.0	15.81	188.00	4,014.8	-737.9	1.5	-737.9	0.59	-0.41	1.55
4,216.0	15.27	188.02	4,106.3	-763.1	-2.0	-763.1	0.57	-0.57	0.02
4,311.0	15.70	186.94	4,197.9	-788.3	-5.3	-788.3	0.54	0.45	-1.14
4,406.0	19.71	180.66	4,288.3	-817.1	-7.1	-817.1	4.67	4.22	-6.61
4,501.0	19.81	180.43	4,377.8	-849.2	-7.4	-849.2	0.13	0.11	-0.24

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,596.0	19.82	180.84	4,467.1	-881.4	-7.7	-881.4	0.15	0.01	0.43
4,691.0	18.98	181.48	4,556.7	-912.9	-8.4	-913.0	0.91	-0.88	0.67
4,786.0	17.78	181.75	4,646.9	-942.9	-9.2	-942.9	1.27	-1.26	0.28
4,881.0	17.72	182.50	4,737.4	-971.8	-10.3	-971.8	0.25	-0.06	0.79
4,976.0	17.07	182.46	4,828.0	-1,000.2	-11.5	-1,000.2	0.68	-0.68	-0.04
5,072.0	17.23	182.53	4,919.8	-1,028.5	-12.8	-1,028.5	0.17	0.17	0.07
5,167.0	17.22	181.89	5,010.5	-1,056.6	-13.8	-1,056.6	0.20	-0.01	-0.67
5,262.0	16.02	180.39	5,101.5	-1,083.7	-14.4	-1,083.8	1.34	-1.26	-1.58
5,357.0	13.65	176.57	5,193.4	-1,108.0	-13.8	-1,108.1	2.70	-2.49	-4.02
5,452.0	12.76	175.99	5,285.8	-1,129.7	-12.4	-1,129.7	0.95	-0.94	-0.61
5,547.0	12.17	176.37	5,378.6	-1,150.2	-11.0	-1,150.2	0.63	-0.62	0.40
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	-1,169.9	0.42	-0.37	-0.93
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	-1,182.1	1.32	1.10	3.48
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	-1,204.5	1.16	1.04	2.28
5,850.0	10.85	173.06	5,674.5	-1,215.0	-7.8	-1,215.0	6.00	-5.30	-13.46
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	-1,218.0	6.00	-5.03	-18.07
5,900.0	10.00	170.00	5,723.8	-1,223.7	-6.4	-1,223.7	0.00	0.00	0.00
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	-1,226.6	0.00	0.00	0.00
6,000.0	8.56	164.88	5,822.4	-1,239.6	-3.0	-1,239.6	2.00	-1.74	-6.17
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	-1,243.5	2.00	-1.67	-7.60
6,100.0	8.09	162.75	5,921.4	-1,253.2	1.1	-1,253.2	0.00	0.00	0.00
6,200.0	8.09	162.75	6,020.4	-1,266.7	5.3	-1,266.6	0.00	0.00	0.00
6,300.0	8.09	162.75	6,119.4	-1,280.1	9.5	-1,280.1	0.00	0.00	0.00
6,318.3	8.09	162.75	6,137.5	-1,282.5	10.3	-1,282.5	0.00	0.00	0.00
Brushy Canyon									
6,400.0	8.09	162.75	6,218.4	-1,293.5	13.7	-1,293.5	0.00	0.00	0.00
6,500.0	8.09	162.75	6,317.4	-1,307.0	17.8	-1,306.9	0.00	0.00	0.00
6,600.0	8.09	162.75	6,416.4	-1,320.4	22.0	-1,320.3	0.00	0.00	0.00
6,700.0	8.09	162.75	6,515.4	-1,333.9	26.2	-1,333.8	0.00	0.00	0.00
6,800.0	8.09	162.75	6,614.4	-1,347.3	30.4	-1,347.2	0.00	0.00	0.00
6,900.0	8.09	162.75	6,713.4	-1,360.7	34.5	-1,360.6	0.00	0.00	0.00
7,000.0	8.09	162.75	6,812.4	-1,374.2	38.7	-1,374.1	0.00	0.00	0.00
7,100.0	8.09	162.75	6,911.5	-1,387.6	42.9	-1,387.5	0.00	0.00	0.00
7,200.0	8.09	162.75	7,010.5	-1,401.1	47.1	-1,400.9	0.00	0.00	0.00
7,300.0	8.09	162.75	7,109.5	-1,414.5	51.2	-1,414.4	0.00	0.00	0.00
7,400.0	8.09	162.75	7,208.5	-1,427.9	55.4	-1,427.8	0.00	0.00	0.00
7,500.0	8.09	162.75	7,307.5	-1,441.4	59.6	-1,441.2	0.00	0.00	0.00
7,501.0	8.09	162.75	7,308.5	-1,441.5	59.6	-1,441.3	0.00	0.00	0.00
Basal Brushy Canyon									
7,600.0	8.09	162.75	7,406.5	-1,454.8	63.8	-1,454.6	0.00	0.00	0.00
7,682.8	8.09	162.75	7,488.5	-1,465.9	67.2	-1,465.8	0.00	0.00	0.00
Bone Spring									
7,692.9	8.09	162.75	7,498.5	-1,467.3	67.6	-1,467.1	0.00	0.00	0.00
Bone Spring Lime Fm									
7,700.0	8.09	162.75	7,505.5	-1,468.3	67.9	-1,468.1	0.00	0.00	0.00
7,800.0	8.09	162.75	7,604.5	-1,481.7	72.1	-1,481.5	0.00	0.00	0.00
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	-1,486.3	0.00	0.00	0.00
7,845.5	7.91	163.21	7,649.5	-1,487.8	74.0	-1,487.6	2.00	-1.88	4.91
Avalon Shale									
7,900.0	6.90	166.35	7,703.6	-1,494.6	75.8	-1,494.4	2.00	-1.86	5.76
8,000.0	5.12	175.26	7,803.0	-1,504.9	77.6	-1,504.6	2.00	-1.77	8.91
8,100.0	3.59	192.52	7,902.7	-1,512.4	77.3	-1,512.2	2.00	-1.53	17.26

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	-1,516.8	2.00	-0.86	33.34
PLU 20-8 BD 126H ST01 VP Pln1									
8,200.0	2.76	225.00	8,002.6	-1,517.1	74.9	-1,516.9	0.00	0.00	0.00
8,215.9	2.76	225.00	8,018.5	-1,517.6	74.4	-1,517.4	0.00	0.00	0.00
Avalon Lime									
8,256.0	2.76	225.00	8,058.5	-1,519.0	73.0	-1,518.8	0.00	0.00	0.00
Lower Avalon Shale									
8,300.0	2.76	225.00	8,102.5	-1,520.5	71.5	-1,520.3	0.00	0.00	0.00
8,400.0	2.76	225.00	8,202.4	-1,523.9	68.1	-1,523.7	0.00	0.00	0.00
8,423.2	2.76	225.00	8,225.5	-1,524.7	67.3	-1,524.5	0.00	0.00	0.00
1st Bone Spring Lime									
8,500.0	2.76	225.00	8,302.2	-1,527.3	64.7	-1,527.1	0.00	0.00	0.00
8,600.0	2.76	225.00	8,402.1	-1,530.7	61.3	-1,530.5	0.00	0.00	0.00
8,625.4	2.76	225.00	8,427.5	-1,531.6	60.4	-1,531.4	0.00	0.00	0.00
1st Bone Spring Ss									
8,700.0	2.76	225.00	8,502.0	-1,534.1	57.9	-1,533.9	0.00	0.00	0.00
8,800.0	2.76	225.00	8,601.9	-1,537.5	54.5	-1,537.3	0.00	0.00	0.00
8,900.0	2.76	225.00	8,701.8	-1,540.9	51.1	-1,540.7	0.00	0.00	0.00
8,997.8	2.76	225.00	8,799.5	-1,544.2	47.8	-1,544.1	0.00	0.00	0.00
2nd Bone Spring Lime									
9,000.0	2.76	225.00	8,801.7	-1,544.3	47.7	-1,544.2	0.00	0.00	0.00
9,100.0	2.76	225.00	8,901.6	-1,547.7	44.3	-1,547.6	0.00	0.00	0.00
9,200.0	2.76	225.00	9,001.4	-1,551.1	40.9	-1,551.0	0.00	0.00	0.00
9,300.0	2.76	225.00	9,101.3	-1,554.5	37.5	-1,554.4	0.00	0.00	0.00
9,400.0	2.76	225.00	9,201.2	-1,557.9	34.1	-1,557.8	0.00	0.00	0.00
9,500.0	2.76	225.00	9,301.1	-1,561.3	30.7	-1,561.2	0.00	0.00	0.00
9,536.4	2.76	225.00	9,337.5	-1,562.5	29.5	-1,562.4	0.00	0.00	0.00
2nd Bone Spring Ss									
9,541.5	2.76	225.00	9,342.5	-1,562.7	29.3	-1,562.6	0.00	0.00	0.00
2nd Bone Spring A Sand									
9,600.0	2.76	225.00	9,401.0	-1,564.7	27.3	-1,564.6	0.00	0.00	0.00
9,620.5	2.76	225.00	9,421.5	-1,565.4	26.6	-1,565.3	0.00	0.00	0.00
2nd Bone Spring T/B Carb									
9,697.6	2.76	225.00	9,498.5	-1,568.0	24.0	-1,567.9	0.00	0.00	0.00
2nd Bone Spring C Sand									
9,700.0	2.76	225.00	9,500.9	-1,568.1	23.9	-1,568.0	0.00	0.00	0.00
9,766.7	2.76	225.00	9,567.5	-1,570.4	21.6	-1,570.3	0.00	0.00	0.00
3rd Bone Spring Lm									
9,800.0	2.76	225.00	9,600.7	-1,571.5	20.5	-1,571.4	0.00	0.00	0.00
9,900.0	2.76	225.00	9,700.6	-1,574.9	17.1	-1,574.8	0.00	0.00	0.00
10,000.0	2.76	225.00	9,800.5	-1,578.3	13.7	-1,578.2	0.00	0.00	0.00
10,100.0	2.76	225.00	9,900.4	-1,581.7	10.3	-1,581.7	0.00	0.00	0.00
10,180.2	2.76	225.00	9,980.5	-1,584.4	7.6	-1,584.4	0.00	0.00	0.00
3rd Bone Spring Sh									
10,200.0	2.76	225.00	10,000.3	-1,585.1	6.9	-1,585.1	0.00	0.00	0.00
10,300.0	2.76	225.00	10,100.2	-1,588.5	3.5	-1,588.5	0.00	0.00	0.00
10,396.4	2.76	225.00	10,196.5	-1,591.8	0.2	-1,591.8	0.00	0.00	0.00
3rd Bone Spring Sh Base									
10,400.0	2.76	225.00	10,200.1	-1,591.9	0.1	-1,591.9	0.00	0.00	0.00
10,500.0	2.76	225.00	10,299.9	-1,595.3	-3.3	-1,595.3	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	2.76	225.00	10,399.8	-1,598.7	-6.7	-1,598.7	0.00	0.00	0.00
10,602.7	2.76	225.00	10,402.5	-1,598.8	-6.8	-1,598.8	0.00	0.00	0.00
3rd Bone Spring Ss									
10,700.0	2.76	225.00	10,499.7	-1,602.1	-10.1	-1,602.1	0.00	0.00	0.00
10,800.0	2.76	225.00	10,599.6	-1,605.5	-13.5	-1,605.5	0.00	0.00	0.00
10,853.0	2.76	225.00	10,652.5	-1,607.3	-15.3	-1,607.3	0.00	0.00	0.00
Red Hills SS									
10,900.0	2.76	225.00	10,699.5	-1,608.9	-16.9	-1,608.9	0.00	0.00	0.00
10,939.1	2.76	225.00	10,738.5	-1,610.2	-18.2	-1,610.3	0.00	0.00	0.00
Wolfcamp									
10,966.1	2.76	225.00	10,765.5	-1,611.1	-19.1	-1,611.2	0.00	0.00	0.00
Wolfcamp X									
11,000.0	2.76	225.00	10,799.4	-1,612.3	-20.3	-1,612.3	0.00	0.00	0.00
11,053.2	2.76	225.00	10,852.5	-1,614.1	-22.1	-1,614.1	0.00	0.00	0.00
Wolfcamp Y									
11,078.2	2.76	225.00	10,877.5	-1,614.9	-22.9	-1,615.0	0.00	0.00	0.00
Wolfcamp A									
11,100.0	2.76	225.00	10,899.2	-1,615.7	-23.7	-1,615.7	0.00	0.00	0.00
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	-1,617.1	0.00	0.00	0.00
PLU 20-8 BD 126H ST01 KOP Pln1									
11,150.0	1.96	244.84	10,949.2	-1,617.3	-25.4	-1,617.3	10.00	-7.06	175.60
11,160.8	1.62	278.33	10,960.0	-1,617.3	-25.7	-1,617.4	10.00	-3.12	309.94
PLU 20-8 BD 126H KOP Pln3									
11,200.0	4.22	346.47	10,999.1	-1,615.8	-26.6	-1,615.9	10.00	6.64	173.85
11,250.0	9.05	358.76	11,048.8	-1,610.1	-27.1	-1,610.2	10.00	9.64	24.58
11,255.8	9.62	359.39	11,054.5	-1,609.2	-27.1	-1,609.3	10.00	9.85	10.77
Wolfcamp A Lower									
11,300.0	13.99	2.48	11,097.8	-1,600.1	-26.9	-1,600.2	10.00	9.90	7.00
11,350.0	18.97	4.28	11,145.7	-1,586.0	-26.0	-1,586.1	10.00	9.95	3.59
11,400.0	23.95	5.35	11,192.2	-1,567.8	-24.5	-1,567.8	10.00	9.97	2.14
11,450.0	28.94	6.07	11,237.0	-1,545.6	-22.3	-1,545.7	10.00	9.98	1.44
11,500.0	33.93	6.59	11,279.6	-1,519.7	-19.4	-1,519.8	10.00	9.99	1.05
11,535.6	37.49	6.89	11,308.5	-1,499.1	-16.9	-1,499.1	10.00	9.99	0.83
Wolfcamp B									
11,550.0	38.93	6.99	11,319.8	-1,490.2	-15.9	-1,490.3	10.00	9.99	0.74
11,600.0	43.92	7.32	11,357.3	-1,457.4	-11.7	-1,457.5	10.00	9.99	0.65
11,615.9	45.51	7.41	11,368.6	-1,446.4	-10.3	-1,446.4	10.00	9.99	0.57
PLU 20-8 BD 126H FTP									
11,650.0	48.92	7.59	11,391.8	-1,421.5	-7.0	-1,421.5	10.00	9.99	0.53
11,700.0	53.92	7.82	11,422.9	-1,382.8	-1.8	-1,382.8	10.00	9.99	0.46
11,750.0	58.91	8.02	11,450.6	-1,341.6	3.9	-1,341.5	10.00	9.99	0.41
11,800.0	63.91	8.21	11,474.5	-1,298.1	10.1	-1,298.1	10.00	9.99	0.37
11,814.0	65.31	8.25	11,480.5	-1,285.6	11.9	-1,285.6	10.00	10.00	0.35
Wolfcamp C									
11,850.0	68.91	8.37	11,494.5	-1,252.8	16.7	-1,252.7	10.00	10.00	0.33
11,900.0	73.91	8.53	11,510.4	-1,205.9	23.7	-1,205.9	10.00	10.00	0.32
11,950.0	78.90	8.68	11,522.2	-1,157.9	31.0	-1,157.8	10.00	10.00	0.30
12,000.0	83.90	8.83	11,529.7	-1,109.0	38.5	-1,108.9	10.00	10.00	0.29
12,039.4	87.84	8.94	11,532.5	-1,070.2	44.6	-1,070.1	10.00	10.00	0.28
TD - Landing Point									
12,050.0	88.90	8.97	11,532.8	-1,059.8	46.2	-1,059.6	10.00	10.00	0.28

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	-1,048.8	10.00	10.00	0.28
PLU 20-8 BD 126H ST01 LP Plan 1									
12,100.0	90.00	8.22	11,532.9	-1,010.3	53.8	-1,010.2	2.00	0.00	-2.00
12,200.0	90.00	6.22	11,532.9	-911.1	66.3	-910.9	2.00	0.00	-2.00
12,300.0	90.00	4.22	11,532.9	-811.5	75.4	-811.3	2.00	0.00	-2.00
12,400.0	90.00	2.22	11,532.9	-711.7	81.1	-711.5	2.00	0.00	-2.00
12,500.0	90.00	0.22	11,532.9	-611.7	83.2	-611.5	2.00	0.00	-2.00
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	-588.1	2.00	0.00	-2.00
12,600.0	90.00	359.75	11,532.9	-511.7	82.8	-511.5	0.00	0.00	0.00
12,700.0	90.00	359.75	11,532.9	-411.7	82.4	-411.5	0.00	0.00	0.00
12,800.0	90.00	359.75	11,532.9	-311.7	82.0	-311.5	0.00	0.00	0.00
12,900.0	90.00	359.75	11,532.9	-211.7	81.5	-211.5	0.00	0.00	0.00
13,000.0	90.00	359.75	11,532.9	-111.7	81.1	-111.5	0.00	0.00	0.00
13,100.0	90.00	359.75	11,532.9	-11.7	80.7	-11.5	0.00	0.00	0.00
13,200.0	90.00	359.75	11,532.9	88.3	80.2	88.5	0.00	0.00	0.00
13,300.0	90.00	359.75	11,532.9	188.3	79.8	188.5	0.00	0.00	0.00
13,400.0	90.00	359.75	11,532.9	288.3	79.4	288.5	0.00	0.00	0.00
13,500.0	90.00	359.75	11,532.9	388.3	78.9	388.5	0.00	0.00	0.00
13,600.0	90.00	359.75	11,532.9	488.3	78.5	488.5	0.00	0.00	0.00
13,700.0	90.00	359.75	11,532.9	588.3	78.1	588.5	0.00	0.00	0.00
13,800.0	90.00	359.75	11,532.9	688.3	77.6	688.5	0.00	0.00	0.00
13,900.0	90.00	359.75	11,532.9	788.3	77.2	788.5	0.00	0.00	0.00
14,000.0	90.00	359.75	11,532.9	888.3	76.8	888.5	0.00	0.00	0.00
14,100.0	90.00	359.75	11,532.9	988.3	76.4	988.4	0.00	0.00	0.00
14,200.0	90.00	359.75	11,532.9	1,088.2	75.9	1,088.4	0.00	0.00	0.00
14,300.0	90.00	359.75	11,532.9	1,188.2	75.5	1,188.4	0.00	0.00	0.00
14,400.0	90.00	359.75	11,532.9	1,288.2	75.1	1,288.4	0.00	0.00	0.00
14,500.0	90.00	359.75	11,532.9	1,388.2	74.6	1,388.4	0.00	0.00	0.00
14,600.0	90.00	359.75	11,532.9	1,488.2	74.2	1,488.4	0.00	0.00	0.00
14,700.0	90.00	359.75	11,532.9	1,588.2	73.8	1,588.4	0.00	0.00	0.00
14,800.0	90.00	359.75	11,532.9	1,688.2	73.3	1,688.4	0.00	0.00	0.00
14,900.0	90.00	359.75	11,532.9	1,788.2	72.9	1,788.4	0.00	0.00	0.00
15,000.0	90.00	359.75	11,532.9	1,888.2	72.5	1,888.4	0.00	0.00	0.00
15,100.0	90.00	359.75	11,532.9	1,988.2	72.0	1,988.4	0.00	0.00	0.00
15,200.0	90.00	359.75	11,532.9	2,088.2	71.6	2,088.4	0.00	0.00	0.00
15,300.0	90.00	359.75	11,532.9	2,188.2	71.2	2,188.4	0.00	0.00	0.00
15,400.0	90.00	359.75	11,532.9	2,288.2	70.7	2,288.4	0.00	0.00	0.00
15,500.0	90.00	359.75	11,532.9	2,388.2	70.3	2,388.4	0.00	0.00	0.00
15,600.0	90.00	359.75	11,532.9	2,488.2	69.9	2,488.4	0.00	0.00	0.00
15,700.0	90.00	359.75	11,532.9	2,588.2	69.4	2,588.4	0.00	0.00	0.00
15,800.0	90.00	359.75	11,532.9	2,688.2	69.0	2,688.4	0.00	0.00	0.00
15,900.0	90.00	359.75	11,532.9	2,788.2	68.6	2,788.4	0.00	0.00	0.00
16,000.0	90.00	359.75	11,532.9	2,888.2	68.1	2,888.4	0.00	0.00	0.00
16,100.0	90.00	359.75	11,532.9	2,988.2	67.7	2,988.4	0.00	0.00	0.00
16,200.0	90.00	359.75	11,532.9	3,088.2	67.3	3,088.4	0.00	0.00	0.00
16,300.0	90.00	359.75	11,532.9	3,188.2	66.8	3,188.4	0.00	0.00	0.00
16,400.0	90.00	359.75	11,532.9	3,288.2	66.4	3,288.4	0.00	0.00	0.00
16,500.0	90.00	359.75	11,532.9	3,388.2	66.0	3,388.4	0.00	0.00	0.00
16,600.0	90.00	359.75	11,532.9	3,488.2	65.5	3,488.4	0.00	0.00	0.00
16,700.0	90.00	359.75	11,532.9	3,588.2	65.1	3,588.4	0.00	0.00	0.00
16,800.0	90.00	359.75	11,532.9	3,688.2	64.7	3,688.4	0.00	0.00	0.00
16,900.0	90.00	359.75	11,532.9	3,788.2	64.2	3,788.4	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.0	90.00	359.75	11,532.9	3,888.2	63.8	3,888.4	0.00	0.00	0.00
17,100.0	90.00	359.75	11,532.9	3,988.2	63.4	3,988.4	0.00	0.00	0.00
17,200.0	90.00	359.75	11,532.9	4,088.2	62.9	4,088.4	0.00	0.00	0.00
17,300.0	90.00	359.75	11,532.9	4,188.2	62.5	4,188.4	0.00	0.00	0.00
17,400.0	90.00	359.75	11,532.9	4,288.2	62.1	4,288.4	0.00	0.00	0.00
17,500.0	90.00	359.75	11,532.9	4,388.2	61.6	4,388.4	0.00	0.00	0.00
17,600.0	90.00	359.75	11,532.9	4,488.2	61.2	4,488.4	0.00	0.00	0.00
17,700.0	90.00	359.75	11,532.9	4,588.2	60.8	4,588.4	0.00	0.00	0.00
17,800.0	90.00	359.75	11,532.9	4,688.2	60.3	4,688.4	0.00	0.00	0.00
17,900.0	90.00	359.75	11,532.9	4,788.2	59.9	4,788.4	0.00	0.00	0.00
18,000.0	90.00	359.75	11,533.0	4,888.2	59.5	4,888.4	0.00	0.00	0.00
18,100.0	90.00	359.75	11,533.0	4,988.2	59.0	4,988.4	0.00	0.00	0.00
18,200.0	90.00	359.75	11,533.0	5,088.2	58.6	5,088.3	0.00	0.00	0.00
18,300.0	90.00	359.75	11,533.0	5,188.2	58.2	5,188.3	0.00	0.00	0.00
18,400.0	90.00	359.75	11,533.0	5,288.2	57.7	5,288.3	0.00	0.00	0.00
18,500.0	90.00	359.75	11,533.0	5,388.2	57.3	5,388.3	0.00	0.00	0.00
18,600.0	90.00	359.75	11,533.0	5,488.2	56.9	5,488.3	0.00	0.00	0.00
18,700.0	90.00	359.75	11,533.0	5,588.2	56.4	5,588.3	0.00	0.00	0.00
18,800.0	90.00	359.75	11,533.0	5,688.2	56.0	5,688.3	0.00	0.00	0.00
18,900.0	90.00	359.75	11,533.0	5,788.2	55.6	5,788.3	0.00	0.00	0.00
19,000.0	90.00	359.75	11,533.0	5,888.2	55.1	5,888.3	0.00	0.00	0.00
19,100.0	90.00	359.75	11,533.0	5,988.2	54.7	5,988.3	0.00	0.00	0.00
19,200.0	90.00	359.75	11,533.0	6,088.2	54.3	6,088.3	0.00	0.00	0.00
19,300.0	90.00	359.75	11,533.0	6,188.2	53.8	6,188.3	0.00	0.00	0.00
19,400.0	90.00	359.75	11,533.0	6,288.2	53.4	6,288.3	0.00	0.00	0.00
19,500.0	90.00	359.75	11,533.0	6,388.2	53.0	6,388.3	0.00	0.00	0.00
19,600.0	90.00	359.75	11,533.0	6,488.2	52.5	6,488.3	0.00	0.00	0.00
19,700.0	90.00	359.75	11,533.0	6,588.2	52.1	6,588.3	0.00	0.00	0.00
19,800.0	90.00	359.75	11,533.0	6,688.2	51.7	6,688.3	0.00	0.00	0.00
19,900.0	90.00	359.75	11,533.0	6,788.2	51.2	6,788.3	0.00	0.00	0.00
20,000.0	90.00	359.75	11,533.0	6,888.2	50.8	6,888.3	0.00	0.00	0.00
20,100.0	90.00	359.75	11,533.0	6,988.2	50.4	6,988.3	0.00	0.00	0.00
20,200.0	90.00	359.75	11,533.0	7,088.2	49.9	7,088.3	0.00	0.00	0.00
20,300.0	90.00	359.75	11,533.0	7,188.2	49.5	7,188.3	0.00	0.00	0.00
20,400.0	90.00	359.75	11,533.0	7,288.2	49.1	7,288.3	0.00	0.00	0.00
20,500.0	90.00	359.75	11,533.0	7,388.2	48.6	7,388.3	0.00	0.00	0.00
20,600.0	90.00	359.75	11,533.0	7,488.2	48.2	7,488.3	0.00	0.00	0.00
20,700.0	90.00	359.75	11,533.0	7,588.2	47.8	7,588.3	0.00	0.00	0.00
20,800.0	90.00	359.75	11,533.0	7,688.2	47.3	7,688.3	0.00	0.00	0.00
20,900.0	90.00	359.75	11,533.0	7,788.2	46.9	7,788.3	0.00	0.00	0.00
21,000.0	90.00	359.75	11,533.0	7,888.2	46.5	7,888.3	0.00	0.00	0.00
21,100.0	90.00	359.75	11,533.0	7,988.2	46.0	7,988.3	0.00	0.00	0.00
21,200.0	90.00	359.75	11,533.0	8,088.2	45.6	8,088.3	0.00	0.00	0.00
21,300.0	90.00	359.75	11,533.0	8,188.2	45.2	8,188.3	0.00	0.00	0.00
21,400.0	90.00	359.75	11,533.0	8,288.2	44.7	8,288.3	0.00	0.00	0.00
21,500.0	90.00	359.75	11,533.0	8,388.2	44.3	8,388.3	0.00	0.00	0.00
21,600.0	90.00	359.75	11,533.0	8,488.2	43.9	8,488.3	0.00	0.00	0.00
21,700.0	90.00	359.75	11,533.0	8,588.2	43.4	8,588.3	0.00	0.00	0.00
21,800.0	90.00	359.75	11,533.0	8,688.2	43.0	8,688.3	0.00	0.00	0.00
21,900.0	90.00	359.75	11,533.0	8,788.2	42.6	8,788.3	0.00	0.00	0.00
22,000.0	90.00	359.75	11,533.0	8,888.2	42.1	8,888.3	0.00	0.00	0.00
22,100.0	90.00	359.75	11,533.0	8,988.2	41.7	8,988.3	0.00	0.00	0.00

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,200.0	90.00	359.75	11,533.0	9,088.2	41.3	9,088.3	0.00	0.00	0.00
22,300.0	90.00	359.75	11,533.0	9,188.2	40.8	9,188.2	0.00	0.00	0.00
22,400.0	90.00	359.75	11,533.0	9,288.2	40.4	9,288.2	0.00	0.00	0.00
22,500.0	90.00	359.75	11,533.0	9,388.2	40.0	9,388.2	0.00	0.00	0.00
22,600.0	90.00	359.75	11,533.0	9,488.2	39.5	9,488.2	0.00	0.00	0.00
22,700.0	90.00	359.75	11,533.0	9,588.2	39.1	9,588.2	0.00	0.00	0.00
22,800.0	90.00	359.75	11,533.0	9,688.2	38.7	9,688.2	0.00	0.00	0.00
22,900.0	90.00	359.75	11,533.0	9,788.2	38.2	9,788.2	0.00	0.00	0.00
23,000.0	90.00	359.75	11,533.0	9,888.2	37.8	9,888.2	0.00	0.00	0.00
23,100.0	90.00	359.75	11,533.0	9,988.2	37.4	9,988.2	0.00	0.00	0.00
23,200.0	90.00	359.75	11,533.0	10,088.2	36.9	10,088.2	0.00	0.00	0.00
23,300.0	90.00	359.75	11,533.0	10,188.2	36.5	10,188.2	0.00	0.00	0.00
23,400.0	90.00	359.75	11,533.0	10,288.2	36.1	10,288.2	0.00	0.00	0.00
23,500.0	90.00	359.75	11,533.0	10,388.2	35.6	10,388.2	0.00	0.00	0.00
23,600.0	90.00	359.75	11,533.0	10,488.2	35.2	10,488.2	0.00	0.00	0.00
23,700.0	90.00	359.75	11,533.0	10,588.2	34.8	10,588.2	0.00	0.00	0.00
23,800.0	90.00	359.75	11,533.0	10,688.2	34.3	10,688.2	0.00	0.00	0.00
23,900.0	90.00	359.75	11,533.0	10,788.2	33.9	10,788.2	0.00	0.00	0.00
24,000.0	90.00	359.75	11,533.0	10,888.2	33.5	10,888.2	0.00	0.00	0.00
24,100.0	90.00	359.75	11,533.0	10,988.2	33.0	10,988.2	0.00	0.00	0.00
24,200.0	90.00	359.75	11,533.0	11,088.2	32.6	11,088.2	0.00	0.00	0.00
24,300.0	90.00	359.75	11,533.0	11,188.2	32.2	11,188.2	0.00	0.00	0.00
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	11,252.1	0.00	0.00	0.00
PLU 20-8 BD 126H LTP									
24,400.0	90.00	359.75	11,533.0	11,288.2	31.7	11,288.2	0.00	0.00	0.00
24,500.0	90.00	359.75	11,533.0	11,388.2	31.3	11,388.2	0.00	0.00	0.00
24,600.0	90.00	359.75	11,533.0	11,488.2	30.9	11,488.2	0.00	0.00	0.00
24,643.9	90.00	359.75	11,533.0	11,532.1	30.7	11,532.1	0.00	0.00	0.00
PLU 20-8 BD 126H BHL									

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	8,000.0	-1,517.0	75.0	403,548.80	633,937.10	32° 6' 31.439 N	103° 54' 2.741 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	10,937.9	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H KOF - plan misses target center by 0.8usft at 11160.8usft MD (10960.0 TVD, -1617.3 N, -25.7 E) - Point	0.00	0.00	10,960.0	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	11,532.9	-1,048.9	47.9	404,016.91	633,910.04	32° 6' 36.073 N	103° 54' 3.034 W
PLU 20-8 BD 126H FTP - plan misses target center by 256.5usft at 11615.9usft MD (11368.6 TVD, -1446.4 N, -10.3 E) - Point	0.00	0.00	11,533.0	-1,617.0	88.0	403,448.80	633,950.10	32° 6' 30.449 N	103° 54' 2.594 W
PLU 20-8 BD 126H LTP - plan hits target center - Point	0.00	0.00	11,533.0	11,252.1	31.9	416,317.90	633,894.00	32° 8' 37.807 N	103° 54' 2.646 W
PLU 20-8 BD 126H BHL - plan misses target center by 1.1usft at 24643.9usft MD (11533.0 TVD, 11532.1 N, 30.7 E) - Point	0.00	0.00	11,533.0	11,532.1	31.8	416,597.90	633,893.90	32° 8' 40.578 N	103° 54' 2.634 W

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
841.6	841.5	Rustler			
1,083.6	1,083.5	Top Salt			
3,558.3	3,475.5	Base Salt			
3,768.1	3,675.5	Delaware			
4,741.4	4,604.5	Cherry Canyon			
6,318.3	6,137.5	Brushy Canyon			
7,501.0	7,308.5	Basal Brushy Canyon			
7,682.8	7,488.5	Bone Spring			
7,692.9	7,498.5	Bone Spring Lime Fm			
7,845.5	7,649.5	Avalon Shale			
8,215.9	8,018.5	Avalon Lime			
8,256.0	8,058.5	Lower Avalon Shale			
8,423.2	8,225.5	1st Bone Spring Lime			
8,625.4	8,427.5	1st Bone Spring Ss			
8,997.8	8,799.5	2nd Bone Spring Lime			
9,536.4	9,337.5	2nd Bone Spring Ss			
9,541.5	9,342.5	2nd Bone Spring A Sand			
9,620.5	9,421.5	2nd Bone Spring T/B Carb			
9,697.6	9,498.5	2nd Bone Spring C Sand			
9,766.7	9,567.5	3rd Bone Spring Lm			
10,180.2	9,980.5	3rd Bone Spring Sh			
10,396.4	10,196.5	3rd Bone Spring Sh Base			
10,602.7	10,402.5	3rd Bone Spring Ss			
10,853.0	10,652.5	Red Hills SS			
10,939.1	10,738.5	Wolfcamp			
10,966.1	10,765.5	Wolfcamp X			
11,053.2	10,852.5	Wolfcamp Y			
11,078.2	10,877.5	Wolfcamp A			
11,255.8	11,054.5	Wolfcamp A Lower			
11,535.6	11,308.5	Wolfcamp B			
11,814.0	11,480.5	Wolfcamp C			
12,039.4	11,532.5	TD			
12,039.4	11,532.5	Landing Point			

Dooling, Jessica

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 5:57 PM
To: Dooling, Jessica
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Categories: External Sender

Looks good to me. Good to go ahead.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 4:44 PM
To: Morency, Allison E <amorency@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Hi Miss Allison,

I understand you spoke to Nellie about changing the sidetrack procedure from one plug to two. The revised procedure is attached for reference.

Can you please respond to this email indicating the change is acceptable?

Thank you aga in for all of your help!

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 3:44 PM

To: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

External Email - Think Before You Click

There are no new coas.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 2:41 PM
To: Morency, Allison E <amorency@blm.gov>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Thank you for your help on this Miss Allison!

Are there COAs associated with the sidetrack, or do the COAs from the original drilling sundry stand?

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 2:13 PM
To: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

External Email - Think Before You Click

Good Afternoon Jes,

The below email states that the **Top of Fish** is at 7193'. To better isolate the formation, please set plug at ~7150' vs 6700' (as proposed in attached plan) to minimize the space between the fish and plug. This is especially important to ensure continued separation between the Bone Spring and Brushy Canyon.

With this modification, you are approved for a verbal approval to sidetrack the well. If there are any questions, please contact the BLM. If it is after hours, contact the on-call phone.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 11:26 AM
To: Walls, Christopher <cwalls@blm.gov>; Morency, Allison E <amorency@blm.gov>
Subject: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H
Importance: High

Hello Chris and Allison,

I hope you are well. Just when I thought I had made it through Monday successfully…I was notified that we need a sidetrack approval.

XTO Energy is here requesting approval of the Poker Lake Unit 20-8 BD Sidetrack Procedure, Current and Proposed WBDs and Directional Plan, please see attached. Current plan is to cement early this evening, is it possible to get an email approval with a sundry to follow?

High Level Summary: While drilling the intermediate the BHA became stuck at 8,405' MD on the Poker Lake Unit 20-8 BD 126H. The drilling string was parted at 7,193' MD, top of fish. Circulation was maintained down the drilling string until the drill string parted. We attempted retrieving the fish and were unsuccessful. XTO proposes to isolate the original wellbore and sidetrack from the intermediate hole.

Please let me know if any additional information is needed or if you have any questions.

Thank you,

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

An ExxonMobil Subsidiary

Poker Lake Unit 20-8 BD Fed 126H Sidetrack

Current Status: XTO has set 9-5/8" surface casing with cement to surface at 970' MD. Intermediate drilled to 8,405' MD. Fish stuck at 7,193' to 8,337' MD.

Requested Proposal: XTO proposes to set a 500' isolation cement plug at top of fish and a 1000' cement kickoff plug inside the 8.75" intermediate wellbore, sidetrack, and redrill the 8.75" intermediate section.

Proposed Procedure:

1. Set a 500' isolation plug at 7,193' MD (top of fish), 205 sks Class H 15.6 ppg
2. Set a 1000' balanced kickoff plug at 6,500' MD, 525 sks Class H 17.5 ppg
3. RIH with 8.75" Intermediate sidetrack BHA
    a. Tag TOC 5,500' to 5,900' MD
    b. Planned KOP at 5,900' MD
4. Drill to original planned intermediate TD of 10,983' MD.

Current Well Information:

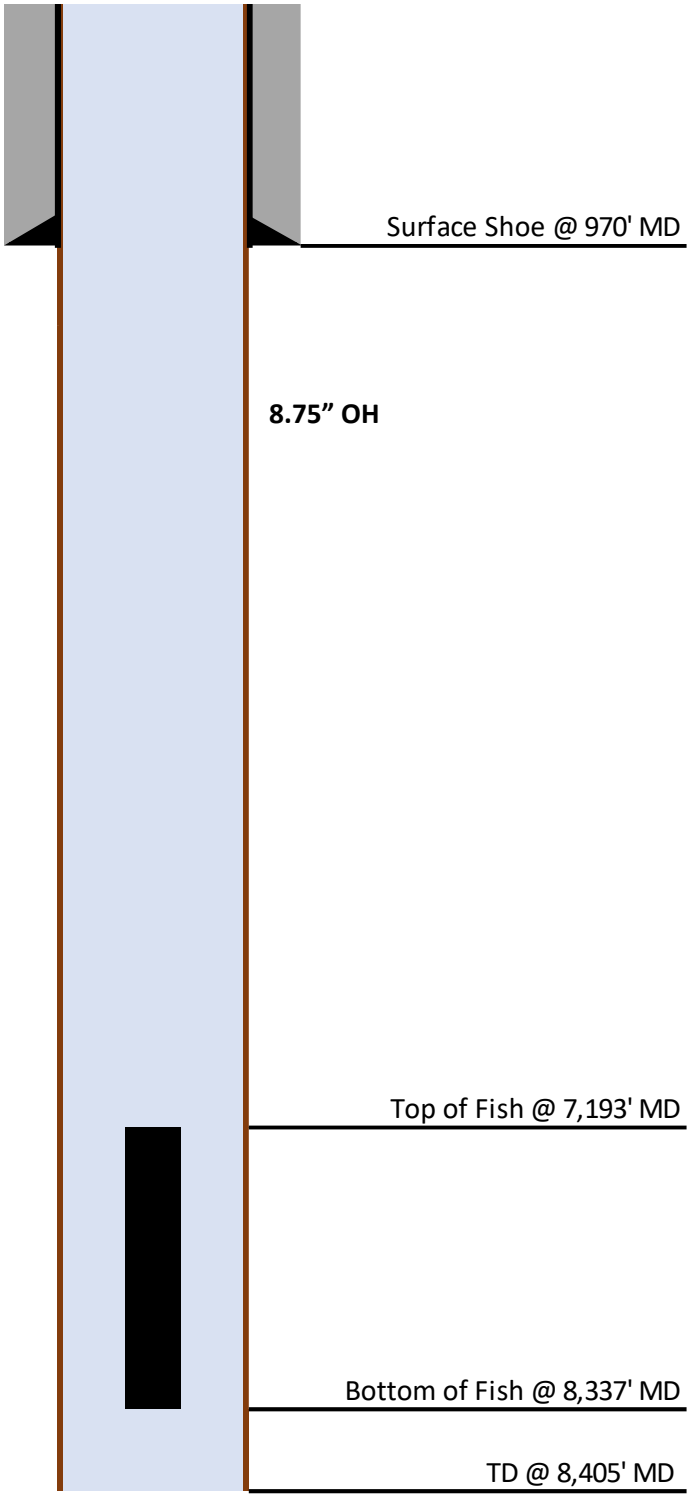
1. Surface: 12.25" hole at 990' MD, 9-5/8" casing at 970' MD. Cemented with Lead: 245sks 12.5 ppg Class C cement (2.08 yield); Tail: 190sks 14.8 ppg Class C cement (1.33 yield). Circ to surface. 55 bbls returned to surface.

2. Intermediate: 8.75" hole @ 8,405' MD. Fish: 7,193' to 8,337' MD (8.75" bit and drill sting).

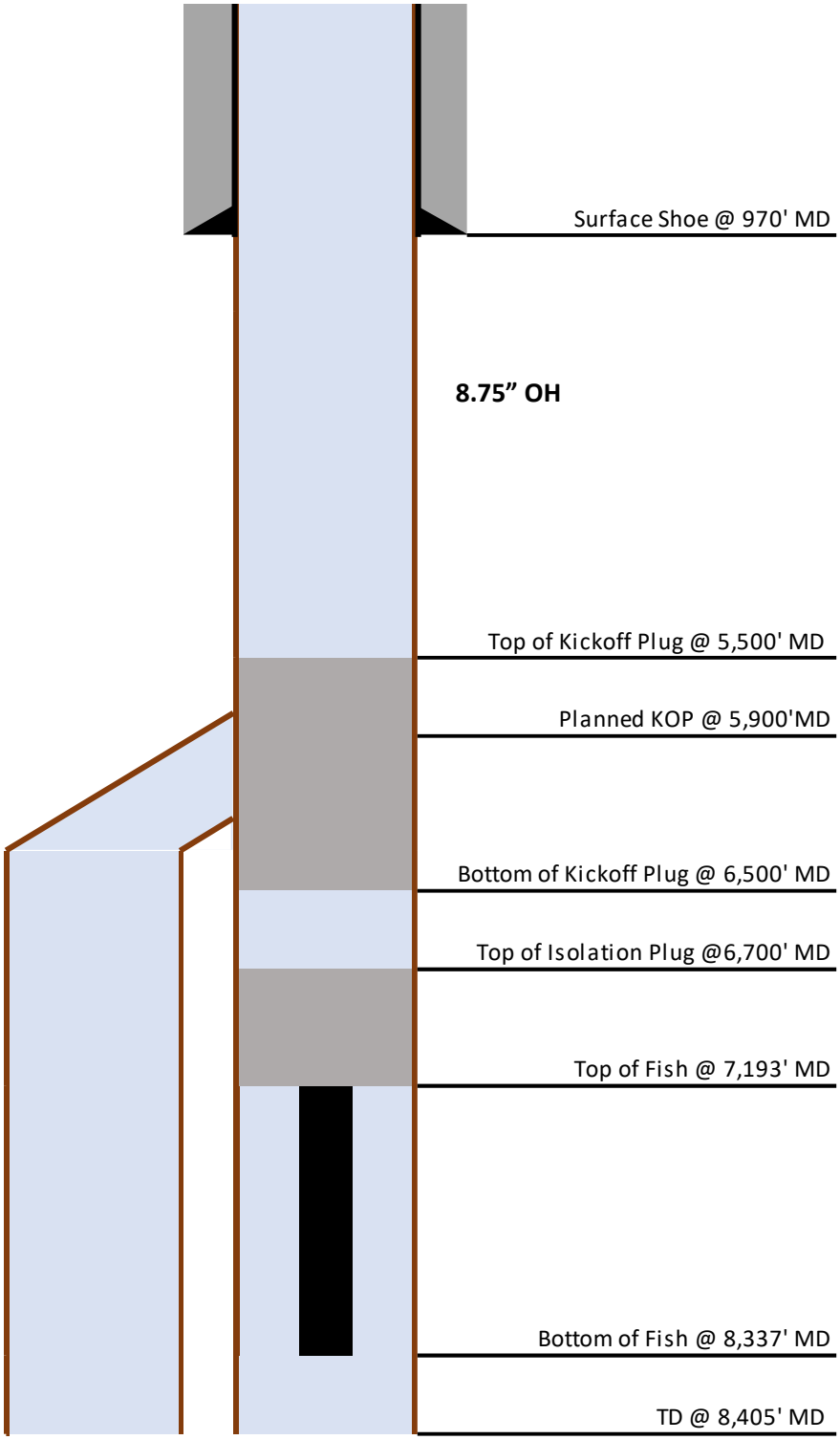
Formation Tops

	TVD	MD
Rustler	842	842
Top Salt	1084	1084
Base Salt	3439	3520
Delaware	3655	3747
Cherry Canyon	4581	4716
Brushy Canyon	6147	6341
Bone Spring	7450	7670
Avalon	7611	7832

PLU 20-8 BD Fed 126H Current WBD



PLU 20-8 BD Fed 126H Proposed WBD



ROC

HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)
(HP463) PLU 20-8 Brushy Draw Pad D - Plans
PLU 20-8 BD - 126H

ST01

Plan: Plan 1

Standard Planning Report

03 June, 2023

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Project HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site (HP463) PLU 20-8 Brushy Draw Pad D - Plans

Site Position:		**Northing:**	405,071.70 usft	**Latitude:**	32° 6' 46.495 N
From:	Map	**Easting:**	634,322.10 usft	**Longitude:**	103° 53' 58.193 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well PLU 20-8 BD - 126H

Well Position	**+N/-S**	0.0 usft	**Northing:**	405,065.80 usft	**Latitude:**	32° 6' 46.455 N
	+E/-W	0.0 usft	**Easting:**	633,862.10 usft	**Longitude:**	103° 54' 3.542 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,199.0 usft
Grid Convergence:		0.23 °				

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/3/2023	6.46	59.69	47,191.64717599

Design Plan 1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	5,642.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.15

Plan Survey Tool Program **Date** 6/3/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	5,642.0	24,644.0	Plan 1 (ST01)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	0.00	0.00	0.00	0.00	
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	1.32	1.10	3.48	34.57	
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	1.16	1.04	2.28	27.33	
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	6.00	-5.23	-14.63	-155.06	
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	0.00	0.00	0.00	0.00	
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	2.00	-1.72	-6.53	-152.71	
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	0.00	0.00	0.00	0.00	
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	2.00	-1.48	17.22	160.23	PLU 20-8 BD 126H S
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H S
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	10.00	9.46	15.61	143.97	
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	2.00	0.00	-2.00	-90.00	
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H L
24,644.0	90.00	359.75	11,533.0	11,532.1	30.7	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H B

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
165.0	0.43	335.11	165.0	0.6	-0.3	0.6	0.26	0.26	0.00
228.0	0.47	322.68	228.0	1.0	-0.5	1.0	0.17	0.06	-19.73
291.0	0.58	315.44	291.0	1.4	-0.9	1.4	0.20	0.17	-11.49
354.0	0.61	314.53	354.0	1.9	-1.4	1.9	0.05	0.05	-1.44
417.0	0.62	316.34	417.0	2.4	-1.8	2.4	0.03	0.02	2.87
480.0	0.68	309.55	480.0	2.8	-2.4	2.8	0.15	0.10	-10.78
543.0	0.60	306.17	543.0	3.3	-2.9	3.3	0.14	-0.13	-5.37
606.0	0.72	308.44	606.0	3.7	-3.5	3.7	0.19	0.19	3.60
669.0	0.63	304.64	669.0	4.2	-4.1	4.1	0.16	-0.14	-6.03
701.0	0.81	314.94	701.0	4.4	-4.4	4.4	0.69	0.56	32.19
796.0	1.23	320.08	796.0	5.7	-5.5	5.7	0.45	0.44	5.41
891.0	1.24	316.83	890.9	7.2	-6.9	7.2	0.07	0.01	-3.42
916.0	1.27	320.76	915.9	7.6	-7.2	7.6	0.36	0.12	15.72
982.0	1.18	325.54	981.9	8.7	-8.1	8.7	0.21	-0.14	7.24
1,077.0	0.97	352.17	1,076.9	10.3	-8.7	10.3	0.56	-0.22	28.03
1,172.0	1.50	174.68	1,171.9	9.9	-8.7	9.9	2.60	0.56	-186.83
1,267.0	1.89	171.61	1,266.8	7.1	-8.4	7.1	0.42	0.41	-3.23
1,362.0	4.14	176.77	1,361.7	2.1	-8.0	2.1	2.38	2.37	5.43
1,457.0	6.85	176.70	1,456.3	-6.9	-7.5	-7.0	2.85	2.85	-0.07
1,552.0	9.02	174.86	1,550.3	-20.0	-6.5	-20.0	2.30	2.28	-1.94
1,647.0	10.63	172.33	1,643.9	-36.1	-4.6	-36.1	1.75	1.69	-2.66
1,742.0	12.79	174.95	1,737.0	-55.3	-2.5	-55.3	2.34	2.27	2.76
1,838.0	14.17	179.18	1,830.3	-77.6	-1.4	-77.6	1.77	1.44	4.41
1,933.0	15.84	182.14	1,922.1	-102.2	-1.7	-102.2	1.93	1.76	3.12
2,028.0	17.60	182.11	2,013.1	-129.5	-2.8	-129.5	1.85	1.85	-0.03
2,123.0	17.60	180.43	2,103.6	-158.2	-3.4	-158.2	0.53	0.00	-1.77
2,218.0	16.92	179.71	2,194.3	-186.4	-3.4	-186.4	0.75	-0.72	-0.76
2,313.0	16.04	178.97	2,285.4	-213.4	-3.1	-213.4	0.95	-0.93	-0.78
2,408.0	17.16	177.62	2,376.5	-240.5	-2.3	-240.5	1.25	1.18	-1.42
2,503.0	17.75	176.30	2,467.1	-268.9	-0.8	-268.9	0.75	0.62	-1.39
2,598.0	16.64	175.20	2,557.9	-296.9	1.3	-296.9	1.22	-1.17	-1.16
2,694.0	17.76	175.56	2,649.6	-325.2	3.6	-325.2	1.17	1.17	0.38
2,789.0	17.27	175.56	2,740.2	-353.7	5.8	-353.7	0.52	-0.52	0.00
2,884.0	16.33	176.65	2,831.1	-381.1	7.7	-381.1	1.04	-0.99	1.15
2,979.0	16.10	178.77	2,922.3	-407.6	8.7	-407.6	0.67	-0.24	2.23
3,074.0	18.02	177.36	3,013.1	-435.5	9.7	-435.5	2.07	2.02	-1.48
3,169.0	17.06	173.00	3,103.7	-464.0	12.0	-464.0	1.71	-1.01	-4.59
3,264.0	15.56	172.23	3,194.9	-490.5	15.5	-490.4	1.60	-1.58	-0.81
3,360.0	17.19	176.27	3,287.0	-517.4	18.1	-517.3	2.07	1.70	4.21
3,455.0	18.51	178.76	3,377.4	-546.5	19.4	-546.4	1.60	1.39	2.62
3,550.0	18.25	175.60	3,467.6	-576.4	20.8	-576.3	1.08	-0.27	-3.33
3,645.0	18.14	190.06	3,557.9	-605.8	19.4	-605.7	4.74	-0.12	15.22
3,740.0	16.61	188.93	3,648.5	-633.8	14.7	-633.7	1.65	-1.61	-1.19
3,835.0	15.68	186.84	3,739.8	-659.9	11.1	-659.9	1.15	-0.98	-2.20
3,930.0	15.91	187.05	3,831.2	-685.6	7.9	-685.6	0.25	0.24	0.22
4,026.0	16.20	186.53	3,923.5	-711.9	4.8	-711.9	0.34	0.30	-0.54
4,121.0	15.81	188.00	4,014.8	-737.9	1.5	-737.9	0.59	-0.41	1.55
4,216.0	15.27	188.02	4,106.3	-763.1	-2.0	-763.1	0.57	-0.57	0.02
4,311.0	15.70	186.94	4,197.9	-788.3	-5.3	-788.3	0.54	0.45	-1.14
4,406.0	19.71	180.66	4,288.3	-817.1	-7.1	-817.1	4.67	4.22	-6.61
4,501.0	19.81	180.43	4,377.8	-849.2	-7.4	-849.2	0.13	0.11	-0.24

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,596.0	19.82	180.84	4,467.1	-881.4	-7.7	-881.4	0.15	0.01	0.43
4,691.0	18.98	181.48	4,556.7	-912.9	-8.4	-913.0	0.91	-0.88	0.67
4,786.0	17.78	181.75	4,646.9	-942.9	-9.2	-942.9	1.27	-1.26	0.28
4,881.0	17.72	182.50	4,737.4	-971.8	-10.3	-971.8	0.25	-0.06	0.79
4,976.0	17.07	182.46	4,828.0	-1,000.2	-11.5	-1,000.2	0.68	-0.68	-0.04
5,072.0	17.23	182.53	4,919.8	-1,028.5	-12.8	-1,028.5	0.17	0.17	0.07
5,167.0	17.22	181.89	5,010.5	-1,056.6	-13.8	-1,056.6	0.20	-0.01	-0.67
5,262.0	16.02	180.39	5,101.5	-1,083.7	-14.4	-1,083.8	1.34	-1.26	-1.58
5,357.0	13.65	176.57	5,193.4	-1,108.0	-13.8	-1,108.1	2.70	-2.49	-4.02
5,452.0	12.76	175.99	5,285.8	-1,129.7	-12.4	-1,129.7	0.95	-0.94	-0.61
5,547.0	12.17	176.37	5,378.6	-1,150.2	-11.0	-1,150.2	0.63	-0.62	0.40
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	-1,169.9	0.42	-0.37	-0.93
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	-1,182.1	1.32	1.10	3.48
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	-1,204.5	1.16	1.04	2.28
5,850.0	10.85	173.06	5,674.5	-1,215.0	-7.8	-1,215.0	6.00	-5.30	-13.46
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	-1,218.0	6.00	-5.03	-18.07
5,900.0	10.00	170.00	5,723.8	-1,223.7	-6.4	-1,223.7	0.00	0.00	0.00
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	-1,226.6	0.00	0.00	0.00
6,000.0	8.56	164.88	5,822.4	-1,239.6	-3.0	-1,239.6	2.00	-1.74	-6.17
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	-1,243.5	2.00	-1.67	-7.60
6,100.0	8.09	162.75	5,921.4	-1,253.2	1.1	-1,253.2	0.00	0.00	0.00
6,200.0	8.09	162.75	6,020.4	-1,266.7	5.3	-1,266.6	0.00	0.00	0.00
6,300.0	8.09	162.75	6,119.4	-1,280.1	9.5	-1,280.1	0.00	0.00	0.00
6,318.3	8.09	162.75	6,137.5	-1,282.5	10.3	-1,282.5	0.00	0.00	0.00
Brushy Canyon									
6,400.0	8.09	162.75	6,218.4	-1,293.5	13.7	-1,293.5	0.00	0.00	0.00
6,500.0	8.09	162.75	6,317.4	-1,307.0	17.8	-1,306.9	0.00	0.00	0.00
6,600.0	8.09	162.75	6,416.4	-1,320.4	22.0	-1,320.3	0.00	0.00	0.00
6,700.0	8.09	162.75	6,515.4	-1,333.9	26.2	-1,333.8	0.00	0.00	0.00
6,800.0	8.09	162.75	6,614.4	-1,347.3	30.4	-1,347.2	0.00	0.00	0.00
6,900.0	8.09	162.75	6,713.4	-1,360.7	34.5	-1,360.6	0.00	0.00	0.00
7,000.0	8.09	162.75	6,812.4	-1,374.2	38.7	-1,374.1	0.00	0.00	0.00
7,100.0	8.09	162.75	6,911.5	-1,387.6	42.9	-1,387.5	0.00	0.00	0.00
7,200.0	8.09	162.75	7,010.5	-1,401.1	47.1	-1,400.9	0.00	0.00	0.00
7,300.0	8.09	162.75	7,109.5	-1,414.5	51.2	-1,414.4	0.00	0.00	0.00
7,400.0	8.09	162.75	7,208.5	-1,427.9	55.4	-1,427.8	0.00	0.00	0.00
7,500.0	8.09	162.75	7,307.5	-1,441.4	59.6	-1,441.2	0.00	0.00	0.00
7,501.0	8.09	162.75	7,308.5	-1,441.5	59.6	-1,441.3	0.00	0.00	0.00
Basal Brushy Canyon									
7,600.0	8.09	162.75	7,406.5	-1,454.8	63.8	-1,454.6	0.00	0.00	0.00
7,682.8	8.09	162.75	7,488.5	-1,465.9	67.2	-1,465.8	0.00	0.00	0.00
Bone Spring									
7,692.9	8.09	162.75	7,498.5	-1,467.3	67.6	-1,467.1	0.00	0.00	0.00
Bone Spring Lime Fm									
7,700.0	8.09	162.75	7,505.5	-1,468.3	67.9	-1,468.1	0.00	0.00	0.00
7,800.0	8.09	162.75	7,604.5	-1,481.7	72.1	-1,481.5	0.00	0.00	0.00
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	-1,486.3	0.00	0.00	0.00
7,845.5	7.91	163.21	7,649.5	-1,487.8	74.0	-1,487.6	2.00	-1.88	4.91
Avalon Shale									
7,900.0	6.90	166.35	7,703.6	-1,494.6	75.8	-1,494.4	2.00	-1.86	5.76
8,000.0	5.12	175.26	7,803.0	-1,504.9	77.6	-1,504.6	2.00	-1.77	8.91
8,100.0	3.59	192.52	7,902.7	-1,512.4	77.3	-1,512.2	2.00	-1.53	17.26

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	-1,516.8	2.00	-0.86	33.34
PLU 20-8 BD 126H ST01 VP Pln1									
8,200.0	2.76	225.00	8,002.6	-1,517.1	74.9	-1,516.9	0.00	0.00	0.00
8,215.9	2.76	225.00	8,018.5	-1,517.6	74.4	-1,517.4	0.00	0.00	0.00
Avalon Lime									
8,256.0	2.76	225.00	8,058.5	-1,519.0	73.0	-1,518.8	0.00	0.00	0.00
Lower Avalon Shale									
8,300.0	2.76	225.00	8,102.5	-1,520.5	71.5	-1,520.3	0.00	0.00	0.00
8,400.0	2.76	225.00	8,202.4	-1,523.9	68.1	-1,523.7	0.00	0.00	0.00
8,423.2	2.76	225.00	8,225.5	-1,524.7	67.3	-1,524.5	0.00	0.00	0.00
1st Bone Spring Lime									
8,500.0	2.76	225.00	8,302.2	-1,527.3	64.7	-1,527.1	0.00	0.00	0.00
8,600.0	2.76	225.00	8,402.1	-1,530.7	61.3	-1,530.5	0.00	0.00	0.00
8,625.4	2.76	225.00	8,427.5	-1,531.6	60.4	-1,531.4	0.00	0.00	0.00
1st Bone Spring Ss									
8,700.0	2.76	225.00	8,502.0	-1,534.1	57.9	-1,533.9	0.00	0.00	0.00
8,800.0	2.76	225.00	8,601.9	-1,537.5	54.5	-1,537.3	0.00	0.00	0.00
8,900.0	2.76	225.00	8,701.8	-1,540.9	51.1	-1,540.7	0.00	0.00	0.00
8,997.8	2.76	225.00	8,799.5	-1,544.2	47.8	-1,544.1	0.00	0.00	0.00
2nd Bone Spring Lime									
9,000.0	2.76	225.00	8,801.7	-1,544.3	47.7	-1,544.2	0.00	0.00	0.00
9,100.0	2.76	225.00	8,901.6	-1,547.7	44.3	-1,547.6	0.00	0.00	0.00
9,200.0	2.76	225.00	9,001.4	-1,551.1	40.9	-1,551.0	0.00	0.00	0.00
9,300.0	2.76	225.00	9,101.3	-1,554.5	37.5	-1,554.4	0.00	0.00	0.00
9,400.0	2.76	225.00	9,201.2	-1,557.9	34.1	-1,557.8	0.00	0.00	0.00
9,500.0	2.76	225.00	9,301.1	-1,561.3	30.7	-1,561.2	0.00	0.00	0.00
9,536.4	2.76	225.00	9,337.5	-1,562.5	29.5	-1,562.4	0.00	0.00	0.00
2nd Bone Spring Ss									
9,541.5	2.76	225.00	9,342.5	-1,562.7	29.3	-1,562.6	0.00	0.00	0.00
2nd Bone Spring A Sand									
9,600.0	2.76	225.00	9,401.0	-1,564.7	27.3	-1,564.6	0.00	0.00	0.00
9,620.5	2.76	225.00	9,421.5	-1,565.4	26.6	-1,565.3	0.00	0.00	0.00
2nd Bone Spring T/B Carb									
9,697.6	2.76	225.00	9,498.5	-1,568.0	24.0	-1,567.9	0.00	0.00	0.00
2nd Bone Spring C Sand									
9,700.0	2.76	225.00	9,500.9	-1,568.1	23.9	-1,568.0	0.00	0.00	0.00
9,766.7	2.76	225.00	9,567.5	-1,570.4	21.6	-1,570.3	0.00	0.00	0.00
3rd Bone Spring Lm									
9,800.0	2.76	225.00	9,600.7	-1,571.5	20.5	-1,571.4	0.00	0.00	0.00
9,900.0	2.76	225.00	9,700.6	-1,574.9	17.1	-1,574.8	0.00	0.00	0.00
10,000.0	2.76	225.00	9,800.5	-1,578.3	13.7	-1,578.2	0.00	0.00	0.00
10,100.0	2.76	225.00	9,900.4	-1,581.7	10.3	-1,581.7	0.00	0.00	0.00
10,180.2	2.76	225.00	9,980.5	-1,584.4	7.6	-1,584.4	0.00	0.00	0.00
3rd Bone Spring Sh									
10,200.0	2.76	225.00	10,000.3	-1,585.1	6.9	-1,585.1	0.00	0.00	0.00
10,300.0	2.76	225.00	10,100.2	-1,588.5	3.5	-1,588.5	0.00	0.00	0.00
10,396.4	2.76	225.00	10,196.5	-1,591.8	0.2	-1,591.8	0.00	0.00	0.00
3rd Bone Spring Sh Base									
10,400.0	2.76	225.00	10,200.1	-1,591.9	0.1	-1,591.9	0.00	0.00	0.00
10,500.0	2.76	225.00	10,299.9	-1,595.3	-3.3	-1,595.3	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	2.76	225.00	10,399.8	-1,598.7	-6.7	-1,598.7	0.00	0.00	0.00
10,602.7	2.76	225.00	10,402.5	-1,598.8	-6.8	-1,598.8	0.00	0.00	0.00
3rd Bone Spring Ss									
10,700.0	2.76	225.00	10,499.7	-1,602.1	-10.1	-1,602.1	0.00	0.00	0.00
10,800.0	2.76	225.00	10,599.6	-1,605.5	-13.5	-1,605.5	0.00	0.00	0.00
10,853.0	2.76	225.00	10,652.5	-1,607.3	-15.3	-1,607.3	0.00	0.00	0.00
Red Hills SS									
10,900.0	2.76	225.00	10,699.5	-1,608.9	-16.9	-1,608.9	0.00	0.00	0.00
10,939.1	2.76	225.00	10,738.5	-1,610.2	-18.2	-1,610.3	0.00	0.00	0.00
Wolfcamp									
10,966.1	2.76	225.00	10,765.5	-1,611.1	-19.1	-1,611.2	0.00	0.00	0.00
Wolfcamp X									
11,000.0	2.76	225.00	10,799.4	-1,612.3	-20.3	-1,612.3	0.00	0.00	0.00
11,053.2	2.76	225.00	10,852.5	-1,614.1	-22.1	-1,614.1	0.00	0.00	0.00
Wolfcamp Y									
11,078.2	2.76	225.00	10,877.5	-1,614.9	-22.9	-1,615.0	0.00	0.00	0.00
Wolfcamp A									
11,100.0	2.76	225.00	10,899.2	-1,615.7	-23.7	-1,615.7	0.00	0.00	0.00
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	-1,617.1	0.00	0.00	0.00
PLU 20-8 BD 126H ST01 KOP Pln1									
11,150.0	1.96	244.84	10,949.2	-1,617.3	-25.4	-1,617.3	10.00	-7.06	175.60
11,160.8	1.62	278.33	10,960.0	-1,617.3	-25.7	-1,617.4	10.00	-3.12	309.94
PLU 20-8 BD 126H KOP Pln3									
11,200.0	4.22	346.47	10,999.1	-1,615.8	-26.6	-1,615.9	10.00	6.64	173.85
11,250.0	9.05	358.76	11,048.8	-1,610.1	-27.1	-1,610.2	10.00	9.64	24.58
11,255.8	9.62	359.39	11,054.5	-1,609.2	-27.1	-1,609.3	10.00	9.85	10.77
Wolfcamp A Lower									
11,300.0	13.99	2.48	11,097.8	-1,600.1	-26.9	-1,600.2	10.00	9.90	7.00
11,350.0	18.97	4.28	11,145.7	-1,586.0	-26.0	-1,586.1	10.00	9.95	3.59
11,400.0	23.95	5.35	11,192.2	-1,567.8	-24.5	-1,567.8	10.00	9.97	2.14
11,450.0	28.94	6.07	11,237.0	-1,545.6	-22.3	-1,545.7	10.00	9.98	1.44
11,500.0	33.93	6.59	11,279.6	-1,519.7	-19.4	-1,519.8	10.00	9.99	1.05
11,535.6	37.49	6.89	11,308.5	-1,499.1	-16.9	-1,499.1	10.00	9.99	0.83
Wolfcamp B									
11,550.0	38.93	6.99	11,319.8	-1,490.2	-15.9	-1,490.3	10.00	9.99	0.74
11,600.0	43.92	7.32	11,357.3	-1,457.4	-11.7	-1,457.5	10.00	9.99	0.65
11,615.9	45.51	7.41	11,368.6	-1,446.4	-10.3	-1,446.4	10.00	9.99	0.57
PLU 20-8 BD 126H FTP									
11,650.0	48.92	7.59	11,391.8	-1,421.5	-7.0	-1,421.5	10.00	9.99	0.53
11,700.0	53.92	7.82	11,422.9	-1,382.8	-1.8	-1,382.8	10.00	9.99	0.46
11,750.0	58.91	8.02	11,450.6	-1,341.6	3.9	-1,341.5	10.00	9.99	0.41
11,800.0	63.91	8.21	11,474.5	-1,298.1	10.1	-1,298.1	10.00	9.99	0.37
11,814.0	65.31	8.25	11,480.5	-1,285.6	11.9	-1,285.6	10.00	10.00	0.35
Wolfcamp C									
11,850.0	68.91	8.37	11,494.5	-1,252.8	16.7	-1,252.7	10.00	10.00	0.33
11,900.0	73.91	8.53	11,510.4	-1,205.9	23.7	-1,205.9	10.00	10.00	0.32
11,950.0	78.90	8.68	11,522.2	-1,157.9	31.0	-1,157.8	10.00	10.00	0.30
12,000.0	83.90	8.83	11,529.7	-1,109.0	38.5	-1,108.9	10.00	10.00	0.29
12,039.4	87.84	8.94	11,532.5	-1,070.2	44.6	-1,070.1	10.00	10.00	0.28
TD - Landing Point									
12,050.0	88.90	8.97	11,532.8	-1,059.8	46.2	-1,059.6	10.00	10.00	0.28

ExxonMobil

Planning Report

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Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	-1,048.8	10.00	10.00	0.28
PLU 20-8 BD 126H ST01 LP Plan 1									
12,100.0	90.00	8.22	11,532.9	-1,010.3	53.8	-1,010.2	2.00	0.00	-2.00
12,200.0	90.00	6.22	11,532.9	-911.1	66.3	-910.9	2.00	0.00	-2.00
12,300.0	90.00	4.22	11,532.9	-811.5	75.4	-811.3	2.00	0.00	-2.00
12,400.0	90.00	2.22	11,532.9	-711.7	81.1	-711.5	2.00	0.00	-2.00
12,500.0	90.00	0.22	11,532.9	-611.7	83.2	-611.5	2.00	0.00	-2.00
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	-588.1	2.00	0.00	-2.00
12,600.0	90.00	359.75	11,532.9	-511.7	82.8	-511.5	0.00	0.00	0.00
12,700.0	90.00	359.75	11,532.9	-411.7	82.4	-411.5	0.00	0.00	0.00
12,800.0	90.00	359.75	11,532.9	-311.7	82.0	-311.5	0.00	0.00	0.00
12,900.0	90.00	359.75	11,532.9	-211.7	81.5	-211.5	0.00	0.00	0.00
13,000.0	90.00	359.75	11,532.9	-111.7	81.1	-111.5	0.00	0.00	0.00
13,100.0	90.00	359.75	11,532.9	-11.7	80.7	-11.5	0.00	0.00	0.00
13,200.0	90.00	359.75	11,532.9	88.3	80.2	88.5	0.00	0.00	0.00
13,300.0	90.00	359.75	11,532.9	188.3	79.8	188.5	0.00	0.00	0.00
13,400.0	90.00	359.75	11,532.9	288.3	79.4	288.5	0.00	0.00	0.00
13,500.0	90.00	359.75	11,532.9	388.3	78.9	388.5	0.00	0.00	0.00
13,600.0	90.00	359.75	11,532.9	488.3	78.5	488.5	0.00	0.00	0.00
13,700.0	90.00	359.75	11,532.9	588.3	78.1	588.5	0.00	0.00	0.00
13,800.0	90.00	359.75	11,532.9	688.3	77.6	688.5	0.00	0.00	0.00
13,900.0	90.00	359.75	11,532.9	788.3	77.2	788.5	0.00	0.00	0.00
14,000.0	90.00	359.75	11,532.9	888.3	76.8	888.5	0.00	0.00	0.00
14,100.0	90.00	359.75	11,532.9	988.3	76.4	988.4	0.00	0.00	0.00
14,200.0	90.00	359.75	11,532.9	1,088.2	75.9	1,088.4	0.00	0.00	0.00
14,300.0	90.00	359.75	11,532.9	1,188.2	75.5	1,188.4	0.00	0.00	0.00
14,400.0	90.00	359.75	11,532.9	1,288.2	75.1	1,288.4	0.00	0.00	0.00
14,500.0	90.00	359.75	11,532.9	1,388.2	74.6	1,388.4	0.00	0.00	0.00
14,600.0	90.00	359.75	11,532.9	1,488.2	74.2	1,488.4	0.00	0.00	0.00
14,700.0	90.00	359.75	11,532.9	1,588.2	73.8	1,588.4	0.00	0.00	0.00
14,800.0	90.00	359.75	11,532.9	1,688.2	73.3	1,688.4	0.00	0.00	0.00
14,900.0	90.00	359.75	11,532.9	1,788.2	72.9	1,788.4	0.00	0.00	0.00
15,000.0	90.00	359.75	11,532.9	1,888.2	72.5	1,888.4	0.00	0.00	0.00
15,100.0	90.00	359.75	11,532.9	1,988.2	72.0	1,988.4	0.00	0.00	0.00
15,200.0	90.00	359.75	11,532.9	2,088.2	71.6	2,088.4	0.00	0.00	0.00
15,300.0	90.00	359.75	11,532.9	2,188.2	71.2	2,188.4	0.00	0.00	0.00
15,400.0	90.00	359.75	11,532.9	2,288.2	70.7	2,288.4	0.00	0.00	0.00
15,500.0	90.00	359.75	11,532.9	2,388.2	70.3	2,388.4	0.00	0.00	0.00
15,600.0	90.00	359.75	11,532.9	2,488.2	69.9	2,488.4	0.00	0.00	0.00
15,700.0	90.00	359.75	11,532.9	2,588.2	69.4	2,588.4	0.00	0.00	0.00
15,800.0	90.00	359.75	11,532.9	2,688.2	69.0	2,688.4	0.00	0.00	0.00
15,900.0	90.00	359.75	11,532.9	2,788.2	68.6	2,788.4	0.00	0.00	0.00
16,000.0	90.00	359.75	11,532.9	2,888.2	68.1	2,888.4	0.00	0.00	0.00
16,100.0	90.00	359.75	11,532.9	2,988.2	67.7	2,988.4	0.00	0.00	0.00
16,200.0	90.00	359.75	11,532.9	3,088.2	67.3	3,088.4	0.00	0.00	0.00
16,300.0	90.00	359.75	11,532.9	3,188.2	66.8	3,188.4	0.00	0.00	0.00
16,400.0	90.00	359.75	11,532.9	3,288.2	66.4	3,288.4	0.00	0.00	0.00
16,500.0	90.00	359.75	11,532.9	3,388.2	66.0	3,388.4	0.00	0.00	0.00
16,600.0	90.00	359.75	11,532.9	3,488.2	65.5	3,488.4	0.00	0.00	0.00
16,700.0	90.00	359.75	11,532.9	3,588.2	65.1	3,588.4	0.00	0.00	0.00
16,800.0	90.00	359.75	11,532.9	3,688.2	64.7	3,688.4	0.00	0.00	0.00
16,900.0	90.00	359.75	11,532.9	3,788.2	64.2	3,788.4	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.0	90.00	359.75	11,532.9	3,888.2	63.8	3,888.4	0.00	0.00	0.00
17,100.0	90.00	359.75	11,532.9	3,988.2	63.4	3,988.4	0.00	0.00	0.00
17,200.0	90.00	359.75	11,532.9	4,088.2	62.9	4,088.4	0.00	0.00	0.00
17,300.0	90.00	359.75	11,532.9	4,188.2	62.5	4,188.4	0.00	0.00	0.00
17,400.0	90.00	359.75	11,532.9	4,288.2	62.1	4,288.4	0.00	0.00	0.00
17,500.0	90.00	359.75	11,532.9	4,388.2	61.6	4,388.4	0.00	0.00	0.00
17,600.0	90.00	359.75	11,532.9	4,488.2	61.2	4,488.4	0.00	0.00	0.00
17,700.0	90.00	359.75	11,532.9	4,588.2	60.8	4,588.4	0.00	0.00	0.00
17,800.0	90.00	359.75	11,532.9	4,688.2	60.3	4,688.4	0.00	0.00	0.00
17,900.0	90.00	359.75	11,532.9	4,788.2	59.9	4,788.4	0.00	0.00	0.00
18,000.0	90.00	359.75	11,533.0	4,888.2	59.5	4,888.4	0.00	0.00	0.00
18,100.0	90.00	359.75	11,533.0	4,988.2	59.0	4,988.4	0.00	0.00	0.00
18,200.0	90.00	359.75	11,533.0	5,088.2	58.6	5,088.3	0.00	0.00	0.00
18,300.0	90.00	359.75	11,533.0	5,188.2	58.2	5,188.3	0.00	0.00	0.00
18,400.0	90.00	359.75	11,533.0	5,288.2	57.7	5,288.3	0.00	0.00	0.00
18,500.0	90.00	359.75	11,533.0	5,388.2	57.3	5,388.3	0.00	0.00	0.00
18,600.0	90.00	359.75	11,533.0	5,488.2	56.9	5,488.3	0.00	0.00	0.00
18,700.0	90.00	359.75	11,533.0	5,588.2	56.4	5,588.3	0.00	0.00	0.00
18,800.0	90.00	359.75	11,533.0	5,688.2	56.0	5,688.3	0.00	0.00	0.00
18,900.0	90.00	359.75	11,533.0	5,788.2	55.6	5,788.3	0.00	0.00	0.00
19,000.0	90.00	359.75	11,533.0	5,888.2	55.1	5,888.3	0.00	0.00	0.00
19,100.0	90.00	359.75	11,533.0	5,988.2	54.7	5,988.3	0.00	0.00	0.00
19,200.0	90.00	359.75	11,533.0	6,088.2	54.3	6,088.3	0.00	0.00	0.00
19,300.0	90.00	359.75	11,533.0	6,188.2	53.8	6,188.3	0.00	0.00	0.00
19,400.0	90.00	359.75	11,533.0	6,288.2	53.4	6,288.3	0.00	0.00	0.00
19,500.0	90.00	359.75	11,533.0	6,388.2	53.0	6,388.3	0.00	0.00	0.00
19,600.0	90.00	359.75	11,533.0	6,488.2	52.5	6,488.3	0.00	0.00	0.00
19,700.0	90.00	359.75	11,533.0	6,588.2	52.1	6,588.3	0.00	0.00	0.00
19,800.0	90.00	359.75	11,533.0	6,688.2	51.7	6,688.3	0.00	0.00	0.00
19,900.0	90.00	359.75	11,533.0	6,788.2	51.2	6,788.3	0.00	0.00	0.00
20,000.0	90.00	359.75	11,533.0	6,888.2	50.8	6,888.3	0.00	0.00	0.00
20,100.0	90.00	359.75	11,533.0	6,988.2	50.4	6,988.3	0.00	0.00	0.00
20,200.0	90.00	359.75	11,533.0	7,088.2	49.9	7,088.3	0.00	0.00	0.00
20,300.0	90.00	359.75	11,533.0	7,188.2	49.5	7,188.3	0.00	0.00	0.00
20,400.0	90.00	359.75	11,533.0	7,288.2	49.1	7,288.3	0.00	0.00	0.00
20,500.0	90.00	359.75	11,533.0	7,388.2	48.6	7,388.3	0.00	0.00	0.00
20,600.0	90.00	359.75	11,533.0	7,488.2	48.2	7,488.3	0.00	0.00	0.00
20,700.0	90.00	359.75	11,533.0	7,588.2	47.8	7,588.3	0.00	0.00	0.00
20,800.0	90.00	359.75	11,533.0	7,688.2	47.3	7,688.3	0.00	0.00	0.00
20,900.0	90.00	359.75	11,533.0	7,788.2	46.9	7,788.3	0.00	0.00	0.00
21,000.0	90.00	359.75	11,533.0	7,888.2	46.5	7,888.3	0.00	0.00	0.00
21,100.0	90.00	359.75	11,533.0	7,988.2	46.0	7,988.3	0.00	0.00	0.00
21,200.0	90.00	359.75	11,533.0	8,088.2	45.6	8,088.3	0.00	0.00	0.00
21,300.0	90.00	359.75	11,533.0	8,188.2	45.2	8,188.3	0.00	0.00	0.00
21,400.0	90.00	359.75	11,533.0	8,288.2	44.7	8,288.3	0.00	0.00	0.00
21,500.0	90.00	359.75	11,533.0	8,388.2	44.3	8,388.3	0.00	0.00	0.00
21,600.0	90.00	359.75	11,533.0	8,488.2	43.9	8,488.3	0.00	0.00	0.00
21,700.0	90.00	359.75	11,533.0	8,588.2	43.4	8,588.3	0.00	0.00	0.00
21,800.0	90.00	359.75	11,533.0	8,688.2	43.0	8,688.3	0.00	0.00	0.00
21,900.0	90.00	359.75	11,533.0	8,788.2	42.6	8,788.3	0.00	0.00	0.00
22,000.0	90.00	359.75	11,533.0	8,888.2	42.1	8,888.3	0.00	0.00	0.00
22,100.0	90.00	359.75	11,533.0	8,988.2	41.7	8,988.3	0.00	0.00	0.00

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,200.0	90.00	359.75	11,533.0	9,088.2	41.3	9,088.3	0.00	0.00	0.00
22,300.0	90.00	359.75	11,533.0	9,188.2	40.8	9,188.2	0.00	0.00	0.00
22,400.0	90.00	359.75	11,533.0	9,288.2	40.4	9,288.2	0.00	0.00	0.00
22,500.0	90.00	359.75	11,533.0	9,388.2	40.0	9,388.2	0.00	0.00	0.00
22,600.0	90.00	359.75	11,533.0	9,488.2	39.5	9,488.2	0.00	0.00	0.00
22,700.0	90.00	359.75	11,533.0	9,588.2	39.1	9,588.2	0.00	0.00	0.00
22,800.0	90.00	359.75	11,533.0	9,688.2	38.7	9,688.2	0.00	0.00	0.00
22,900.0	90.00	359.75	11,533.0	9,788.2	38.2	9,788.2	0.00	0.00	0.00
23,000.0	90.00	359.75	11,533.0	9,888.2	37.8	9,888.2	0.00	0.00	0.00
23,100.0	90.00	359.75	11,533.0	9,988.2	37.4	9,988.2	0.00	0.00	0.00
23,200.0	90.00	359.75	11,533.0	10,088.2	36.9	10,088.2	0.00	0.00	0.00
23,300.0	90.00	359.75	11,533.0	10,188.2	36.5	10,188.2	0.00	0.00	0.00
23,400.0	90.00	359.75	11,533.0	10,288.2	36.1	10,288.2	0.00	0.00	0.00
23,500.0	90.00	359.75	11,533.0	10,388.2	35.6	10,388.2	0.00	0.00	0.00
23,600.0	90.00	359.75	11,533.0	10,488.2	35.2	10,488.2	0.00	0.00	0.00
23,700.0	90.00	359.75	11,533.0	10,588.2	34.8	10,588.2	0.00	0.00	0.00
23,800.0	90.00	359.75	11,533.0	10,688.2	34.3	10,688.2	0.00	0.00	0.00
23,900.0	90.00	359.75	11,533.0	10,788.2	33.9	10,788.2	0.00	0.00	0.00
24,000.0	90.00	359.75	11,533.0	10,888.2	33.5	10,888.2	0.00	0.00	0.00
24,100.0	90.00	359.75	11,533.0	10,988.2	33.0	10,988.2	0.00	0.00	0.00
24,200.0	90.00	359.75	11,533.0	11,088.2	32.6	11,088.2	0.00	0.00	0.00
24,300.0	90.00	359.75	11,533.0	11,188.2	32.2	11,188.2	0.00	0.00	0.00
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	11,252.1	0.00	0.00	0.00
PLU 20-8 BD 126H LTP									
24,400.0	90.00	359.75	11,533.0	11,288.2	31.7	11,288.2	0.00	0.00	0.00
24,500.0	90.00	359.75	11,533.0	11,388.2	31.3	11,388.2	0.00	0.00	0.00
24,600.0	90.00	359.75	11,533.0	11,488.2	30.9	11,488.2	0.00	0.00	0.00
24,643.9	90.00	359.75	11,533.0	11,532.1	30.7	11,532.1	0.00	0.00	0.00
PLU 20-8 BD 126H BHL									

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	8,000.0	-1,517.0	75.0	403,548.80	633,937.10	32° 6' 31.439 N	103° 54' 2.741 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	10,937.9	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H KOF - plan misses target center by 0.8usft at 11160.8usft MD (10960.0 TVD, -1617.3 N, -25.7 E) - Point	0.00	0.00	10,960.0	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	11,532.9	-1,048.9	47.9	404,016.91	633,910.04	32° 6' 36.073 N	103° 54' 3.034 W
PLU 20-8 BD 126H FTP - plan misses target center by 256.5usft at 11615.9usft MD (11368.6 TVD, -1446.4 N, -10.3 E) - Point	0.00	0.00	11,533.0	-1,617.0	88.0	403,448.80	633,950.10	32° 6' 30.449 N	103° 54' 2.594 W
PLU 20-8 BD 126H LTP - plan hits target center - Point	0.00	0.00	11,533.0	11,252.1	31.9	416,317.90	633,894.00	32° 8' 37.807 N	103° 54' 2.646 W
PLU 20-8 BD 126H BHL - plan misses target center by 1.1usft at 24643.9usft MD (11533.0 TVD, 11532.1 N, 30.7 E) - Point	0.00	0.00	11,533.0	11,532.1	31.8	416,597.90	633,893.90	32° 8' 40.578 N	103° 54' 2.634 W

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
841.6	841.5	Rustler			
1,083.6	1,083.5	Top Salt			
3,558.3	3,475.5	Base Salt			
3,768.1	3,675.5	Delaware			
4,741.4	4,604.5	Cherry Canyon			
6,318.3	6,137.5	Brushy Canyon			
7,501.0	7,308.5	Basal Brushy Canyon			
7,682.8	7,488.5	Bone Spring			
7,692.9	7,498.5	Bone Spring Lime Fm			
7,845.5	7,649.5	Avalon Shale			
8,215.9	8,018.5	Avalon Lime			
8,256.0	8,058.5	Lower Avalon Shale			
8,423.2	8,225.5	1st Bone Spring Lime			
8,625.4	8,427.5	1st Bone Spring Ss			
8,997.8	8,799.5	2nd Bone Spring Lime			
9,536.4	9,337.5	2nd Bone Spring Ss			
9,541.5	9,342.5	2nd Bone Spring A Sand			
9,620.5	9,421.5	2nd Bone Spring T/B Carb			
9,697.6	9,498.5	2nd Bone Spring C Sand			
9,766.7	9,567.5	3rd Bone Spring Lm			
10,180.2	9,980.5	3rd Bone Spring Sh			
10,396.4	10,196.5	3rd Bone Spring Sh Base			
10,602.7	10,402.5	3rd Bone Spring Ss			
10,853.0	10,652.5	Red Hills SS			
10,939.1	10,738.5	Wolfcamp			
10,966.1	10,765.5	Wolfcamp X			
11,053.2	10,852.5	Wolfcamp Y			
11,078.2	10,877.5	Wolfcamp A			
11,255.8	11,054.5	Wolfcamp A Lower			
11,535.6	11,308.5	Wolfcamp B			
11,814.0	11,480.5	Wolfcamp C			
12,039.4	11,532.5	TD			
12,039.4	11,532.5	Landing Point			

Dooling, Jessica

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 5:57 PM
To: Dooling, Jessica
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Categories: External Sender

External Email - Think Before You Click

Looks good to me. Good to go ahead.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 4:44 PM
To: Morency, Allison E <amorency@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Hi Miss Allison,

I understand you spoke to Nellie about changing the sidetrack procedure from one plug to two. The revised procedure is attached for reference.

Can you please respond to this email indicating the change is acceptable?

Thank you aga in for all of your help!

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 3:44 PM

To: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

External Email - Think Before You Click

There are no new coas.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 2:41 PM
To: Morency, Allison E <amorency@blm.gov>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

Thank you for your help on this Miss Allison!

Are there COAs associated with the sidetrack, or do the COAs from the original drilling sundry stand?

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

From: Morency, Allison E <amorency@blm.gov>
Sent: Tuesday, June 6, 2023 2:13 PM
To: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Cc: Walls, Christopher <cwalls@blm.gov>
Subject: RE: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H

External Email - Think Before You Click

Good Afternoon Jes,

The below email states that the **Top of Fish** is at 7193'. To better isolate the formation, please set plug at ~7150' vs 6700' (as proposed in attached plan) to minimize the space between the fish and plug. This is especially important to ensure continued separation between the Bone Spring and Brushy Canyon.

With this modification, you are approved for a verbal approval to sidetrack the well. If there are any questions, please contact the BLM. If it is after hours, contact the on-call phone.

Sincerely,
Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Dooling, Jessica <jessica.dooling@exxonmobil.com>
Sent: Tuesday, June 6, 2023 11:26 AM
To: Walls, Christopher <cwalls@blm.gov>; Morency, Allison E <amorency@blm.gov>
Subject: [EXTERNAL] Request for Sidetrack Approval - Poker Lake Unit 20-8 BD 126H
Importance: High

Hello Chris and Allison,

I hope you are well. Just when I thought I had made it through Monday successfully…I was notified that we need a sidetrack approval.

XTO Energy is here requesting approval of the Poker Lake Unit 20-8 BD Sidetrack Procedure, Current and Proposed WBDs and Directional Plan, please see attached. Current plan is to cement early this evening, is it possible to get an email approval with a sundry to follow?

High Level Summary: While drilling the intermediate the BHA became stuck at 8,405' MD on the Poker Lake Unit 20-8 BD 126H. The drilling string was parted at 7,193' MD, top of fish. Circulation was maintained down the drilling string until the drill string parted. We attempted retrieving the fish and were unsuccessful. XTO proposes to isolate the original wellbore and sidetrack from the intermediate hole.

Please let me know if any additional information is needed or if you have any questions.

Thank you,

Jes

Jes Dooling
Lead Regulatory Coordinator
XTO Energy Inc.
6401 Holiday Hill Rd, Building 5
Midland, Texas 79707
Mobile: 970-769-6048

An ExxonMobil Subsidiary

ROC

HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)
(HP463) PLU 20-8 Brushy Draw Pad D - Plans
PLU 20-8 BD - 126H

ST01

Plan: Plan 1

Standard Planning Report

03 June, 2023

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Project HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site (HP463) PLU 20-8 Brushy Draw Pad D - Plans

Site Position:		**Northing:**	405,071.70 usft	**Latitude:**	32° 6' 46.495 N
From:	Map	**Easting:**	634,322.10 usft	**Longitude:**	103° 53' 58.193 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well PLU 20-8 BD - 126H

Well Position	**+N/-S**	0.0 usft	**Northing:**	405,065.80 usft	**Latitude:**	32° 6' 46.455 N
	+E/-W	0.0 usft	**Easting:**	633,862.10 usft	**Longitude:**	103° 54' 3.542 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,199.0 usft
Grid Convergence:		0.23 °				

Wellbore ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/3/2023	6.46	59.69	47,191.64717599

Design Plan 1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	5,642.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.15

Plan Survey Tool Program **Date** 6/3/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	5,642.0	24,644.0	Plan 1 (ST01)	XOMR2_OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-St	

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	0.00	0.00	0.00	0.00	
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	1.32	1.10	3.48	34.57	
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	1.16	1.04	2.28	27.33	
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	6.00	-5.23	-14.63	-155.06	
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	0.00	0.00	0.00	0.00	
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	2.00	-1.72	-6.53	-152.71	
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	0.00	0.00	0.00	0.00	
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	2.00	-1.48	17.22	160.23	PLU 20-8 BD 126H S
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H S
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	10.00	9.46	15.61	143.97	
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	2.00	0.00	-2.00	-90.00	
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H L
24,644.0	90.00	359.75	11,533.0	11,532.1	30.7	0.00	0.00	0.00	0.00	PLU 20-8 BD 126H B

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
165.0	0.43	335.11	165.0	0.6	-0.3	0.6	0.26	0.26	0.00
228.0	0.47	322.68	228.0	1.0	-0.5	1.0	0.17	0.06	-19.73
291.0	0.58	315.44	291.0	1.4	-0.9	1.4	0.20	0.17	-11.49
354.0	0.61	314.53	354.0	1.9	-1.4	1.9	0.05	0.05	-1.44
417.0	0.62	316.34	417.0	2.4	-1.8	2.4	0.03	0.02	2.87
480.0	0.68	309.55	480.0	2.8	-2.4	2.8	0.15	0.10	-10.78
543.0	0.60	306.17	543.0	3.3	-2.9	3.3	0.14	-0.13	-5.37
606.0	0.72	308.44	606.0	3.7	-3.5	3.7	0.19	0.19	3.60
669.0	0.63	304.64	669.0	4.2	-4.1	4.1	0.16	-0.14	-6.03
701.0	0.81	314.94	701.0	4.4	-4.4	4.4	0.69	0.56	32.19
796.0	1.23	320.08	796.0	5.7	-5.5	5.7	0.45	0.44	5.41
891.0	1.24	316.83	890.9	7.2	-6.9	7.2	0.07	0.01	-3.42
916.0	1.27	320.76	915.9	7.6	-7.2	7.6	0.36	0.12	15.72
982.0	1.18	325.54	981.9	8.7	-8.1	8.7	0.21	-0.14	7.24
1,077.0	0.97	352.17	1,076.9	10.3	-8.7	10.3	0.56	-0.22	28.03
1,172.0	1.50	174.68	1,171.9	9.9	-8.7	9.9	2.60	0.56	-186.83
1,267.0	1.89	171.61	1,266.8	7.1	-8.4	7.1	0.42	0.41	-3.23
1,362.0	4.14	176.77	1,361.7	2.1	-8.0	2.1	2.38	2.37	5.43
1,457.0	6.85	176.70	1,456.3	-6.9	-7.5	-7.0	2.85	2.85	-0.07
1,552.0	9.02	174.86	1,550.3	-20.0	-6.5	-20.0	2.30	2.28	-1.94
1,647.0	10.63	172.33	1,643.9	-36.1	-4.6	-36.1	1.75	1.69	-2.66
1,742.0	12.79	174.95	1,737.0	-55.3	-2.5	-55.3	2.34	2.27	2.76
1,838.0	14.17	179.18	1,830.3	-77.6	-1.4	-77.6	1.77	1.44	4.41
1,933.0	15.84	182.14	1,922.1	-102.2	-1.7	-102.2	1.93	1.76	3.12
2,028.0	17.60	182.11	2,013.1	-129.5	-2.8	-129.5	1.85	1.85	-0.03
2,123.0	17.60	180.43	2,103.6	-158.2	-3.4	-158.2	0.53	0.00	-1.77
2,218.0	16.92	179.71	2,194.3	-186.4	-3.4	-186.4	0.75	-0.72	-0.76
2,313.0	16.04	178.97	2,285.4	-213.4	-3.1	-213.4	0.95	-0.93	-0.78
2,408.0	17.16	177.62	2,376.5	-240.5	-2.3	-240.5	1.25	1.18	-1.42
2,503.0	17.75	176.30	2,467.1	-268.9	-0.8	-268.9	0.75	0.62	-1.39
2,598.0	16.64	175.20	2,557.9	-296.9	1.3	-296.9	1.22	-1.17	-1.16
2,694.0	17.76	175.56	2,649.6	-325.2	3.6	-325.2	1.17	1.17	0.38
2,789.0	17.27	175.56	2,740.2	-353.7	5.8	-353.7	0.52	-0.52	0.00
2,884.0	16.33	176.65	2,831.1	-381.1	7.7	-381.1	1.04	-0.99	1.15
2,979.0	16.10	178.77	2,922.3	-407.6	8.7	-407.6	0.67	-0.24	2.23
3,074.0	18.02	177.36	3,013.1	-435.5	9.7	-435.5	2.07	2.02	-1.48
3,169.0	17.06	173.00	3,103.7	-464.0	12.0	-464.0	1.71	-1.01	-4.59
3,264.0	15.56	172.23	3,194.9	-490.5	15.5	-490.4	1.60	-1.58	-0.81
3,360.0	17.19	176.27	3,287.0	-517.4	18.1	-517.3	2.07	1.70	4.21
3,455.0	18.51	178.76	3,377.4	-546.5	19.4	-546.4	1.60	1.39	2.62
3,550.0	18.25	175.60	3,467.6	-576.4	20.8	-576.3	1.08	-0.27	-3.33
3,645.0	18.14	190.06	3,557.9	-605.8	19.4	-605.7	4.74	-0.12	15.22
3,740.0	16.61	188.93	3,648.5	-633.8	14.7	-633.7	1.65	-1.61	-1.19
3,835.0	15.68	186.84	3,739.8	-659.9	11.1	-659.9	1.15	-0.98	-2.20
3,930.0	15.91	187.05	3,831.2	-685.6	7.9	-685.6	0.25	0.24	0.22
4,026.0	16.20	186.53	3,923.5	-711.9	4.8	-711.9	0.34	0.30	-0.54
4,121.0	15.81	188.00	4,014.8	-737.9	1.5	-737.9	0.59	-0.41	1.55
4,216.0	15.27	188.02	4,106.3	-763.1	-2.0	-763.1	0.57	-0.57	0.02
4,311.0	15.70	186.94	4,197.9	-788.3	-5.3	-788.3	0.54	0.45	-1.14
4,406.0	19.71	180.66	4,288.3	-817.1	-7.1	-817.1	4.67	4.22	-6.61
4,501.0	19.81	180.43	4,377.8	-849.2	-7.4	-849.2	0.13	0.11	-0.24

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,596.0	19.82	180.84	4,467.1	-881.4	-7.7	-881.4	0.15	0.01	0.43
4,691.0	18.98	181.48	4,556.7	-912.9	-8.4	-913.0	0.91	-0.88	0.67
4,786.0	17.78	181.75	4,646.9	-942.9	-9.2	-942.9	1.27	-1.26	0.28
4,881.0	17.72	182.50	4,737.4	-971.8	-10.3	-971.8	0.25	-0.06	0.79
4,976.0	17.07	182.46	4,828.0	-1,000.2	-11.5	-1,000.2	0.68	-0.68	-0.04
5,072.0	17.23	182.53	4,919.8	-1,028.5	-12.8	-1,028.5	0.17	0.17	0.07
5,167.0	17.22	181.89	5,010.5	-1,056.6	-13.8	-1,056.6	0.20	-0.01	-0.67
5,262.0	16.02	180.39	5,101.5	-1,083.7	-14.4	-1,083.8	1.34	-1.26	-1.58
5,357.0	13.65	176.57	5,193.4	-1,108.0	-13.8	-1,108.1	2.70	-2.49	-4.02
5,452.0	12.76	175.99	5,285.8	-1,129.7	-12.4	-1,129.7	0.95	-0.94	-0.61
5,547.0	12.17	176.37	5,378.6	-1,150.2	-11.0	-1,150.2	0.63	-0.62	0.40
5,642.0	11.82	175.49	5,471.5	-1,169.9	-9.6	-1,169.9	0.42	-0.37	-0.93
5,700.0	12.46	177.51	5,528.2	-1,182.0	-8.9	-1,182.1	1.32	1.10	3.48
5,800.0	13.50	179.79	5,625.7	-1,204.5	-8.4	-1,204.5	1.16	1.04	2.28
5,850.0	10.85	173.06	5,674.5	-1,215.0	-7.8	-1,215.0	6.00	-5.30	-13.46
5,866.9	10.00	170.00	5,691.2	-1,218.0	-7.4	-1,218.0	6.00	-5.03	-18.07
5,900.0	10.00	170.00	5,723.8	-1,223.7	-6.4	-1,223.7	0.00	0.00	0.00
5,916.9	10.00	170.00	5,740.4	-1,226.6	-5.8	-1,226.6	0.00	0.00	0.00
6,000.0	8.56	164.88	5,822.4	-1,239.6	-3.0	-1,239.6	2.00	-1.74	-6.17
6,028.0	8.09	162.75	5,850.1	-1,243.5	-1.9	-1,243.5	2.00	-1.67	-7.60
6,100.0	8.09	162.75	5,921.4	-1,253.2	1.1	-1,253.2	0.00	0.00	0.00
6,200.0	8.09	162.75	6,020.4	-1,266.7	5.3	-1,266.6	0.00	0.00	0.00
6,300.0	8.09	162.75	6,119.4	-1,280.1	9.5	-1,280.1	0.00	0.00	0.00
6,318.3	8.09	162.75	6,137.5	-1,282.5	10.3	-1,282.5	0.00	0.00	0.00
Brushy Canyon									
6,400.0	8.09	162.75	6,218.4	-1,293.5	13.7	-1,293.5	0.00	0.00	0.00
6,500.0	8.09	162.75	6,317.4	-1,307.0	17.8	-1,306.9	0.00	0.00	0.00
6,600.0	8.09	162.75	6,416.4	-1,320.4	22.0	-1,320.3	0.00	0.00	0.00
6,700.0	8.09	162.75	6,515.4	-1,333.9	26.2	-1,333.8	0.00	0.00	0.00
6,800.0	8.09	162.75	6,614.4	-1,347.3	30.4	-1,347.2	0.00	0.00	0.00
6,900.0	8.09	162.75	6,713.4	-1,360.7	34.5	-1,360.6	0.00	0.00	0.00
7,000.0	8.09	162.75	6,812.4	-1,374.2	38.7	-1,374.1	0.00	0.00	0.00
7,100.0	8.09	162.75	6,911.5	-1,387.6	42.9	-1,387.5	0.00	0.00	0.00
7,200.0	8.09	162.75	7,010.5	-1,401.1	47.1	-1,400.9	0.00	0.00	0.00
7,300.0	8.09	162.75	7,109.5	-1,414.5	51.2	-1,414.4	0.00	0.00	0.00
7,400.0	8.09	162.75	7,208.5	-1,427.9	55.4	-1,427.8	0.00	0.00	0.00
7,500.0	8.09	162.75	7,307.5	-1,441.4	59.6	-1,441.2	0.00	0.00	0.00
7,501.0	8.09	162.75	7,308.5	-1,441.5	59.6	-1,441.3	0.00	0.00	0.00
Basal Brushy Canyon									
7,600.0	8.09	162.75	7,406.5	-1,454.8	63.8	-1,454.6	0.00	0.00	0.00
7,682.8	8.09	162.75	7,488.5	-1,465.9	67.2	-1,465.8	0.00	0.00	0.00
Bone Spring									
7,692.9	8.09	162.75	7,498.5	-1,467.3	67.6	-1,467.1	0.00	0.00	0.00
Bone Spring Lime Fm									
7,700.0	8.09	162.75	7,505.5	-1,468.3	67.9	-1,468.1	0.00	0.00	0.00
7,800.0	8.09	162.75	7,604.5	-1,481.7	72.1	-1,481.5	0.00	0.00	0.00
7,836.0	8.09	162.75	7,640.1	-1,486.5	73.6	-1,486.3	0.00	0.00	0.00
7,845.5	7.91	163.21	7,649.5	-1,487.8	74.0	-1,487.6	2.00	-1.88	4.91
Avalon Shale									
7,900.0	6.90	166.35	7,703.6	-1,494.6	75.8	-1,494.4	2.00	-1.86	5.76
8,000.0	5.12	175.26	7,803.0	-1,504.9	77.6	-1,504.6	2.00	-1.77	8.91
8,100.0	3.59	192.52	7,902.7	-1,512.4	77.3	-1,512.2	2.00	-1.53	17.26

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,197.4	2.76	225.00	8,000.0	-1,517.0	75.0	-1,516.8	2.00	-0.86	33.34
PLU 20-8 BD 126H ST01 VP Pln1									
8,200.0	2.76	225.00	8,002.6	-1,517.1	74.9	-1,516.9	0.00	0.00	0.00
8,215.9	2.76	225.00	8,018.5	-1,517.6	74.4	-1,517.4	0.00	0.00	0.00
Avalon Lime									
8,256.0	2.76	225.00	8,058.5	-1,519.0	73.0	-1,518.8	0.00	0.00	0.00
Lower Avalon Shale									
8,300.0	2.76	225.00	8,102.5	-1,520.5	71.5	-1,520.3	0.00	0.00	0.00
8,400.0	2.76	225.00	8,202.4	-1,523.9	68.1	-1,523.7	0.00	0.00	0.00
8,423.2	2.76	225.00	8,225.5	-1,524.7	67.3	-1,524.5	0.00	0.00	0.00
1st Bone Spring Lime									
8,500.0	2.76	225.00	8,302.2	-1,527.3	64.7	-1,527.1	0.00	0.00	0.00
8,600.0	2.76	225.00	8,402.1	-1,530.7	61.3	-1,530.5	0.00	0.00	0.00
8,625.4	2.76	225.00	8,427.5	-1,531.6	60.4	-1,531.4	0.00	0.00	0.00
1st Bone Spring Ss									
8,700.0	2.76	225.00	8,502.0	-1,534.1	57.9	-1,533.9	0.00	0.00	0.00
8,800.0	2.76	225.00	8,601.9	-1,537.5	54.5	-1,537.3	0.00	0.00	0.00
8,900.0	2.76	225.00	8,701.8	-1,540.9	51.1	-1,540.7	0.00	0.00	0.00
8,997.8	2.76	225.00	8,799.5	-1,544.2	47.8	-1,544.1	0.00	0.00	0.00
2nd Bone Spring Lime									
9,000.0	2.76	225.00	8,801.7	-1,544.3	47.7	-1,544.2	0.00	0.00	0.00
9,100.0	2.76	225.00	8,901.6	-1,547.7	44.3	-1,547.6	0.00	0.00	0.00
9,200.0	2.76	225.00	9,001.4	-1,551.1	40.9	-1,551.0	0.00	0.00	0.00
9,300.0	2.76	225.00	9,101.3	-1,554.5	37.5	-1,554.4	0.00	0.00	0.00
9,400.0	2.76	225.00	9,201.2	-1,557.9	34.1	-1,557.8	0.00	0.00	0.00
9,500.0	2.76	225.00	9,301.1	-1,561.3	30.7	-1,561.2	0.00	0.00	0.00
9,536.4	2.76	225.00	9,337.5	-1,562.5	29.5	-1,562.4	0.00	0.00	0.00
2nd Bone Spring Ss									
9,541.5	2.76	225.00	9,342.5	-1,562.7	29.3	-1,562.6	0.00	0.00	0.00
2nd Bone Spring A Sand									
9,600.0	2.76	225.00	9,401.0	-1,564.7	27.3	-1,564.6	0.00	0.00	0.00
9,620.5	2.76	225.00	9,421.5	-1,565.4	26.6	-1,565.3	0.00	0.00	0.00
2nd Bone Spring T/B Carb									
9,697.6	2.76	225.00	9,498.5	-1,568.0	24.0	-1,567.9	0.00	0.00	0.00
2nd Bone Spring C Sand									
9,700.0	2.76	225.00	9,500.9	-1,568.1	23.9	-1,568.0	0.00	0.00	0.00
9,766.7	2.76	225.00	9,567.5	-1,570.4	21.6	-1,570.3	0.00	0.00	0.00
3rd Bone Spring Lm									
9,800.0	2.76	225.00	9,600.7	-1,571.5	20.5	-1,571.4	0.00	0.00	0.00
9,900.0	2.76	225.00	9,700.6	-1,574.9	17.1	-1,574.8	0.00	0.00	0.00
10,000.0	2.76	225.00	9,800.5	-1,578.3	13.7	-1,578.2	0.00	0.00	0.00
10,100.0	2.76	225.00	9,900.4	-1,581.7	10.3	-1,581.7	0.00	0.00	0.00
10,180.2	2.76	225.00	9,980.5	-1,584.4	7.6	-1,584.4	0.00	0.00	0.00
3rd Bone Spring Sh									
10,200.0	2.76	225.00	10,000.3	-1,585.1	6.9	-1,585.1	0.00	0.00	0.00
10,300.0	2.76	225.00	10,100.2	-1,588.5	3.5	-1,588.5	0.00	0.00	0.00
10,396.4	2.76	225.00	10,196.5	-1,591.8	0.2	-1,591.8	0.00	0.00	0.00
3rd Bone Spring Sh Base									
10,400.0	2.76	225.00	10,200.1	-1,591.9	0.1	-1,591.9	0.00	0.00	0.00
10,500.0	2.76	225.00	10,299.9	-1,595.3	-3.3	-1,595.3	0.00	0.00	0.00

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Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	2.76	225.00	10,399.8	-1,598.7	-6.7	-1,598.7	0.00	0.00	0.00
10,602.7	2.76	225.00	10,402.5	-1,598.8	-6.8	-1,598.8	0.00	0.00	0.00
3rd Bone Spring Ss									
10,700.0	2.76	225.00	10,499.7	-1,602.1	-10.1	-1,602.1	0.00	0.00	0.00
10,800.0	2.76	225.00	10,599.6	-1,605.5	-13.5	-1,605.5	0.00	0.00	0.00
10,853.0	2.76	225.00	10,652.5	-1,607.3	-15.3	-1,607.3	0.00	0.00	0.00
Red Hills SS									
10,900.0	2.76	225.00	10,699.5	-1,608.9	-16.9	-1,608.9	0.00	0.00	0.00
10,939.1	2.76	225.00	10,738.5	-1,610.2	-18.2	-1,610.3	0.00	0.00	0.00
Wolfcamp									
10,966.1	2.76	225.00	10,765.5	-1,611.1	-19.1	-1,611.2	0.00	0.00	0.00
Wolfcamp X									
11,000.0	2.76	225.00	10,799.4	-1,612.3	-20.3	-1,612.3	0.00	0.00	0.00
11,053.2	2.76	225.00	10,852.5	-1,614.1	-22.1	-1,614.1	0.00	0.00	0.00
Wolfcamp Y									
11,078.2	2.76	225.00	10,877.5	-1,614.9	-22.9	-1,615.0	0.00	0.00	0.00
Wolfcamp A									
11,100.0	2.76	225.00	10,899.2	-1,615.7	-23.7	-1,615.7	0.00	0.00	0.00
11,138.7	2.76	225.00	10,937.9	-1,617.0	-25.0	-1,617.1	0.00	0.00	0.00
PLU 20-8 BD 126H ST01 KOP Pln1									
11,150.0	1.96	244.84	10,949.2	-1,617.3	-25.4	-1,617.3	10.00	-7.06	175.60
11,160.8	1.62	278.33	10,960.0	-1,617.3	-25.7	-1,617.4	10.00	-3.12	309.94
PLU 20-8 BD 126H KOP Pln3									
11,200.0	4.22	346.47	10,999.1	-1,615.8	-26.6	-1,615.9	10.00	6.64	173.85
11,250.0	9.05	358.76	11,048.8	-1,610.1	-27.1	-1,610.2	10.00	9.64	24.58
11,255.8	9.62	359.39	11,054.5	-1,609.2	-27.1	-1,609.3	10.00	9.85	10.77
Wolfcamp A Lower									
11,300.0	13.99	2.48	11,097.8	-1,600.1	-26.9	-1,600.2	10.00	9.90	7.00
11,350.0	18.97	4.28	11,145.7	-1,586.0	-26.0	-1,586.1	10.00	9.95	3.59
11,400.0	23.95	5.35	11,192.2	-1,567.8	-24.5	-1,567.8	10.00	9.97	2.14
11,450.0	28.94	6.07	11,237.0	-1,545.6	-22.3	-1,545.7	10.00	9.98	1.44
11,500.0	33.93	6.59	11,279.6	-1,519.7	-19.4	-1,519.8	10.00	9.99	1.05
11,535.6	37.49	6.89	11,308.5	-1,499.1	-16.9	-1,499.1	10.00	9.99	0.83
Wolfcamp B									
11,550.0	38.93	6.99	11,319.8	-1,490.2	-15.9	-1,490.3	10.00	9.99	0.74
11,600.0	43.92	7.32	11,357.3	-1,457.4	-11.7	-1,457.5	10.00	9.99	0.65
11,615.9	45.51	7.41	11,368.6	-1,446.4	-10.3	-1,446.4	10.00	9.99	0.57
PLU 20-8 BD 126H FTP									
11,650.0	48.92	7.59	11,391.8	-1,421.5	-7.0	-1,421.5	10.00	9.99	0.53
11,700.0	53.92	7.82	11,422.9	-1,382.8	-1.8	-1,382.8	10.00	9.99	0.46
11,750.0	58.91	8.02	11,450.6	-1,341.6	3.9	-1,341.5	10.00	9.99	0.41
11,800.0	63.91	8.21	11,474.5	-1,298.1	10.1	-1,298.1	10.00	9.99	0.37
11,814.0	65.31	8.25	11,480.5	-1,285.6	11.9	-1,285.6	10.00	10.00	0.35
Wolfcamp C									
11,850.0	68.91	8.37	11,494.5	-1,252.8	16.7	-1,252.7	10.00	10.00	0.33
11,900.0	73.91	8.53	11,510.4	-1,205.9	23.7	-1,205.9	10.00	10.00	0.32
11,950.0	78.90	8.68	11,522.2	-1,157.9	31.0	-1,157.8	10.00	10.00	0.30
12,000.0	83.90	8.83	11,529.7	-1,109.0	38.5	-1,108.9	10.00	10.00	0.29
12,039.4	87.84	8.94	11,532.5	-1,070.2	44.6	-1,070.1	10.00	10.00	0.28
TD - Landing Point									
12,050.0	88.90	8.97	11,532.8	-1,059.8	46.2	-1,059.6	10.00	10.00	0.28

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,061.0	90.00	9.00	11,532.9	-1,048.9	47.9	-1,048.8	10.00	10.00	0.28
PLU 20-8 BD 126H ST01 LP Plan 1									
12,100.0	90.00	8.22	11,532.9	-1,010.3	53.8	-1,010.2	2.00	0.00	-2.00
12,200.0	90.00	6.22	11,532.9	-911.1	66.3	-910.9	2.00	0.00	-2.00
12,300.0	90.00	4.22	11,532.9	-811.5	75.4	-811.3	2.00	0.00	-2.00
12,400.0	90.00	2.22	11,532.9	-711.7	81.1	-711.5	2.00	0.00	-2.00
12,500.0	90.00	0.22	11,532.9	-611.7	83.2	-611.5	2.00	0.00	-2.00
12,523.4	90.00	359.75	11,532.9	-588.3	83.2	-588.1	2.00	0.00	-2.00
12,600.0	90.00	359.75	11,532.9	-511.7	82.8	-511.5	0.00	0.00	0.00
12,700.0	90.00	359.75	11,532.9	-411.7	82.4	-411.5	0.00	0.00	0.00
12,800.0	90.00	359.75	11,532.9	-311.7	82.0	-311.5	0.00	0.00	0.00
12,900.0	90.00	359.75	11,532.9	-211.7	81.5	-211.5	0.00	0.00	0.00
13,000.0	90.00	359.75	11,532.9	-111.7	81.1	-111.5	0.00	0.00	0.00
13,100.0	90.00	359.75	11,532.9	-11.7	80.7	-11.5	0.00	0.00	0.00
13,200.0	90.00	359.75	11,532.9	88.3	80.2	88.5	0.00	0.00	0.00
13,300.0	90.00	359.75	11,532.9	188.3	79.8	188.5	0.00	0.00	0.00
13,400.0	90.00	359.75	11,532.9	288.3	79.4	288.5	0.00	0.00	0.00
13,500.0	90.00	359.75	11,532.9	388.3	78.9	388.5	0.00	0.00	0.00
13,600.0	90.00	359.75	11,532.9	488.3	78.5	488.5	0.00	0.00	0.00
13,700.0	90.00	359.75	11,532.9	588.3	78.1	588.5	0.00	0.00	0.00
13,800.0	90.00	359.75	11,532.9	688.3	77.6	688.5	0.00	0.00	0.00
13,900.0	90.00	359.75	11,532.9	788.3	77.2	788.5	0.00	0.00	0.00
14,000.0	90.00	359.75	11,532.9	888.3	76.8	888.5	0.00	0.00	0.00
14,100.0	90.00	359.75	11,532.9	988.3	76.4	988.4	0.00	0.00	0.00
14,200.0	90.00	359.75	11,532.9	1,088.2	75.9	1,088.4	0.00	0.00	0.00
14,300.0	90.00	359.75	11,532.9	1,188.2	75.5	1,188.4	0.00	0.00	0.00
14,400.0	90.00	359.75	11,532.9	1,288.2	75.1	1,288.4	0.00	0.00	0.00
14,500.0	90.00	359.75	11,532.9	1,388.2	74.6	1,388.4	0.00	0.00	0.00
14,600.0	90.00	359.75	11,532.9	1,488.2	74.2	1,488.4	0.00	0.00	0.00
14,700.0	90.00	359.75	11,532.9	1,588.2	73.8	1,588.4	0.00	0.00	0.00
14,800.0	90.00	359.75	11,532.9	1,688.2	73.3	1,688.4	0.00	0.00	0.00
14,900.0	90.00	359.75	11,532.9	1,788.2	72.9	1,788.4	0.00	0.00	0.00
15,000.0	90.00	359.75	11,532.9	1,888.2	72.5	1,888.4	0.00	0.00	0.00
15,100.0	90.00	359.75	11,532.9	1,988.2	72.0	1,988.4	0.00	0.00	0.00
15,200.0	90.00	359.75	11,532.9	2,088.2	71.6	2,088.4	0.00	0.00	0.00
15,300.0	90.00	359.75	11,532.9	2,188.2	71.2	2,188.4	0.00	0.00	0.00
15,400.0	90.00	359.75	11,532.9	2,288.2	70.7	2,288.4	0.00	0.00	0.00
15,500.0	90.00	359.75	11,532.9	2,388.2	70.3	2,388.4	0.00	0.00	0.00
15,600.0	90.00	359.75	11,532.9	2,488.2	69.9	2,488.4	0.00	0.00	0.00
15,700.0	90.00	359.75	11,532.9	2,588.2	69.4	2,588.4	0.00	0.00	0.00
15,800.0	90.00	359.75	11,532.9	2,688.2	69.0	2,688.4	0.00	0.00	0.00
15,900.0	90.00	359.75	11,532.9	2,788.2	68.6	2,788.4	0.00	0.00	0.00
16,000.0	90.00	359.75	11,532.9	2,888.2	68.1	2,888.4	0.00	0.00	0.00
16,100.0	90.00	359.75	11,532.9	2,988.2	67.7	2,988.4	0.00	0.00	0.00
16,200.0	90.00	359.75	11,532.9	3,088.2	67.3	3,088.4	0.00	0.00	0.00
16,300.0	90.00	359.75	11,532.9	3,188.2	66.8	3,188.4	0.00	0.00	0.00
16,400.0	90.00	359.75	11,532.9	3,288.2	66.4	3,288.4	0.00	0.00	0.00
16,500.0	90.00	359.75	11,532.9	3,388.2	66.0	3,388.4	0.00	0.00	0.00
16,600.0	90.00	359.75	11,532.9	3,488.2	65.5	3,488.4	0.00	0.00	0.00
16,700.0	90.00	359.75	11,532.9	3,588.2	65.1	3,588.4	0.00	0.00	0.00
16,800.0	90.00	359.75	11,532.9	3,688.2	64.7	3,688.4	0.00	0.00	0.00
16,900.0	90.00	359.75	11,532.9	3,788.2	64.2	3,788.4	0.00	0.00	0.00

ExxonMobil

Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.0	90.00	359.75	11,532.9	3,888.2	63.8	3,888.4	0.00	0.00	0.00
17,100.0	90.00	359.75	11,532.9	3,988.2	63.4	3,988.4	0.00	0.00	0.00
17,200.0	90.00	359.75	11,532.9	4,088.2	62.9	4,088.4	0.00	0.00	0.00
17,300.0	90.00	359.75	11,532.9	4,188.2	62.5	4,188.4	0.00	0.00	0.00
17,400.0	90.00	359.75	11,532.9	4,288.2	62.1	4,288.4	0.00	0.00	0.00
17,500.0	90.00	359.75	11,532.9	4,388.2	61.6	4,388.4	0.00	0.00	0.00
17,600.0	90.00	359.75	11,532.9	4,488.2	61.2	4,488.4	0.00	0.00	0.00
17,700.0	90.00	359.75	11,532.9	4,588.2	60.8	4,588.4	0.00	0.00	0.00
17,800.0	90.00	359.75	11,532.9	4,688.2	60.3	4,688.4	0.00	0.00	0.00
17,900.0	90.00	359.75	11,532.9	4,788.2	59.9	4,788.4	0.00	0.00	0.00
18,000.0	90.00	359.75	11,533.0	4,888.2	59.5	4,888.4	0.00	0.00	0.00
18,100.0	90.00	359.75	11,533.0	4,988.2	59.0	4,988.4	0.00	0.00	0.00
18,200.0	90.00	359.75	11,533.0	5,088.2	58.6	5,088.3	0.00	0.00	0.00
18,300.0	90.00	359.75	11,533.0	5,188.2	58.2	5,188.3	0.00	0.00	0.00
18,400.0	90.00	359.75	11,533.0	5,288.2	57.7	5,288.3	0.00	0.00	0.00
18,500.0	90.00	359.75	11,533.0	5,388.2	57.3	5,388.3	0.00	0.00	0.00
18,600.0	90.00	359.75	11,533.0	5,488.2	56.9	5,488.3	0.00	0.00	0.00
18,700.0	90.00	359.75	11,533.0	5,588.2	56.4	5,588.3	0.00	0.00	0.00
18,800.0	90.00	359.75	11,533.0	5,688.2	56.0	5,688.3	0.00	0.00	0.00
18,900.0	90.00	359.75	11,533.0	5,788.2	55.6	5,788.3	0.00	0.00	0.00
19,000.0	90.00	359.75	11,533.0	5,888.2	55.1	5,888.3	0.00	0.00	0.00
19,100.0	90.00	359.75	11,533.0	5,988.2	54.7	5,988.3	0.00	0.00	0.00
19,200.0	90.00	359.75	11,533.0	6,088.2	54.3	6,088.3	0.00	0.00	0.00
19,300.0	90.00	359.75	11,533.0	6,188.2	53.8	6,188.3	0.00	0.00	0.00
19,400.0	90.00	359.75	11,533.0	6,288.2	53.4	6,288.3	0.00	0.00	0.00
19,500.0	90.00	359.75	11,533.0	6,388.2	53.0	6,388.3	0.00	0.00	0.00
19,600.0	90.00	359.75	11,533.0	6,488.2	52.5	6,488.3	0.00	0.00	0.00
19,700.0	90.00	359.75	11,533.0	6,588.2	52.1	6,588.3	0.00	0.00	0.00
19,800.0	90.00	359.75	11,533.0	6,688.2	51.7	6,688.3	0.00	0.00	0.00
19,900.0	90.00	359.75	11,533.0	6,788.2	51.2	6,788.3	0.00	0.00	0.00
20,000.0	90.00	359.75	11,533.0	6,888.2	50.8	6,888.3	0.00	0.00	0.00
20,100.0	90.00	359.75	11,533.0	6,988.2	50.4	6,988.3	0.00	0.00	0.00
20,200.0	90.00	359.75	11,533.0	7,088.2	49.9	7,088.3	0.00	0.00	0.00
20,300.0	90.00	359.75	11,533.0	7,188.2	49.5	7,188.3	0.00	0.00	0.00
20,400.0	90.00	359.75	11,533.0	7,288.2	49.1	7,288.3	0.00	0.00	0.00
20,500.0	90.00	359.75	11,533.0	7,388.2	48.6	7,388.3	0.00	0.00	0.00
20,600.0	90.00	359.75	11,533.0	7,488.2	48.2	7,488.3	0.00	0.00	0.00
20,700.0	90.00	359.75	11,533.0	7,588.2	47.8	7,588.3	0.00	0.00	0.00
20,800.0	90.00	359.75	11,533.0	7,688.2	47.3	7,688.3	0.00	0.00	0.00
20,900.0	90.00	359.75	11,533.0	7,788.2	46.9	7,788.3	0.00	0.00	0.00
21,000.0	90.00	359.75	11,533.0	7,888.2	46.5	7,888.3	0.00	0.00	0.00
21,100.0	90.00	359.75	11,533.0	7,988.2	46.0	7,988.3	0.00	0.00	0.00
21,200.0	90.00	359.75	11,533.0	8,088.2	45.6	8,088.3	0.00	0.00	0.00
21,300.0	90.00	359.75	11,533.0	8,188.2	45.2	8,188.3	0.00	0.00	0.00
21,400.0	90.00	359.75	11,533.0	8,288.2	44.7	8,288.3	0.00	0.00	0.00
21,500.0	90.00	359.75	11,533.0	8,388.2	44.3	8,388.3	0.00	0.00	0.00
21,600.0	90.00	359.75	11,533.0	8,488.2	43.9	8,488.3	0.00	0.00	0.00
21,700.0	90.00	359.75	11,533.0	8,588.2	43.4	8,588.3	0.00	0.00	0.00
21,800.0	90.00	359.75	11,533.0	8,688.2	43.0	8,688.3	0.00	0.00	0.00
21,900.0	90.00	359.75	11,533.0	8,788.2	42.6	8,788.3	0.00	0.00	0.00
22,000.0	90.00	359.75	11,533.0	8,888.2	42.1	8,888.3	0.00	0.00	0.00
22,100.0	90.00	359.75	11,533.0	8,988.2	41.7	8,988.3	0.00	0.00	0.00

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,200.0	90.00	359.75	11,533.0	9,088.2	41.3	9,088.3	0.00	0.00	0.00
22,300.0	90.00	359.75	11,533.0	9,188.2	40.8	9,188.2	0.00	0.00	0.00
22,400.0	90.00	359.75	11,533.0	9,288.2	40.4	9,288.2	0.00	0.00	0.00
22,500.0	90.00	359.75	11,533.0	9,388.2	40.0	9,388.2	0.00	0.00	0.00
22,600.0	90.00	359.75	11,533.0	9,488.2	39.5	9,488.2	0.00	0.00	0.00
22,700.0	90.00	359.75	11,533.0	9,588.2	39.1	9,588.2	0.00	0.00	0.00
22,800.0	90.00	359.75	11,533.0	9,688.2	38.7	9,688.2	0.00	0.00	0.00
22,900.0	90.00	359.75	11,533.0	9,788.2	38.2	9,788.2	0.00	0.00	0.00
23,000.0	90.00	359.75	11,533.0	9,888.2	37.8	9,888.2	0.00	0.00	0.00
23,100.0	90.00	359.75	11,533.0	9,988.2	37.4	9,988.2	0.00	0.00	0.00
23,200.0	90.00	359.75	11,533.0	10,088.2	36.9	10,088.2	0.00	0.00	0.00
23,300.0	90.00	359.75	11,533.0	10,188.2	36.5	10,188.2	0.00	0.00	0.00
23,400.0	90.00	359.75	11,533.0	10,288.2	36.1	10,288.2	0.00	0.00	0.00
23,500.0	90.00	359.75	11,533.0	10,388.2	35.6	10,388.2	0.00	0.00	0.00
23,600.0	90.00	359.75	11,533.0	10,488.2	35.2	10,488.2	0.00	0.00	0.00
23,700.0	90.00	359.75	11,533.0	10,588.2	34.8	10,588.2	0.00	0.00	0.00
23,800.0	90.00	359.75	11,533.0	10,688.2	34.3	10,688.2	0.00	0.00	0.00
23,900.0	90.00	359.75	11,533.0	10,788.2	33.9	10,788.2	0.00	0.00	0.00
24,000.0	90.00	359.75	11,533.0	10,888.2	33.5	10,888.2	0.00	0.00	0.00
24,100.0	90.00	359.75	11,533.0	10,988.2	33.0	10,988.2	0.00	0.00	0.00
24,200.0	90.00	359.75	11,533.0	11,088.2	32.6	11,088.2	0.00	0.00	0.00
24,300.0	90.00	359.75	11,533.0	11,188.2	32.2	11,188.2	0.00	0.00	0.00
24,363.9	90.00	359.75	11,533.0	11,252.1	31.9	11,252.1	0.00	0.00	0.00
PLU 20-8 BD 126H LTP									
24,400.0	90.00	359.75	11,533.0	11,288.2	31.7	11,288.2	0.00	0.00	0.00
24,500.0	90.00	359.75	11,533.0	11,388.2	31.3	11,388.2	0.00	0.00	0.00
24,600.0	90.00	359.75	11,533.0	11,488.2	30.9	11,488.2	0.00	0.00	0.00
24,643.9	90.00	359.75	11,533.0	11,532.1	30.7	11,532.1	0.00	0.00	0.00
PLU 20-8 BD 126H BHL									

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	8,000.0	-1,517.0	75.0	403,548.80	633,937.10	32° 6' 31.439 N	103° 54' 2.741 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	10,937.9	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H KOP - plan misses target center by 0.8usft at 11160.8usft MD (10960.0 TVD, -1617.3 N, -25.7 E) - Point	0.00	0.00	10,960.0	-1,617.0	-25.0	403,448.80	633,837.10	32° 6' 30.453 N	103° 54' 3.908 W
PLU 20-8 BD 126H ST0 - plan hits target center - Point	0.00	0.00	11,532.9	-1,048.9	47.9	404,016.91	633,910.04	32° 6' 36.073 N	103° 54' 3.034 W
PLU 20-8 BD 126H FTP - plan misses target center by 256.5usft at 11615.9usft MD (11368.6 TVD, -1446.4 N, -10.3 E) - Point	0.00	0.00	11,533.0	-1,617.0	88.0	403,448.80	633,950.10	32° 6' 30.449 N	103° 54' 2.594 W
PLU 20-8 BD 126H LTP - plan hits target center - Point	0.00	0.00	11,533.0	11,252.1	31.9	416,317.90	633,894.00	32° 8' 37.807 N	103° 54' 2.646 W
PLU 20-8 BD 126H BHL - plan misses target center by 1.1usft at 24643.9usft MD (11533.0 TVD, 11532.1 N, 30.7 E) - Point	0.00	0.00	11,533.0	11,532.1	31.8	416,597.90	633,893.90	32° 8' 40.578 N	103° 54' 2.634 W

ExxonMobil
Planning Report

Database:	LMRKPROD3	**Local Co-ordinate Reference:**	Well PLU 20-8 BD - 126H
Company:	ROC	**TVD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Project:	HP463, 502, 532, 552, X20, X34 - Eddy(NAD27 NM)	**MD Reference:**	RKB 25.5 @ 3224.5usft (HP463)
Site:	(HP463) PLU 20-8 Brushy Draw Pad D - Plans	**North Reference:**	Grid
Well:	PLU 20-8 BD - 126H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
841.6	841.5	Rustler			
1,083.6	1,083.5	Top Salt			
3,558.3	3,475.5	Base Salt			
3,768.1	3,675.5	Delaware			
4,741.4	4,604.5	Cherry Canyon			
6,318.3	6,137.5	Brushy Canyon			
7,501.0	7,308.5	Basal Brushy Canyon			
7,682.8	7,488.5	Bone Spring			
7,692.9	7,498.5	Bone Spring Lime Fm			
7,845.5	7,649.5	Avalon Shale			
8,215.9	8,018.5	Avalon Lime			
8,256.0	8,058.5	Lower Avalon Shale			
8,423.2	8,225.5	1st Bone Spring Lime			
8,625.4	8,427.5	1st Bone Spring Ss			
8,997.8	8,799.5	2nd Bone Spring Lime			
9,536.4	9,337.5	2nd Bone Spring Ss			
9,541.5	9,342.5	2nd Bone Spring A Sand			
9,620.5	9,421.5	2nd Bone Spring T/B Carb			
9,697.6	9,498.5	2nd Bone Spring C Sand			
9,766.7	9,567.5	3rd Bone Spring Lm			
10,180.2	9,980.5	3rd Bone Spring Sh			
10,396.4	10,196.5	3rd Bone Spring Sh Base			
10,602.7	10,402.5	3rd Bone Spring Ss			
10,853.0	10,652.5	Red Hills SS			
10,939.1	10,738.5	Wolfcamp			
10,966.1	10,765.5	Wolfcamp X			
11,053.2	10,852.5	Wolfcamp Y			
11,078.2	10,877.5	Wolfcamp A			
11,255.8	11,054.5	Wolfcamp A Lower			
11,535.6	11,308.5	Wolfcamp B			
11,814.0	11,480.5	Wolfcamp C			
12,039.4	11,532.5	TD			
12,039.4	11,532.5	Landing Point			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 323968

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 323968
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	This work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	8/2/2024