Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-55955

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

22. Approximate date work will start*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature

Name *(Printed/Typed)*

Date

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

Application approval 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.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

Approval Date: 12/19/2024

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Approval Date: 12/19/2024

Additional Operator Remarks

Location of Well

0. SHL: SESE / 645 FSL / 517 FEL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.212413 / LONG: -103.844633 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1017 FEL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210363 / LONG: -103.846259 (TVD: 10595 feet, MD: 11200 feet)

PPP: NENE / 0 FSL / 992 FEL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196144 / LONG: -103.846235 (TVD: 10595 feet, MD: 16500 feet)

BHL: SENE / 2627 FNL / 1003 FEL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174401 / LONG: -103.846197 (TVD: 10595 feet, MD: 23496 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

C-102 Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-55955	97798	WILDCAT G-06 S243026M; BONE SPRING
Property Code	**Property Name**	**Well Number**
325598	POKER LAKE UNIT 23 DTD	545H
OGRID No.	**Operator Name**	**Ground Level Elevation**
373075	XTO PERMIAN OPERATING, LLC	3,443'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	14	24S	30E		645 FSL	517 FEL	32.212413	-103.844633	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	35	24S	30E		2,627 FNL	1,003 FEL	32.174401	-103.846197	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
800.00	INFILL		Y	U

Order Numbers. | Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	14	24S	30E		645 FSL	517 FEL	32.212413	-103.844633	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	23	24S	30E		100 FNL	1,017 FEL	32.210363	-103.846259	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	35	24S	30E		2,537 FNL	1,004 FEL	32.174649	-103.846199	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM105422429		3,443'

OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Terra Sebastian — 10/29/2024
Signature — Date

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — 10/28/2024
Certificate Number — Date of Survey

DN 618.013003.09-71

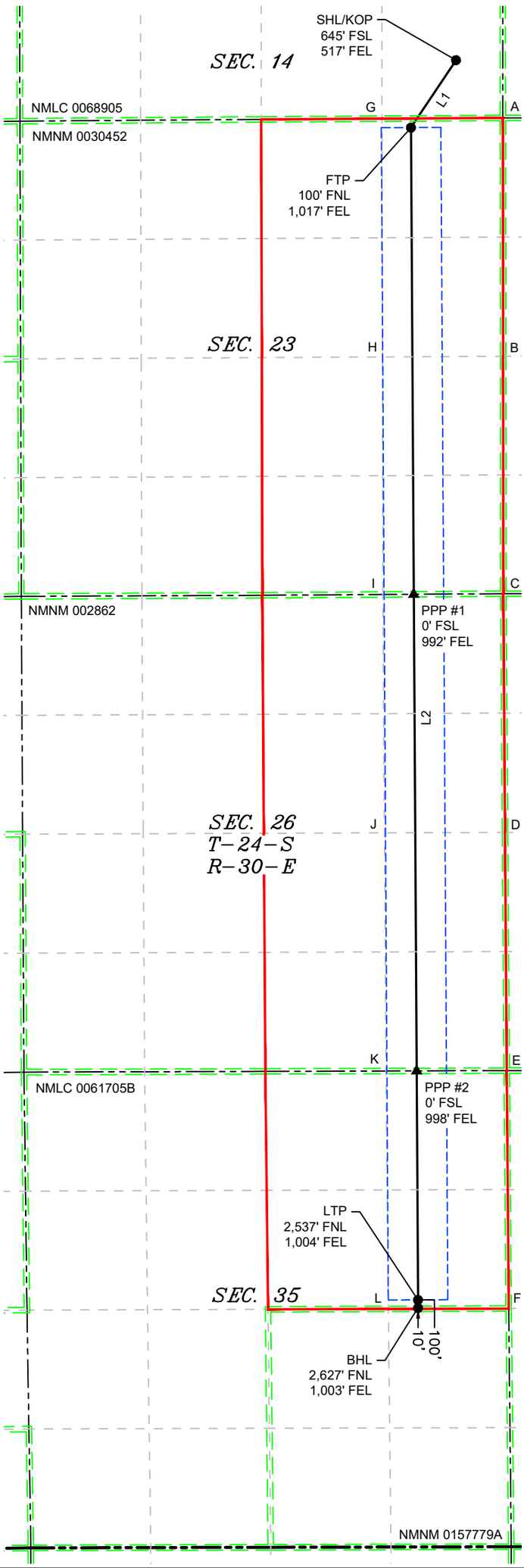
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\09 - PLU 23 DTD - EDDY\Wells\-71 - PLU 23 DTD - 545H\DWG\545H C-102.dwg

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LEGEND

- SECTION LINE
- PROPOSED WELL BORE
- NEW MEXICO MINERAL LEASE
- 330' BUFFER
- ALLOCATION AREA

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	213°43'53"	899.32'
L2	179°39'23"	13,082.43'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			**SHL/KOP (NAD 27 NME)**		
Y =	441,353.4	N	Y =	441,294.4	N
X =	692,479.3	E	X =	651,295.5	E
LAT. =	32.212413	°N	LAT. =	32.212289	°N
LONG. =	103.844633	°W	LONG. =	103.844147	°W
FTP (NAD 83 NME)			**FTP (NAD 27 NME)**		
Y =	440,605.5	N	Y =	440,546.5	N
X =	691,979.9	E	X =	650,796.1	E
LAT. =	32.210363	°N	LAT. =	32.210239	°N
LONG. =	103.846259	°W	LONG. =	103.845773	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	435,432.7	N	Y =	435,373.8	N
X =	692,010.6	E	X =	650,826.7	E
LAT. =	32.196144	°N	LAT. =	32.196020	°N
LONG. =	103.846235	°W	LONG. =	103.845750	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	430,150.9	N	Y =	430,092.1	N
X =	692,042.0	E	X =	650,857.8	E
LAT. =	32.181624	°N	LAT. =	32.181500	°N
LONG. =	103.846211	°W	LONG. =	103.845726	°W
LTP (NAD 83 NME)			**LTP (NAD 27 NME)**		
Y =	427,613.3	N	Y =	427,554.6	N
X =	692,057.1	E	X =	650,872.8	E
LAT. =	32.174649	°N	LAT. =	32.174525	°N
LONG. =	103.846199	°W	LONG. =	103.845715	°W
BHL (NAD 83 NME)			**BHL (NAD 27 NME)**		
Y =	427,523.3	N	Y =	427,464.6	N
X =	692,058.3	E	X =	650,874.1	E
LAT. =	32.174401	°N	LAT. =	32.174277	°N
LONG. =	103.846197	°W	LONG. =	103.845712	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,711.4	N	A - X =	692,997.1	E
B - Y =	438,070.5	N	B - X =	693,001.3	E
C - Y =	435,439.4	N	C - X =	693,002.2	E
D - Y =	432,784.0	N	D - X =	690,347.4	E
E - Y =	430,154.0	N	E - X =	693,039.8	E
F - Y =	427,516.4	N	F - X =	693,061.9	E
G - Y =	440,703.6	N	G - X =	691,657.9	E
H - Y =	438,063.2	N	H - X =	691,663.1	E
I - Y =	435,430.3	N	I - X =	691,666.7	E
J - Y =	432,788.9	N	J - X =	691,684.1	E
K - Y =	430,149.6	N	K - X =	691,701.7	E
L - Y =	427,512.3	N	L - X =	691,727.9	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,652.4	N	A - X =	651,813.3	E
B - Y =	438,011.6	N	B - X =	651,817.4	E
C - Y =	435,380.5	N	C - X =	651,818.3	E
D - Y =	432,725.2	N	D - X =	649,163.4	E
E - Y =	430,095.2	N	E - X =	651,855.6	E
F - Y =	427,457.7	N	F - X =	651,877.6	E
G - Y =	440,644.6	N	G - X =	650,474.1	E
H - Y =	438,004.2	N	H - X =	650,479.3	E
I - Y =	435,371.5	N	I - X =	650,482.8	E
J - Y =	432,730.1	N	J - X =	650,500.1	E
K - Y =	430,090.8	N	K - X =	650,517.5	E
L - Y =	427,453.6	N	L - X =	650,543.6	E

DN 618.013003.09-71

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC **OGRID:** 373075 **Date:** 10/21/2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated Decline oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Poker Lake Unit 23 DTD 104H	TBD	14 T24S R30E	556 FSL 310 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 193H	TBD	14 T24S R30E	556 FSL 280 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 441H	TBD	23 T24S R30E	1152 FNL 1771 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 442H	TBD	23 T24S R30E	1152 FNL 1741 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 443H	TBD	23 T24S R30E	1152 FNL 1711 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 444H	TBD	23 T24S R30E	1152 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 445H	TBD	23 T24S R30E	1152 FNL 1651 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 451H	TBD	23 T24S R30E	1247 FNL 1771 FEL	1,900	200	3,250	900	3,750	400

Poker Lake Unit 23 DTD 452H	TBD	23 T24S R30E	1247 FNL 1741 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 453H	TBD	23 T24S R30E	1247 FNL 1711 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 454H	TBD	23 T24S R30E	1247 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 455H	TBD	23 T24S R30E	1247 FNL 1651 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 456H	TBD	23 T24S R30E	1247 FNL 1621 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 541H	TBD	14 T24S R30E	645 FSL 637 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 542H	TBD	14 T24S R30E	645 FSL 607 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 543H	TBD	14 T24S R30E	645 FSL 577 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 544H	TBD	14 T24S R30E	645 FSL 547 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 545H	TBD	14 T24S R30E	645 FSL 517 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 546H	TBD	14 T24S R30E	645 FSL 487 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 705H	TBD	14 T24S R30E	556 FSL 340 FWL	1,800	200	7,500	1,200	7,000	800

IV. Central Delivery Point Name: Poker Lake Unit 23 DTD CVB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 23 DTD 104H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 193H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 441H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 442H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 443H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 444H	TBD	TBD	TBD	TBD	TBD	TBD

Poker Lake Unit 23 DTD 445H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 451H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 452H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 453H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 454H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 455H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 456H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 541H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 542H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 543H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 544H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 545H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 546H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 705H	TBD	TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

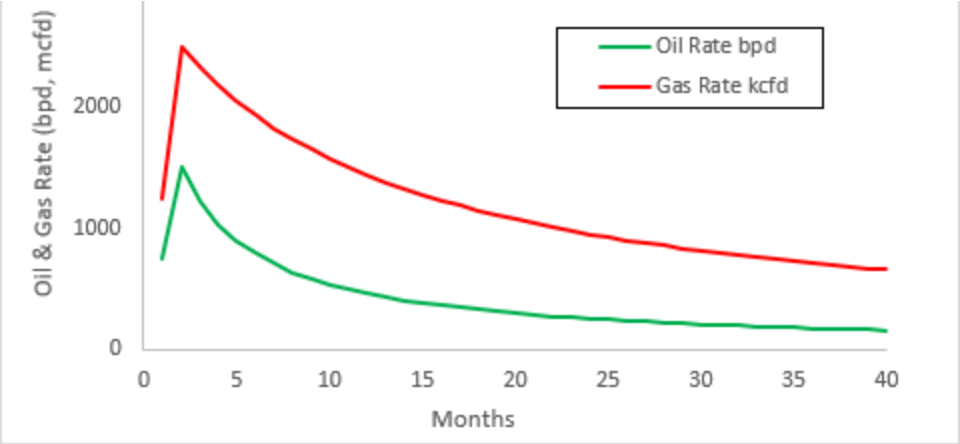
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Srinivas Naveen
Printed Name: Srinivas Naveen Laghuvarapu
Title: Regulatory Analyst
E-mail Address: Srinivas.n.laghuvarapu@exxonmobil.com
Date: 10/21/2024
Phone: +91-7780442850

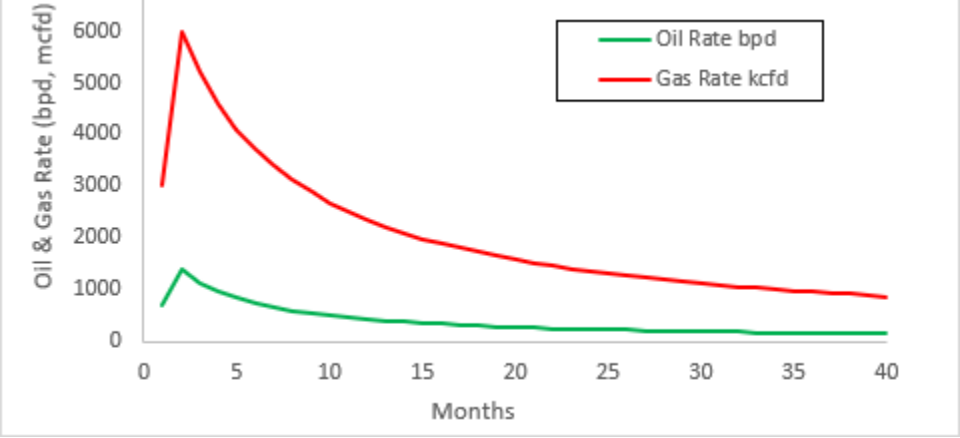
OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Poker Lake Unit – Decline Curves:

Bone Spring:



Wolfcamp:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.

- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.

- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

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

Drilling Plan Data Report
12/20/2024

APD ID: 10400098063
Submission Date: 04/18/2024
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 23 DTD
Well Number: 545H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14719625	QUATERNARY	3443	0	0	ALLUVIUM	USEABLE WATER	N
14719626	RUSTLER	2090	1353	1353	ANHYDRITE	USEABLE WATER	N
14719627	SALADO	1687	1756	1756	SALT	POTASH	N
14719628	BASE OF SALT	-506	3949	3949	SALT	POTASH	N
14719629	DELAWARE	-700	4143	4143	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14719630	BRUSHY CANYON	-3206	6649	6649	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14719631	BONE SPRING	-4495	7938	7938	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14719632	BONE SPRING 1ST	-5266	8709	8709	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14719633	BONE SPRING 2ND	-5868	9311	9311	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14719634	BONE SPRING 3RD	-7002	10445	10445	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 10595

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 5M Double Ram BOP. XTO will use a 4 string Slim Hole Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose: See Attached. XTO requests a variance to be able batch drill this well if necessary. XTO request a break test variance: See Attached. XTO requests a variance to utilize a spudder rig: See Attached.
Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172

Choke Diagram Attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

PLU_23_DTD_5MCM_20240410151726.pdf

BOP Diagram Attachment:

5MBOP_20240928093506.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1731	0	1731	3443	1712	1731	J-55	54.5	BUTT	1.49	2.85	DRY	9.64	DRY	9.64
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4049	0	4049	3446	-606	4049	J-55	40	BUTT	2.81	1.72	DRY	3.89	DRY	3.89
3	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9679	0	9552	3446	-6109	9679	L-80	29.7	FJ	3.52	2.09	DRY	2.47	DRY	2.47
4	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	23496	0	10595	3446	-7152	23496	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.98	1.05	DRY	5.45	DRY	5.45

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_545H_Csg_20241011111305.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_545H_Csg_20241011111222.pdf

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_23_DTD_545H_Csg_20241011111247.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_545H_Csg_20241011111251.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Freedom_semi_premium_5.5_production_casing_20240928093647.pdf
Talon___semiflush_5.5_production_casing_20240928093702.pdf

Tapered String Spec:

PLU_23_DTD_545H_Csg_20241011111230.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_545H_Csg_20241011111235.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1731	1490	1.33	12.8	1981.7	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1731	310	1.33	14.8	412.3	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	4049	850	2.06	14.8	1751	100	Class C	NA
INTERMEDIATE	Tail		0	4049	60	2.06	15.6	123.6	100	Class C	2% CaCl
INTERMEDIATE	Lead		3749	6649	320	1.27	14.8	406.4	100	Class C	NA
INTERMEDIATE	Tail		6649	9679	130	2.77	14.8	360.1	100	Class C	NA
PRODUCTION	Lead		9379	10005	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10005	23496	850	1.51	13.2	1283.5	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Circulating Medium Table

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9679	23496	OIL-BASED MUD	10.2	10.7							
4049	9679	OTHER : BDE/OBM	8.8	9.3							
0	1731	WATER-BASED MUD	8.4	8.9							
1731	4049	SALT SATURATED	10.5	11							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging will not be done on this well.

List of open and cased hole logs run in the well:

GAMMA RAY LOG,CEMENT BOND LOG,DIRECTIONAL SURVEY,MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5895 **Anticipated Surface Pressure:** 3564

Anticipated Bottom Hole Temperature(F): 190

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240928093228.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_545H_DD_20240414192906.pdf

Other proposed operations facets description:

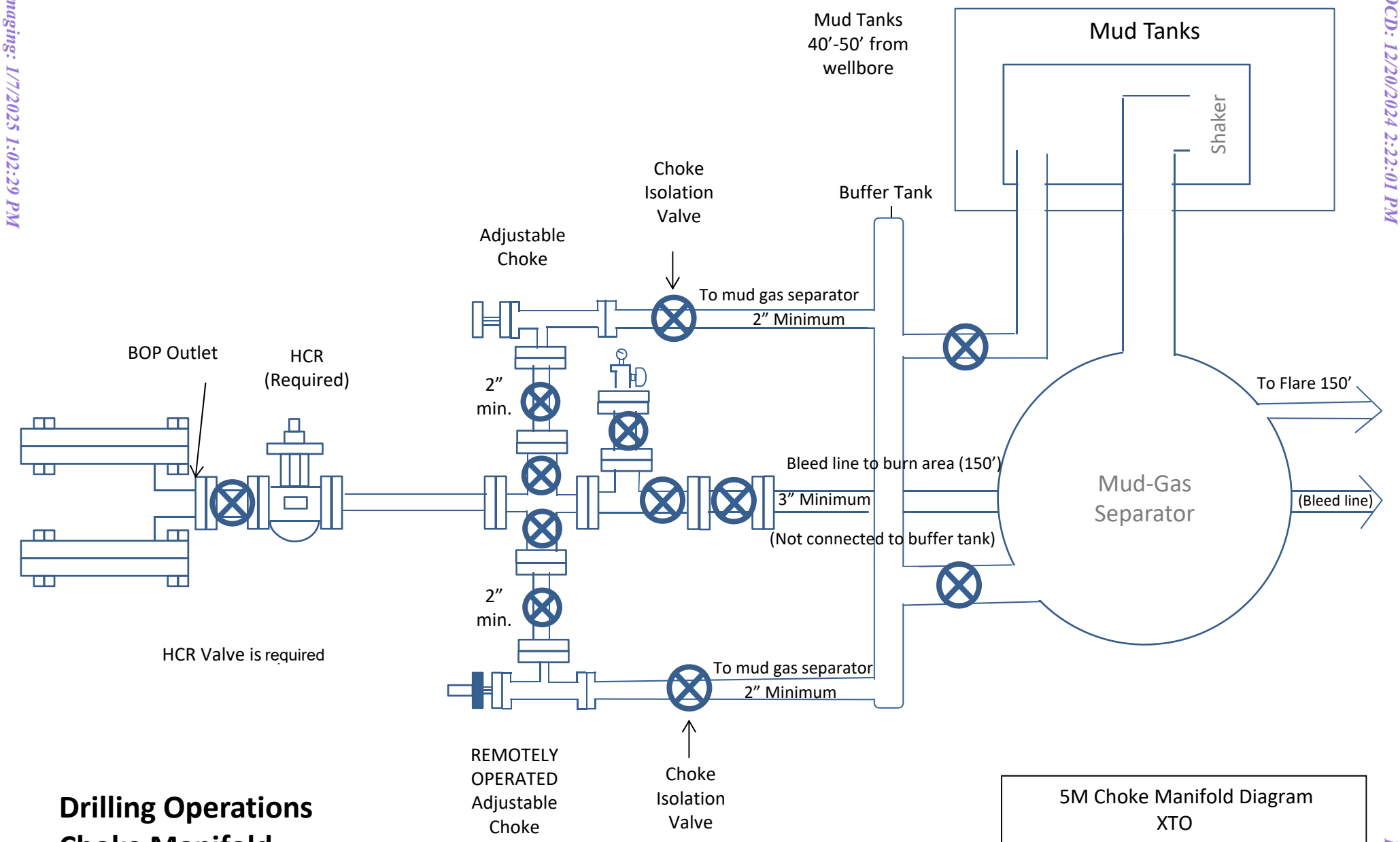
Other proposed operations facets attachment:

PLU_23_DTD_545H_Cmt_20240414193149.pdf
13.375_9.625_7.625_5.5_4_String_Slimhole_SDT_3301_1_20240928094314.pdf
PLU_23_DTD_H2S_DiaD_20241011121744.pdf
PLU_23_DTD_H2S_DiaA_20241011121744.pdf
PLU_23_DTD_H2S_DiaC_20241011121744.pdf
23_DTD___GCP_20241101093841.pdf

Other Variance attachment:

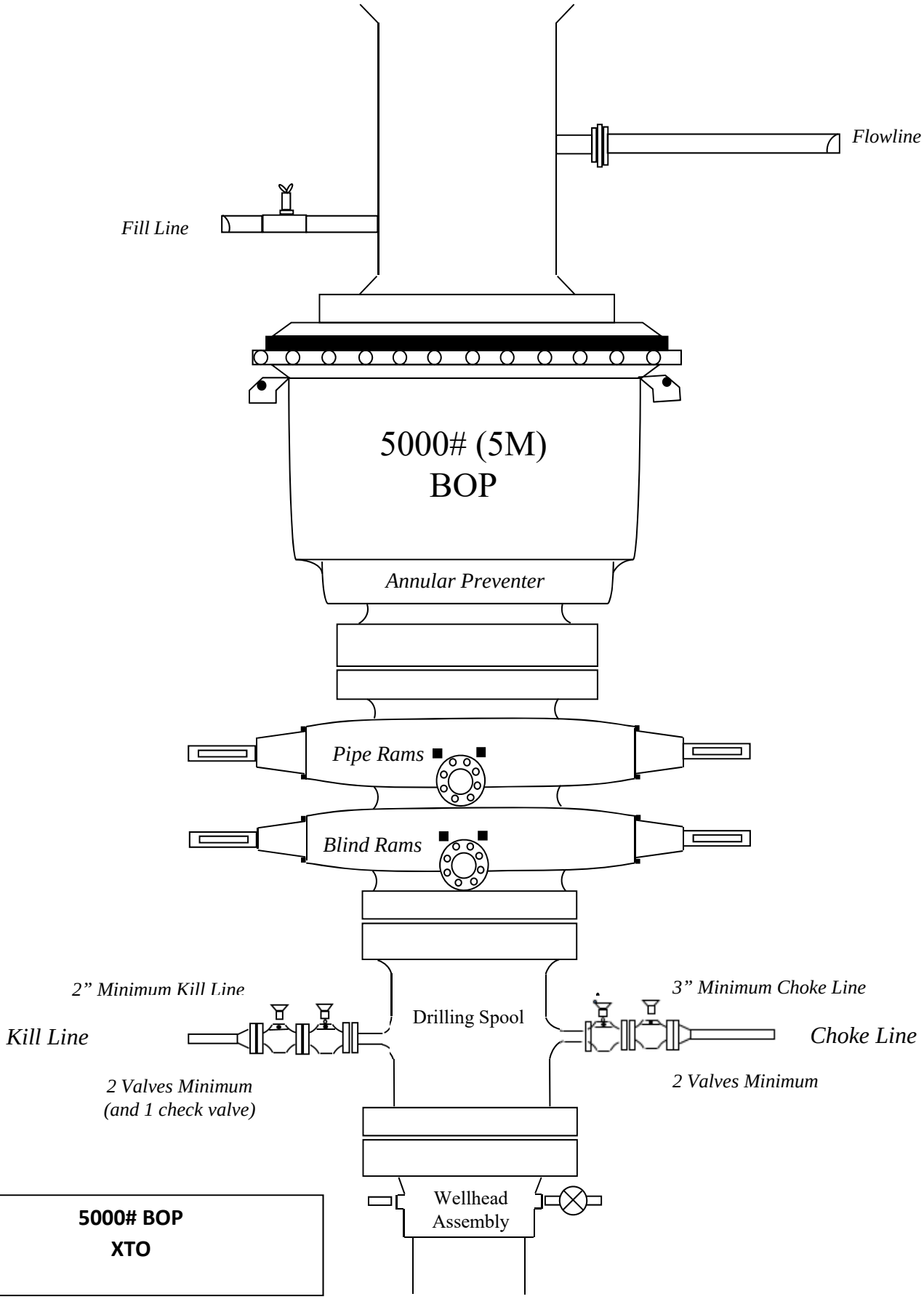
Updated_Flex_Hose_20240928094338.pdf
Spudder_Rig_Request_20240928094351.pdf
Offline_Cement_Variance_Surf___Interm_Csg_20240928094406.pdf
BOP_Break_Test_Variance_20241001140624.pdf

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
3" Minimum Choke Line
Kill Line
Drilling Spool
Choke Line
2 Valves Minimum
(and 1 check valve)
2 Valves Minimum
Wellhead
Assembly

5000# BOP
XTO

U. S. Steel Tubular Products

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5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length [4]	--	21,370	ft	--
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	--
MAKE-UP DATA	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Make-Up Loss	--	4.13	in.	--
Minimum Make-Up Torque [3]	--	15,000	ft-lb	--
Maximum Make-Up Torque [3]	--	21,000	ft-lb	--
Maximum Operating Torque[3]	--	29,500	ft-lb	--

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1731'	13.375	54.5	J-55	BTC	New	2.85	1.49	9.64
12.25	0' – 4049'	9.625	40	J-55	BTC	New	1.72	2.81	3.89
8.75	0' – 4149'	7.625	29.7	RY P-110	Flush Joint	New	2.88	2.82	1.94
8.75	4149' – 9679'	7.625	29.7	HC L-80	Flush Joint	New	2.09	3.52	2.47
6.75	0' – 9579'	5.5	20	RY P-110	Freedom HTQ	New	1.05	2.18	2.07
6.75	9579' - 23496'	5.5	20	RY P-110	Talon HTQ	New	1.05	1.98	5.45

Well Plan Report - Poker Lake Unit 23 DTD South 545H

Measured Depth:	23495.99 ft
TVD RKB:	10595.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	441294.40 ft
Easting:	651295.50 ft
RKB:	3475.00 ft
Ground Level:	3443.00 ft
North Reference:	Grid
Convergence Angle:	0.26 Deg

Plan Sections Poker Lake Unit 23 DTD South 545H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
4889.25	17.78	213.73	4875.04	-113.86	-76.03	2.00	0.00	2.00	
6937.04	17.78	213.73	6824.96	-634.04	-423.37	0.00	0.00	0.00	
7826.29	0.00	0.00	7700.00	-747.90	-499.40	-2.00	0.00	2.00	
10005.09	0.00	0.00	9878.80	-747.90	-499.40	0.00	0.00	0.00	
11130.09	90.00	179.66	10595.00	-1464.08	-495.18	8.00	0.00	8.00	
23406.00	90.00	179.66	10595.00	-13739.78	-422.76	0.00	0.00	0.00	LTP 22
23495.99	90.00	179.66	10595.00	-13829.77	-422.23	0.00	0.00	0.00	BHL 22

Position Uncertainty Poker Lake Unit 23 DTD South 545H

Measured Depth	Inclination	Azimuth	TVD RKB	Highside Error	Highside Bias	Lateral Error	Lateral Bias	Vertical Error	Vertical Bias	Magnitude of Bias	Semi-major Error	Semi-minor Error	Semi-minor Azimuth	Tool Used

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.717	0.538	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.326	0.000	0.000	1.075	0.896	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.375	0.000	0.000	1.792	1.613	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.407	0.000	0.000	2.151	1.972	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.445	0.000	0.000	2.509	2.330	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.487	0.000	0.000	2.868	2.689	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.533	0.000	0.000	3.226	3.047	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.583	0.000	0.000	3.585	3.405	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.636	0.000	0.000	3.943	3.764	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1200.000	0.000	0.000	1200.000	4.302	0.000	4.122	0.000	2.693	0.000	0.000	4.302	4.122	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1300.000	0.000	0.000	1300.000	4.660	0.000	4.481	0.000	2.753	0.000	0.000	4.660	4.481	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1400.000	0.000	0.000	1400.000	5.019	0.000	4.839	0.000	2.816	0.000	0.000	5.019	4.839	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1500.000	0.000	0.000	1500.000	5.377	0.000	5.198	0.000	2.881	0.000	0.000	5.377	5.198	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1600.000	0.000	0.000	1600.000	5.736	0.000	5.556	0.000	2.949	0.000	0.000	5.736	5.556	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1700.000	0.000	0.000	1700.000	6.094	0.000	5.915	0.000	3.018	0.000	0.000	6.094	5.915	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1800.000	0.000	0.000	1800.000	6.452	0.000	6.273	0.000	3.090	0.000	0.000	6.452	6.273	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1900.000	0.000	0.000	1900.000	6.811	0.000	6.632	0.000	3.164	0.000	0.000	6.811	6.632	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2000.000	0.000	0.000	2000.000	7.169	0.000	6.990	0.000	3.239	0.000	0.000	7.169	6.990	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2100.000	0.000	0.000	2100.000	7.528	0.000	7.349	0.000	3.317	0.000	0.000	7.528	7.349	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2200.000	0.000	0.000	2200.000	7.886	0.000	7.707	0.000	3.395	0.000	0.000	7.886	7.707	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2300.000	0.000	0.000	2300.000	8.245	0.000	8.066	0.000	3.476	0.000	0.000	8.245	8.066	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2400.000	0.000	0.000	2400.000	8.603	0.000	8.424	0.000	3.557	0.000	0.000	8.603	8.424	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2500.000	0.000	0.000	2500.000	8.962	0.000	8.783	0.000	3.640	0.000	0.000	8.962	8.783	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2600.000	0.000	0.000	2600.000	9.320	0.000	9.141	0.000	3.725	0.000	0.000	9.320	9.141	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2700.000	0.000	0.000	2700.000	9.679	0.000	9.499	0.000	3.811	0.000	0.000	9.679	9.499	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2800.000	0.000	0.000	2800.000	10.037	0.000	9.858	0.000	3.898	0.000	0.000	10.037	9.858	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2900.000	0.000	0.000	2900.000	10.396	0.000	10.216	0.000	3.986	0.000	0.000	10.396	10.216	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3000.000	0.000	0.000	3000.000	10.754	0.000	10.575	0.000	4.076	0.000	0.000	10.754	10.575	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3100.000	0.000	0.000	3100.000	11.113	0.000	10.933	0.000	4.167	0.000	0.000	11.113	10.933	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3200.000	0.000	0.000	3200.000	11.471	0.000	11.292	0.000	4.259	0.000	0.000	11.471	11.292	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3300.000	0.000	0.000	3300.000	11.830	0.000	11.650	0.000	4.352	0.000	0.000	11.830	11.650	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

3400.000	0.000	0.000	3400.000	12.188	0.000	12.009	0.000	4.447	0.000	0.000	12.188	12.009	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3500.000	0.000	0.000	3500.000	12.547	0.000	12.367	0.000	4.543	0.000	0.000	12.547	12.367	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3600.000	0.000	0.000	3600.000	12.905	0.000	12.726	0.000	4.641	0.000	0.000	12.905	12.726	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3700.000	0.000	0.000	3700.000	13.263	0.000	13.084	0.000	4.740	0.000	0.000	13.263	13.084	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3800.000	0.000	0.000	3800.000	13.622	0.000	13.443	0.000	4.840	0.000	0.000	13.622	13.443	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3900.000	0.000	0.000	3900.000	13.980	0.000	13.801	0.000	4.941	0.000	0.000	13.980	13.801	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4000.000	0.000	0.000	4000.000	14.339	0.000	14.160	0.000	5.045	0.000	0.000	14.339	14.160	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4100.000	2.000	213.732	4099.980	14.618	-0.000	14.556	0.000	5.149	0.000	0.000	14.681	14.501	89.984	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4200.000	4.000	213.732	4199.838	14.919	-0.000	14.881	0.000	5.254	0.000	0.000	15.007	14.825	89.951	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4300.000	6.000	213.732	4299.452	15.205	-0.000	15.207	0.000	5.359	0.000	0.000	15.335	15.149	89.810	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4400.000	8.000	213.732	4398.702	15.475	-0.000	15.533	0.000	5.464	0.000	0.000	15.663	15.472	89.483	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4500.000	10.000	213.732	4497.465	15.728	-0.000	15.859	0.000	5.570	0.000	0.000	15.990	15.795	88.896	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4600.000	12.000	213.732	4595.623	15.963	-0.000	16.186	0.000	5.678	0.000	0.000	16.318	16.117	87.976	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4700.000	14.000	213.732	4693.055	16.181	-0.000	16.513	0.000	5.786	0.000	0.000	16.644	16.438	86.652	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4800.000	16.000	213.732	4789.643	16.380	-0.000	16.842	0.000	5.896	0.000	0.000	16.969	16.758	84.850	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4889.249	17.785	213.732	4875.037	16.542	-0.000	17.135	0.000	5.996	0.000	0.000	17.258	17.043	82.817	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4900.000	17.785	213.732	4885.275	16.577	-0.000	17.171	0.000	6.005	0.000	0.000	17.293	17.077	82.696	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5000.000	17.785	213.732	4980.496	16.901	-0.000	17.503	0.000	6.129	0.000	0.000	17.617	17.395	79.665	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5100.000	17.785	213.732	5075.717	17.227	-0.000	17.838	0.000	6.256	0.000	0.000	17.945	17.714	76.615	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5200.000	17.785	213.732	5170.938	17.554	-0.000	18.177	0.000	6.386	0.000	0.000	18.275	18.035	73.599	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5300.000	17.785	213.732	5266.158	17.884	-0.000	18.519	0.000	6.519	0.000	0.000	18.609	18.357	70.668	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5400.000	17.785	213.732	5361.379	18.215	-0.000	18.863	0.000	6.655	0.000	0.000	18.947	18.680	67.867	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5500.000	17.785	213.732	5456.600	18.547	-0.000	19.211	0.000	6.794	0.000	0.000	19.288	19.004	65.230	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5600.000	17.785	213.732	5551.821	18.881	-0.000	19.561	0.000	6.936	0.000	0.000	19.631	19.329	62.778	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5700.000	17.785	213.732	5647.042	19.216	-0.000	19.913	0.000	7.081	0.000	0.000	19.978	19.654	60.519	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5800.000	17.785	213.732	5742.263	19.553	-0.000	20.268	0.000	7.229	0.000	0.000	20.328	19.981	58.453	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5900.000	17.785	213.732	5837.484	19.891	-0.000	20.624	0.000	7.379	0.000	0.000	20.680	20.308	56.572	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6000.000	17.785	213.732	5932.705	20.229	-0.000	20.983	0.000	7.533	0.000	0.000	21.035	20.635	54.866	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6100.000	17.785	213.732	6027.926	20.569	-0.000	21.344	0.000	7.689	0.000	0.000	21.392	20.964	53.319	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6200.000	17.785	213.732	6123.147	20.910	-0.000	21.707	0.000	7.847	0.000	0.000	21.751	21.293	51.917	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6300.000	17.785	213.732	6218.368	21.252	-0.000	22.072	0.000	8.009	0.000	0.000	22.113	21.623	50.645	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6400.000	17.785	213.732	6313.589	21.595	-0.000	22.438	0.000	8.172	0.000	0.000	22.476	21.953	49.490	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6500.000	17.785	213.732	6408.810	21.939	-0.000	22.806	0.000	8.339	0.000	0.000	22.841	22.284	48.439	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6600.000	17.785	213.732	6504.031	22.284	-0.000	23.175	0.000	8.508	0.000	0.000	23.208	22.616	47.481	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6700.000	17.785	213.732	6599.252	22.629	-0.000	23.546	0.000	8.679	0.000	0.000	23.577	22.949	46.604	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

6800.000	17.785	213.732	6694.473	22.975	-0.000	23.919	0.000	8.854	0.000	0.000	23.947	23.282	45.801	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6900.000	17.785	213.732	6789.694	23.322	-0.000	24.292	0.000	9.030	0.000	0.000	24.319	23.616	45.063	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6937.039	17.785	213.732	6824.963	23.451	-0.000	24.431	0.000	9.096	0.000	0.000	24.457	23.740	44.809	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7000.000	16.526	213.732	6885.121	23.757	-0.000	24.666	0.000	9.211	0.000	0.000	24.691	23.951	44.398	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7100.000	14.526	213.732	6981.467	24.225	-0.000	25.039	0.000	9.394	0.000	0.000	25.063	24.289	43.836	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7200.000	12.526	213.732	7078.689	24.667	-0.000	25.410	0.000	9.577	0.000	0.000	25.432	24.630	43.377	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7300.000	10.526	213.732	7176.667	25.084	-0.000	25.777	0.000	9.760	0.000	0.000	25.798	24.975	43.001	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7400.000	8.526	213.732	7275.283	25.474	-0.000	26.141	0.000	9.941	0.000	0.000	26.162	25.321	42.693	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7500.000	6.526	213.732	7374.417	25.836	-0.000	26.502	0.000	10.121	0.000	0.000	26.521	25.669	42.437	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7600.000	4.526	213.732	7473.947	26.171	-0.000	26.858	0.000	10.299	0.000	0.000	26.876	26.017	42.225	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7700.000	2.526	213.732	7573.753	26.476	-0.000	27.210	0.000	10.476	0.000	0.000	27.227	26.365	42.047	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7800.000	0.526	213.732	7673.712	26.751	-0.000	27.557	0.000	10.651	0.000	0.000	27.574	26.711	41.895	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7826.288	0.000	0.000	7700.000	27.189	0.000	27.282	0.000	10.697	0.000	0.000	27.663	26.801	41.907	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7900.000	0.000	0.000	7773.712	27.444	0.000	27.532	0.000	10.826	0.000	0.000	27.913	27.056	42.077	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8000.000	0.000	0.000	7873.712	27.791	0.000	27.871	0.000	11.004	0.000	0.000	28.253	27.402	42.306	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8100.000	0.000	0.000	7973.712	28.138	0.000	28.210	0.000	11.185	0.000	0.000	28.593	27.748	42.533	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8200.000	0.000	0.000	8073.712	28.484	0.000	28.550	0.000	11.368	0.000	0.000	28.933	28.095	42.758	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8300.000	0.000	0.000	8173.712	28.832	0.000	28.890	0.000	11.555	0.000	0.000	29.274	28.442	42.980	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8400.000	0.000	0.000	8273.712	29.179	0.000	29.231	0.000	11.744	0.000	0.000	29.616	28.789	43.200	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8500.000	0.000	0.000	8373.712	29.527	0.000	29.572	0.000	11.937	0.000	0.000	29.958	29.136	43.418	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8600.000	0.000	0.000	8473.712	29.875	0.000	29.914	0.000	12.132	0.000	0.000	30.300	29.484	43.634	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8700.000	0.000	0.000	8573.712	30.223	0.000	30.256	0.000	12.331	0.000	0.000	30.642	29.831	43.848	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8800.000	0.000	0.000	8673.712	30.572	0.000	30.598	0.000	12.532	0.000	0.000	30.985	30.179	44.059	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8900.000	0.000	0.000	8773.712	30.921	0.000	30.941	0.000	12.736	0.000	0.000	31.329	30.528	44.268	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9000.000	0.000	0.000	8873.712	31.270	0.000	31.284	0.000	12.944	0.000	0.000	31.673	30.876	44.475	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9100.000	0.000	0.000	8973.712	31.619	0.000	31.628	0.000	13.154	0.000	0.000	32.017	31.225	44.680	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9200.000	0.000	0.000	9073.712	31.968	0.000	31.971	0.000	13.368	0.000	0.000	32.361	31.573	44.883	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9300.000	0.000	0.000	9173.712	32.318	0.000	32.315	0.000	13.584	0.000	0.000	32.706	31.923	45.083	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9400.000	0.000	0.000	9273.712	32.667	0.000	32.660	0.000	13.804	0.000	0.000	33.051	32.272	45.282	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9500.000	0.000	0.000	9373.712	33.017	0.000	33.004	0.000	14.026	0.000	0.000	33.396	32.621	45.478	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9600.000	0.000	0.000	9473.712	33.367	0.000	33.349	0.000	14.252	0.000	0.000	33.742	32.971	45.673	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9700.000	0.000	0.000	9573.712	33.718	0.000	33.695	0.000	14.481	0.000	0.000	34.088	33.320	45.865	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9800.000	0.000	0.000	9673.712	34.068	0.000	34.040	0.000	14.712	0.000	0.000	34.434	33.670	46.055	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9900.000	0.000	0.000	9773.712	34.419	0.000	34.386	0.000	14.947	0.000	0.000	34.780	34.020	46.243	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10005.088	0.000	0.000	9878.800	34.788	0.000	34.750	0.000	15.197	0.000	0.000	35.144	34.389	46.439	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

10100.000	7.593	179.662	9973.434	35.129	0.000	35.074	-0.000	15.428	0.000	0.000	35.471	34.717	46.371	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10200.000	15.593	179.662	10071.315	34.936	0.000	35.421	-0.000	15.671	0.000	0.000	35.813	35.057	45.910	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10300.000	23.593	179.662	10165.448	34.196	0.000	35.767	-0.000	15.910	0.000	0.000	36.150	35.388	44.968	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10400.000	31.593	179.662	10254.002	32.932	0.000	36.106	-0.000	16.138	0.000	0.000	36.474	35.699	43.341	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10500.000	39.593	179.662	10335.253	31.191	0.000	36.435	-0.000	16.352	0.000	0.000	36.781	35.982	40.942	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10600.000	47.593	179.662	10407.620	29.043	0.000	36.750	-0.000	16.550	0.000	0.000	37.069	36.229	37.860	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10700.000	55.593	179.662	10469.694	26.589	0.000	37.046	-0.000	16.730	0.000	0.000	37.337	36.432	34.378	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10800.000	63.593	179.662	10520.267	23.971	0.000	37.321	-0.000	16.891	0.000	0.000	37.586	36.589	30.890	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10900.000	71.593	179.662	10558.355	21.394	0.000	37.571	-0.000	17.033	0.000	0.000	37.816	36.699	27.761	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11000.000	79.593	179.662	10583.215	19.140	0.000	37.793	-0.000	17.158	0.000	0.000	38.023	36.767	25.215	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11100.000	87.593	179.662	10594.365	17.575	0.000	37.983	-0.000	17.267	0.000	0.000	38.206	36.802	23.332	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11130.088	90.000	179.662	10594.997	17.297	0.000	38.033	-0.000	17.297	0.000	0.000	38.255	36.807	22.921	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11200.000	90.000	179.662	10594.997	17.367	0.000	38.148	-0.000	17.367	0.000	0.000	38.369	36.817	21.996	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11300.000	90.000	179.662	10594.997	17.477	0.000	38.326	-0.000	17.477	0.000	0.000	38.543	36.831	20.737	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11400.000	90.000	179.662	10594.997	17.598	0.000	38.516	-0.000	17.598	0.000	0.000	38.729	36.847	19.580	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11500.000	90.000	179.662	10594.997	17.730	0.000	38.716	-0.000	17.730	0.000	0.000	38.927	36.863	18.518	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11600.000	90.000	179.662	10594.997	17.873	0.000	38.929	-0.000	17.873	0.000	0.000	39.136	36.880	17.545	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11700.000	90.000	179.662	10594.997	18.026	0.000	39.152	-0.000	18.026	0.000	0.000	39.356	36.897	16.650	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11800.000	90.000	179.662	10594.997	18.189	0.000	39.386	-0.000	18.189	0.000	0.000	39.587	36.915	15.829	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11900.000	90.000	179.662	10594.997	18.362	0.000	39.632	-0.000	18.362	0.000	0.000	39.829	36.933	15.073	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12000.000	90.000	179.662	10594.997	18.544	0.000	39.887	-0.000	18.544	0.000	0.000	40.082	36.952	14.376	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12100.000	90.000	179.662	10594.997	18.736	0.000	40.153	-0.000	18.736	0.000	0.000	40.345	36.971	13.733	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12200.000	90.000	179.662	10594.997	18.937	0.000	40.430	-0.000	18.937	0.000	0.000	40.618	36.991	13.138	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12300.000	90.000	179.662	10594.997	19.146	0.000	40.716	-0.000	19.146	0.000	0.000	40.901	37.012	12.586	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12400.000	90.000	179.662	10594.997	19.364	0.000	41.012	-0.000	19.364	0.000	0.000	41.195	37.033	12.074	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12500.000	90.000	179.662	10594.997	19.589	0.000	41.317	-0.000	19.589	0.000	0.000	41.497	37.055	11.599	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12600.000	90.000	179.662	10594.997	19.823	0.000	41.632	-0.000	19.823	0.000	0.000	41.810	37.077	11.155	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12700.000	90.000	179.662	10594.997	20.064	0.000	41.956	-0.000	20.064	0.000	0.000	42.131	37.100	10.741	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12800.000	90.000	179.662	10594.997	20.313	0.000	42.289	-0.000	20.313	0.000	0.000	42.461	37.123	10.354	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12900.000	90.000	179.662	10594.997	20.568	0.000	42.630	-0.000	20.568	0.000	0.000	42.800	37.147	9.992	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13000.000	90.000	179.662	10594.997	20.831	0.000	42.980	-0.000	20.831	0.000	0.000	43.148	37.172	9.652	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13100.000	90.000	179.662	10594.997	21.099	0.000	43.339	-0.000	21.099	0.000	0.000	43.504	37.197	9.332	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13200.000	90.000	179.662	10594.997	21.375	0.000	43.705	-0.000	21.375	0.000	0.000	43.868	37.223	9.031	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13300.000	90.000	179.662	10594.997	21.656	0.000	44.079	-0.000	21.656	0.000	0.000	44.240	37.249	8.748	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13400.000	90.000	179.662	10594.997	21.943	0.000	44.461	-0.000	21.943	0.000	0.000	44.620	37.276	8.480	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

13500.000	90.000	179.662	10594.997	22.235	0.000	44.851	-0.000	22.235	0.000	0.000	45.007	37.304	8.227	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13600.000	90.000	179.662	10594.997	22.533	0.000	45.248	-0.000	22.533	0.000	0.000	45.402	37.332	7.988	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13700.000	90.000	179.662	10594.997	22.836	0.000	45.652	-0.000	22.836	0.000	0.000	45.804	37.360	7.761	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13800.000	90.000	179.662	10594.997	23.144	0.000	46.062	-0.000	23.144	0.000	0.000	46.213	37.390	7.546	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13900.000	90.000	179.662	10594.997	23.457	0.000	46.480	-0.000	23.457	0.000	0.000	46.628	37.420	7.341	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14000.000	90.000	179.662	10594.997	23.775	0.000	46.904	-0.000	23.775	0.000	0.000	47.051	37.450	7.147	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14100.000	90.000	179.662	10594.997	24.096	0.000	47.335	-0.000	24.096	0.000	0.000	47.479	37.481	6.962	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14200.000	90.000	179.662	10594.997	24.422	0.000	47.771	-0.000	24.422	0.000	0.000	47.914	37.513	6.785	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14300.000	90.000	179.662	10594.997	24.752	0.000	48.214	-0.000	24.752	0.000	0.000	48.355	37.545	6.617	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14400.000	90.000	179.662	10594.997	25.086	0.000	48.663	-0.000	25.086	0.000	0.000	48.802	37.578	6.456	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14500.000	90.000	179.662	10594.997	25.424	0.000	49.117	-0.000	25.424	0.000	0.000	49.254	37.611	6.302	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14600.000	90.000	179.662	10594.997	25.765	0.000	49.577	-0.000	25.765	0.000	0.000	49.712	37.645	6.155	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14700.000	90.000	179.662	10594.997	26.110	0.000	50.042	-0.000	26.110	0.000	0.000	50.176	37.680	6.014	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14800.000	90.000	179.662	10594.997	26.458	0.000	50.512	-0.000	26.458	0.000	0.000	50.645	37.715	5.879	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14900.000	90.000	179.662	10594.997	26.809	0.000	50.988	-0.000	26.809	0.000	0.000	51.119	37.751	5.749	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15000.000	90.000	179.662	10594.997	27.163	0.000	51.469	-0.000	27.163	0.000	0.000	51.598	37.787	5.625	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15100.000	90.000	179.662	10594.997	27.521	0.000	51.954	-0.000	27.521	0.000	0.000	52.082	37.824	5.506	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15200.000	90.000	179.662	10594.997	27.881	0.000	52.444	-0.000	27.881	0.000	0.000	52.570	37.862	5.391	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15300.000	90.000	179.662	10594.997	28.243	0.000	52.939	-0.000	28.243	0.000	0.000	53.064	37.900	5.280	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15400.000	90.000	179.662	10594.997	28.609	0.000	53.438	-0.000	28.609	0.000	0.000	53.561	37.939	5.174	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15500.000	90.000	179.662	10594.997	28.977	0.000	53.941	-0.000	28.977	0.000	0.000	54.063	37.978	5.071	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15600.000	90.000	179.662	10594.997	29.347	0.000	54.449	-0.000	29.347	0.000	0.000	54.569	38.018	4.972	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15700.000	90.000	179.662	10594.997	29.720	0.000	54.961	-0.000	29.720	0.000	0.000	55.080	38.059	4.877	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15800.000	90.000	179.662	10594.997	30.094	0.000	55.476	-0.000	30.094	0.000	0.000	55.594	38.100	4.785	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15900.000	90.000	179.662	10594.997	30.471	0.000	55.996	-0.000	30.471	0.000	0.000	56.112	38.141	4.696	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16000.000	90.000	179.662	10594.997	30.851	0.000	56.519	-0.000	30.851	0.000	0.000	56.634	38.184	4.610	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16100.000	90.000	179.662	10594.997	31.232	0.000	57.046	-0.000	31.232	0.000	0.000	57.160	38.226	4.527	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16200.000	90.000	179.662	10594.997	31.615	0.000	57.576	-0.000	31.615	0.000	0.000	57.689	38.270	4.446	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16300.000	90.000	179.662	10594.997	32.000	0.000	58.110	-0.000	32.000	0.000	0.000	58.222	38.314	4.369	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16400.000	90.000	179.662	10594.997	32.387	0.000	58.648	-0.000	32.387	0.000	0.000	58.758	38.358	4.293	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16500.000	90.000	179.662	10594.997	32.775	0.000	59.188	-0.000	32.775	0.000	0.000	59.297	38.404	4.220	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16600.000	90.000	179.662	10594.997	33.165	0.000	59.732	-0.000	33.165	0.000	0.000	59.839	38.449	4.149	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16700.000	90.000	179.662	10594.997	33.557	0.000	60.279	-0.000	33.557	0.000	0.000	60.385	38.496	4.081	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16800.000	90.000	179.662	10594.997	33.950	0.000	60.828	-0.000	33.950	0.000	0.000	60.934	38.542	4.014	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16900.000	90.000	179.662	10594.997	34.345	0.000	61.381	-0.000	34.345	0.000	0.000	61.485	38.590	3.950	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

17000.000	90.000	179.662	10594.997	34.741	0.000	61.937	-0.000	34.741	0.000	0.000	62.040	38.638	3.887	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17100.000	90.000	179.662	10594.997	35.139	0.000	62.495	-0.000	35.139	0.000	0.000	62.597	38.686	3.826	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17200.000	90.000	179.662	10594.997	35.538	0.000	63.056	-0.000	35.538	0.000	0.000	63.157	38.735	3.767	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17300.000	90.000	179.662	10594.997	35.939	0.000	63.620	-0.000	35.939	0.000	0.000	63.720	38.785	3.709	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17400.000	90.000	179.662	10594.997	36.340	0.000	64.186	-0.000	36.340	0.000	0.000	64.285	38.835	3.653	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17500.000	90.000	179.662	10594.997	36.743	0.000	64.755	-0.000	36.743	0.000	0.000	64.852	38.886	3.598	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17600.000	90.000	179.662	10594.997	37.147	0.000	65.326	-0.000	37.147	0.000	0.000	65.423	38.937	3.545	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17700.000	90.000	179.662	10594.997	37.552	0.000	65.899	-0.000	37.552	0.000	0.000	65.995	38.989	3.494	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17800.000	90.000	179.662	10594.997	37.959	0.000	66.475	-0.000	37.959	0.000	0.000	66.570	39.042	3.443	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17900.000	90.000	179.662	10594.997	38.366	0.000	67.053	-0.000	38.366	0.000	0.000	67.147	39.095	3.394	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18000.000	90.000	179.662	10594.997	38.775	0.000	67.633	-0.000	38.775	0.000	0.000	67.726	39.148	3.347	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18100.000	90.000	179.662	10594.997	39.184	0.000	68.215	-0.000	39.184	0.000	0.000	68.308	39.202	3.300	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18200.000	90.000	179.662	10594.997	39.595	0.000	68.800	-0.000	39.595	0.000	0.000	68.891	39.257	3.255	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18300.000	90.000	179.662	10594.997	40.006	0.000	69.386	-0.000	40.006	0.000	0.000	69.477	39.312	3.210	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18400.000	90.000	179.662	10594.997	40.418	0.000	69.975	-0.000	40.418	0.000	0.000	70.064	39.368	3.167	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18500.000	90.000	179.662	10594.997	40.832	0.000	70.565	-0.000	40.832	0.000	0.000	70.654	39.424	3.125	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18600.000	90.000	179.662	10594.997	41.246	0.000	71.157	-0.000	41.246	0.000	0.000	71.245	39.481	3.084	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18700.000	90.000	179.662	10594.997	41.661	0.000	71.751	-0.000	41.661	0.000	0.000	71.838	39.538	3.043	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18800.000	90.000	179.662	10594.997	42.076	0.000	72.347	-0.000	42.076	0.000	0.000	72.433	39.596	3.004	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18900.000	90.000	179.662	10594.997	42.493	0.000	72.945	-0.000	42.493	0.000	0.000	73.030	39.654	2.966	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19000.000	90.000	179.662	10594.997	42.910	0.000	73.544	-0.000	42.910	0.000	0.000	73.629	39.713	2.928	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19100.000	90.000	179.662	10594.997	43.328	0.000	74.145	-0.000	43.328	0.000	0.000	74.229	39.772	2.891	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19200.000	90.000	179.662	10594.997	43.747	0.000	74.747	-0.000	43.747	0.000	0.000	74.830	39.832	2.855	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19300.000	90.000	179.662	10594.997	44.166	0.000	75.351	-0.000	44.166	0.000	0.000	75.434	39.892	2.820	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19400.000	90.000	179.662	10594.997	44.587	0.000	75.957	-0.000	44.587	0.000	0.000	76.039	39.953	2.786	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19500.000	90.000	179.662	10594.997	45.007	0.000	76.564	-0.000	45.007	0.000	0.000	76.645	40.015	2.752	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19600.000	90.000	179.662	10594.997	45.429	0.000	77.173	-0.000	45.429	0.000	0.000	77.253	40.077	2.719	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19700.000	90.000	179.662	10594.997	45.851	0.000	77.783	-0.000	45.851	0.000	0.000	77.862	40.139	2.687	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19800.000	90.000	179.662	10594.997	46.274	0.000	78.394	-0.000	46.274	0.000	0.000	78.473	40.202	2.656	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19900.000	90.000	179.662	10594.997	46.697	0.000	79.007	-0.000	46.697	0.000	0.000	79.085	40.266	2.625	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20000.000	90.000	179.662	10594.997	47.121	0.000	79.621	-0.000	47.121	0.000	0.000	79.699	40.329	2.594	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20100.000	90.000	179.662	10594.997	47.545	0.000	80.236	-0.000	47.545	0.000	0.000	80.313	40.394	2.565	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20200.000	90.000	179.662	10594.997	47.970	0.000	80.853	-0.000	47.970	0.000	0.000	80.929	40.459	2.536	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20300.000	90.000	179.662	10594.997	48.396	0.000	81.471	-0.000	48.396	0.000	0.000	81.547	40.524	2.507	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20400.000	90.000	179.662	10594.997	48.822	0.000	82.090	-0.000	48.822	0.000	0.000	82.165	40.590	2.479	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

20500.000	90.000	179.662	10594.997	49.248	0.000	82.710	-0.000	49.248	0.000	0.000	82.785	40.657	2.452	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20600.000	90.000	179.662	10594.997	49.676	0.000	83.332	-0.000	49.676	0.000	0.000	83.406	40.724	2.425	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20700.000	90.000	179.662	10594.997	50.103	0.000	83.955	-0.000	50.103	0.000	0.000	84.028	40.791	2.398	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20800.000	90.000	179.662	10594.997	50.531	0.000	84.578	-0.000	50.531	0.000	0.000	84.651	40.859	2.373	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20900.000	90.000	179.662	10594.997	50.960	0.000	85.203	-0.000	50.960	0.000	0.000	85.275	40.927	2.347	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21000.000	90.000	179.662	10594.997	51.388	0.000	85.829	-0.000	51.388	0.000	0.000	85.901	40.996	2.322	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21100.000	90.000	179.662	10594.997	51.818	0.000	86.456	-0.000	51.818	0.000	0.000	86.527	41.065	2.298	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21200.000	90.000	179.662	10594.997	52.248	0.000	87.084	-0.000	52.248	0.000	0.000	87.154	41.135	2.274	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21300.000	90.000	179.662	10594.997	52.678	0.000	87.713	-0.000	52.678	0.000	0.000	87.783	41.205	2.250	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21400.000	90.000	179.662	10594.997	53.108	0.000	88.343	-0.000	53.108	0.000	0.000	88.412	41.276	2.227	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21500.000	90.000	179.662	10594.997	53.539	0.000	88.974	-0.000	53.539	0.000	0.000	89.043	41.347	2.204	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21600.000	90.000	179.662	10594.997	53.971	0.000	89.606	-0.000	53.971	0.000	0.000	89.674	41.419	2.182	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21700.000	90.000	179.662	10594.997	54.402	0.000	90.238	-0.000	54.402	0.000	0.000	90.306	41.491	2.160	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21800.000	90.000	179.662	10594.997	54.835	0.000	90.872	-0.000	54.835	0.000	0.000	90.939	41.564	2.138	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21900.000	90.000	179.662	10594.997	55.267	0.000	91.507	-0.000	55.267	0.000	0.000	91.573	41.637	2.117	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22000.000	90.000	179.662	10594.997	55.700	0.000	92.142	-0.000	55.700	0.000	0.000	92.208	41.710	2.096	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22100.000	90.000	179.662	10594.997	56.133	0.000	92.778	-0.000	56.133	0.000	0.000	92.844	41.784	2.076	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22200.000	90.000	179.662	10594.997	56.566	0.000	93.415	-0.000	56.566	0.000	0.000	93.480	41.858	2.056	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22300.000	90.000	179.662	10594.997	57.000	0.000	94.053	-0.000	57.000	0.000	0.000	94.118	41.933	2.036	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22400.000	90.000	179.662	10594.997	57.434	0.000	94.692	-0.000	57.434	0.000	0.000	94.756	42.008	2.016	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22500.000	90.000	179.662	10594.997	57.869	0.000	95.331	-0.000	57.869	0.000	0.000	95.395	42.084	1.997	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22600.000	90.000	179.662	10594.997	58.304	0.000	95.971	-0.000	58.304	0.000	0.000	96.035	42.160	1.978	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22700.000	90.000	179.662	10594.997	58.739	0.000	96.612	-0.000	58.739	0.000	0.000	96.675	42.237	1.959	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22800.000	90.000	179.662	10594.997	59.174	0.000	97.254	-0.000	59.174	0.000	0.000	97.316	42.314	1.941	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22900.000	90.000	179.662	10594.997	59.610	0.000	97.896	-0.000	59.610	0.000	0.000	97.958	42.391	1.923	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23000.000	90.000	179.662	10594.997	60.045	0.000	98.539	-0.000	60.045	0.000	0.000	98.601	42.469	1.905	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23100.000	90.000	179.662	10594.997	60.482	0.000	99.183	-0.000	60.482	0.000	0.000	99.244	42.548	1.888	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23200.000	90.000	179.662	10594.997	60.918	0.000	99.828	-0.000	60.918	0.000	0.000	99.888	42.626	1.871	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23300.000	90.000	179.662	10594.997	61.355	0.000	100.473	-0.000	61.355	0.000	0.000	100.533	42.705	1.854	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23405.998	90.000	179.662	10594.997	61.818	0.000	101.157	-0.000	61.818	0.000	0.000	101.217	42.790	1.836	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23495.993	90.000	179.662	10594.997	62.211	0.000	101.739	-0.000	62.211	0.000	0.000	101.798	42.862	1.821	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

Plan Targets Poker Lake Unit 23 DTD South 545H

Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape

Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 22	10899.15	440546.50	650796.10	7120.00	RECTANGLE
SHL 22	11291.75	441292.32	651313.48	6949.54	RECTANGLE
LTP 22	23406.06	427554.60	650872.80	7120.00	RECTANGLE
BHL 22	23496.82	427464.60	650874.10	7120.00	RECTANGLE

Cement Variance Request

Intermediate Casing :

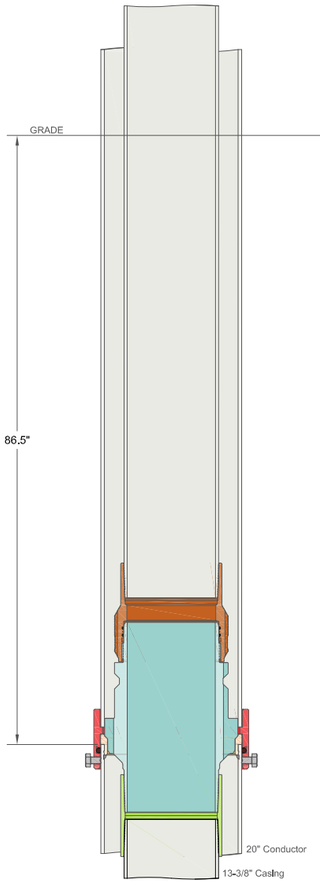
XTO requests to [illegible] a two stage cement job on the [illegible]5/8” intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the [illegible] Canyon ([illegible]) and the second stage performed as a bradenhead squeeze with planned cement from the [illegible] Canyon to [illegible]

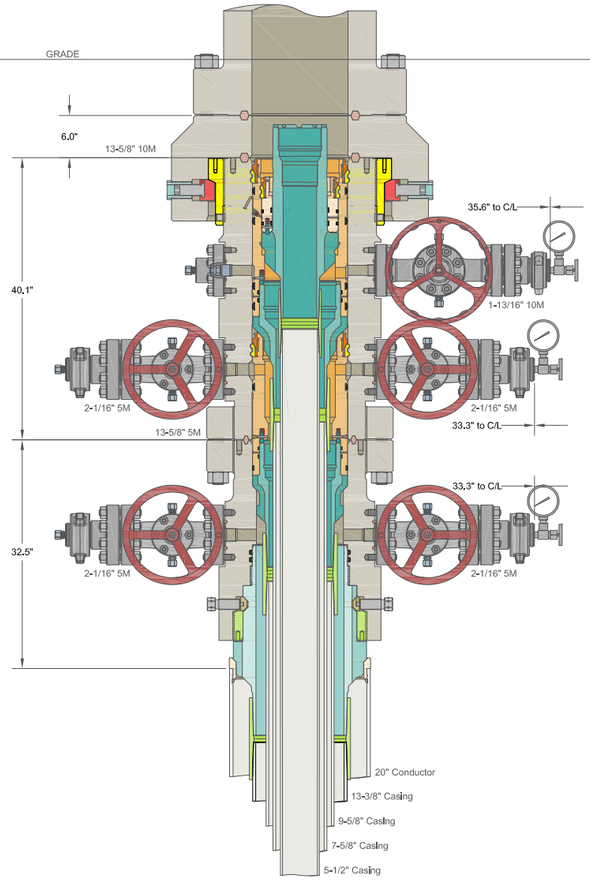
XTO requests to [illegible] an Optional lead if the conditions dictate in an area where [illegible] to bring cement to surface. If the cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

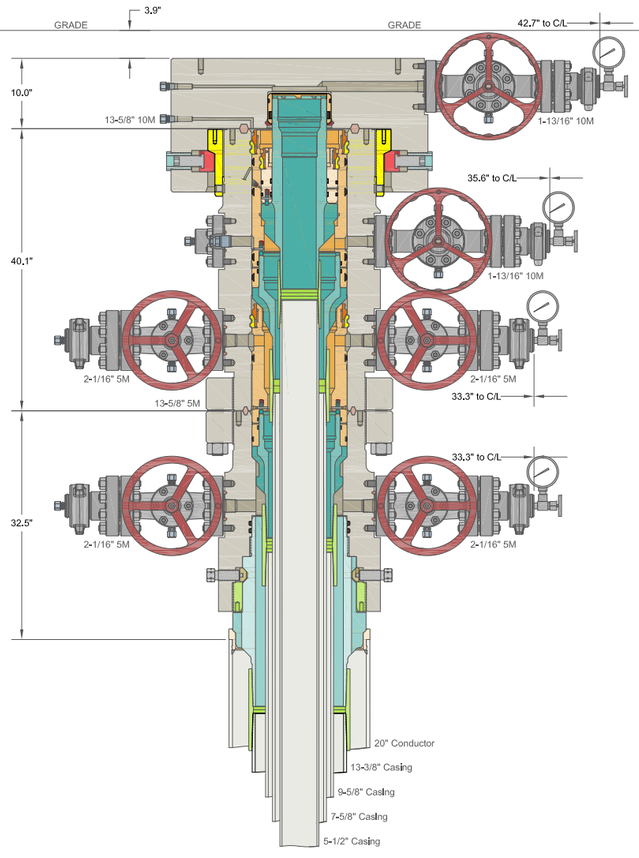
XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per the wellhead provider procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

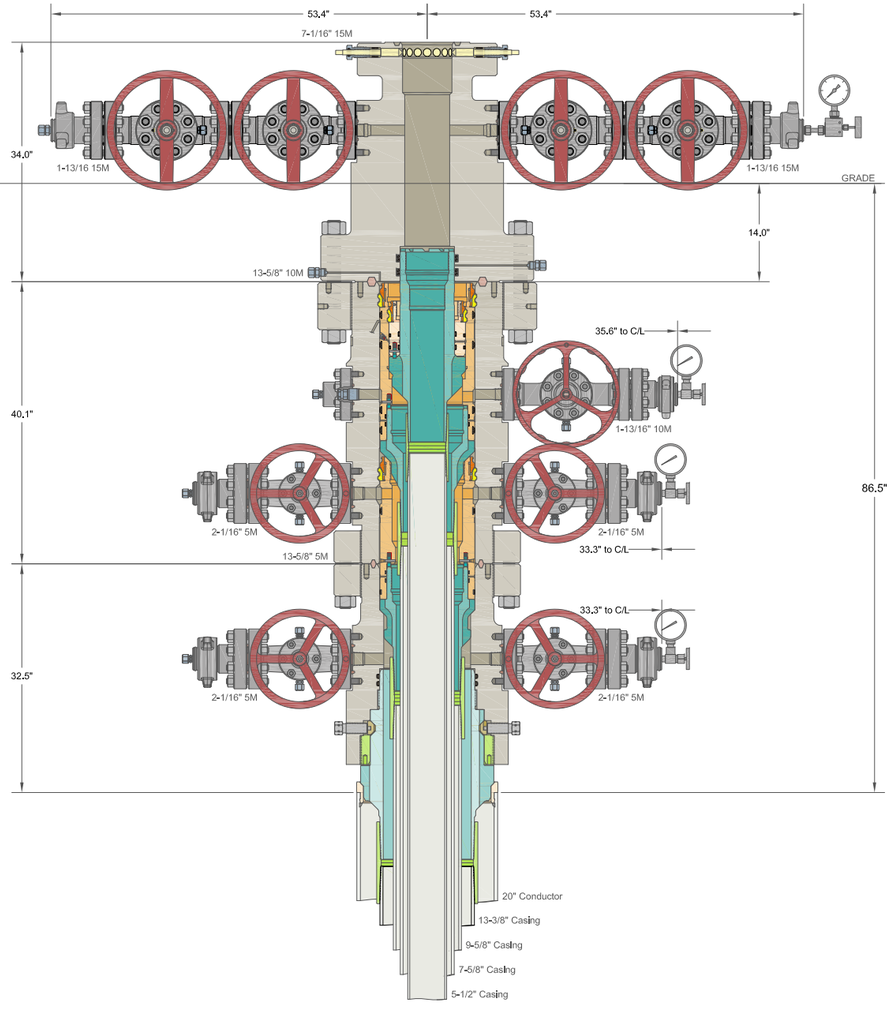
Production Casing :

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure the well is static with no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.









ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

XTO ENERGY INC
DELAWARE BASIN

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	SDT-3301	

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSPINOS

TITLE: QUALITY ASSURANCE

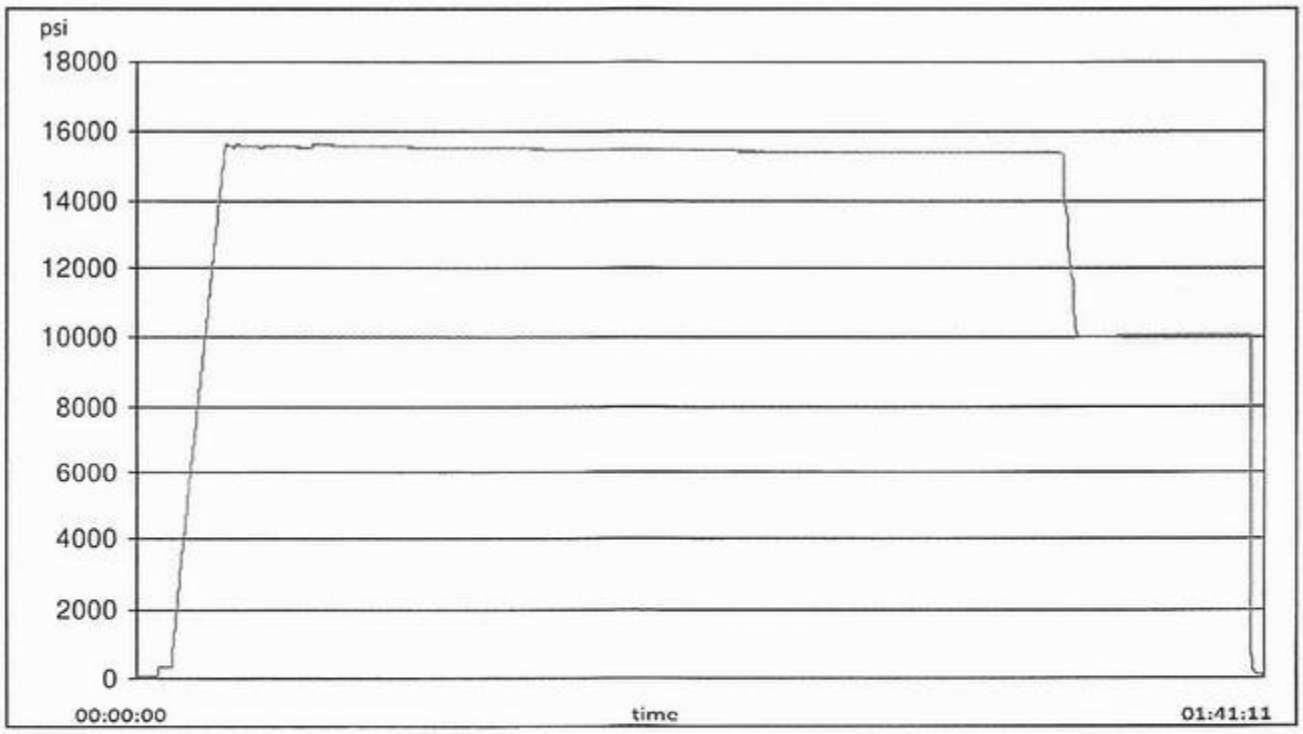
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



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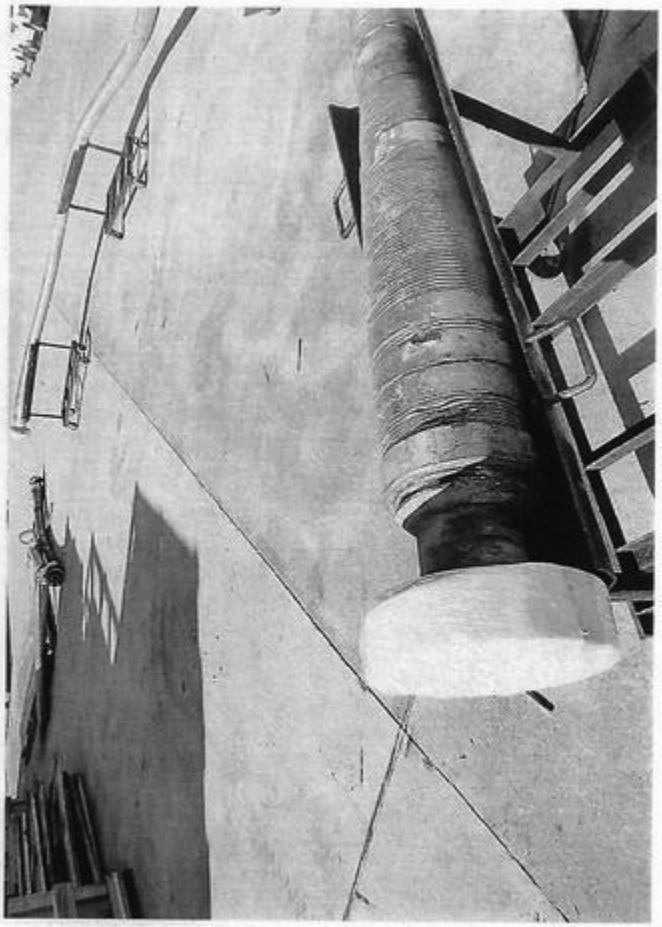
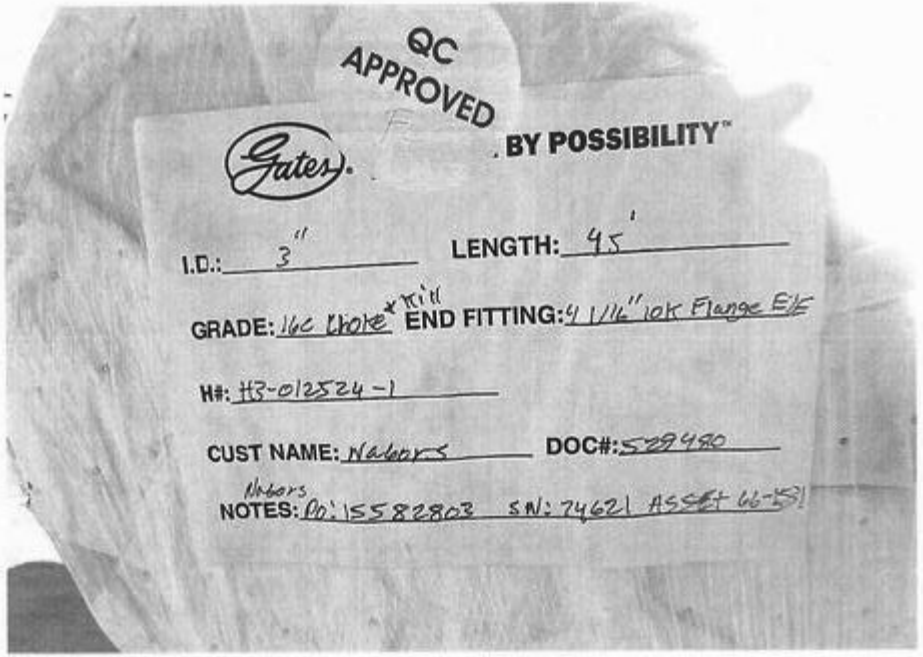
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
    a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
    b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

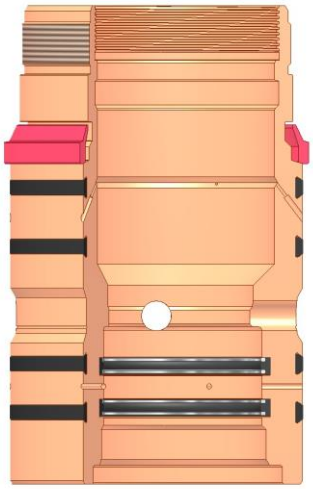
1. Cement Program

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

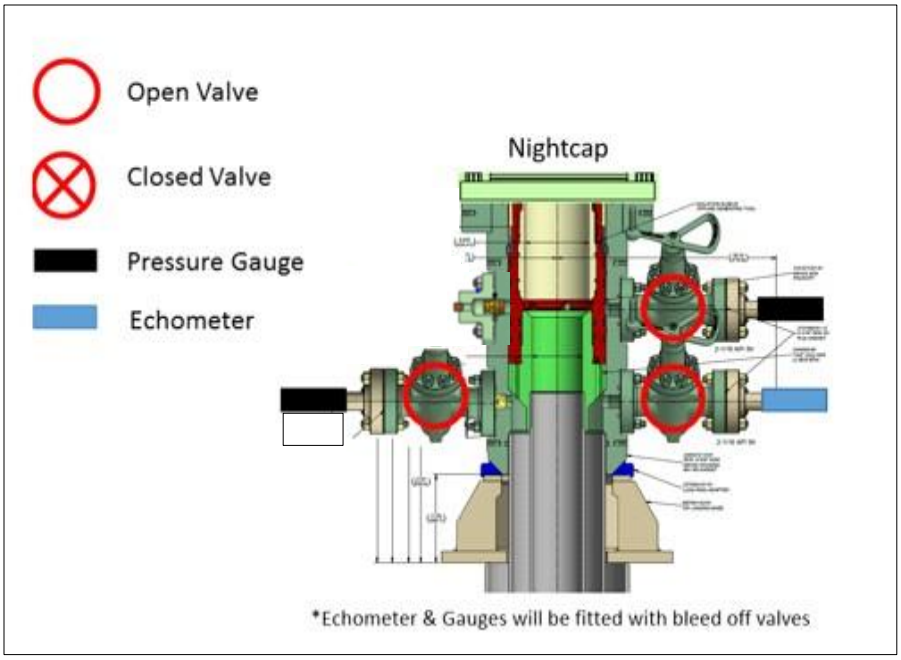
2. Offline Cementing Procedure

The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
    a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



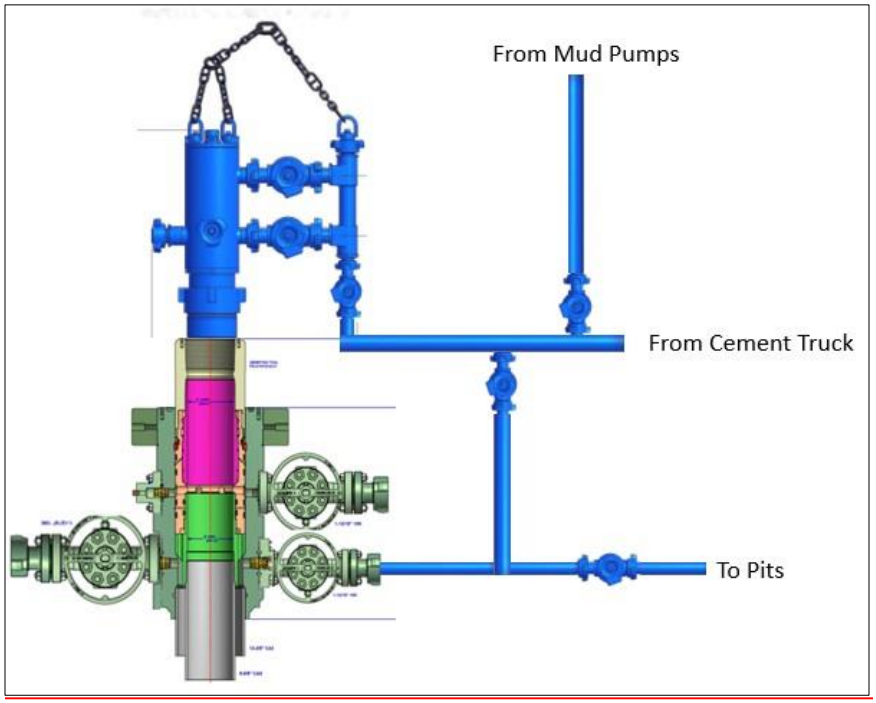
Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
    a. Well Control Plan
        i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
        ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
        iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
        iv. Once influx is circulated out of the hole, kill weight mud will be circulated
        v. Well will be confirmed static
        vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
    a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
    b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance…". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

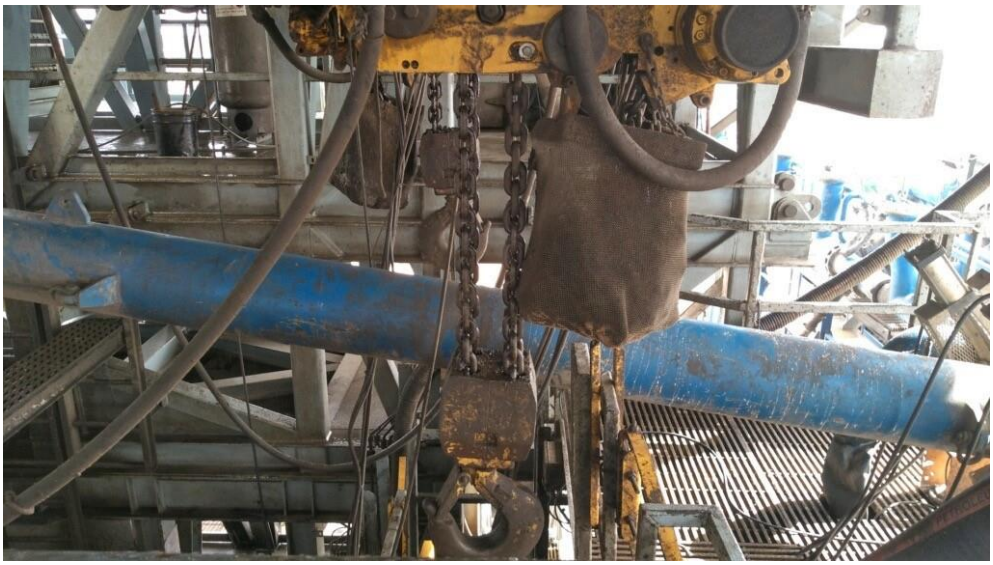


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

62 API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure[ac] psig (MPa)	Pressure Test—High Pressure[ac]	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer[b]	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers[bd]	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

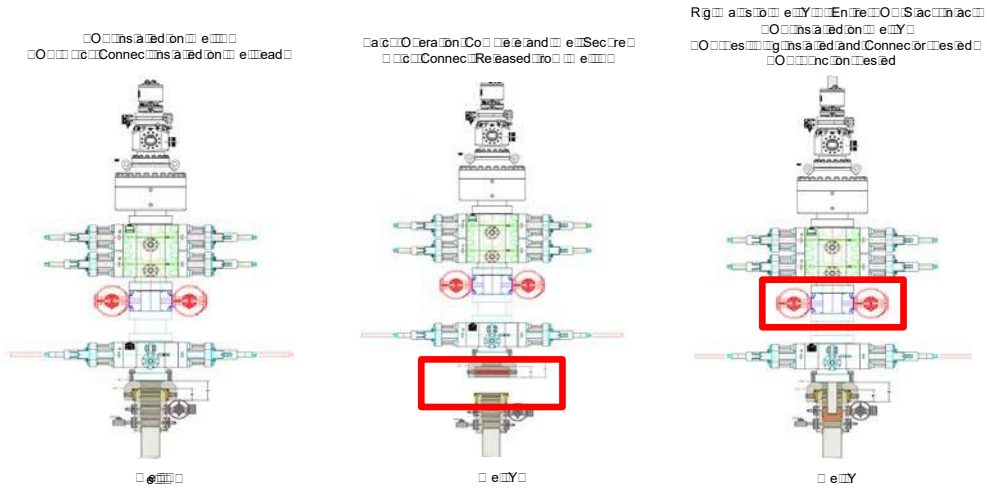
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
    a. A full BOP test will be conducted on the first well on the pad.
    b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
        i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
        ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
    c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
    d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
    a. Between the HCV valve and choke line connection
    b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

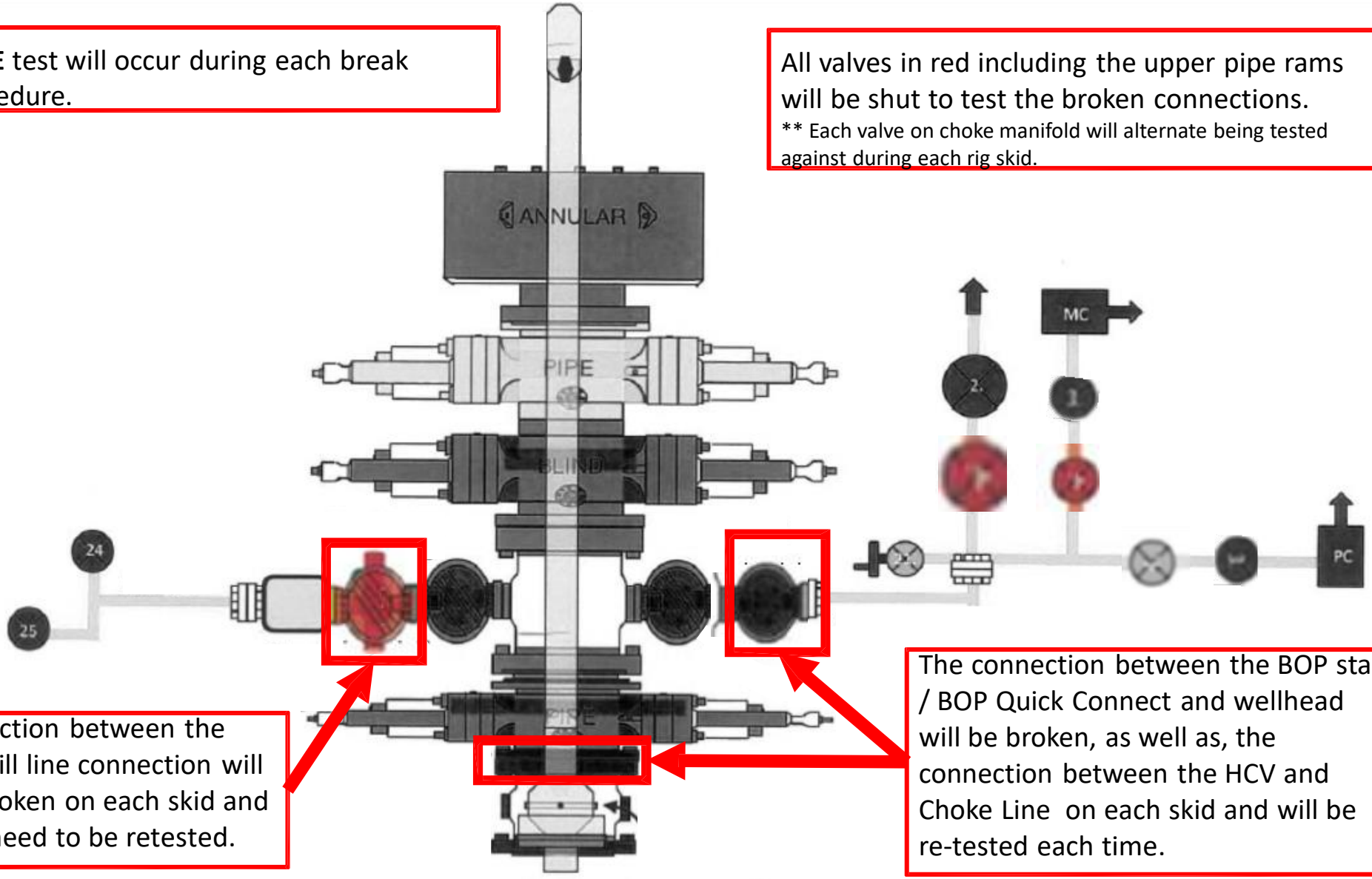
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	[illegible]
[illegible]	[illegible]
[illegible]	Eddy

Wells:

[illegible] Location: 1,792' FWL & 262' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: NOT [illegible]

[illegible] Location: 1,852' FWL & 262' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,224' FWL & 231' FNL, Section 2, T. 24 S, R. 30 E.

[illegible] Location: 608' FEL & 845' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,213' FEL & 7' FNL, Section 2, T. 24 S. R. 30 E.

[illegible] Location: 651' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 213' FWL & 32' FNL, Section 2, T. 24 S [illegible]

[illegible] Location: 1,822' FWL & 261' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: NOT [illegible]

[illegible] Location: 1,882' FWL & 262' FNL, Section 23, T. 24 S, R. 30 E. Bottom Hole Location: 1,697' FWL & 223' FNL, Section 2, T. 24 S, R. 30 E.

[illegible] Location: 1,713' FEL & 837' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,393' FEL & 224' FNL, Section 2, T. 24 S. R. 30 E.

[illegible] Location: 621' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 674' FWL & 254' FNL, Section 2, T. 24 S. R. 30 E.

[illegible] Hole Location: 681' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: NOT [illegible]

[illegible] Hole Location: 741' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,795' FWL & 234' FNL, Section 2, T. 24 S. R. 30 E.

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□S□r□ace□□o□e□ Location: 2,282' FWL & 337' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,085' FWL & 232' FNL, Section 2, T. 24 S. R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□S□r□ace□□o□e□ Location: 2,342' FWL & 337' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,313' FEL & 222' FNL, Section 2, T. 24 S. R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□C□–□□□S□r□ace□□o□e□ Location: 1,742' FEL & 836' FNL, Sec□□on□□□□□□□□□□S□R□□□□E□□o□o□ □o□e□□oca□□on□□O□□ □□□□□□□□□E□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□S□r□ace□□o□e□ Location: 591' FWL & 366' FSL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,125' FWL & 25' FNL, Section□□□□□□□□□S□R□□□□E□□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□R□□S□DR□□□ED□□□ad□□–□C□□□S□r□ace□ Hole Location: 711' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: NOT □□□□□□□□□E□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□□S□r□ace□ Hole Location: 771' FWL & 366' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 2,043' FWL & 22' FNL, Section 2, T. 24 S, R. 30 E□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□S□r□ace□□o□e□ □oca□□on□□□□□□' FWL & 337' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,870' FEL & 229' FNL, Section 2, T. 24 S, R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□□–□C□□S□r□ace□□o□e□ Location: 2,312' FWL & 337' FNL, Section 23, T. 24 S.□R. 30 E. Bottom Hole Location: 2,553' FWL & 234' FNL, Section 2, T. 24 S, R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□D□–□C□□S□r□ace□□o□e□ Location: 548' FEL & 845' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,297' FE□□□□ 268' FNL, Section 2, T. 24 S, R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□D□–□C□□S□r□ace□□o□e□ Location: 518' FEL & 845' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 338' FEL & 239' FNL, Section 2, T. 24 S, R. 30 E□□

□O□ER□□□□E□□ □ □□□□□D□D□□ED□S□□□□E□COM□□□□□□ □□S□DR□□□ED□□□ad□D□–□C□□S□r□ace□□o□e□ Location: 578' FEL & 845' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 2,522' FEL & 264' FNL, Section 2, T. 24 S, R. 30 E.□

□O□ER□□□□E□□ □ □□□□□D□D□□□□□□ □□ad□□–□A1 Surface Hole Location: 190' FWL & 556'FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 327' FWL & 2,627' FNL, Section 35, T. 24 S. R□□□□□E□□

□O□ER□□□□E□□ □ □□□□□D□D□□□□□□ □□ad□□–□A3 Surface Hole Location: 250' FWL & 556' FSL, Sec□□on□□□□□□□□□□S□R. 30 E. Bottom Hole Location: 457' FWL & 2,627' FNL, Section 35, T. 24 S. R□□□□□E□□

Approval Date: 12/19/2024

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-A5 Surface Hole Location: 310’ FWL & 556’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 839’ FWL & 2,627’ FNL, Section 35, □□□□□S□□ R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-A2 Surface Hole Location: 220’ FWL & 556’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 391’ FWL & 2,627’ FNL, Section 35, T. 24 S. R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-□□S□rface Hole Location: 191’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B2 Surface Hole Location: 221’ FWL & 461’ FSL, Sec□on□□□□□□□□S□R□□□E□□ottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B3 Surface Hole Location: 251’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B4 Surface Hole Location: 251’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B8 Surface Hole Location: 681’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B9 Surface Hole Location: 701’ FWL & 461’ FSL, Sec□on□□□□□□□□S□R□□□E□□o□o□ □□e□oca□on□□□254’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B10 Surface Hole Location: 741’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-B13 Surface Hole Location: 771’ FWL & 461’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FWL & 50’ FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-C4 Surface Hole Location: 366’ FWL & 281’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,870’ FWL & 50 FSL, Section 2, T. 25 S. R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-D6 Surface Hole Location: 1,621’ FEL & 1,152’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,083’ FEL & 2,627’ FNL, Section 35, T. □□S□R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□-A4 Surface Hole Location: 280’ FWL & 556’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 584’ FWL & 2,627’ FNL, Section 35, T. 24 S, R□□□□E□□

Approval Date: 12/19/2024

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→C1 Surface Hole Location: 1,792’ FWL & 357’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FWL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→C2 Surface Hole Location: 1,822’ FWL & 357’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,178’ FWL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→C3 Surface Hole Location: 1,852’ FWL & 357’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,178’ FEL & 50’ □□S□□Sec□on □□□□□□□□□S□R□□ □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→C4 Surface Hole Location: 1,884’ FWL & 357’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FWL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→B5 Surface Hole Location: 2,282’ FWL & 261’ FNL, Section 17, T. 24 S. R. 30 E. Bottom Hole Location: 1,485’ FWL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→B6 Surface Hole Location: 2,312’ FWL & 261’ FNL, Sec□on □□□□T. 24 S. R. 30 E. Bottom Hole Location: 2,640’ FWL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→B7 Surface Hole Location: 2,342’ FWL & 262’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,485’ FEL & 50’ FSL, Sect□on □□□□□□□□□S□R□□ □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□→B8 Surface Hole Location: 2,372’ FWL & 262’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 25 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C→□□S□rface Hole Location: 1,740’ FEL & 1,342’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,178’ FEL & 50’ FSL, Section 2, T. 25 S□R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C→F3 Surface Hole Location: 1,710’ FEL & 1,341’ □□ □□Sec□on □□□□□□□□S. R. 30 E. Bottom Hole Location: 2,178’ FWL & 50’ FSL, Section 2, T. 25 S□R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C→F4 Surface Hole Location: 1,740’ FEL & 1,342’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,178’ FEL & 50’ FSL, Section □□□□□□□□ S□R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C→F5 Surface Hole Location: 1,650’ FEL & 1,342’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FEL & 50’ FSL, Section 2, T. 25 S□R□□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D→E□S□rface Hole Location: 606’ FEL & 550’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FEL & 50 FSL, Section 2, T. 25 S, R. □□E□□

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□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□E3 Surface Hole Location: 576’ FEL & 550’ FSL, Sec□on□□□□□□□□S□R□□□E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 25 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□E4 Surface Hole Location: 546’ FEL & 550’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 25 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□E5 Surface Hole Location: 516’ FEL & 550’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,254’ FEL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□□□S□rface□o□e□oca□on□606’ FEL & 455’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 25 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□F3 Surface Hole Location: 576’ FEL & 455’ FSL, Sec□on□□□□□□□□S□R□□□E□□o□o□ o□e□oca□on: 1,254’ FEL & 50’ FSL, Section 2, T. 25 S, R. □□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□F4 Surface Hole Location: 546’ FEL & 455’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 25 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□F5 Surface Hole Location: 516’ FEL & 455’ FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 330’ FEL & 50’ FSL, Section 2, T. 24 S, R. 30 E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□D1 Surface Hole Location: 1,771’ FEL & 1,152’ □□L, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,475’ FWL & 2,627’ FNL, Section 35, □□□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□D2 Surface Hole Location: 1,741’ FEL & 1,152’ □□□Sec□on□□□□□□□□S□R□□□E□□o□o□ o□e□oca□on□□□□□’ FWL & 2,627’ FNL, Section 35, □□□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□D3 Surface Hole Location: 1,711’ FEL & 1,152’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,173’ FWL & 2,627’ FNL, Section 35, □□□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□D4 Surface Hole Location: 1,681’ FEL & 1,152’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,366’ FWL & 2,627’ FNL, Section 35, □□□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□D5 Surface Hole Location: 1,651’ FEL & 1,152’ FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,277’ FEL & 2,627’ FNL, Section 35, T. □□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□E1 Surface Hole Location: 1,771’ FEL & 1,247’ □□□Sec□on□□□□□□□□S□R□□□E□□o□o□ o□e□Location: 1,348’ FWL & 2,627’ FNL, Section 35, □□□□□S□R□□□E□□

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□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-□E2 Surface Hole Location: 1,741' FEL & 1,247' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 1,664' FWL & 2,627' FNL, Section 35, □□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-□E3 Surface Hole Location: 1,711' FEL & 1,247' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,239' FWL & 2,627' FNL, Section 35, □□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-□E4 Surface Hole Location: 1,681' FEL & 1,247' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,621' FWL & 2,627' FNL, Section 35, □□□□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-□E5 Surface Hole Location: 1,651' FEL & 1,247' □□□□Sec□on□□□□T. 24 S. R. 30 E. Bottom Hole Location: 2,340' FEL & 2,627' FNL, Section 35, T. □□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□C□-□E6 Surface Hole Location: 1,621' FEL & 1,247' FNL, Section 23, T. 24 S. R. 30 E. Bottom Hole Location: 2,210' FEL & 2,627' □□□□Sec□on□□□□□□ □□S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D1 Surface Hole Location: 637' FEL & 645' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,827' FEL & 2,627' FNL, Section 35, T. 24 S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D2 Surface Hole Location: 607' FEL & 645' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,385' FEL & 2,627' FNL, Section 35, T. 24 S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D3 Surface Hole Location: 577' FEL & 645' FSL, Sec□on□14, T. 24 S. R. 30 E. Bottom Hole Location: 1,315' FEL & 2,627' FNL, Section 35, T. 24 S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D4 Surface Hole Location: 547' FEL & 645' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,191' FEL & 2,627' □□□□Sec□on□□□□□□□□ S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D5 Surface Hole Location: 517' FEL & 645' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 1,003' FEL & 2,627' FNL, Section 35, T. 24 S□R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□D□-□D6 Surface Hole Location: 487' FEL & 645' FSL, Section 14, T. 24 S. R. 30 E. Bottom Hole Location: 936' FEL & 2,627' FNL, Section 35, T. 24 S, R□□□E□□

□O□ER□□□□E□□ □□□□□D□D□□□□□□□□ad□□□-□A6 Surface Hole Location: 340' FWL & 556' FSL, Sec□on□□□, T. 24 S. R. 30 E. Bottom Hole Location: 1,282' FWL & 2,627' FNL, Section 35, T. 24 S□R□□□E□□

□□□□RE□□ E□□□□□□□□□ad□□□-□A10 Surface Hole Location: 680' FWL & 556' FSL, Section 14, T. 24 S□R□□□E□□□o□o□ □□o□e□□oca□on□□□o□□e□De□er□ □ned□

□□□□RE□□ E□□□□□□□□□ad□□□-□A11 Surface Hole Location: 710' FWL & 556' FSL, Section 14, T. 24 S□R□□□E□□□o□o□ □□o□e□□oca□on□□□o□□e□De□er□ □ned□

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RE E ad A12 Surface Hole Location: 740’ FWL & 556’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad A13 Surface Hole Location: 770’ FWL & 556’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad C1 Surface Hole Location: 191’ FWL & 366’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad C2 Surface Hole Location: 221’ FWL & 366’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad C3 Surface Hole Location: 251’ FWL & 366’ FSL, Section 14,
S R E o o o e oca on o e De er ned

RE E ad A1 Surface Hole Location: 1,792’ FWL & 186’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A2 Surface Hole Location: 1,822’ FWL & 186’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A3 Surface Hole Location: 1,852’ FWL & 187’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad Surface Hole Location: 1,882’ FWL & 187’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A5 Surface Hole Location: 2,281’ FWL & 186’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A6 Surface Hole Location: 2,311’ FWL & 187’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A7 Surface Hole Location: 2,341’ FWL & 187’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad A8 Surface Hole Location: 2,371’ FWL & 186’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C A2 Surface Hole Location: 1,743’ FEL & 742’ FNL, Section
S R E o o o e oca on o e De er ned

RE E ad C A3 Surface Hole Location: 1,713’ FEL & 742’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C S ace o e Location: 1,683’ FEL & 742’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C A5 Surface Hole Location: 1,653’ FEL & 742’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C B4 Surface Hole Location: 1,682’ FEL & 837’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C B5 Surface Hole Location: 1,652’ FEL & 837’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C C2 Surface Hole Location: 1,742’ FEL & 932’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C C3 Surface Hole Location: 1,712’ FEL & 932’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C C4 Surface Hole Location: 1,682’ FEL & 932’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad C C5 Surface Hole Location: 1,652’ FEL & 932’ FNL, Section 23, T.
S R E o o o e oca on o e De er ned

RE E ad D A2 Surface Hole Location: 609’ FEL & 1,035’ FSL, Section 14, T.
S R E o o o e oca on o e De er ned

RE E ad D S race Hole Location: 579’ FEL & 1,035’ FSL, Section 14, T.
S R E o o o e oca on o e De er ned

RE E ad D A4 Surface Hole Location: 549’ FEL & 1,035’ FSL, Section 14, T.
S R E o o o e oca on o e De er ned

RE E ad D A5 Surface Hole Location: 519’ FEL & 1,035’ FSL, Section 14, T.
S R E o o o e oca on o e De er ned

RE E ad D B2 Surface Hole Location: 608’ FEL & 940’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad D B3 Surface Hole Location: 578’ FEL & 940’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad D B4 Surface Hole Location: 548’ FEL & 940’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

RE E ad D B5 Surface Hole Location: 518’ FEL & 940’ FSL, Section 14, T. 24
S R E o o o e oca on o e De er ned

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S□andard□Cond□□ons□o□□□□□ro□a□□CO□□a□□y□o□□s□□□D□□□any□de□a□ons□o□□ese□s□andards□ e□s□or□s□ec□a□CO□s□are□re□□red□□□e□sec□on□□□□□e□de□a□on□or□re□□re□en□□□□□e□c□ec□ed□ □e□o□□

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I. GENERAL PROVISIONS

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□e a□ro a□o□e□ □□ca□on□or□er□ □□o□Dr□□□□D□s□n□co□ □ance□□□□a□a□□□ca□e□a□s□ and□reg□a□ons□□□□Code□o□□ederal□Reg□a□ons□□□□□□□e□ease□er□s□Ons□ore□O□and□Gas□ Orders□□o□ces□□o□essees□□□e□□Me□co□O□Conser□a□on□D□s□on□□MOCD□R□es□□□a□ona□□ □s□or□ca□□reser□a□on□c□□s□□□ended□and□ns□r□c□ons□and□orders□o□□□e□□□or□ed□O□cer□□ □ny□re□□es□□or□a□arances□s□a□□e□s□□□□ □ed□o□□e□□□or□ed□O□cer□on□or□□□□□□□□□S□ndry□ □o□ces□and□Re□or□on□□□e□s□□

II. PERMIT EXPIRATION

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III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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IV. NOXIOUS WEEDS

e o era or s a e ed res ons e no o s eeds eco e es a s ed n e areas o o era ons eed con ro s a e re red on e d s r ed and ere no o s eeds e s c nc des e roads ads assoc a ed e ne corr dor and ad acen and a ec ed y e es a s en o eeds d e o s ac on e o era or s a cons e or ed O cer or acce a e eed con ro e ods c nc de o o ng E and M re re en s and o c es

V. SPECIAL REQUIREMENT(S)

Watershed:

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TANK BATTERY:

an a ery oca ons e ned and er ed er anen ner e ns a ed a o e ac ng o re en ears or nc res an a ery er s s e arge eno g o con a es e con en o e arges an or o r rod c on c e er s grea er o a c s o c ec a es or s ar sys e s e ns a ed or an s o n e e e ec s o ca as ro c ne a res sed n rod c on or dr ng

BURIED/SURFACE LINE(S):

en crossng e e era dra nages e e ne s e red o a n de o nc es ro e o o e o gro nd e E ros on con ro e ods s c as ga ons and or roc a rons s o d e aced on o and do ns rea s des o e e ne crossng n add on c red eed ree ood s ra er a es ogs and or s ences s o d e aced on e do ns rea s de or sed en con ro d r ng cons r c on and a ned n so s and ege a on a e s a ed a er ars s o d e aced n e RO o der and d ss a e s r ace r no e ne access road s no er ed o cross ese e e era dra nages ra c s o d ed ered o a ree s ng ro e dd ona seed ng ay e re red n ood an s and dra nages o res ore energy ss a ng ege a on

ror o e ne ns a a on cons r c on a ea de ec on an e de e o ed e e ods co d ncor ora e ga ges o de ec ress re dro s s a ng a es and nes so ey can e s a y ns ec ed er od ca y or ns a ng e ec ron c sensors o a ar en a ea s resen

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Fence Requirement

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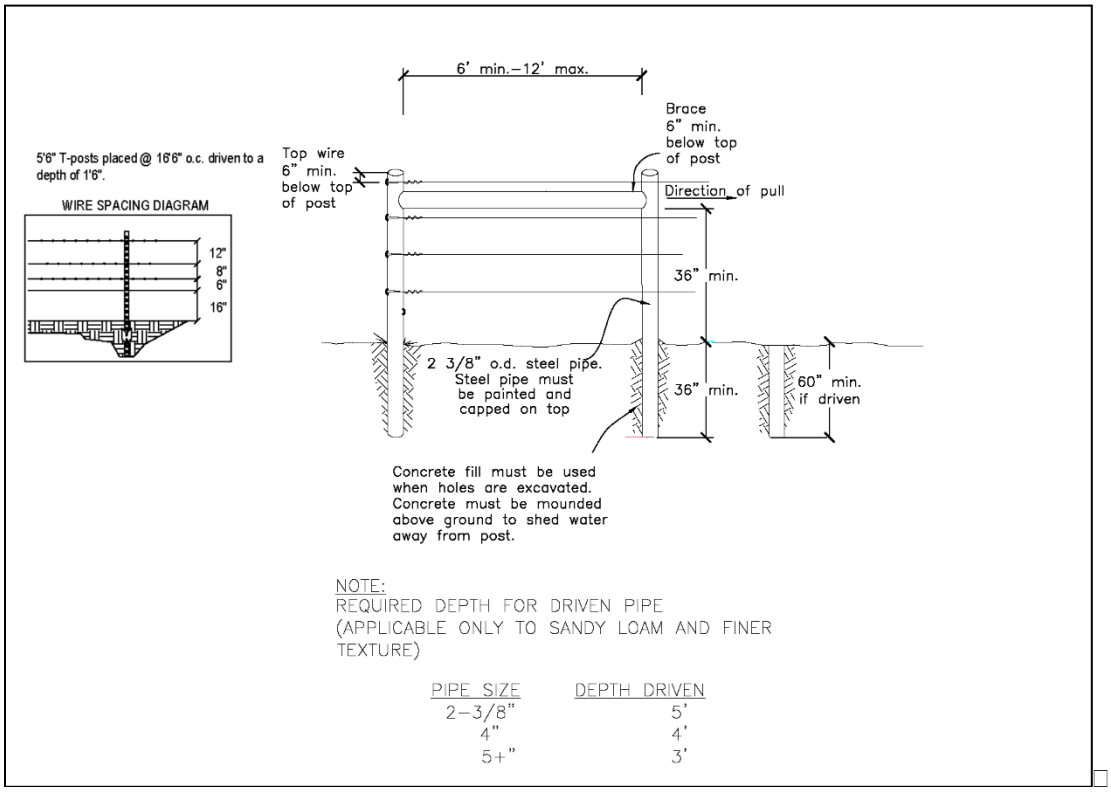

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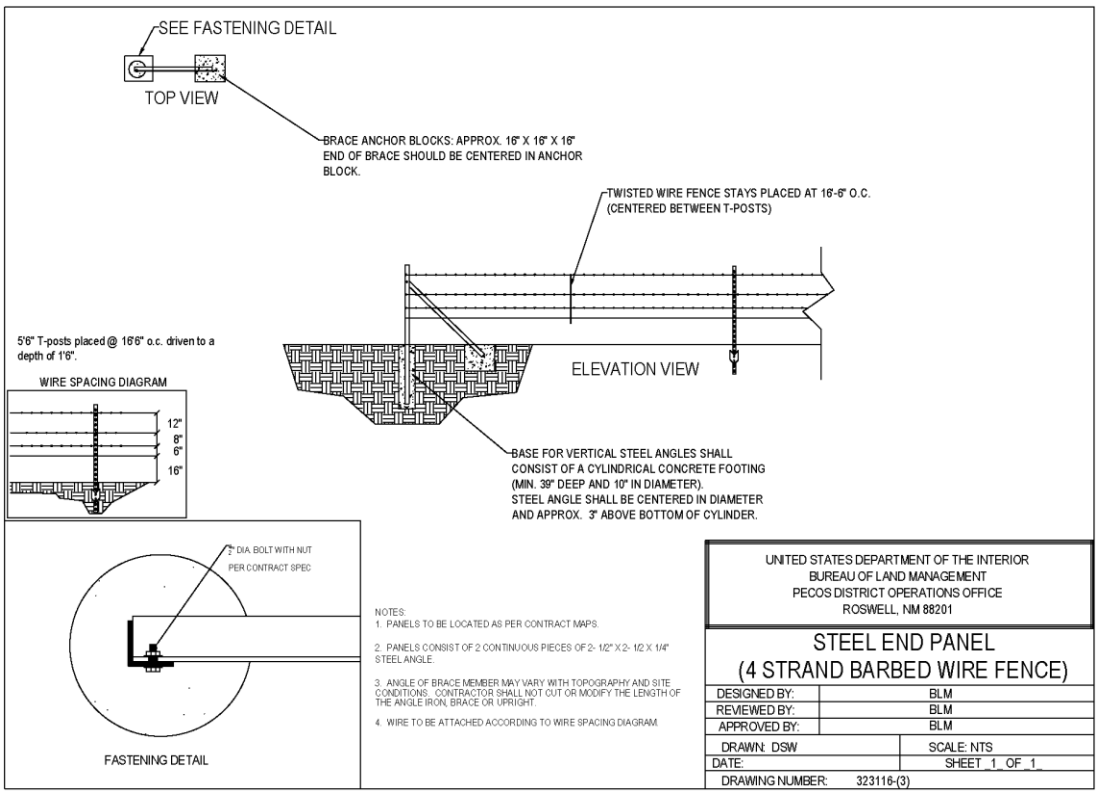

Livestock Watering Requirement

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Potash Resources

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VI. CONSTRUCTION

A. NOTIFICATION

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B. TOPSOIL

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C. CLOSED LOOP SYSTEM

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D. FEDERAL MINERAL MATERIALS PIT

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E. WELL PAD SURFACING

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F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

Surfacing

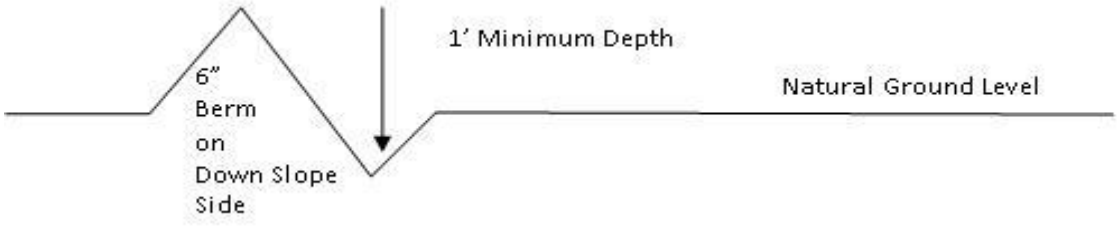
Crowning

Ditching

Turnouts

Drainage

Cross Section of a Typical Lead-off Ditch



Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{400'}{4\%}$ + 100' = 200' lead-off ditch interval

Public Access

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Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

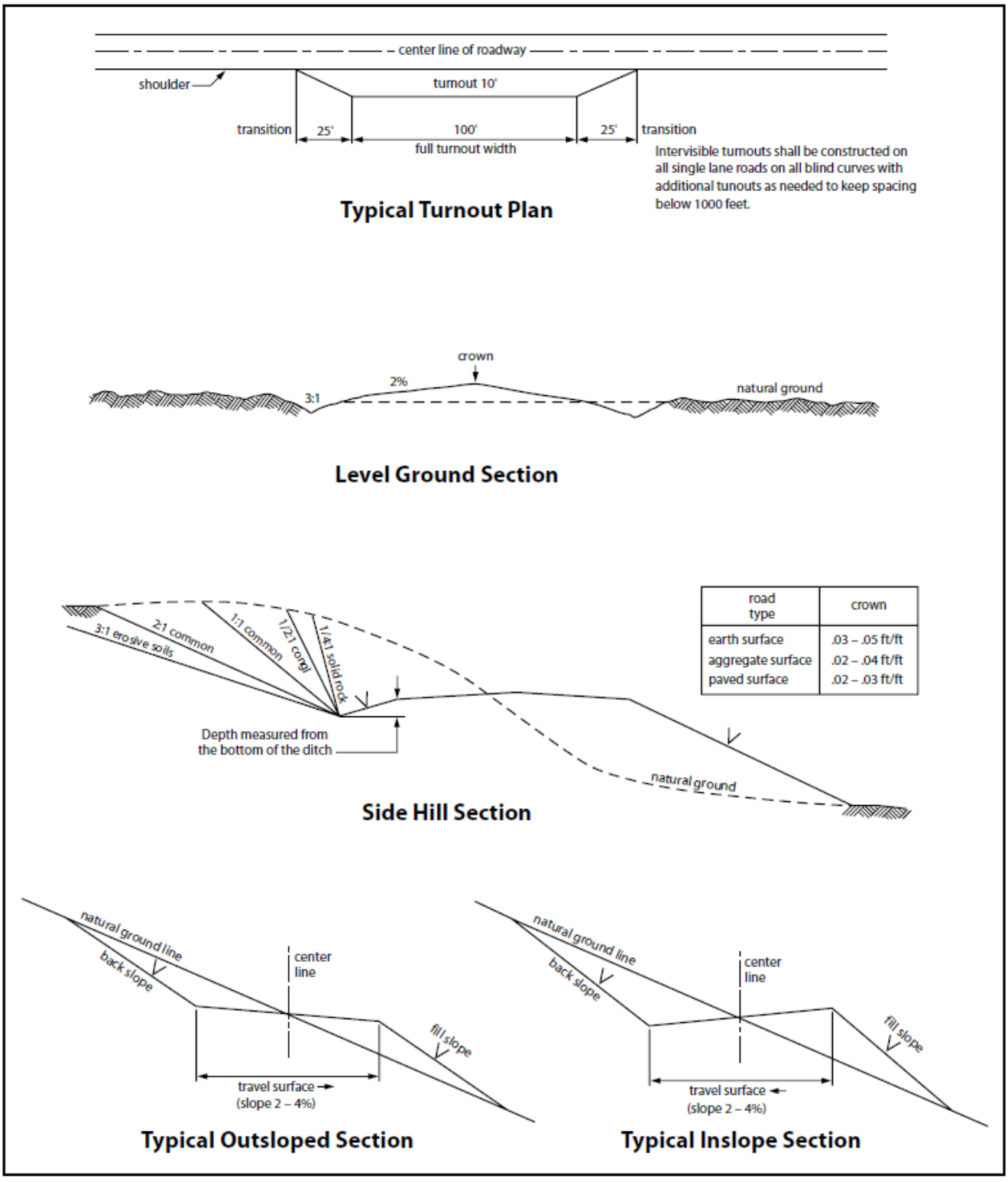

Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 12/19/2024

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks):

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-defined hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U.S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- [illegible] Carlsbad Field Office [illegible] surface drainage channels [illegible] passages [illegible] are intersected by trenching and no [illegible] trench [illegible] clearance has been issued by the [illegible] Officer.
- [illegible] encountered [illegible] and [illegible] essen[illegible] evidence [illegible] gas [illegible] karst resources [illegible] the [illegible]
- S[illegible] restoration [illegible] or realignment [illegible] required [illegible] intersections [illegible]
- [illegible] detection [illegible] **will be submitted to the BLM Carlsbad Field Office for approval** [illegible] pressure drops [illegible] valves and lines so they can be [illegible] inspected periodically or [illegible] electronic sensors [illegible] leak detection [illegible] incorporate [illegible] system [illegible] installed or proposed [illegible] lines [illegible]
- Regular monitoring is required [illegible] identify leaks for their immediate and proper treatment.
- [illegible] leaks [illegible] reported [illegible] immediate and proper treatment.

[illegible] R ED [illegible] E [illegible] E S [illegible] O S

[illegible] copy of the application (Grant [illegible] D [illegible] Sundry Notice and attachments including conditions of approval [illegible] and [illegible] location during construction [illegible] personnel may request to [illegible] copy [illegible] during construction [illegible] compliance [illegible] stipulations.

[illegible] older agrees to comply with the following stipulations to the satisfaction of the [illegible] Officer.

[illegible] older shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of [illegible] lands under this grant.

[illegible] older shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event the [illegible] older shall comply with the Toxic Substances Control Act of [illegible] as amended [illegible] SC [illegible] e se [illegible] with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See [illegible] C R Part [illegible] and especially provisions on [illegible] C R [illegible] Additionally any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by [illegible] C R Part [illegible] shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section [illegible] copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

[illegible] older agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of [illegible] SC [illegible] e se [illegible] or the Resource Conservation and Recovery Act [illegible] SC [illegible] e se [illegible] on the

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30ft wide buried pipeline requirements

e a a o a e d s r ance or cons r c on n s r g o ay e **30** ee

- ad ng o ege a on n e r g o ay e a o ed a d o ad ng o era ons no e ceed **20** ee e renc s nc ded n s area *Blading is defined as the complete removal of brush and ground vegetation*

- C ear ng o r s s ec es n e r g o ay e a o ed a d o c ear ng o era ons no e ceed **30** ee e renc and aded area are nc ded n s area *Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*

- e re a n ng area o e r g o ay any s a on y e d s r ed y co ress ng e ege a on *Compressing can be caused by vehicle tires, placement of equipment, etc.*

50ft wide buried pipeline requirements

e a a o a e d s r ance or cons r c on n s r g o ay e **50** ee

• ad ng o ege a on n e r g o ay e a o ed a d o ad ng o era ons no e ceed **33** ee e renc s nc ded n s area ad ng s de ned as e co e e re o a o r s and gro nd ege a on

• C ear ng o r s s ec es n e r g o ay e a o ed a d o c ear ng o era ons no e ceed **50** ee e renc and aded area are nc ded n s area C ear ng s de ned as e re o a o r s e ea ng gro nd ege a on grasses eeds

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☐**Seed Mixture 1**
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☐**Seed Mixture 2/LPC**
☐**Seed Mixture 3**
☐**Seed Mixture 4**
☐**Seed Mixture Aplomado Falcon Mixture**

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a. [illegible]

b. [illegible]

[illegible]

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

[illegible]

Approval Date: 12/19/2024

[illegible] Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

[illegible] Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of [illegible], as amended ([illegible] U.S.C. [illegible], *et seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (*see* [illegible] CFR, Part [illegible] and especially, provisions on polychlorinated biphenyls, [illegible] CFR [illegible].) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by [illegible] CFR, Part [illegible] shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, section [illegible]. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

[illegible] Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act, [illegible] U.S.C. [illegible], *et seq.* or the Resource Conservation and Recovery Act, [illegible] U.S.C. [illegible], *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

[illegible] Holder shall be liable for damage or injury to the United States to the extent provided by [illegible] CFR Sec. [illegible]. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from fire or fire-related occurrences, caused or substantially aggravated by any of the following within the right-of-way or permit area:

a) Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility.

b) Activities of other parties including, but not limited to:
[illegible] Land clearing.
[illegible] Earth-disturbing and earth-moving work.
[illegible] Blasting.
[illegible] Vandalism and sabotage.

c) Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars ([illegible]) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

[illegible] If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder

o any res ons y as ro ded ere n

cons r c on and a n enance ac y s a e con ned o e a or ed r g o ay d o ___ ee e e ne ro e o o s an e s ng road or red e ne r g o ay e s r ace e nes a e ns a ed no ar er an ee ro e edge o e road or red e ne r g o ay e s ng s r ace e nes re en s d s ance e ro osed s r ace e nes a e ns a ed ed a e y ad acen o e o er s r ace e ne cons r c on and a n enance ac y s a e con ned o e s ng roads or r g o ays

o ad ng or c ear ng o any ege a on s a e a o ed n ess a ro ed n r ng y e or ed O cer

o der s a ns a e e ne on e s r ace n s c a anner a n e s s ens on o e e ne across o areas n e erra n n oc y o d ney areas e e ne s a e "sna ed" aro nd oc s and d nes ra er an s s ended across ese ea res

e e nes a e red a n o _____ ____________ nc es nder a roads " o rac s" and ra s ra o e e con n e or ee on eac s de o eac cross ng e cond on o e road on co e on o cons r c on s a e re rned o a eas s or er s a e no s or d s re a n ng n e road s r ace

e o der s a n e d s r ance o e s ng ences and o er ro e en s on c ands e o der s re red o ro y re a r ro e en s o a eas e r or er s a e nc ona se o ese ro e en s e a n a ned a a es e o der con ac e o ner o any ro e en s r or o d s r ng e en necessary o ass ro g a ence ne e ence s a e raced on o s des o e assage ay r or o c ng o e ence o er anen ga es e a o ed n ess a ro ed y e or ed O cer

n ose areas ere eros on con ro s r c res are re red o s a e so cond ons e o der ns a s c s r c res as are s a e or e s ec c so cond ons e ng enco n ered and c are n accordance so nd reso rce anage en rac ces

E c d ng e e a a o e gro nd s r c res no s ec o sa e y re re en s a e a n ed y e o der o end e na ra co or o e andsca e e a n sed s a e a co or c s a es "S andard En ron en a Co ors" – **Shale Green** M nse So Co or o Y des gna ed y e Roc y Mo n a n e S a e n eragency Co ee

e e ne e den ed y s gns a e on o or g n and co e on o e r g o ay and a a road cross ngs a n s gns s a e e o ders na e M ser a n er and e rod c e ng rans or ed S gns e a n a ned n a eg e cond on or e e o e e ne

e o der s a no se e e ne ro e as a road or r oses o er an ro ne a n enance as de er ned necessary y e or ed O cer n cons a on e o der e o der a e a e er s e s are necessary o ens re a e e ne ro e s no sed as a road ay

ny c ra reso rce s or c or re s or c s e or o ec d sco ered y e o der or any erson or ng on e o ders e a on c or edera ands s a e ed a e y re or ed o e or ed O cer e o der s a s s end a o era ons n e ed a e area o s c d sco ery n r en a or a on o roceed s ss ed y e or ed O cer n e a a on o e d sco ery e ade y e or ed O cer o de er ne a ro r a e ac ons o re en e oss o s gn can c ra or sc en c a es e o der e res ons e or e cos o e a a on and any dec s on as o e ro er ga on eas res e ade y e or ed

O icer a er cons ing e older

OR

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C. **ELECTRIC LINES**

- S a er o er nes e ro ed aro nd s n o es and o er ars ea res o a o d or essen e oss y o enco n er ng near s r ace o ds and o n e c anges o r no or oss e ea s and s s ro en er ng ars sys e s arger o er nes ad s er o e s acng o a o d ca e and ars ea res
- e M Car s ad e d O ce e n or ed ed a e y any s s r ace dra nage c anne s ca e assages or o ds are ene ra ed d r ng cons r c on

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S D RD S O S OR O ER E D E EC R C D S R O ES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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o er nes s a e cons r c ed and des gned n accordance o s andards o ned n "S gges ed rac ces or an ro ec on on o er nes e S a e o e r n " Ed son E ec r c ns e C and e Ca orn a Energy Co ss on e o der s a ass e e rden and e ense o ro ng a o e des gns no s o n n e a o e ca on de er ra or erc ng roos ng and nes ng S c roo s a e ro ded y a ra or e er a ro ed y e or ed O cer e M reser es e r g o re re od ca on or add ons o a o er nes r c res aced on s r g o ay s o d ey e necessary o ens re e sa e y o arge erc ng rds S c od ca ons and or add ons s a e ade y e o der o a y or e ense o e n ed S a es

Ra or de errence cons s o no ed o e o o ng rang e erc d sco ragers s a e aced on eac s de o e cross ar s and a noncond c e erc ng de errence s a e aced on a er ca o es a e end as e cross ar s

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ny aleon olog ca reso rce s or c or re s or c s e or o ec d sco ered y e older or any erson or ng on e olders e a on c or edera and s a e ed a ey re orted o e or ed O cer e olders a s send a o era ons n e ed a e area o s c d sco ery n r en a or a on o roceed s ss ed y e or ed O cer n e a a on o e d sco ery e ade y e or ed O cer o de er ne a ro ra e ac ons o re en e oss o s gn can c ra or scen c a es e older e res ons e or e cos o e a a on and any dec s on as o e ro er ga on eas res e ade y e or ed O cer a er cons ng e older

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VIII. INTERIM RECLAMATION

D r ng e e o e de e o en a d s r ed areas no needed or ac es or o rod c on o era ons s o d ndergo n er rec a a on n order o n e e en ron en a ac s o de e o en on o er reso rces and ses

n s on s o e co e on o era ors s o d or M s race anage en s ec a s s os o de se e es s ra eges o red ce e s e o e oca on n er rec a a ons s o d a o or re ed a e o era ons as e as sa e and e c en re o a o o and gas

D r ng rec a a on e re o a o ca c e s or an o ncreas ng e s ccess o re ege a ng e s e Re o ed ca c e a s ree o con a nan s ay e sed or road re a rs re a s or or d ng o er roads and oca ons n order o o era e e e or co e e or o er o era ons ay e necessary o dr e ar and o era e on res ored n er ege a on n e re o s y d s r ed area D s r ng re ege a ed areas or rod c on or or o er o era ons e a o ed ere s s gn can d s r ance and oss o ege a on e area need o e re ege a ed Co ncaе e a ro ra e M o ce or any e ce ons e e ons needed

d s r ed areas a er ey a e een sa s ac or y re ared need o e reseeded e seed re ro ded e o

on co e on o n er rec a a on e o era or s a s a S ndry o ces and Re or s on e s S se en Re or o Rec a a on or

IX. FINAL ABANDONMENT & RECLAMATION

na a andon en e oca ons rod c on ac es and access roads s ndergo " na " rec a a on so a e c arac er and rod c y o e and are res ored

Ear or or na rec a a on s e co e ed n s on s o e gg ng ads s ac y oca ons and roads s e rec a ed o a sa s ac ory re ege a ed sa e and s a e cond on n ess an agree en s ade e ando ner or M o ee e road and or ad n ac

er a d s r ed areas a e een sa s ac or y re ared ese areas need o e re ege a ed e seed re ro ded e o Seed ng s o d e acco s ed y dr ng on e con o r ene er rac ca or y o er a ro ed e ods Seed ng ay need o e re ea ed n re ege a on s s ccess as de er ned y e M

O era ors s a con ac a M s r ace ro ec on s ec a s r or o s r ace a andon en o era ons or s e s ec c o ec es os

Gro nd e e andoned e Mar er o a o d ra or erc ng on e gg ng and s se en a andon en o e e e e e ar er e ns a ed a gro nd e e on a a e con a n ng e er nen n or a on or e gged e

Seed Mixture 2, for Sandy Sites

e o der s a seed a d s r ed areas e seed re s ed e o e seed re s a e an ed n e a o n s s ec ed n o nds o re e seed S er acre ere s a e no r ary or secondary no o s eeds n e seed re Seed e es ed and e a y es ng o seed e done n accordance S a e a s and n ne on s r or o rc ase Co erc a seed e e er cer ed or reg s ered seed e seed con a ner e agged n accordance S a e a s and a a a e or ns ec on y e a or ed o cer

Seed e an ed s ng a dr e ed a de reg a or o ens re ro er de o an ng ere dr ng s oss e e seed re e e en y and n or y an ed o er e d s r ed area s a er ea er seeds a e a endency o dro e o o o e dr and are an ed rs e o der s a a e a ro r a e eas res o ens re s does no occ r ere dr ng s no oss e seed e roadcas and e areas a e ra ed or c a ned o co er e seed en roadcas ng e seed e o nds er acre are o e do ed e seed ng e re ea ed n a sa s ac ory s and s es a s ed as de er ned y e a or ed o cer E a a on o gro no e ade e ore co e on o a eas one gro ng season a er seed ng

S ec es o e an ed n o nds o re e seed er acre

S ec es					acre
Sand dro seed S oro o s cry andr s					
Sand o e grass Eragros s r c odes					
a ns r s egrass Se ar a acros ac ya					

o nds o re e seed

o nds o seed x ercen r y x ercen ger na on o nds re e seed

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM030452**
LOCATION:	Sec. 14, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 23 DTD 545H
SURFACE HOLE FOOTAGE:	645'/S & 517'/E
BOTTOM HOLE FOOTAGE:	2627'/N & 1003'/E

COA

H_2S	○ No		○ Yes	
Potash / WIPP	○ None	◉ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☑ Four-String	☑ Offline Cementing	☑ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **780** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch 1st Intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

3. The minimum required fill of cement behind the **7-5/8** inch 2nd Intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6649'.**

b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement should be tie-back at least **500ft** into previous casing string. If cement does not reach surface, the appropriate BLM office shall be notified. **Excess calculates to 23%. Additional cement maybe required.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

Operator has proposed to pump down Intermediate 1 X Intermediate 2 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to 15%. Additional cement maybe required.**

Approval Date: 12/19/2024

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

Approval Date: 12/19/2024

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

Approval Date: 12/19/2024

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      i. Notify the BLM when moving in and removing the Spudder Rig.
      ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

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

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

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

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 11/27/2024
575-234-5998 / zstevens@blm.gov

HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H_2S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM 575-887-7329

XTO PERSONNEL:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE: 575-392-5588

FIRE DEPARTMENTS:	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

AGENT NOTIFICATIONS:

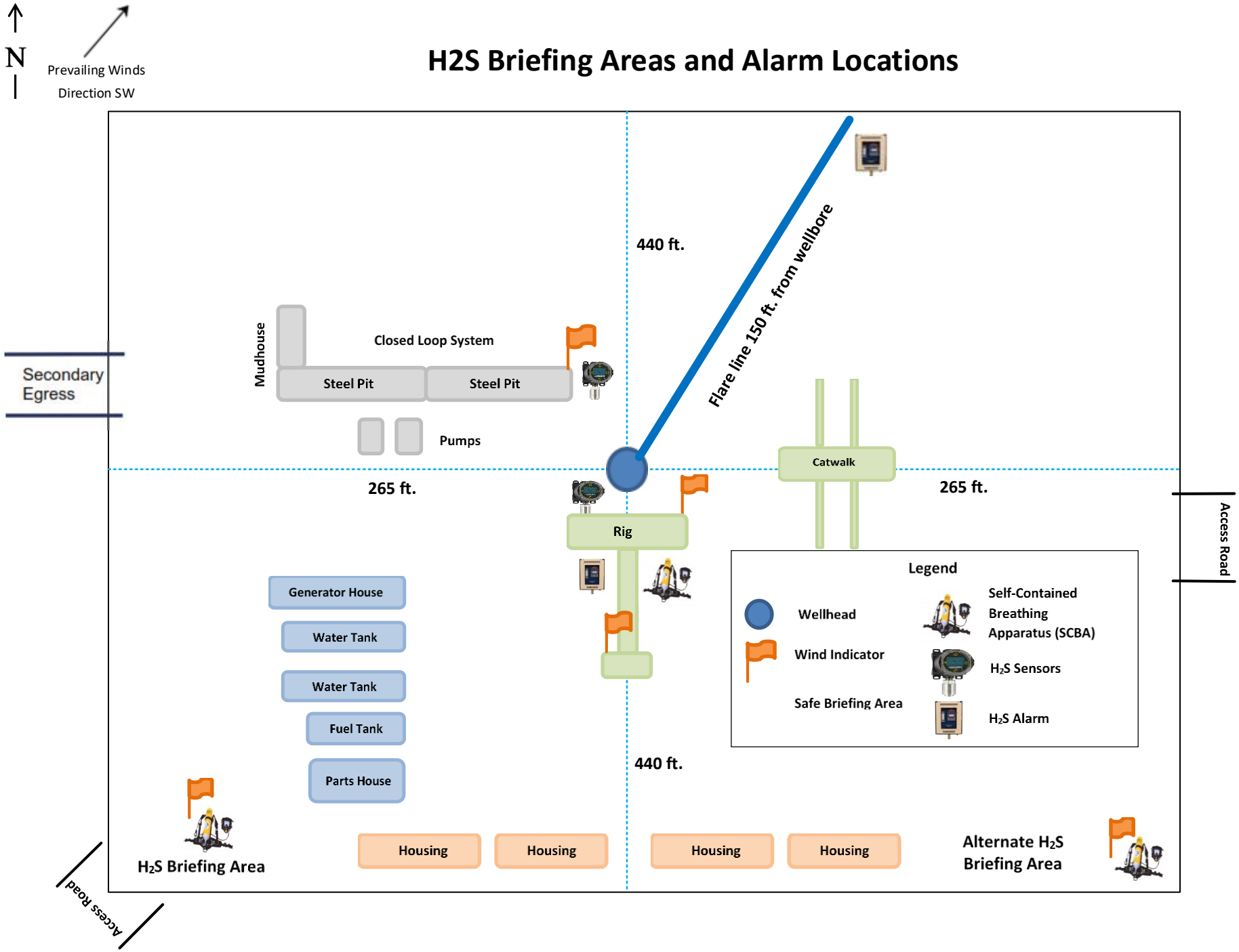
For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

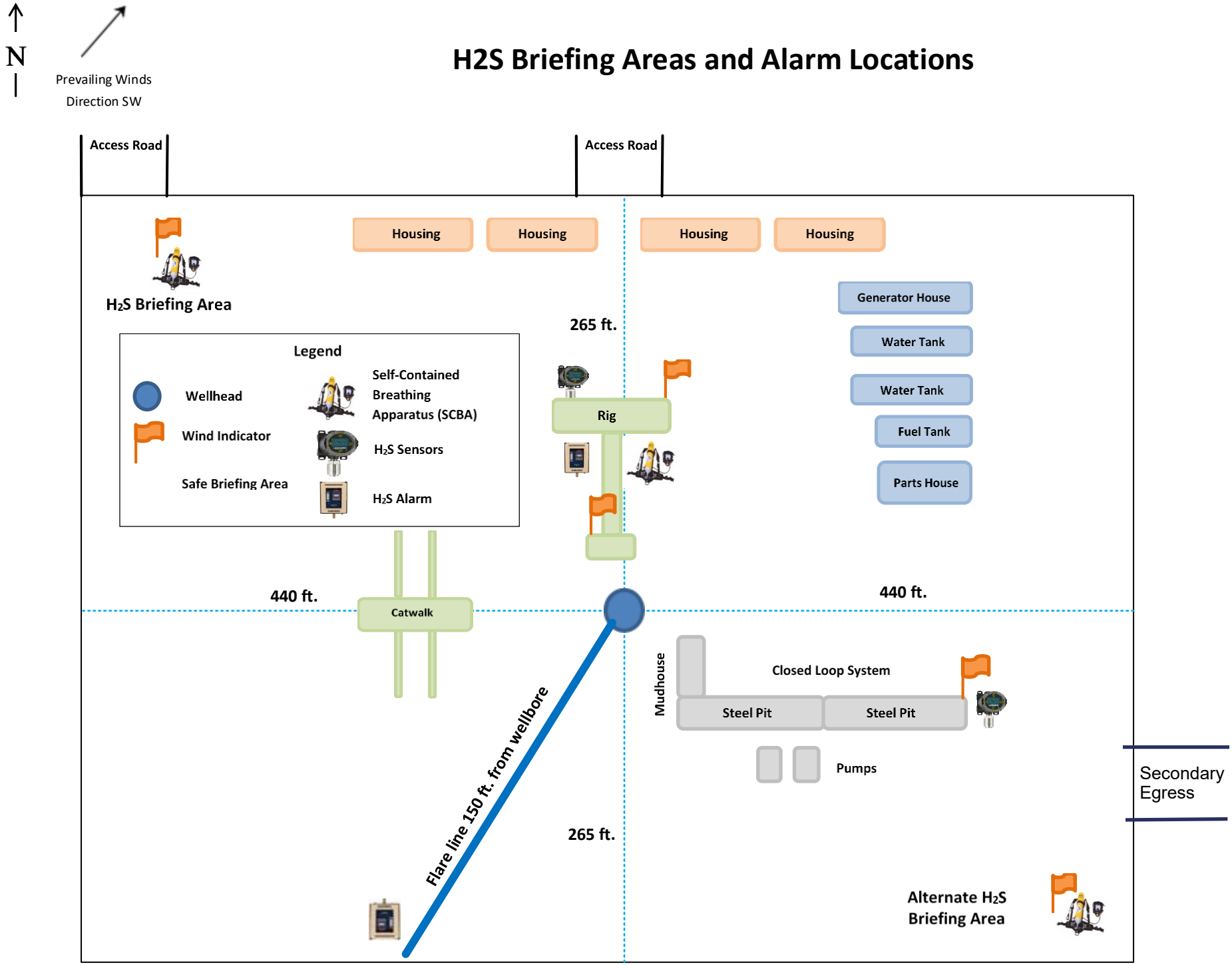
For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283

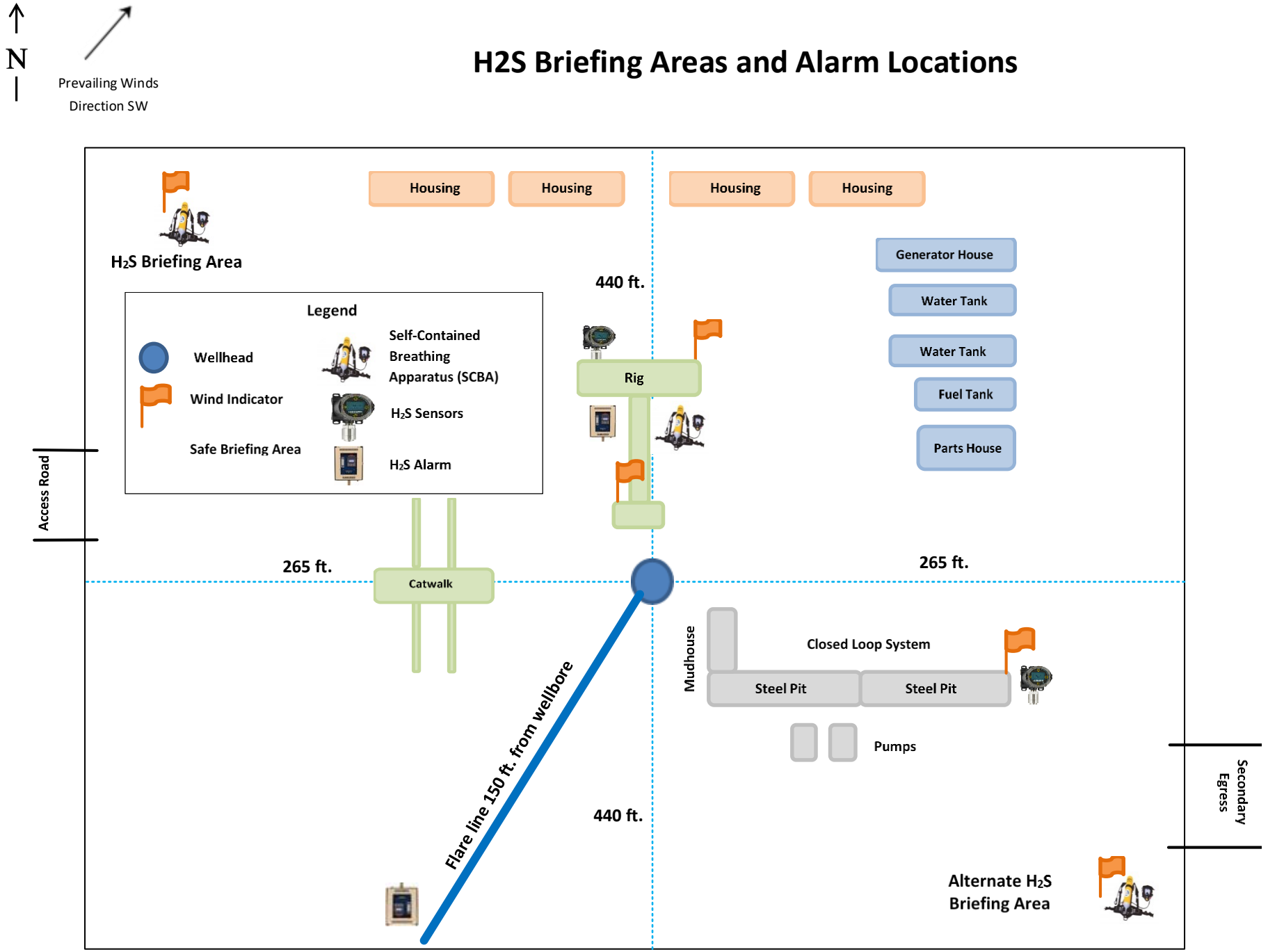
H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



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

SUPO Data Report
12/20/2024

APD ID: 10400098063
Submission Date: 04/18/2024
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 23 DTD
Well Number: 545H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU_23_DTD_545H_Road_20240414140146.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID: 281001

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

PLU_23_DTD_1Mile_20240411175145.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: A. Production Facilities. We have one existing facility pad PLU 23 DTD CVB, located in Section 14-24S-30E NMPM, Eddy County, New Mexico. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. B. Buried & Surface Flowlines. There are no new flowlines planned for this development as of now and we would be using the existing flowlines for this development phase of this project. C. Midstream Tie-In. no new midstream tie-ins are needed. D. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM. E. Flare. A flare is currently located on the PLU 23 DTD CVB. F. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. G. Containment Berms. Containment berms shall be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 times the capacity of the largest tank and away from cut or fill areas. H. Electrical. No new electrical lines are requested.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fresh Water; Described in Water Source Comments below

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

STIMULATION

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 2000000

Source volume (acre-feet): 257.78619266

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Source volume (gal): 84000000

Water source type: OTHER

Describe type: Brackish Water; Described in Water Source Comments below

Water source use type: INTERMEDIATE/PRODUCTION CASING
STIMULATION

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING
PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 2000000 **Source volume (acre-feet):** 257.78619266

Source volume (gal): 84000000

Water source and transportation

PLU_23_DTD_545H_Wtr_20240414140636.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The fresh water will be obtained from a 3rd party vendor and hauled by transport truck using the existing and proposed roads depicted in the attached exhibits and using 4" HDPE pipelines. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources or Select or XRI Water for drilling, completion and dust control will be supplied by ether of the 3-party company for sale to XTO Permian Operating, LLC from Section 27, T25S-R30E, Eddy County, NM. If Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, NM or from S15 T24S R30E, NM. Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 500,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

New water well? N

New Water Well Info

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: NO

Construction Materials description:

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud boxes

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

Waste content description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: A licensed 3rd party contractor to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_23_DTD_545H_Well_20240414140830.pdf

PLU_23_DTD_545H_RL_20241008103307.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance **Multiple Well Pad Name:** POKER LAKE UNIT 23 DTD

Multiple Well Pad Number: D

Recontouring

PLU_23_DTD_IR1_20240411181254.pdf

PLU_23_DTD_IR2_20240411181254.pdf

PLU_23_DTD_IR3_20240411181254.pdf

PLU_23_DTD_IR4_20240411181254.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres):	**Well pad interim reclamation (acres):** 0	**Well pad long term disturbance (acres):** 0
Road proposed disturbance (acres):	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres):	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres):	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres):	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 0	**Total interim reclamation:** 0	**Total long term disturbance:** 0

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

<style isBold="true">Existing Vegetation at the well pad:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation at the well pad

<style isBold="true">Existing Vegetation Community at the road:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation Community at the road

<style isBold="true">Existing Vegetation Community at the pipeline:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation Community at the pipeline

<style isBold="true">Existing Vegetation Community at other disturbances:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Robert **Last Name:** Bartels

Phone: (406)478-3617 **Email:** robert.e.bartels@exxonmobil.com

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.
Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.
Weed treatment plan

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.
Monitoring plan

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
Pit closure attachment:

Section 11 - Surface Ownership

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: FLOWLINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 545H

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

SUPO Additional Information: SUPO written for all wells in section/project area.

Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 04/15/2021.

Other SUPO

PLU_23_DTD_SUPO_Rev2_20241008103348.pdf

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 414442
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
slaghuvarapu	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/20/2024
slaghuvarapu	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/20/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/7/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/7/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/7/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/7/2025