Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM90587 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone LOST TANK 30 19 FEDERAL COM 42H 2. Name of Operator 9. API Well No. **OXY USA INCORPORATED** 30-025-55289 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory P.O. BOX 1002, TUPMAN, CA 93276-1002 (661) 763-6046 WC-025 G-09 S223219D/WOLF CAMP 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 19/T22S/R32E/NMP At surface NENW / 506 FNL / 2036 FWL / LAT 32.382881 / LONG -103.716356 At proposed prod. zone SESW / 20 FSL / 2310 FWL / LAT 32.355311 / LONG -103.71545 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State LEA NM 46 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 506 feet location to nearest property or lease line, ft. 640.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 12174 feet / 22837 feet FED: ESB000226 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3618 feet 03/01/2026 45 days 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date (Electronic Submission) MELISSA GUIDRY / Ph: (713) 366-5716 03/10/2025 Title Advisor Regulatory Sr. Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 06/10/2025 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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. Per 19.15.7.16 NMAC, OXY USA Inc. certifies that they will not introduce any additives that contain PFAS APPROVED WITH CONDITIONS chemicals in the completion or recompletion of the subject well. (Continued on page 2)

Released to Imaging: 9/30/2025 12:48:58 PM Approval Date: 06/10/2025

*(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.

Additional Operator Remarks

Location of Well

0. SHL: NENW / 506 FNL / 2036 FWL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.382881 / LONG: -103.716356 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 0 FNL / 2314 FWL / TWSP: 22S / RANGE: 32E / SECTION: 30 / LAT: 32.369761 / LONG: -103.715458 (TVD: 12174 feet, MD: 17582 feet)
PPP: NENW / 100 FNL / 2310 FWL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.384002 / LONG: -103.715466 (TVD: 12174 feet, MD: 12572 feet)
PPP: NESW / 2642 FNL / 2312 FWL / TWSP: 22S / RANGE: 32E / SECTION: 19 / LAT: 32.377017 / LONG: -103.715462 (TVD: 12174 feet, MD: 14946 feet)
BHL: SESW / 20 FSL / 2310 FWL / TWSP: 22S / RANGE: 32E / SECTION: 30 / LAT: 32.355311 / LONG: -103.71545 (TVD: 12174 feet, MD: 22837 feet)

BLM Point of Contact

Name: TENILLE C MOLINA Title: Land Law Examiner Phone: (575) 234-2224

Email: TCMOLINA@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.

<u>C-102</u>		42:29 AM En	State of New Mexico Energy, Minerals & Natural Resources Department				Revised July 9, 202			
Submit Electronically Via OCD Permitting			OIL CONSERVATION DIVISION						☑ Initial Submittal	
							Submitta Type:	1 ☐ Amended Rep	ort	
							- 7 - 7	☐ As Drilled		
					WELL LOCAT	TON INFORMATION				
API Nu 30-025	mber -55289		Pool Code 98296			Pool Name WC-02	25 G-09	S223	219D; WOI	LFCAM
Propert	y Code 322423		Property N	ame	LOST TAN	K 30-19 FED COM			Well Number 42.	Н
OGRIE	No. 16696		Operator N	ame	OXY	Y USA INC.			Ground Level El 3618	
Surface	Owner: 🗆	State □ Fee □	Tribal 🗹 Fed	leral		Mineral Owner:	State Fee	🗆 Tribal 🗷	Federal	
					Crombo	and I negation				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) I	Longitude (NAD 83)	County
C	19	22S	32E	201	506 NORTH	2036 WEST	32.3828	´	-103.716356°	LEA
					Bottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)		Longitude (NAD 83)	County
N	30	22S	32E	20 SOUTH 2310 WEST 32.35531		311°	-103.715450°	LEA		
D. II	. 1 .	Tren De		l n c :	W 11 A DI		II 'a ayan l	C 11.1	<i>.</i> . 0.1	
	Dedicated Acres 640 Infill or Defining Well INFILL			Defining Well API 32H - 30-025-47944 Overlapping Spacing Unit (Y/N) N/A Consolidation Code N/A						
Order 1	Numbers.	N/A				Well setbacks are ur	nder Common (Ownership:	∵ □Yes ⊠No	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) 1	Longitude (NAD 83)	County
N	18	22S	32E		300 SOUTH	2310 WEST	32.3851	102°	-103.715466°	LEA
	1	1			First Ta	ke Point (FTP)		<u> </u>		ļ.
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	AD 83) I	Longitude (NAD 83)	County
С	19	22S	32E		100 NORTH	2310 WEST	32.3840	002°	-103.715466°	LEA
			_		Last Ta	ke Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	I .	Longitude (NAD 83)	1
N	30	22S	32E		100 SOUTH	2310 WEST	32.3555	531°	-103.715451°	LEA
Unitize	d Area or Ai	ea of Uniform	Interest N	Spacing	g Unit Type 🕝 Horiz	ontal 🗆 Vertical	Grou	nd Floor Ele	evation: 3618.6'	
OPER/	ATOR CERT	TIFICATIONS				SURVEYOR CERTIF	ICATIONS			
my know organiza includin	rledge and beli ution either ow g the proposed	ief , and, if the we ns a working inte l bottom hole loca	ll is a vertical or rest or unleased ttion or has a rig	· directional mineral inte ht to drill th	erest in the land	I hereby certify that the we surveys made by me or un my belief.				ect to the best of

interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore

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 formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Melissa Guidry 03/09/25

Signature Melissa Guidry

Printed Name

Signature and Seal of Professional Surveyor 23782

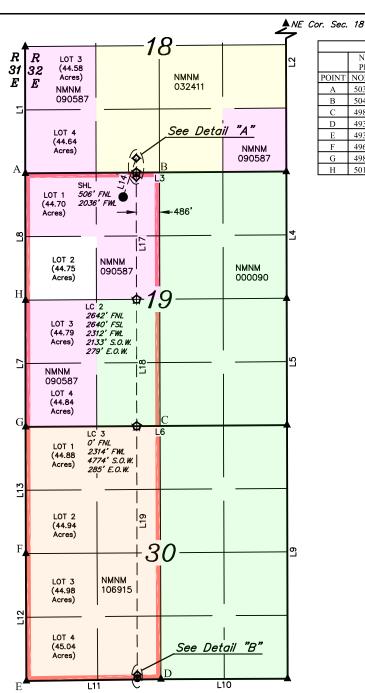
Certificate Number Date of Survey melissa_guidry@oxy.com

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.

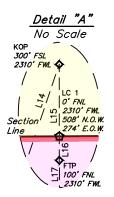
July 18, 2023

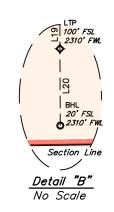
Email Address

Well Number Property Name Drawn By Revised By LOST TANK 30-19 FED COM 42H D.J.S. 08-01-23 REV. 1 T.I.R. 09-13-24 (UPDATE FORMAT)



HSU COORDINATES							
	NAD 27 N.	M. STATE	NAD 83 N.M. STATE				
	PLANE, EA	AST ZONE	PLANE, EAST ZONE				
POINT	NORTHING	EASTING	NORTHING	EASTING			
Α	503996.27'	688575.56'	504056.69'	729757.94'			
В	504027.29'	691370.49'	504087.71'	732552.89'			
С	498746.53'	691405.57'	498806.82'	732588.12'			
D	493473.55'	691443.93'	493533.69'	732626.62'			
E	493422.39'	688641.46'	493482.53'	729824.14'			
F	496076.50'	688619.02'	496136.71'	729801.63'			
G	498715.68'	688604.05'	498775.96'	729786.58'			
Н	501354.62'	688589.82'	501414.97'	729772.28'			





LINE TABLE						
LINE	DIRECTION	LENGTH				
L1	N00°04'43"W	2638.22'				
L2	N00°09'21"W	5284.30'				
L4	N00°08'14"W	2640.78				
L5	N00°09'30"W	2641.43'				
L6	S89°36'36"W	5443.96'				
L7	N00°04'10"W	2639.54				
L8	N00°04'12"W	2642.25				
L9	N00°08'37"W	5284.27				
L10	S89°49'38"W	2638.59				
L11	S89°11'42"W	2803.46				
L12	N0014'43"W	2654.77				
L13	N00°05'09"W	2639.78'				
L14	N18*41'28"E	853.26'				
L15	S00°04'36"E	300.00'				
L16	S00°04'36"E	100.00'				
L17	S00°07'00"E	2541.62'				
L18	S00°07'00"E	2640.34				
L19	S00°07'00"E	5177.83				
L20	S00°14'43"E	80.00'				

= SURFACE HOLE LOCATION = KICK OFF POINT/TAKE POINTS 8 = LEASE CROSSING. = BOTTOM HOLE LOCATION = SECTION CORNER LOCATED = HORIZONTAL SPACING UNIT

N.O.W. = NORTH OF WELL. S.O.W. = SOUTH OF WELL. E.O.W. = EAST OF WELL.

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



SCALE

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°22'58.37" (32.382881°)
LONGITUDE = -103°42'58.88" (-103.716356°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°22'57.93" (32.382759°)
LONGITUDE = -103°42'57.12" (-103.715867°)
STATE PLANE NAD 83 (N.M. EAST)
N: 503573.01' E: 731795.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 503512.60' E: 690613.34'

IN COCCIZION DI COCCIDIO.	
NAD 83 (LEASE CROSSING 2)	
LATITUDE = 32°22'37.26" (32.377017°)	
LONGITUDE = -103°42'55.66" (-103.715462'	0
NAD 27 (LEASE CROSSING 2)	
LATITUDE = 32°22'36.82" (32.376895°)	
LONGITUDE = -103°42'53.91" (-103.714974'	0
STATE PLANE NAD 83 (N.M. EAST)	
N: 501441.24' E: 732083.81'	
STATE PLANE NAD 27 (N.M. EAST)	_
N: 501380.89' E: 690901.35'	

NAD 83 (KICK OFF POINT)
LATITUDE = 32°23'06.37" (32.385102°)
LONGITUDE = -103°42'55.68" (-103.715466°)
NAD 27 (KICK OFF POINT)
LATITUDE = 32°23'05.92" (32.384979°)
LONGITUDE = -103°42'53.92" (-103.714978°)
STATE PLANE NAD 83 (N.M. EAST)
N: 504382.27' E: 732065.73'

STATE PLANE NAD 27 (N.M. EAST)

N: 504321.84' E: 690883.35

N: 498741.16' E: 690917.75

111001021101 210000000
NAD 83 (LEASE CROSSING 3)
LATITUDE = 32°22'11.14" (32.369761°)
LONGITUDE = -103°42'55.65" (-103.715458°)
NAD 27 (LEASE CROSSING 3)
LATITUDE = 32°22'10.70" (32.369638°)
LONGITUDE = -103°42'53.89" (-103.714971°)
STATE PLANE NAD 83 (N.M. EAST)
N: 498801.44' E: 732100.29'
STATE PLANE NAD 27 (N.M. EAST)

NAD 83 (LEASE CROSSING 1)
LATITUDE = 32°23'03.40" (32.384277°)
LONGITUDE = -103°42'55.68" (-103.715466°
NAD 27 (LEASE CROSSING 1)
LATITUDE = 32°23'02.96" (32.384154°)
LONGITUDE = -103°42'53.92" (-103.714978°

STATE PLANE NAD 83 (N.M. EAST) N: 504082.32' E: 732067.40' STATE PLANE NAD 27 (N.M. EAST) N: 504021.90' E: 690885.01

NAD 83 (LAST TAKE POINT) LATITUDE = 32°21'19.91" (32.355531°) LONGITUDE = -103°42'55.62" (-103.715451 NAD 27 (LAST TAKE POINT) LATITUDE = 32°21'19.47" (32.355408° LONGITUDE = -103°42'53.87" (-103.714963°) STATE PLANE NAD 83 (N.M. EAST) N: 493624.67' E: 732132.60

STATE PLANE NAD 27 (N.M. EAST)

N: 493564.52' E: 690949.91

NAD 83 (FIRST TAKE POINT) LATITUDE = $32^{\circ}23'02.41" (32.384002^{\circ})$ LONGITUDE = -103°42'55.68" (-103.715466° NAD 27 (FIRST TAKE POINT) LATITUDE = 32°23'01.97" (32.383880°) LONGITUDE = -103°42'53.92" (-103.714978°) STATE PLANE NAD 83 (N.M. EAST) N: 503982.34' E: 732067.95 STATE PLANE NAD 27 (N.M. EAST) N: 503921.92' E: 690885.56

NAD 83 (BOTTOM HOLE LOCATION) LATITUDE = 32°21'19.12" (32.355311°) LONGITUDE = -103°42'55.62" (-103.715450° NAD 27 (BOTTOM HOLE LOCATION) LATITUDE = 32°21'18.68" (32.355189° LONGITUDE = -103°42'53.87" (-103.714963°) STATE PLANE NAD 83 (N.M. EAST) N: 493544.68' E: 732133.2 STATE PLANE NAD 27 (N.M. EAST) N: 493484.54' E: 690950.58

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: OXY USA INC. OGRID: 16696						_ Date: _(0 3/_1	0/25
II. Type: ☑ Original □	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NN	МАС □ О	ther.	
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s					wells pro	posed to b	oe dril	led or proposed to
Well Name API ULSTR		Footages	Anticipated Oil BBL/D	Gas MCF/D Produce		Anticipated duced Water BBL/D		
SEE ATTACHED								
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	le: Provide the	following informat	tion for each nev	v or recompleted w	vell or se			(.9(D)(1) NMAC] sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Da		First Production Date
SEE ATTACHED								
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Management during active and planne	tices: Attac of 19.15.27.8	h a complete descr NMAC. Z Attach a complet	iption of the act	tions Operator wil	l take to	comply w	vith th	e requirements of

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 Gat	thering System (NG	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \square 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 \square will \square 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 \square does \square 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:

one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
1) Operator checks this	box, Operator was serect one of the following.
Well Shut-In. ☐ Operat	tor 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	
	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es 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

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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)

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: Melissa Guidry
Printed Name: Melissa Guidry
Title: Regulatory Advisor Sr.
E-mail Address: melissa_guidry@oxy.com
Date: 03/10/25
Phone: 713-497-2481
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

V. Anticipated Schedule

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
LOST TANK 30_19 FED COM 41H	Pending	C-19-T22S-R32E	522 FNL 2010 FWL	1600	6000	5500
LOST TANK 30_19 FED COM 42H	Pending	C-19-T22S-R32E	506 FNL 2036 FWL	1600	6000	5500

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
LOST TANK 30_19 FED COM 41H	Pending	1/15/2026	02/15/2026	04/01/2026	04/16/2026	04/17/2026
LOST TANK 30_19 FED COM 42H	Pending	1/15/2026	02/15/2026	04/01/2026	04/16/2026	04/17/2026

Central Delivery Point Name: Lost Tank 18 Central Processing Facility

Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility and fluids will be sent to the facility after initial flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility will be dedicated to MarkWest Energy West Texas Gas Company LLC ("MarkWest") and will be connected to MarkWest's high pressure gathering system located in Lea and Eddy Counties, New Mexico and Loving and Culberson Counties, TX. OXY USA INC. ("OXY") will provide (periodically) to MarkWest a production forecast for wells being sent to their system. In addition, OXY and MarkWest will have periodic conference calls to discuss changes to production forecasts arising out of changes to drilling and completion schedules. Gas from these wells will be processed at MarWest's Preakness and Tornado Processing Plants located in Culberson County, TX and Loving County, Texas respectively. The actual flow of the gas will be based on compression operating parameters and gathering system pressures

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on MPLX system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s). Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

VIII. Best Management Practices

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

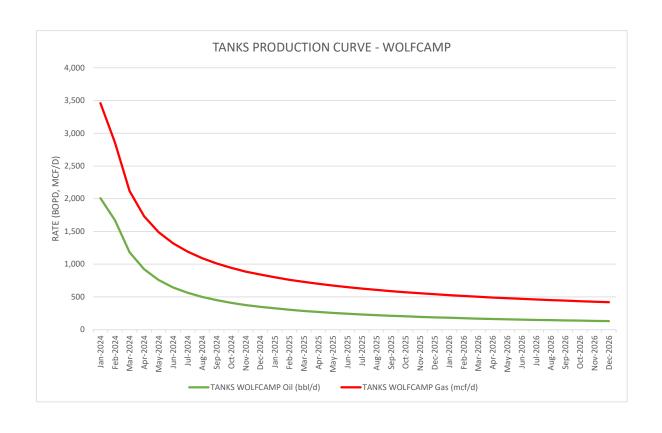
Compressed Natural Gas - On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

NGL Removal - On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

	TANKS WOLFCAMP					
	Oil (bbl/d)	Gas (mcf/d)				
Jan-2024	2,008	3,461				
Feb-2024	1,671	2,856				
Mar-2024	1,182	2,118				
Apr-2024	921	1,733				
May-2024	758	1,490				
Jun-2024	644	1,317				
Jul-2024	562	1,190				
Aug-2024	500	1,091				
Sep-2024	450	1,011				
Oct-2024	410	944				
Nov-2024	376	887				
Dec-2024	349	841				
Jan-2025	325	800				
Feb-2025	304	763				
Mar-2025	286	730				
Apr-2025	270	700				
May-2025	256	674				
Jun-2025	243	649				
Jul-2025	231	627				
Aug-2025	221	607				
Sep-2025	211	589				
Oct-2025	203	571				
Nov-2025	194	555				
Dec-2025	187	541				
Jan-2026	181	528				
Feb-2026	175	515				
Mar-2026	169	502				
Apr-2026	163	491				
May-2026	158	480				
Jun-2026	153	470				
Jul-2026	149	460				
Aug-2026	145	451				
Sep-2026	141	442				
Oct-2026	137	434				
Nov-2026	133	426				
Dec-2026	130	419				



Received by OCD: 8/29/2025 7:42:29 AM

Page 17 of 189

Oxy USA Inc. - Lost Tank 30_19 Fed Com 42H Drill Plan

1. Geologic Formations

TVD of Target (ft):	12174	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22837	Deepest Expected Fresh Water (ft):	848

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	848	848	
Salado	1140	1140	Salt
Castile	2839	2839	Salt
Delaware	4614	4614	Oil/Gas/Brine
Bell Canyon	4680	4680	Oil/Gas/Brine
Cherry Canyon	5529	5529	Oil/Gas/Brine
Brushy Canyon	6747	6747	Losses
Bone Spring	8534	8510	Oil/Gas
Bone Spring 1st	9629	9589	Oil/Gas
Bone Spring 2nd	10280	10230	Oil/Gas
Bone Spring 3rd	11305	11239	Oil/Gas
Wolfcamp	11773	11702	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	1D	T	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	908	0	908	13.375	54.5	J-55	ВТС
Intermediate	9.875	0	11477	0	11406	7.625	26.4	L-80 HC	ВТС
Production	6.75	0	22837	0	12174	5.5	20	P-110	Sprint-SF

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

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

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

Occidental - Permian New Mexico

Page 18 of 189

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

Received by OCD: 8/29/2025 7:42:29 AM

Page 19 of 189

Occidental - Permian New Mexico

Lost Tank 30_19 Fed Com 42H

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	948	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	601	1.68	13.2	5%	6,997	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1248	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	672	1.84	13.3	25%	10,977	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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

Occidental - Permian New Mexico

Lost Tank 30_19 Fed Com 42H

Page 20 of 189

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	✓	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		11406
9.875" Hole	9.875" Hole 13-5/8"	5/8" 5M		Pipe Ram		250 psi / 5000 psi	
			Double Ram		✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	✓	100% of working pressure	
				Blind Ram			
6.75" Hole 13	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	12174
				Double Ram		230 psi / 10000 psi	
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

5M Annular BOP Request

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

Occidental - Permian New Mexico

Lost Tank 30_19 Fed Com 42H

Page 21 of 189

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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

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

Received by OCD: 8/29/2025 7:42:29 AM

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Page 22 of 189

Occidental - Permian New Mexico

5. Mud Program

Section	Depth -	Depth - MD Depth - TVD		TVD		Weight	Vigogity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	908	0	908	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	908	11477	908	11406	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11477	22837	11406	12174	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

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

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

6. Logging and Testing Procedures

Loggi	ing, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
res	Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

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

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Lost Tank 30_19 Fed Com 42H

7. Drilling Conditions

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Condition	Specify what type and where?
BH Pressure at deepest TVD	8547 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	178°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present
Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Vac
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1775 bbls

Page 23 of 189

Page 24 of 189

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design A

Pad Name: LSTTNK_22S32E_1902

SHL: 2010' FNL 522' FWL, Sec 19, T22S-R32E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design A –OXY –3S Slim v7.2.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Well Name	APD#	Surface		Interm	nediate	Production	
vveii ivaille	APD#	MD	TVD	MD	TVD	MD	TVD
Lost Tank 30_19 Fed Com 41H	N/A - New Permit	915	915	11558	11431	22911	12174
Lost Tank 30_19 Fed Com 42H	N/A - New Permit	908	908	11477	11406	22837	12174

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
	_
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
	_
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
15 WOII 100atou III Offtical Cave/Ixalst!	11

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Pad Review Document - Blanket Design A

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	855	855	
Salado	1149	1149	Salt
Castile	2862	2862	Salt
Delaware	4583	4583	Oil/Gas/Brine
Bell Canyon	4665	4665	Oil/Gas/Brine
Cherry Canyon	5494	5494	Oil/Gas/Brine
Brushy Canyon	6757	6738	Losses
Bone Spring	8545	8487	Oil/Gas
Bone Spring 1st	9657	9574	Oil/Gas
Bone Spring 2nd	10302	10205	Oil/Gas
Bone Spring 3rd	11337	11218	Oil/Gas
Wolfcamp	11827	11698	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	956	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	611	1.68	13.2	5%	7,007	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1251	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	671	1.84	13.3	25%	11,058	Circulate	Class C+Ret.





1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

Design Variation "A1"

		MD	T	VD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	втс
Intermediate	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

^{*}Curve could be in intermediate or production section

Design Variation "A2" - Option to Pivot to Design "B" for Contingency 4S

			MD		TVD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	ВТС
Intermediate	12.25†	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

^{*}Curve could be in intermediate or production section

†If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate at some point during the hole section. Cement volumes will be updated on C103 submission.

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





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

§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.

2. Trajectory / Boundary Conditions

	MD TVD					
Section	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)	Max. Angle	Max. Planned DLS
Surface	0	1200	0	1200	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92°‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92°‡	12°/100 ft ‡

[‡] Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.





3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	819	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1111	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

^{*}Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

Design Variation "A2"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1023	1.33	14.8	100%	ı	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1293	1.71	13.3	25%	1	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

^{*}Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

<u>As Reviewed and Approved by BLM on Feb 8, 2024</u>: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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





4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:	Deepest TVD Depth (ft) per Section:
	13-5/8"	5M	Annular		✓	70% of working pressure	
		5M	Blind Ram ✓				
9.875" Hole			Pipe Ram			250 psi / 5000 psi	12775**
		JIVI	Double Ram		✓	230 psi / 3000 psi	
			Other*				
	13-5/8"	5M	Annular		✓	100% of working pressure	
		10M	Blind Ram		✓		
6.75" Hole			Pipe Ram			250 psi / 10000 psi	12775
			Double Ram		√	200 psi / 10000 psi	
			Other*				

^{*}Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

5M Annular BOP Request

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

^{**}Curve could be in intermediate or production section





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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Υ

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

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





5. Mud Program & Drilling Conditions

Santin	Depth - MD		Depth - TVD		T	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

^{*}Curve could be in intermediate or production section*

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

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilize gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITO III

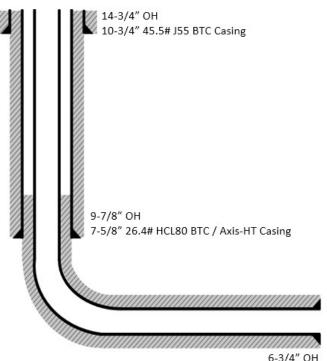
Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.





6. Wellbore Diagram(s)

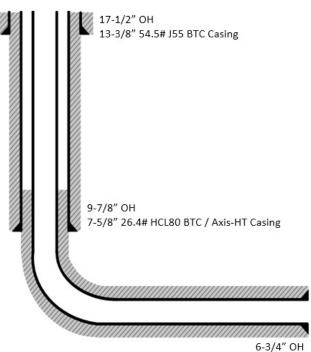
Design Variation "A1"



5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG

Design Variation "A2"



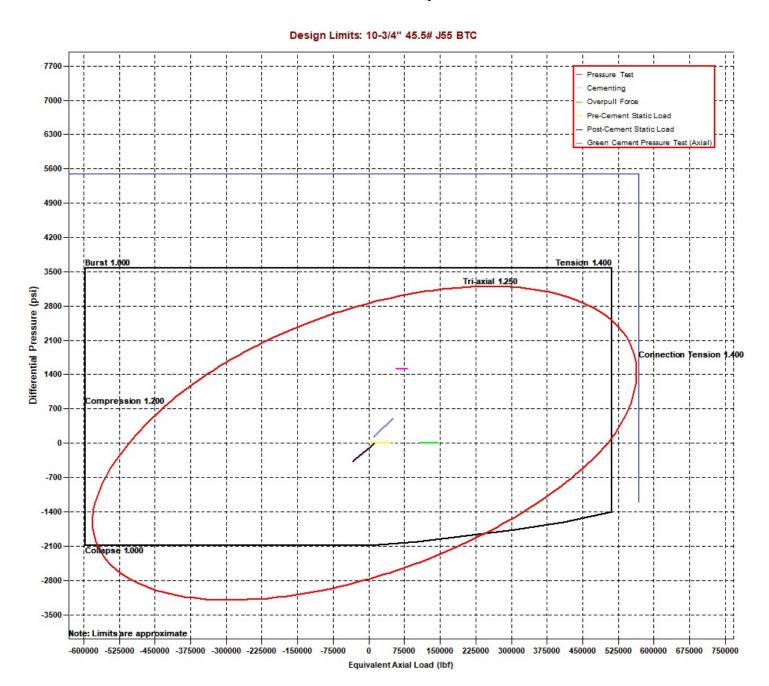
5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG



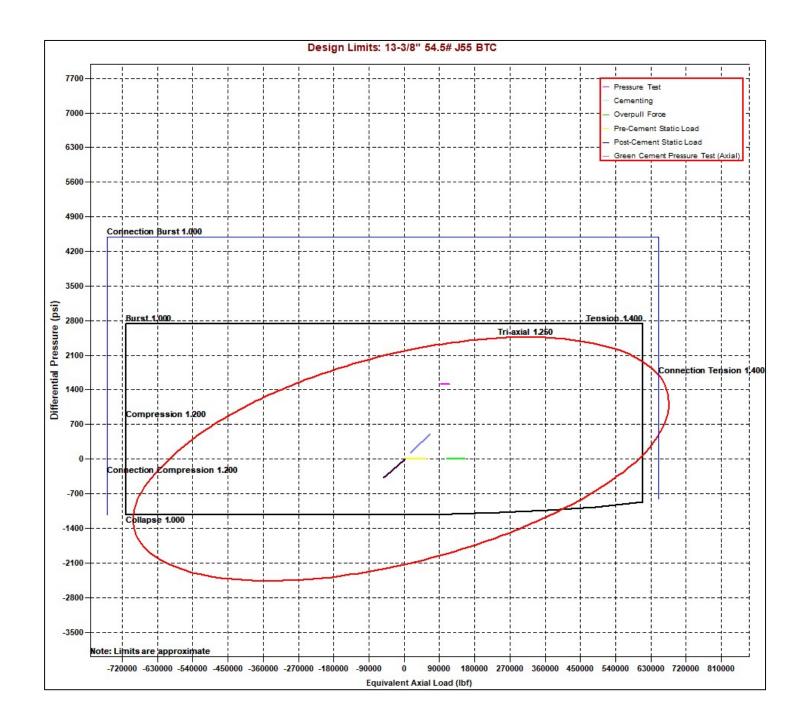


7. Landmark StressCheck Screenshots - Triaxial Output



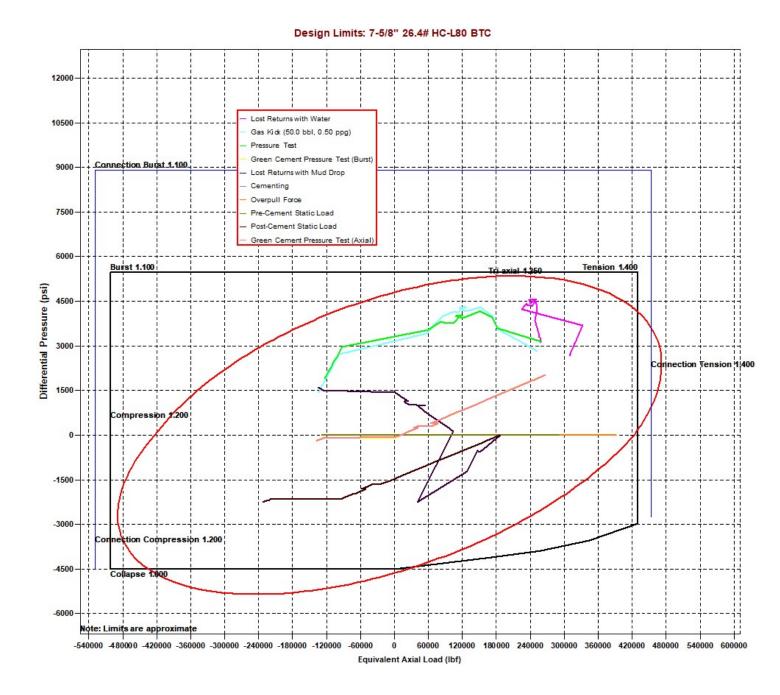








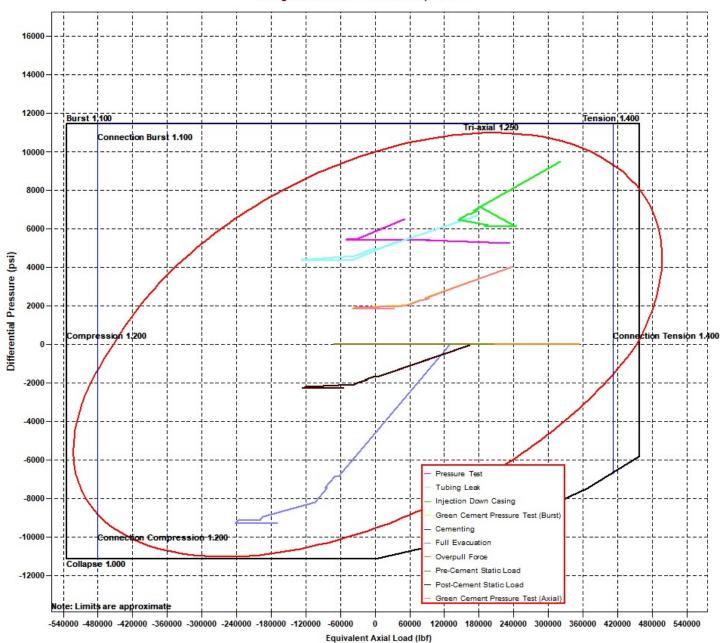










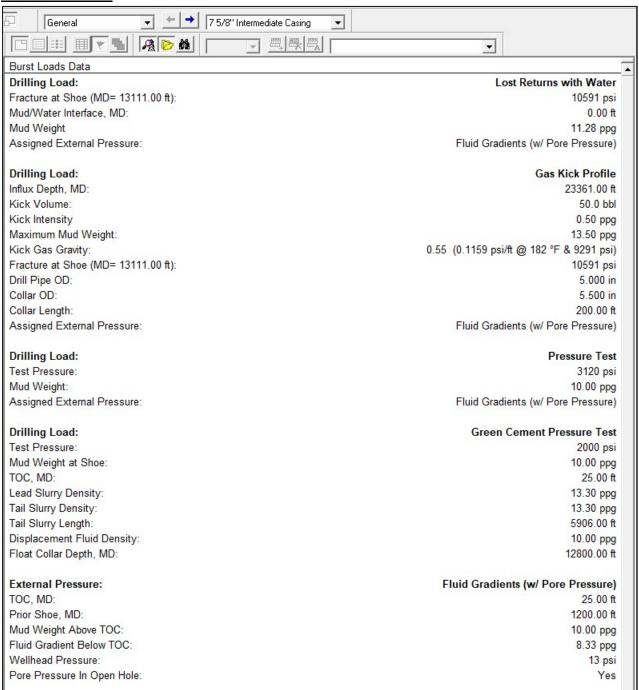






8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

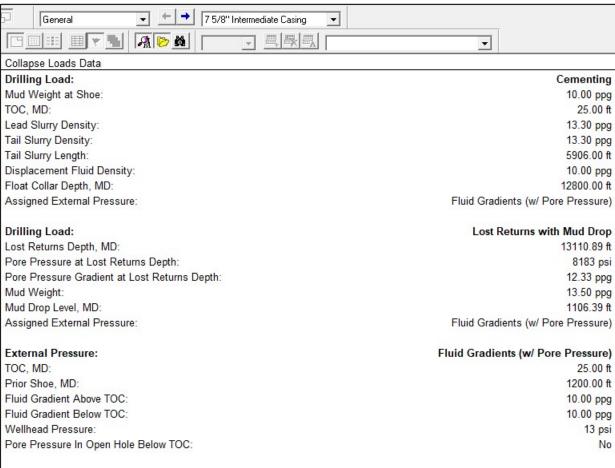
Burst Load Cases



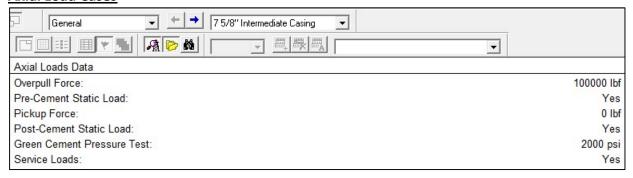




Collapse Load Cases



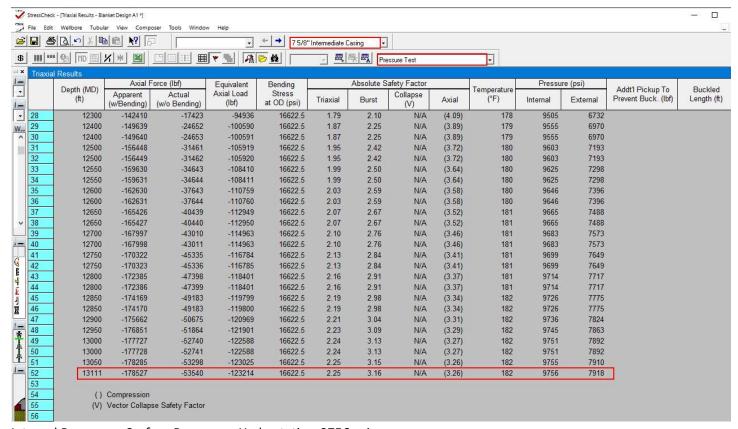
Axial Load Cases







9. Landmark StressCheck Screenshot - Int. Casing Triaxial Results Table (Pressure Test)



Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.





10. Intermediate Non-API Casing Spec Sheet



Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mec	hanical	Properties			
Minimum Yield Strength	psi. 80,000				
Maximum Yield Strength	psi.	psi. 95,000			
Minimum Tensile Strength	psi.	95,000			
	Dimei	nsions			
		Pipe	AXIS HT		
Outside Diameter	in.	7.625	8.500		
Wall Thickness	in.	0.328	628		
Inside Diameter	in.	6.969			
Standard Drift	in.	6.844	6.844		
Alternate Drift	in.	-	121		
Plain End Weight	lbs/ft.		•		
Nominal Linear Weight	lbs/ft.	26.40	6 5 6		
	Perfor	mance			
		Pipe	AXIS HT		
Minimum Collapse Pressure	psi.	4,320	5 = 5		
Minimum Internal Yield Pressure	psi.	6,020	6,020		
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	626		
Joint Strength	lbs.	(5)	635 x 1,000		
M	ake-Up	Torques			
		Pipe	AXIS HT		
Optimum Make-Up Torque	ft/lbs.	(A)	8,000		
Maximum Operational Torque	ft/lbs.	(3 4)	25,000		

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600, www.axispipeandtube.com





11. Production Non-API Casing Spec Sheets





Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: •
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	MS				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

Connection Data

Connection OD	6.050 in.
Coupling Length	7.714 in.
Connection ID	4.778 in.
Make-up Loss	3.775 in.
Threads per inch	3.40
Connection OD Option	Ms

Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 fi
External Pressure Capacity	12,300 psi
Coupling Face Load	273,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

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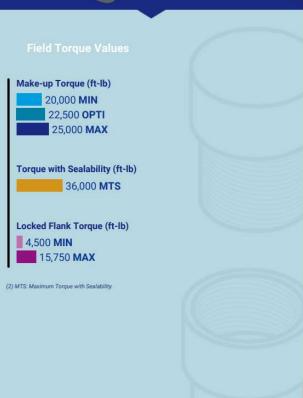
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11,100



CONNECTION DATA SHEET





Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	į.
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi

CONNECTION PROPERTIES .

Pipe Body Yield Strength Internal Yield Pressure

Collapse Pressure

		Semi-Fl
5.783	in.	
4.718	in.	
5.965	in.	
90	% Pipe Body	
90	% Pipe Body	
100	% Pipe Body	
100	% Pipe Body	
	4.718 5.965 90 90	4.718 in. 5.965 in. 90 % Pipe Body 90 % Pipe Body 100 % Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

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



Scan the QR code





DICCOLOR OF

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	‡VST P110MY	4.653	87.5	DWC/C-HT-IS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type		API 5CT
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

Connection Type	Semi-Pren	nium T&C
Connection OD (nom)	6.050	in
Connection ID (nom)	4.778	in
Make-Up Loss	4.125	in
Coupling Length	9.250	in
Critical Cross Section	5.828	sq.in
Tension Efficiency	89.1%	of pipe
Compression Efficiency	88.0%	of pipe
Internal Pressure Efficiency	86.1%	of pipe
External Pressure Efficiency	100.0%	of pipe

Yield Strength	649	klb
Parting Load	729	klt
Compression Rating	641	klt
Min. Internal Yield Pressure	12,360	ps
External Pressure Resistance	12,090	ps
Maximum Uniaxial Bend Rating	91.7	°/100 f
Reference String Length w 1.4 Design Factor	22,890	ft

FIELD TORQUE VALUES		
Min. Make-up torque	16,600	ft.ll
Opti. Make-up torque	17,950	ft.It
Max. Make-up torque	19,300	ft.lt
Min. Shoulder Torque	1,660	ft.lt
Max. Shoulder Torque	13,280	ft.lt
Max. Delta Turn	0.200	Turns
†Maximum Operational Torque	23,800	ft.lt
†Maximum Torsional Value (MTV)	26,180	ft.lt

† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material.

‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"

Need Help? Contact: tech.support@vam-usa.com

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Sheet Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

		ı	MD	Т	VD				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	ВТС
Intermediate 1	12.25†	0	4832	0	4832	10.75	45.5	L-80 HC	BTC-SC
Intermediate 2	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis-HT
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

^{*}Curve could be in intermediate or production section

†Oxy requests the option to set intermediate 1 casing shallower, yet still below the salts, if required due to losses or hole conditions. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run incase hole conditions merit pumping a second stage cement job to comply with the permitted top of cement. If cement is circulated to surface during first stage, Oxy will drop a cancelation cone and not pump the second stage. Well specific depths for the pad will be included with the casing setting depths information submitted for review.

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

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

§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.





2. Trajectory / Boundary Conditions

	ME)	TVI	D		
Section	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)	Max. Angle	Max. Planned DLS
Surface	0	1200	0	1200	5°	1°/100 ft
Salt	0	4832	0	4832	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92°‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92°‡	12°/100 ft ‡

[‡] Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.

3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1253	1.33	14.8	100%	12	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,332	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	676	1.73	12.9	50%	15	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 15 - Tail	793	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 25 - Tail BH	1002	1.71	13.3	25%		Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	609	1.84	13.3	25%	12,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail	TBD	1.84	13.3	50%	500' inside previcing	Circulate	Class C+Ret.

^{*}Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

<u>As Reviewed and Approved by BLM on Feb 8, 2024</u>: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.





Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	1	Tested to:	TVD Depth (ft) per Section:	
			5M	Annular	✓	70% of working pressure	
			Blind Ram	✓			
12.25" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	4832	
		JIVI	Double Ram	✓	230 psi / 3000 psi		
			Other*				
		5M	Annular	✓	70% of working pressure		
	13-5/8"	, 5M	Blind Ram	✓		12102	
9.875" Hole			Pipe Ram		250 psi / 5000 psi		
			Double Ram	✓	230 psi / 3000 psi		
			Other*				
		5M	Annular	✓	100% of working pressure		
			Blind Ram	✓			
6.75" Hole	13-5/8"	10M	Pipe Ram		250 psi / 10000 psi	12775	
			Double Ram	✓	200 psi / 10000 psi		
			Other*				

^{*}Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

5M Annular BOP Request

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

^{**}Curve could be in intermediate or production section





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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Υ

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

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





5. Mud Program & Drilling Conditions

See Africa	Depth - MD		Depth - TVD		Т	Weight	5 7* •4	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	1200	4832	1200	4832	Saturated Brine-Based or Oil-Based Mud	8.0 – 10.0	35-45	N/C
Intermediate 2	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

^{*}Curve could be in intermediate or production section*

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

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilizing gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

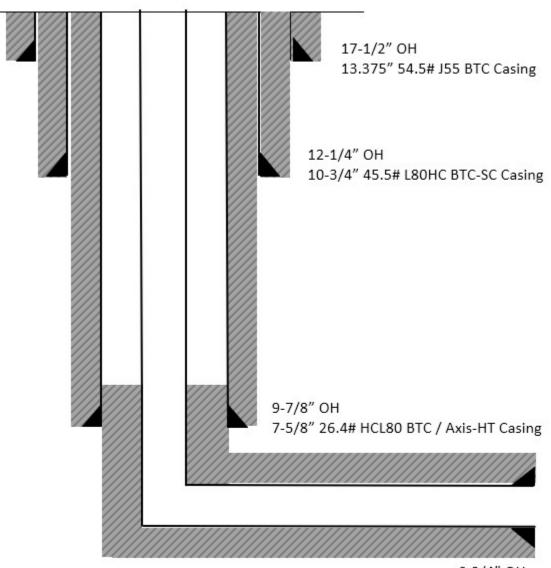
What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.





6. Wellbore Diagram

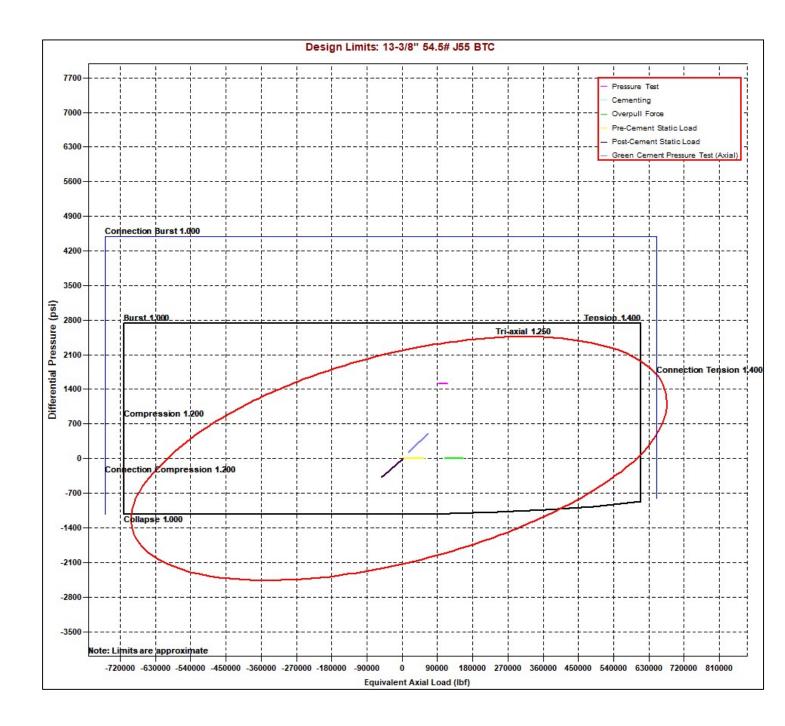


6-3/4" OH 5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing TOC @ 500' Above Prev Csg.





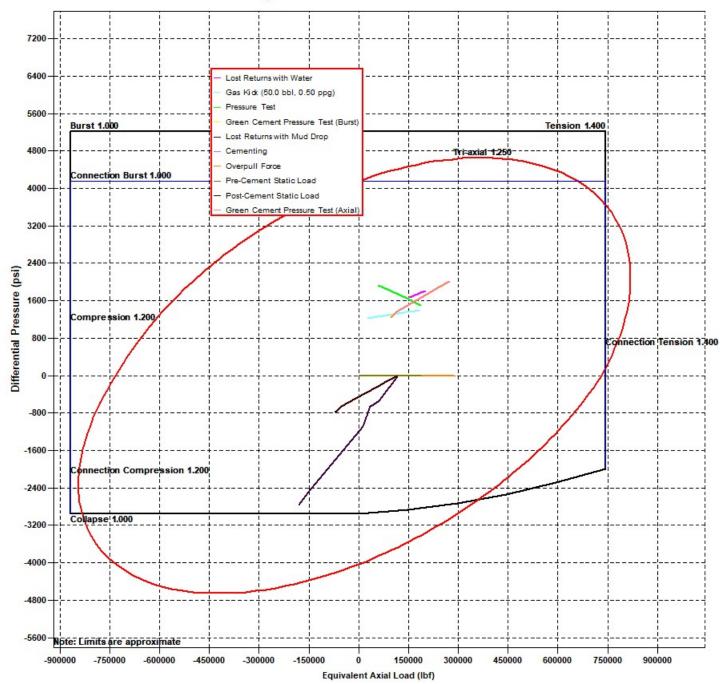
7. Landmark StressCheck Screenshots - Triaxial Output





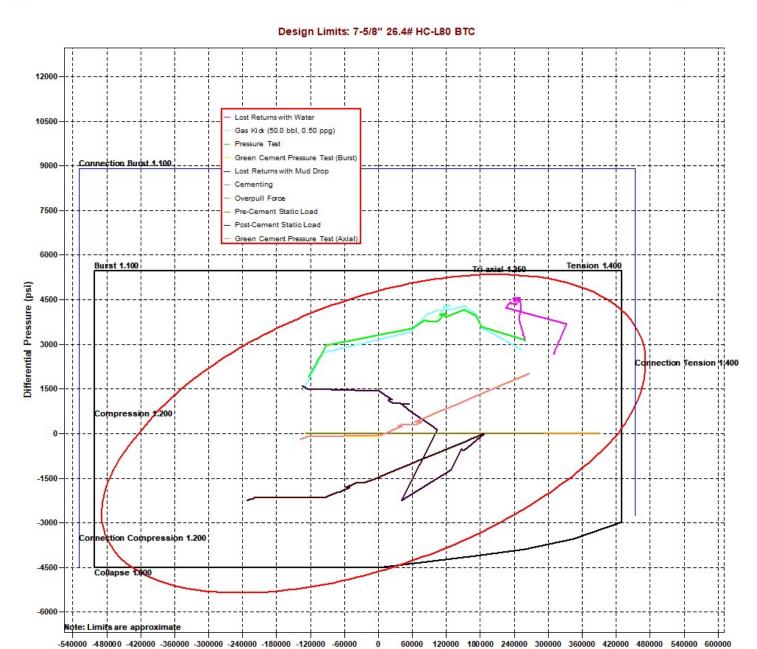


Design Limits: 10-3/4" 45.5# HC-L80 BTC-SC





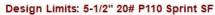


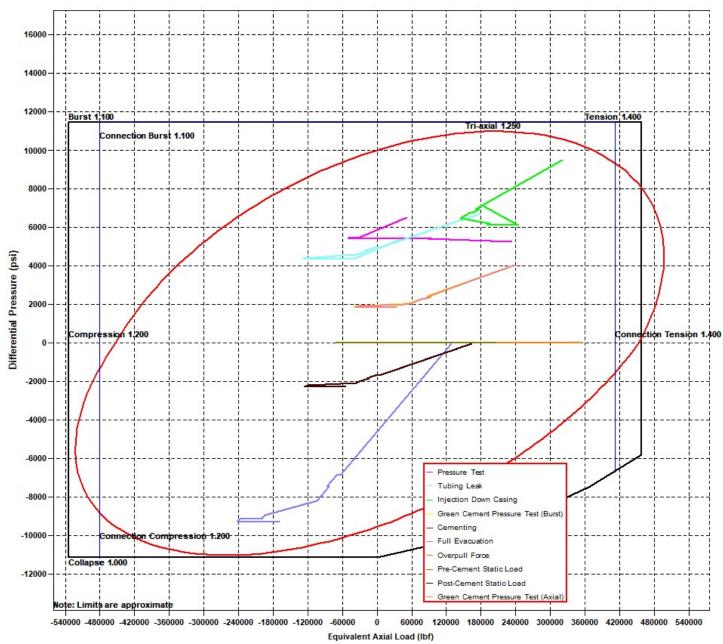


Equivalent Axial Load (lbf)







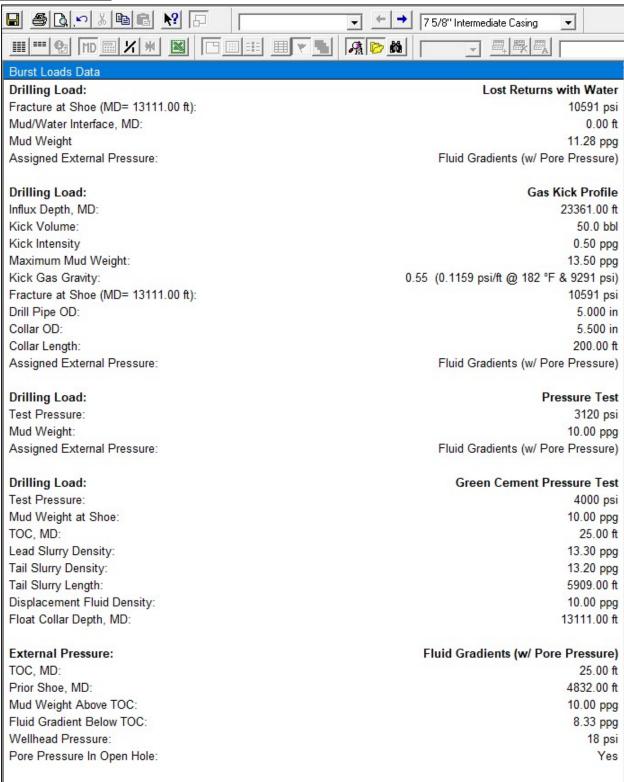






8. Landmark StressCheck Screenshots – Inputs for Intermediate 2 CSG Load Cases

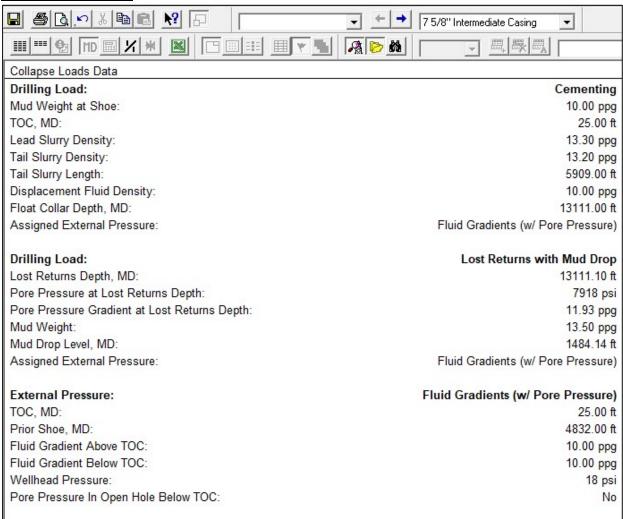
Burst Load Cases



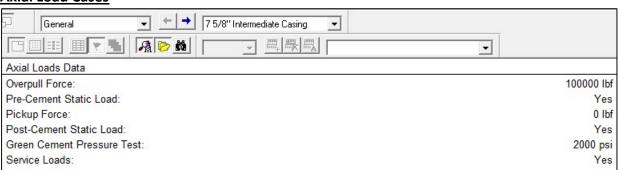




Collapse Load Cases



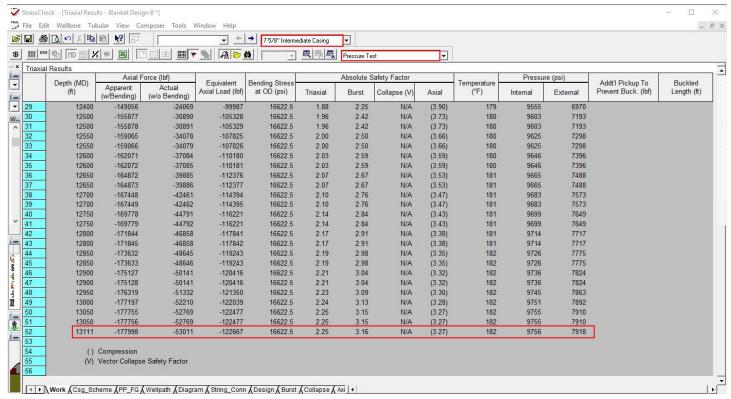
Axial Load Cases







9. Landmark StressCheck Screenshot – Int. Casing Triaxial Results Table (Pressure Test)



Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.





Printed on: 06/19/2023

10. Intermediate Non-API Casing Spec Sheet

Tenaris **API BTC -Special** Clearance

Coupling Pipe Body Grade: J55 (Casing) Grade: J55 (Casing) Body: Bright Green 1st Band: Bright Green 1st Band: White 2nd Band: -2nd Band: -3rd Band: -3rd Band: -4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

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

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	715 x1000 lb
Min. Internal Yield Pressure	3580 psi
Collapse Pressure	2090 psi
Max. Allowed Bending	23 °/100 ft

Connection Data

Titleduper III 5 Soil Strength 750 X100	Thread per In Connection OD	5 Joint Stree	ngth 796 x10	
---	------------------------------	---------------	--------------	--

Notes

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

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

(Sections 9 & 10) equations.

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

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Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mec	hanica	l Properties	
Minimum Yield Strength	psi.	80,000	
Maximum Yield Strength	psi.	95,000	
Minimum Tensile Strength	psi.	95,000	
	Dime	nsions	
		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	020
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	72	2
Plain End Weight	lbs/ft.		-
Nominal Linear Weight	lbs/ft.	26.40	6 % 6
	Perfor	mance	
		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	5 = 3
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	626
Joint Strength	lbs.	(5)	635 x 1,000
M	ake-Up	Torques	
		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	15.	8,000
Maximum Operational Torque	ft/lbs.	0.00	25,000

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11. Production Non-API Casing Spec Sheets





■Tenaris

TenarisHydril Wedge 461 ® MS



Coupling	Pipe Body
Grade: P1104CY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	MS				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

Connection Data

Geometry	
Connection OD	6.050 in
Coupling Length	7.714 in
Connection ID	4.778 in
Make-up Loss	3.775 in
Threads per inch	3.40
Connection OD Option	Ms

Performance	
Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 ft
External Pressure Capacity	12,300 psi
Coupling Face Load	273,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

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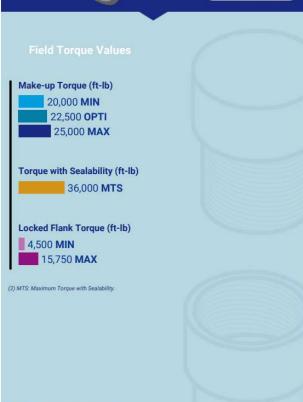
12,640

11,100 psi



CONNECTION DATA SHEET





Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	ři.
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb

CONNECTION PROPERTIES .

Internal Yield Pressure

Collapse Pressure

Connection Type	Semi-Pr	emium Integral	Semi-Flu
Nominal Connection OD	5.783	in.	
Nominal Connection ID	4.718	in.	
Make-up Loss	5.965	in.	
Tension Efficiency	90	% Pipe Body	
Compression Efficiency	90	% Pipe Body	
Internal Pressure Efficiency	100	% Pipe Body	
External Pressure Efficiency	100	% Pipe Body	

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

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



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DICCOLOR OF

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	‡VST P110MY	4.653	87.5	DWC/C-HT-IS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type		API 5CT
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

Connection Type	Semi-Premium	
Connection OD (nom)	6.050	in
Connection ID (nom)	4.778	in
Make-Up Loss	4.125	in
Coupling Length	9.250	in
Critical Cross Section	5.828	sq.in
Tension Efficiency	89.1%	of pipe
Compression Efficiency	88.0%	of pipe
Internal Pressure Efficiency	86.1%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	649	klt
Parting Load	729	klb
Compression Rating	641	klt
Min. Internal Yield Pressure	12,360	ps
External Pressure Resistance	12,090	psi
Maximum Uniaxial Bend Rating	91.7	°/100 ff
Reference String Length w 1.4 Design Factor	22,890	ft.

FIELD TORQUE VALUES		
Min. Make-up torque	16,600	ftJlt
Opti. Make-up torque	17,950	ft.lt
Max. Make-up torque	19,300	ft.lt
Min. Shoulder Torque	1,660	ft.lt
Max. Shoulder Torque	13,280	ft.lb
Max. Delta Turn	0.200	Turns
†Maximum Operational Torque	23,800	ft.lb
†Maximum Torsional Value (MTV)	26,180	ft.lb

† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material.

‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"

Need Help? Contact: tech.support@vam-usa.com

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

- DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. 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 (43 CFR part 3170 Subpart 3172, 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 the 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 wingvalves.
 - **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 contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
- 7. Oxy 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, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

Received by OCD: 8/29/2025 7:42:29 AM

Page 66 of 189

Oxy USA Inc. - Lost Tank 30_19 Fed Com 42H Drill Plan

1. Geologic Formations

TVD of Target (ft):	12174	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22837	Deepest Expected Fresh Water (ft):	848

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	848	848	
Salado	1140	1140	Salt
Castile	2839	2839	Salt
Delaware	4614	4614	Oil/Gas/Brine
Bell Canyon	4680	4680	Oil/Gas/Brine
Cherry Canyon	5529	5529	Oil/Gas/Brine
Brushy Canyon	6747	6747	Losses
Bone Spring	8534	8510	Oil/Gas
Bone Spring 1st	9629	9589	Oil/Gas
Bone Spring 2nd	10280	10230	Oil/Gas
Bone Spring 3rd	11305	11239	Oil/Gas
Wolfcamp	11773	11702	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	1D	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	908	0	908	13.375	54.5	J-55	BTC
Salt	12.25	0	4614	0	4614	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	11477	0	11406	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22837	0	12174	5.5	20	P-110	Sprint-SF

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

Page 67 of 189

Occidental - Permian New Mexico

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

Received by OCD: 8/29/2025 7:42:29 AM

Page 68 of 189

Occidental - Permian New Mexico

Lost Tank 30_19 Fed Com 42H

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	948	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,114	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	648	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	601	1.68	13.2	5%	6,997	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	975	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	672	1.84	13.3	25%	10,977	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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

Page 69 of 189

4. Pressure Control Equipment

BOP installed and		Min.				TVD Depth
tested before drilling	Size?	Required	Туре	1	Tested to:	(ft) per
which hole?	0.20	WP	. , , ,			Section:
		5M	Annular	√	70% of working pressure	
	13-5/8"	5M	Blind Ram			
12.25" Hole			Pipe Ram		250 psi / 5000 psi	4614
			Double Ram	✓	250 psi / 5000 psi	
			Other*			
	13-5/8"	5M	Annular	√	70% of working pressure	11406
		5M	Blind Ram	√		
9.875" Hole			Pipe Ram		250 psi / 5000 psi	
			Double Ram	✓	250 psi / 5000 psi	
			Other*			
	13-5/8"	5M	Annular	✓	100% of working pressure	
		10M	Blind Ram	✓		
6.75" Hole			Pipe Ram		250 psi / 10000 psi	12174
			Double Ram		230 psi / 10000 psi	
			Other*			

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

5M Annular BOP Request

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

Page 70 of 189

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

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

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

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5. Mud Program

	Depth		Depth - TVD			Weight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Loss
Surface	0	908	0	908	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	908	4614	908	4614	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4614	11477	4614	11406	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	11477	22837	11406	12174	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

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

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

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
res	Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

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

7. Drilling Conditions

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Condition	Specify what type and where?
BH Pressure at deepest TVD	8547 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	178°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present

Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	l ies
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1964 bbls

Page 72 of 189

Page 73 of 189

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design B

Pad Name: LSTTNK_22S32E_1902

SHL: 2010' FNL 522' FWL, Sec 19, T22S-R32E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design B –OXY –4S Slim v3.2.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Wall Name	APD#	Surf	face	Sa	lt	Interm	ediate	Produ	ction
Well Name	APD#	MD	TVD	MD	TVD	MD	TVD	MD	TVD
Lost Tank 30_19 Fed Com 41H	N/A - New Permit	915	915	4583	4583	11558	11431	22911	12174
Lost Tank 30_19 Fed Com 42H	N/A - New Permit	908	908	4614	4614	11477	11406	22837	12174

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Page 74 of 189

Occidental - Permian New Mexico Pad Review Document - Blanket Design A

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	855	855	
Salado	1149	1149	Salt
Castile	2862	2862	Salt
Delaware	4583	4583	Oil/Gas/Brine
Bell Canyon	4665	4665	Oil/Gas/Brine
Cherry Canyon	5494	5494	Oil/Gas/Brine
Brushy Canyon	6757	6738	Losses
Bone Spring	8545	8487	Oil/Gas
Bone Spring 1st	9657	9574	Oil/Gas
Bone Spring 2nd	10302	10205	Oil/Gas
Bone Spring 3rd	11337	11218	Oil/Gas
Wolfcamp	11827	11698	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	956	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,083	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	643	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	611	1.68	13.2	5%	7,007	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	978	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	671	1.84	13.3	25%	11,058	Circulate	Class C+Ret.

■Tenaris

API BTC -Special Clearance

Coupling Pipe Body

Grade: I 80-IC Grade: I 80-IC Body: Red 1st Band: Red 1st Band: Brown 2nd Band: Brown 2nd Band: -3rd Band: Pale Green 3rd Band: -4th Band: -

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

Pipe Body Data

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

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

Connection Data

Geometry	
Thread per In	5
Connection OD	11.250 in.
Hand Tight Stand Off	1 in.

Performance	
Joint Strength	1041 x1000 lb
Coupling Face Load	478 x1000 lb
Internal Pressure Capacity	4150 psi

Notes

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

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

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

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5M Annluar BOP Variance Request

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

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify tool pusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
- c. If impossible to pick up high enough to pull the string clear of the stack
- d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

BOP Break Testing Request

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

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1) Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations 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...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 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 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from API Standard 53 as it states "Pressure test affected BOP components following the disconnection or repair of any well-pressure containment seal in the wellhead or BOP stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - ➤ Between the check valve and the kill line
 - ➤ Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - ➤ Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell teit is performed against the upper pipe rams testing all thlee breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

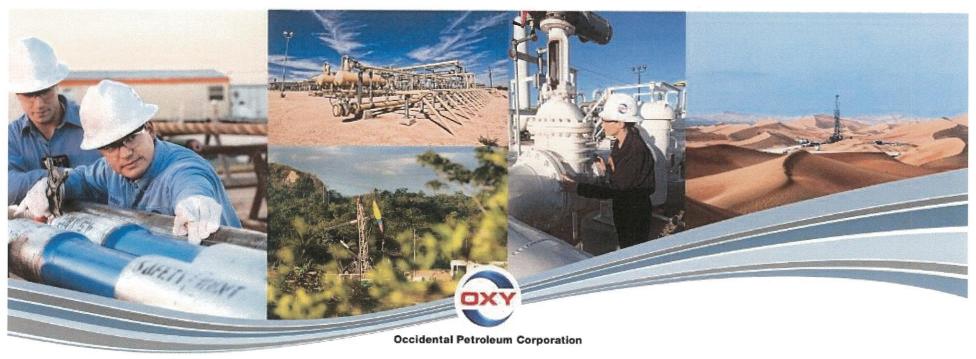
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the Onshore Oil and Gas Order (OOGO) No. 2

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break API Standard 53, Blowout Prevention Equipment Systems for Drilling Wells testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."



Rationale for Allowing BOP Break Testing

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

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, Oil Preventer Systems and Well Control. Within these regulations is language and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout adopted from API Standard 53 which also supports break testing.
- components following the disconnection or repair of any well-pressure Specifically, Section 250.737(d.8) states "Pressure test affected BOP containment seal in the wellhead or BOP stack assembly."



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO

- BOP shell and components such as the pipe rams and check valve get tested to As skidding operations take place within the 30-day full BOPE test window, the the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- training is a vital part of well control, this procedure to simulate step one of the - Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's Driller's Method exceeds the requirements of OOGO No. 2



Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window 5
- After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. 3
 - Between the check valve and the kill line
- Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- The BOP is then lifted and removed from the wellhead by the hydraulic winch system 4
- After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed 2
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed

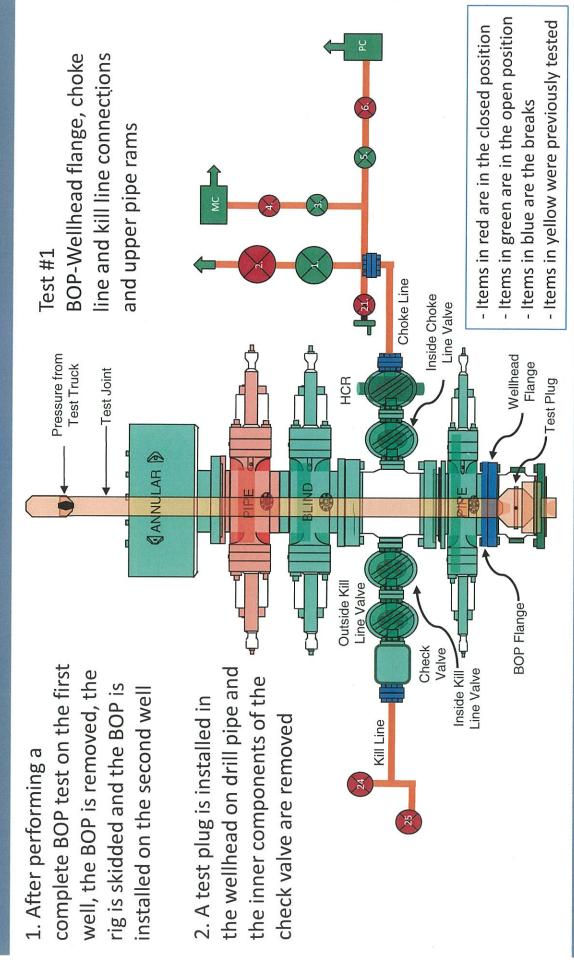


Break Testing Procedures

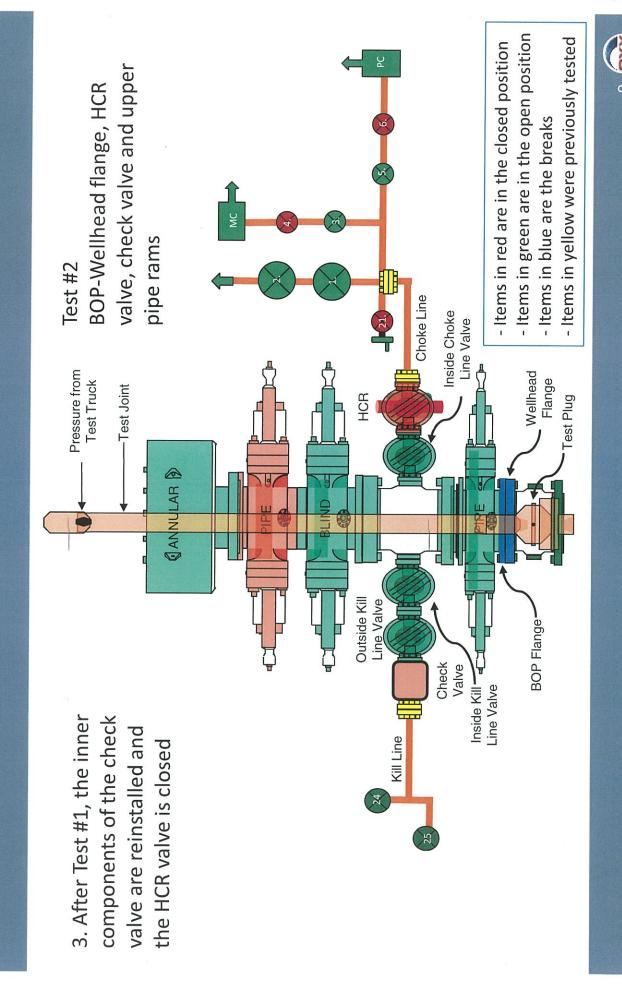
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested



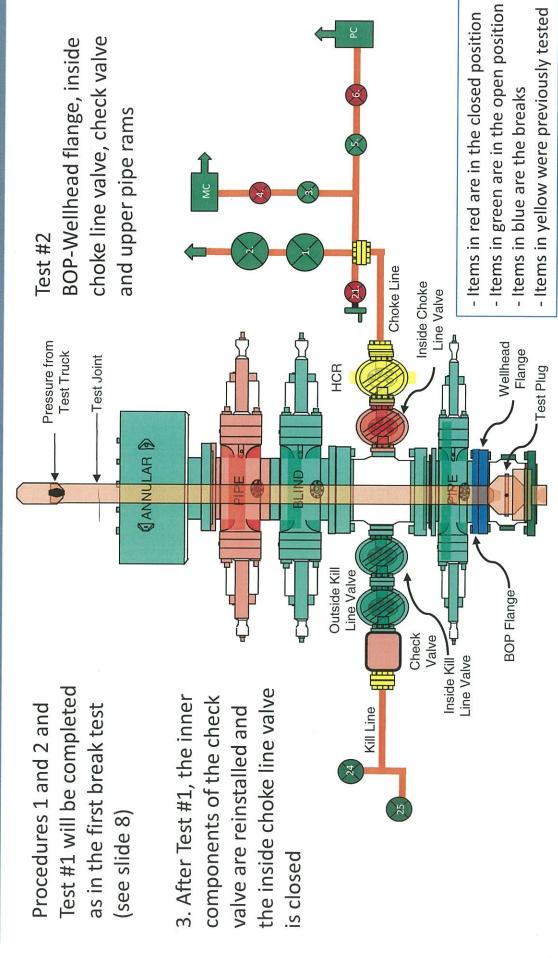
Break Testing Procedures and Tests



Break Testing Procedures and Tests

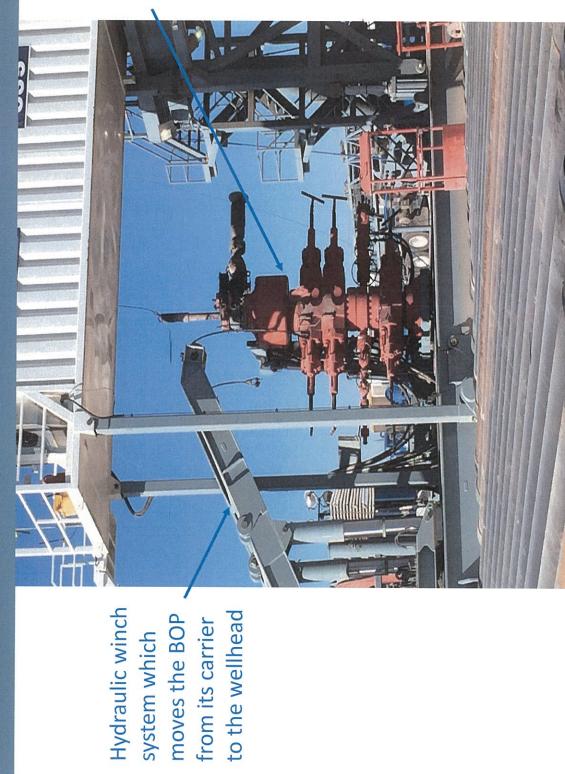


Second Break Testing Procedures and Tests



=

BOP standing in its carrier



Released to Imaging: 9/30/2025 12:48:58 PM

BOP Handling System

12

Wellhead

BOP Handling System

Released to Imaging: 9/30/2025 12:48:58 PM

system moving the BOP over to the wellhead

Hydraulic winch

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
- OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
- API Standard 53 recognizes break testing as an acceptable practice
- standards, specifications and best practices in the development of its offshore The Bureau of Safety and Environmental Enforcement has utilized API oil and gas regulations
- API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment



Bradenhead Cement CBL Variance Request

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

Three string wells:

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

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Offline Cementing Variance Request

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

1. Cement Program

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

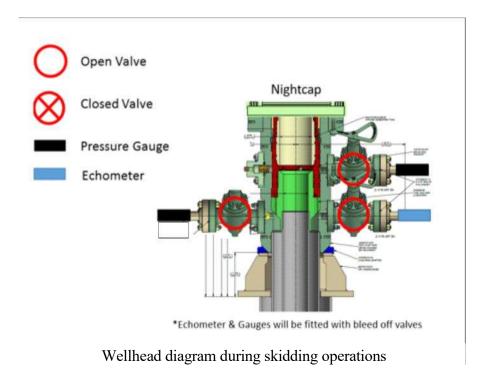
2. Offline Cementing Procedure

The operational sequence will be as follows:

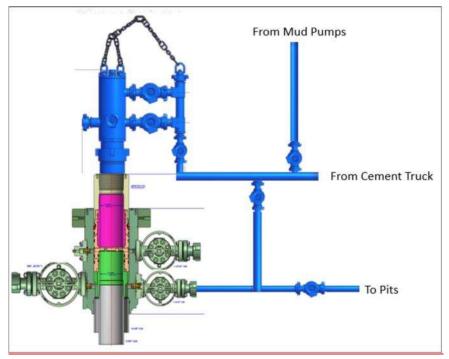
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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

Annular packoff with both external and internal seals





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



Wellhead diagram during offline cementing operations

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

PRD NM DIRECTIONAL PLANS (NAD 1983) Lost Tank 30-19 Fed Lost Tank 30_19 Fed Com 42H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

05 March, 2025

North Reference:

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

59.98

178.07

47,592.40000000

Site Lost Tank 30-19 Fed

 Site Position:
 Northing:
 503,826.03 usft
 Latitude:
 32.372894

 From:
 Lat/Long
 Easting:
 0.00 usft
 Longitude:
 -106.086667

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Lost Tank 30_19 Fed Com 42H

HDGM FILE

Well Position +N/-S 0.00 ft Northing: 503.573.01 usf Latitude: 32.382882 +E/-W 0.00 ft Easting: 731,795.74 usf Longitude: -103.716356 **Position Uncertainty** 1.79 ft Wellhead Elevation: 0.00 ft **Ground Level:** 3,618.60 ft

Grid Convergence: 0.33 °

Wellbore #1

Magnetics Model Name Sample Date Declination Dip Angle Field Strength (°) (°) (nT)

6.35

0.00

12/11/2023

0.00

Design Permitting Plan Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°)

0.00

Plan Survey Tool Program

Date 3/5/2025

Depth From (ft) (ft) Survey (Wellbore)

Tool Name Remarks

1 0.00 22,837.11 Permitting Plan (Wellbore #1) B001Mc_MWD+HRGM_R5

MWD+HRGM

clination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	6,270.00	0.00	0.00	0.00	0.00	0.00	0.00	
10.00	16.41	7,264.70	83.46	24.58	1.00	1.00	0.00	16.41	
10.00	16.41	11,506.27	800.72	235.83	0.00	0.00	0.00	0.00	
90.00	179.64	12,173.60	235.95	273.31	10.00	8.03	16.39	162.99	
90.00	179.64	12,173.60	-10,028.85	337.55	0.00	0.00	0.00	0.00 F	PBHL (Lost Tank
ıc	0.00 0.00 10.00 10.00 90.00	(°) (°) 0.00 0.00 0.00 0.00 10.00 16.41 10.00 16.41 90.00 179.64	clination (°) Azimuth (°) Depth (ft) 0.00 0.00 0.00 0.00 0.00 6,270.00 10.00 16.41 7,264.70 10.00 16.41 11,506.27 90.00 179.64 12,173.60	clination (°) Azimuth (°) Depth (ft) +N/-S (ft) 0.00 0.00 0.00 0.00 0.00 0.00 6,270.00 0.00 10.00 16.41 7,264.70 83.46 10.00 16.41 11,506.27 800.72 90.00 179.64 12,173.60 235.95	clination (°) Azimuth (°) Depth (ft) +N/-S (ft) +E/-W (ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6,270.00 0.00 0.00 10.00 16.41 7,264.70 83.46 24.58 10.00 16.41 11,506.27 800.72 235.83 90.00 179.64 12,173.60 235.95 273.31	Clination (°) Azimuth (°) Depth (ft) +N/-S (ft) +E/-W (ft) Rate (°/100ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6,270.00 0.00 0.00 0.00 0.00 10.00 16.41 7,264.70 83.46 24.58 1.00 10.00 16.41 11,506.27 800.72 235.83 0.00 90.00 179.64 12,173.60 235.95 273.31 10.00	Clination (°) Azimuth (°) Depth (ft) +N/-S (ft) +E/-W (ft) Rate (°/100ft) Rate (°/100ft) 0.00	Clination (°) Azimuth (°) Depth (ft) +N/-S (ft) +E/-W (ft) Rate (°/100ft) Rate (°/100ft) Rate (°/100ft) 0.00	Clination (°) Azimuth (°) Depth (ft) +N/-S (ft) +E/-W (ft) Rate (°/100ft) Rate (°/100ft) Rate (°/100ft) TFO (°) 0.00 0

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

esign:	Permitting Pia	A11							
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00		0.00	0.00	0.00
2,700.00	0.00	0.00	2,800.00		0.00	0.00 0.00	0.00	0.00	0.00
,	0.00		2,900.00	0.00			0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database: Company:

Site:

HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00 6,100.00 6,200.00 6,270.00 Build 1°/100	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6,000.00 6,100.00 6,200.00 6,270.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,300.00	0.30	16.41	6,300.00	0.08	0.02	-0.07	1.00	1.00	0.00
6,400.00	1.30	16.41	6,399.99	1.41	0.42	-1.40	1.00	1.00	0.00
6,500.00	2.30	16.41	6,499.94	4.43	1.30	-4.38	1.00	1.00	0.00
6,600.00	3.30	16.41	6,599.82	9.11	2.68	-9.02	1.00	1.00	0.00
6,700.00	4.30	16.41	6,699.60	15.47	4.56	-15.31	1.00	1.00	0.00
6,800.00	5.30	16.41	6,799.24	23.50	6.92	-23.25	1.00	1.00	0.00
6,900.00	6.30	16.41	6,898.73	33.19	9.78	-32.84	1.00	1.00	0.00
7,000.00	7.30	16.41	6,998.03	44.55	13.12	-44.08	1.00	1.00	0.00
7,100.00	8.30	16.41	7,097.10	57.57	16.96	-56.96	1.00	1.00	0.00
7,200.00	9.30	16.41	7,195.92	72.24	21.28	-71.49	1.00	1.00	0.00
7,269.76	10.00	16.41	7,264.70	83.46	24.58	-82.58	1.00	1.00	0.00
Hold 10° Ta			.,_0 0	000	200	02.00			0.00
7,300.00	10.00	16.41	7,294.48	88.49	26.06	-87.57	0.00	0.00	0.00
7,400.00	10.00	16.41	7,392.96	105.15	30.97	-104.05	0.00	0.00	0.00
7,500.00	10.00	16.41	7,491.44	121.80	35.87	-120.53	0.00	0.00	0.00
7,600.00	10.00	16.41	7,589.92	138.46	40.78	-137.01	0.00	0.00	0.00
7,700.00	10.00	16.41	7,688.40	155.11	45.68	-153.48	0.00	0.00	0.00
7,800.00	10.00	16.41	7,786.88	171.76	50.59	-169.96	0.00	0.00	0.00
7,900.00	10.00	16.41	7,885.36	188.42	55.49	-186.44	0.00	0.00	0.00
8,000.00	10.00	16.41	7,983.85	205.07	60.40	-202.92	0.00	0.00	0.00
8,100.00	10.00	16.41	8,082.33	221.72	65.30	-219.40	0.00	0.00	0.00
8,200.00	10.00	16.41	8,180.81	238.38	70.21	-235.88	0.00	0.00	0.00
8,300.00	10.00	16.41	8,279.29	255.03	75.11	-252.36	0.00	0.00	0.00
8,400.00	10.00	16.41	8,377.77	271.68	80.02	-268.84	0.00	0.00	0.00
8,500.00	10.00	16.41	8,476.25	288.34	84.92	-285.32	0.00	0.00	0.00
8,600.00	10.00	16.41	8,574.73	304.99	89.83	-301.80	0.00	0.00	0.00
8,700.00	10.00	16.41	8,673.22	321.64	94.73	-318.27	0.00	0.00	0.00
8,800.00	10.00	16.41	8,771.70	338.30	99.64	-334.75	0.00	0.00	0.00
8,900.00	10.00	16.41	8,870.18	354.95	104.54	-351.23	0.00	0.00	0.00
9,000.00	10.00	16.41	8,968.66	371.60	109.45	-367.71	0.00	0.00	0.00
9,100.00	10.00	16.41	9,067.14	388.26	114.35	-384.19	0.00	0.00	0.00
9,200.00	10.00	16.41	9,165.62	404.91	119.26	-400.67	0.00	0.00	0.00
9,300.00	10.00	16.41	9,264.11	421.56	124.16	-417.15	0.00	0.00	0.00
9,400.00	10.00	16.41	9,362.59	438.22	129.07	-433.63	0.00	0.00	0.00
9,500.00	10.00	16.41	9,461.07	454.87	133.97	-450.11	0.00	0.00	0.00
9,600.00	10.00	16.41	9,559.55	471.52	138.88	-466.59	0.00	0.00	0.00
9,700.00	10.00	16.41	9,658.03	488.18	143.78	-483.06	0.00	0.00	0.00
9,800.00	10.00	16.41	9,756.51	504.83	148.69	-499.54	0.00	0.00	0.00
9,900.00	10.00	16.41	9,854.99	521.48	153.59	-516.02	0.00	0.00	0.00
10,000.00	10.00	16.41	9,953.48	538.14	158.50	-532.50	0.00	0.00	0.00
10,100.00	10.00	16.41	10,051.96	554.79	163.40	-548.98	0.00	0.00	0.00
10,200.00	10.00	16.41	10,150.44	571.44	168.31	-565.46	0.00	0.00	0.00
10,300.00	10.00	16.41	10,248.92	588.10	173.21	-581.94	0.00	0.00	0.00
10,400.00	10.00	16.41	10,347.40	604.75	178.11	-598.42	0.00	0.00	0.00
10,500.00	10.00	16.41	10,445.88	621.40	183.02	-614.90	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	10.00	16.41	10,544.36	638.06	187.92	-631.38	0.00	0.00	0.00
10,700.00	10.00	16.41	10,642.85	654.71	192.83	-647.85	0.00	0.00	0.00
10,800.00	10.00	16.41	10,741.33	671.36	197.73	-664.33	0.00	0.00	0.00
10,900.00	10.00	16.41	10,839.81	688.02	202.64	-680.81	0.00	0.00	0.00
11,000.00	10.00	16.41	10,938.29	704.67	207.54	-697.29	0.00	0.00	0.00
11,100.00	10.00	16.41	11,036.77	721.32	212.45	-713.77	0.00	0.00	0.00
11,200.00	10.00	16.41	11,135.25	737.98	217.35	-730.25	0.00	0.00	0.00
11,300.00 11,400.00 11,500.00 11,576.73	10.00 10.00 10.00 10.00 & Turn 10°/100	16.41 16.41 16.41 16.41	11,233.74 11,332.22 11,430.70 11,506.27	754.63 771.29 787.94 800.72	222.26 227.16 232.07 235.83	-746.73 -763.21 -779.69 -792.33	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
11,600.00	7.80	21.43	11,529.25	804.13	236.98	-795.70	10.00	-9.44	21.58
11,700.00	4.01	133.13	11,628.92	808.06	242.02	-799.46	10.00	-3.79	111.70
11,800.00	13.08	167.00	11,727.75	794.61	247.14	-785.85	10.00	9.07	33.87
11,900.00	22.93	172.74	11,822.74	764.18	252.16	-755.27	10.00	9.85	5.74
12,000.00	32.87	175.13	11,911.01	717.70	256.94	-708.65	10.00	9.94	2.39
12,100.00	42.84	176.50	11,989.87	656.57	261.33	-647.40	10.00	9.97	1.37
12,200.00 12,288.92 LC 1 Cross	52.81 61.69	177.43 178.07	12,056.92 12,104.97	582.65 508.00	265.20 268.12	-573.40 -498.69	10.00 10.00	9.98 9.98	0.93 0.72
12,300.00	62.80	178.14	12,110.13	498.20	268.44	-488.88	10.00	9.98	0.65
12,400.00	72.78	178.74	12,147.89	405.77	270.94	-396.42	10.00	9.98	0.59
12,500.00	82.77	179.27	12,169.04	308.17	272.63	-298.83	10.00	9.99	0.53
12,572.42	90.00	179.64	12,173.60	235.95	273.31	-226.63	10.00	9.99	0.51
Landing Po 12,600.00 12,700.00 12,800.00 12,900.00	90.00 90.00 90.00 90.00	179.64 179.64 179.64 179.64	12,173.60 12,173.60 12,173.60 12,173.60	208.37 108.37 8.37 -91.62	273.48 274.11 274.73 275.36	-199.05 -99.09 0.87 100.83	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
13,000.00	90.00	179.64	12,173.60	-191.62	275.98	200.80	0.00	0.00	0.00
13,100.00	90.00	179.64	12,173.60	-291.62	276.61	300.76	0.00	0.00	0.00
13,200.00	90.00	179.64	12,173.60	-391.62	277.24	400.72	0.00	0.00	0.00
13,300.00	90.00	179.64	12,173.60	-491.62	277.86	500.68	0.00	0.00	0.00
13,400.00	90.00	179.64	12,173.60	-591.61	278.49	600.65	0.00	0.00	0.00
13,500.00	90.00	179.64	12,173.60	-691.61	279.11	700.61	0.00	0.00	0.00
13,600.00	90.00	179.64	12,173.60	-791.61	279.74	800.57	0.00	0.00	0.00
13,700.00	90.00	179.64	12,173.60	-891.61	280.37	900.53	0.00	0.00	0.00
13,800.00	90.00	179.64	12,173.60	-991.61	280.99	1,000.50	0.00	0.00	0.00
13,900.00	90.00	179.64	12,173.60	-1,091.60	281.62	1,100.46	0.00	0.00	0.00
14,000.00	90.00	179.64	12,173.60	-1,191.60	282.24	1,200.42	0.00	0.00	0.00
14,100.00	90.00	179.64	12,173.60	-1,291.60	282.87	1,300.38	0.00	0.00	0.00
14,200.00	90.00	179.64	12,173.60	-1,391.60	283.49	1,400.35	0.00	0.00	0.00
14,300.00	90.00	179.64	12,173.60	-1,491.60	284.12	1,500.31	0.00	0.00	0.00
14,400.00	90.00	179.64	12,173.60	-1,591.59	284.75	1,600.27	0.00	0.00	0.00
14,500.00	90.00	179.64	12,173.60	-1,691.59	285.37	1,700.23	0.00	0.00	0.00
14,600.00	90.00	179.64	12,173.60	-1,791.59	286.00	1,800.20	0.00	0.00	0.00
14,700.00	90.00	179.64	12,173.60	-1,891.59	286.62	1,900.16	0.00	0.00	0.00
14,800.00	90.00	179.64	12,173.60	-1,991.59	287.25	2,000.12	0.00	0.00	0.00
14,900.00	90.00	179.64	12,173.60	-2,091.58	287.88	2,100.08	0.00	0.00	0.00
14,941.42 LC 2 Cross	90.00	179.64	12,173.60	-2,133.00	288.13	2,141.49	0.00	0.00	0.00
15,000.00	90.00	179.64	12,173.60	-2,191.58	288.50	2,200.05	0.00	0.00	0.00
15,100.00	90.00	179.64	12,173.60	-2,291.58	289.13	2,300.01	0.00	0.00	0.00
15,200.00	90.00	179.64	12,173.60	-2,391.58	289.75	2,399.97	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,300.00	90.00	179.64	12,173.60	-2,491.58	290.38	2,499.93	0.00	0.00	0.00
15,400.00	90.00	179.64	12,173.60	-2,591.57	291.00	2,599.90	0.00	0.00	0.00
15,500.00	90.00	179.64	12,173.60	-2,691.57	291.63	2,699.86	0.00	0.00	0.00
15,600.00	90.00	179.64	12,173.60	-2,791.57	292.26	2,799.82	0.00	0.00	0.00
15,700.00	90.00	179.64	12,173.60	-2,891.57	292.88	2,899.78	0.00	0.00	0.00
15,800.00	90.00	179.64	12,173.60	-2,991.57	293.51	2,999.75	0.00	0.00	0.00
15,900.00	90.00	179.64	12,173.60	-3,091.57	294.13	3,099.71	0.00	0.00	0.00
16,000.00	90.00	179.64	12,173.60	-3,191.56	294.76	3,199.67	0.00	0.00	0.00
16,100.00	90.00	179.64	12,173.60	-3,291.56	295.38	3,299.63	0.00	0.00	0.00
16,200.00	90.00	179.64	12,173.60	-3,391.56	296.01	3,399.60	0.00	0.00	0.00
16,300.00	90.00	179.64	12,173.60	-3,491.56	296.64	3,499.56	0.00	0.00	0.00
16,400.00	90.00	179.64	12,173.60	-3,591.56	297.26	3,599.52	0.00	0.00	0.00
16,500.00	90.00	179.64	12,173.60	-3,691.55	297.89	3,699.48	0.00	0.00	0.00
16,600.00	90.00	179.64	12,173.60	-3,791.55	298.51	3,799.45	0.00	0.00	0.00
16,700.00	90.00	179.64	12,173.60	-3,891.55	299.14	3,899.41	0.00	0.00	0.00
16,800.00	90.00	179.64	12,173.60	-3,991.55	299.77	3,999.37	0.00	0.00	0.00
16,900.00	90.00	179.64	12,173.60	-4,091.55	300.39	4,099.33	0.00	0.00	0.00
17,000.00	90.00	179.64	12,173.60	-4,191.54	301.02	4,199.30	0.00	0.00	0.00
17,100.00	90.00	179.64	12,173.60	-4,291.54	301.64	4,299.26	0.00	0.00	0.00
17,200.00	90.00	179.64	12,173.60	-4,391.54	302.27	4,399.22	0.00	0.00	0.00
17,300.00	90.00	179.64	12,173.60	-4,491.54	302.89	4,499.18	0.00	0.00	0.00
17,400.00 17,500.00 17,582.47 LC 3 Cross	90.00 90.00 90.00	179.64 179.64 179.64	12,173.60 12,173.60 12,173.60	-4,591.54 -4,691.53 -4,774.00	303.52 304.15 304.66	4,599.15 4,699.11 4,781.55	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
17,600.00	90.00	179.64	12,173.60	-4,791.53	304.77	4,799.07	0.00	0.00	0.00
17,700.00	90.00	179.64	12,173.60	-4,891.53	305.40	4,899.03	0.00	0.00	0.00
17,800.00	90.00	179.64	12,173.60	-4,991.53	306.02	4,999.00	0.00	0.00	0.00
17,900.00	90.00	179.64	12,173.60	-5,091.53	306.65	5,098.96	0.00	0.00	0.00
18,000.00	90.00	179.64	12,173.60	-5,191.52	307.27	5,198.92	0.00	0.00	0.00
18,100.00	90.00	179.64	12,173.60	-5,291.52	307.90	5,298.88	0.00	0.00	0.00
18,200.00	90.00	179.64	12,173.60	-5,391.52	308.53	5,398.85	0.00	0.00	0.00
18,300.00	90.00	179.64	12,173.60	-5,491.52	309.15	5,498.81	0.00	0.00	0.00
18,400.00	90.00	179.64	12,173.60	-5,591.52	309.78	5,598.77	0.00	0.00	0.00
18,500.00	90.00	179.64	12,173.60	-5,691.51	310.40	5,698.73	0.00	0.00	0.00
18,600.00	90.00	179.64	12,173.60	-5,791.51	311.03	5,798.70	0.00	0.00	0.00
18,700.00	90.00	179.64	12,173.60	-5,891.51	311.66	5,898.66	0.00	0.00	0.00
18,800.00	90.00	179.64	12,173.60	-5,991.51	312.28	5,998.62	0.00	0.00	0.00
18,900.00	90.00	179.64	12,173.60	-6,091.51	312.91	6,098.58	0.00	0.00	0.00
19,000.00	90.00	179.64	12,173.60	-6,191.50	313.53	6,198.55	0.00	0.00	0.00
19,100.00	90.00	179.64	12,173.60	-6,291.50	314.16	6,298.51	0.00	0.00	0.00
19,200.00	90.00	179.64	12,173.60	-6,391.50	314.78	6,398.47	0.00	0.00	0.00
19,300.00	90.00	179.64	12,173.60	-6,491.50	315.41	6,498.43	0.00	0.00	0.00
19,400.00	90.00	179.64	12,173.60	-6,591.50	316.04	6,598.40	0.00	0.00	0.00
19,500.00	90.00	179.64	12,173.60	-6,691.49	316.66	6,698.36	0.00	0.00	0.00
19,600.00	90.00	179.64	12,173.60	-6,791.49	317.29	6,798.32	0.00	0.00	0.00
19,700.00	90.00	179.64	12,173.60	-6,891.49	317.91	6,898.28	0.00	0.00	0.00
19,800.00	90.00	179.64	12,173.60	-6,991.49	318.54	6,998.25	0.00	0.00	0.00
19,900.00	90.00	179.64	12,173.60	-7,091.49	319.17	7,098.21	0.00	0.00	0.00
20,000.00	90.00	179.64	12,173.60	-7,191.48	319.79	7,198.17	0.00	0.00	0.00
20,100.00	90.00	179.64	12,173.60	-7,291.48	320.42	7,298.13	0.00	0.00	0.00
20,200.00	90.00	179.64	12,173.60	-7,391.48	321.04	7,398.10	0.00	0.00	0.00
20,300.00	90.00	179.64	12,173.60	-7,491.48	321.67	7,498.06	0.00	0.00	0.00
20,400.00	90.00	179.64	12,173.60	-7,591.48	322.29	7,598.02	0.00	0.00	0.00
20,500.00	90.00	179.64	12,173.60	-7,691.48	322.92	7,697.98	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

esign:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
20,600.00	90.00	179.64	12,173.60	-7,791.47	323.55	7,797.95	0.00	0.00	0.00
20,700.00	90.00	179.64	12,173.60	-7,891.47	324.17	7,897.91	0.00	0.00	0.00
20,800.00	90.00	179.64	12,173.60	-7,991.47	324.80	7,997.87	0.00	0.00	0.00
20,900.00	90.00	179.64	12,173.60	-8,091.47	325.42	8,097.83	0.00	0.00	0.00
21,000.00	90.00	179.64	12,173.60	-8,191.47	326.05	8,197.80	0.00	0.00	0.00
21,100.00	90.00	179.64	12,173.60	-8,291.46	326.67	8,297.76	0.00	0.00	0.00
21,200.00	90.00	179.64	12,173.60	-8,391.46	327.30	8,397.72	0.00	0.00	0.00
21,300.00	90.00	179.64	12,173.60	-8,491.46	327.93	8,497.68	0.00	0.00	0.00
21,400.00	90.00	179.64	12,173.60	-8,591.46	328.55	8,597.65	0.00	0.00	0.00
21,500.00	90.00	179.64	12,173.60	-8,691.46	329.18	8,697.61	0.00	0.00	0.00
21,600.00	90.00	179.64	12,173.60	-8,791.45	329.80	8,797.57	0.00	0.00	0.00
21,700.00	90.00	179.64	12,173.60	-8,891.45	330.43	8,897.53	0.00	0.00	0.00
21,800.00	90.00	179.64	12,173.60	-8,991.45	331.06	8,997.50	0.00	0.00	0.00
21,900.00	90.00	179.64	12,173.60	-9,091.45	331.68	9,097.46	0.00	0.00	0.00
22,000.00	90.00	179.64	12,173.60	-9,191.45	332.31	9,197.42	0.00	0.00	0.00
22,100.00	90.00	179.64	12,173.60	-9,291.44	332.93	9,297.38	0.00	0.00	0.00
22,200.00	90.00	179.64	12,173.60	-9,391.44	333.56	9,397.35	0.00	0.00	0.00
22,300.00	90.00	179.64	12,173.60	-9,491.44	334.18	9,497.31	0.00	0.00	0.00
22,400.00	90.00	179.64	12,173.60	-9,591.44	334.81	9,597.27	0.00	0.00	0.00
22,500.00	90.00	179.64	12,173.60	-9,691.44	335.44	9,697.23	0.00	0.00	0.00
22,600.00	90.00	179.64	12,173.60	-9,791.43	336.06	9,797.20	0.00	0.00	0.00
22,700.00	90.00	179.64	12,173.60	-9,891.43	336.69	9,897.16	0.00	0.00	0.00
22,800.00 22,837.42 TD at 22837	90.00 90.00	179.64 179.64	12,173.60 12,173.60	-9,991.43 -10,028.85	337.31 337.55	9,997.12 10,034.52	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Lost Tank 30_19 - plan misses target - Point	0.00 center by 85	0.00 53.15ft at 0.0	0.00 Ooft MD (0.0	809.30 00 TVD, 0.00 I	270.00 N, 0.00 E)	504,382.27	732,065.73	32.385102	-103.715466
PBHL (Lost Tank - plan hits target cer - Point	0.00 nter	0.01	12,173.60	-10,028.85	337.55	493,544.68	732,133.27	32.355311	-103.715450
FTP (Lost Tank 30_19 - plan misses target - Point	0.00 center by 25		12,173.60 01.97ft MD	409.35 (12148.47 TV	272.22 /D, 403.89 N,	503,982.34 270.98 E)	732,067.95	32.384002	-103.715467

Casing Points						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
	1,200.00	1,200.00	10 3/4" Surface Casing	10.750	14.750	
	13,500.00	12,173.60	7 5/8" Intermediate Casing	7.625	9.875	
	23,952.58		5 1/2" Production Casing	5.500	6.750	

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Lost Tank 30-19 Fed

Well: Lost Tank 30_19 Fed Com 42H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Lost Tank 30_19 Fed Com 42H

RKB = 25' @ 3643.60ft RKB = 25' @ 3643.60ft

Grid

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	847.60	847.60	RUSTLER			
	1,139.60	1,139.60	SALADO			
	2,838.60	2,838.60	CASTILE			
	4,613.60	4,613.60	DELAWARE			
	4,679.60	4,679.60	BELL CANYON			
	5,528.60	5,528.60	CHERRY CANYON			
	6,747.15	6,746.60	BRUSHY CANYON			
	8,533.86	8,509.60	BONE SPRING			
	9,629.50	9,588.60	BONE SPRING 1ST			
	10,280.38	10,229.60	BONE SPRING 2ND			
	11,304.94	11,238.60	BONE SPRING 3RD			
	11,773.28	11,701.60	WOLFCAMP			
	11,794.72	11,722.60	WOLFCAMP			

Plan Annotation	ons				
	Measured	Vertical	Local Coor	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	6,270.00	6,270.00	0.00	0.00	Build 1°/100'
	7,269.76	7,264.70	83.46	24.58	Hold 10° Tangent
	11,576.73	11,506.27	800.72	235.83	KOP, Build & Turn 10°/100'
	12,288.92	12,104.97	508.00	268.12	LC 1 Cross
	12,572.42	12,173.60	235.95	273.31	Landing Point
	14,941.42	12,173.60	-2,133.00	288.13	LC 2 Cross
	17,582.47	12,173.60	-4,774.00	304.66	LC 3 Cross
	22,837.42	12,173.60	-10,028.85	337.55	TD at 22837.42' MD

<u>BLM Lease Number</u>: NMNM90587 <u>Company Reference</u>: Oxy USA Inc.

Well Name & Numbers: Lost Tank 30-19 Fed Com 71H, Lost Tank 30-19 Fed Com 42H, Lost

Tank 30-19 Fed Com 41H

STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

- 1. The 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 and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statues.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. 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.
- 3. The 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 of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, 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). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

- 5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.
- 6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)
- 7. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is **Shale Green**, Munsell Soil Color Chart Number 5Y 4/2.
- 8. The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 9 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 9. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 10. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 11. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office (575-234-5972).
- 12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist,

which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

13. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site and access roads must undergo "final" reclamation so that the character and productivity of the land are restored. Earthwork for final reclamation must be completed within six (6) months of the abandonment of the site. All pads and facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

- 14. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately ____6__ inches in depth. The topsoil will be segregated from other spoil piles. The topsoil will be used for final reclamation.
- 15. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() Aplomado Falcon Mixture

- 16. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.
- 17. Open-topped Tanks 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-exempt 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
- 18. 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.

- 19. 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.
- 20. 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.

21. Special Stipulations:

Lesser Prairie-Chicken (Tympanuchus pallidicinctus)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

22. ON LEASE ACCESS ROADS

Road Width

Approval Date: 06/10/2025

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed twenty (20) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

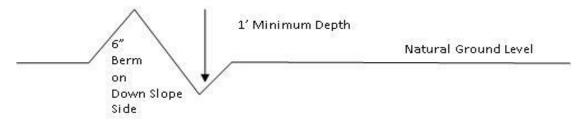
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be

Page 5 of 13

determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

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

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Approval Date: 06/10/2025

Construction Steps

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

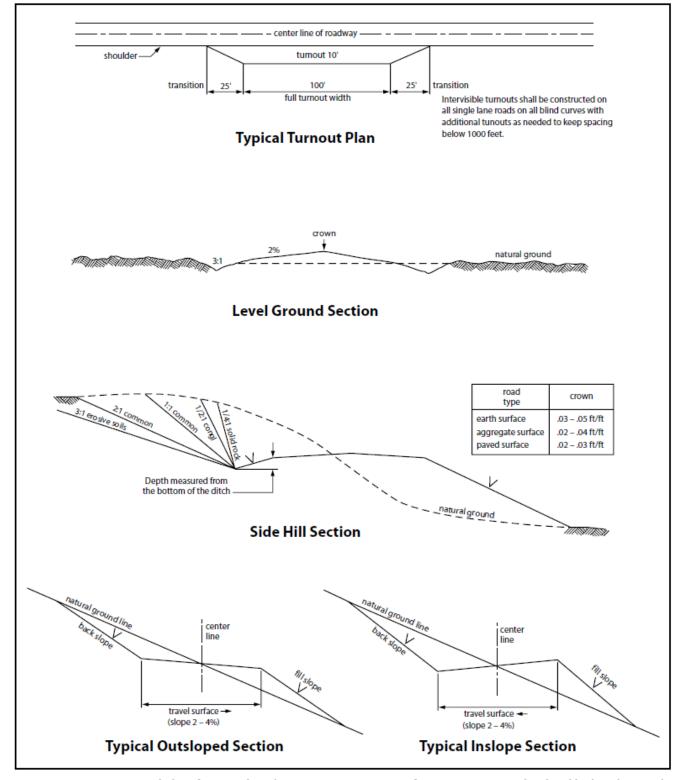


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

23. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, 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.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The 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.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) 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 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. 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.
- 3. The 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 of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, 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 agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. 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

Approval Date: 06/10/2025

habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>30</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this 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.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
(X) seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

Page 9 of 13

- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 19. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

24. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the
 possibility of encountering near surface voids and to minimize changes to runoff or possible leaks
 and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid
 cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES.

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.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The 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.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) 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 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. 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.
- 3. The 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 of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, 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 agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous Page 11 of 13

Released to Imaging: 9/30/2025 12:48:58 PM Approval Date: 06/10/2025

manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 11. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

12. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

Approval Date: 06/10/2025

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.:
LOST TANK 30 19 FEDERAL COM 42H
Section 19, T.22 S., R.32 E.
COUNTY: Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

NOTE: WELL APPROVED FOR DESIGNS A1, A2 AND B. REVIEW CEMENT VOLUMES TO ACHIEVE TIE BACKS LISTED BELOW. MEDIUM CAVA KARST. PLEASE HAVE CONTINGENCIES IN PLACE IN THE EVENT OF SEVERE LOSSES

A1:

1. The **10-3/4** inch surface casing shall be set at approximately **945** feet (a minimum of 70 feet into the Rustler Anhydrite, above the salt, and below usable fresh water) and

cemented to the surface. BLM Geology Feedback: The operator purposed set depth will not adequately protect usable water zones. Instead, set casing at 945 feet.

- 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 24 hours in the Potash Area or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at approximately **11,477** feet. **KEEP** CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

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
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator

can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

3. The **5-1/2** inch production casing shall be set at approximately **22,837** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

A2:

- 1. The **13-3/8** inch surface casing shall be set at approximately **945** feet (a minimum of 70 feet into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *BLM Geology Feedback: The operator purposed set depth will not adequately protect usable water zones. Instead, set casing at 945 feet.*
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 7-5/8 inch intermediate casing shall be set at approximately 11,477 feet. **KEEP** CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS

EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2 (Bradenhead):

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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- 3. The **5-1/2** inch production casing shall be set at approximately **22,837** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

B (Contingency:)

- 1. The 13-3/8 inch surface casing shall be set at approximately 945 feet (a minimum of 70 feet into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. BLM Geology Feedback: The operator purposed set depth will not adequately protect usable water zones. Instead, set casing at 945 feet.
 - i. 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.
 - j. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever

- is greater. (This is to include the lead cement)
- k. 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.
- 1. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 1. The 10-3/4 inch intermediate casing shall be set at approximately 4614 feet TVD. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 2. The 7-5/8 inch intermediate casing shall be set at approximately 11,477 feet. **KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2 (Bradenhead):

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.

- e. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- f. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- 3. The **5-1/2** inch production casing shall be set at approximately **22,837** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

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).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. 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 and below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) 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 OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

• In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

Contact Lea County Petroleum Engineering Inspection Staff:

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder
 - 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.
- 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.

KPI 6/3/2025

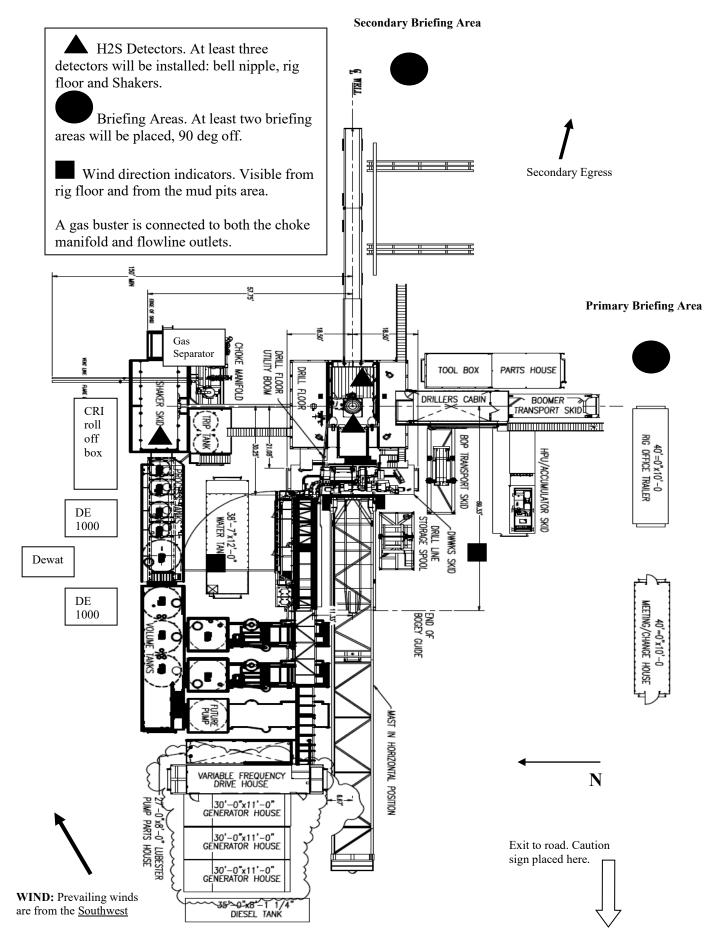


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that

must be adhered to prior to drilling.

Drilling emergency call lists: Included are the telephone numbers of all persons to

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

Public safety: Public safety personnel will be made aware of any

potential evacuation and any additional support

needed.

Check lists: Status check lists and procedural check lists have been

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – wind streamers:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

```
green – normal conditions
yellow – potential danger
red – danger, H2S present
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B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. <u>Designated area</u>

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.

B. If uncontrollable conditions occur:

1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:

- 1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.

Tool pusher:

- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

1. Don escape unit, shut down pumps, continue

rotating DP.

- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man Floor man #1 Floor man #2 1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

<u>Instructions for igniting the well</u>

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. <u>Do not assume the area is safe after the well is ignited.</u>

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1-100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by:	Date
Checked by.	Date

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

- 1) threshold limit concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii
Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	Ppm	Grains	
, ,	-	100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper face-piece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

Rescue First aid for H2S poisoning

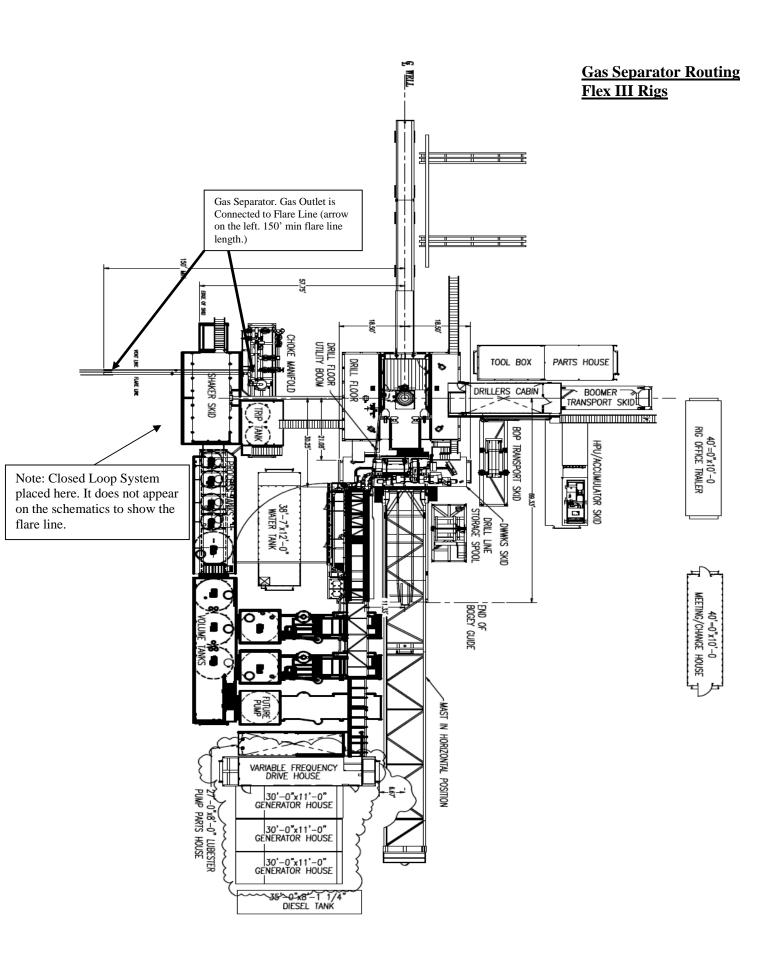
Do not panic!

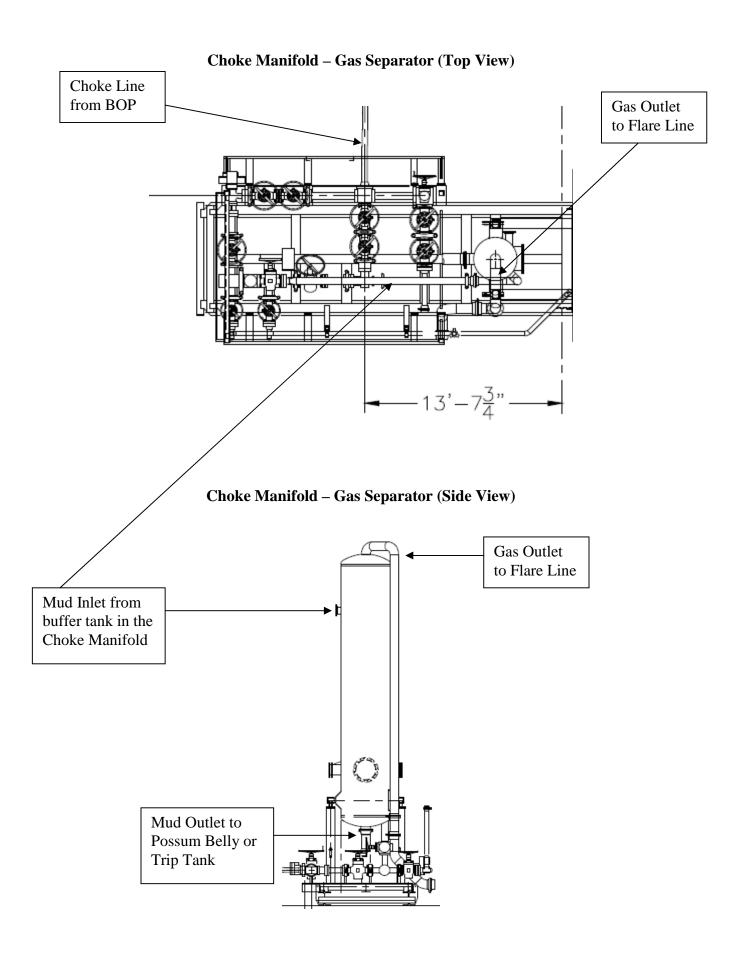
Remain calm – think!

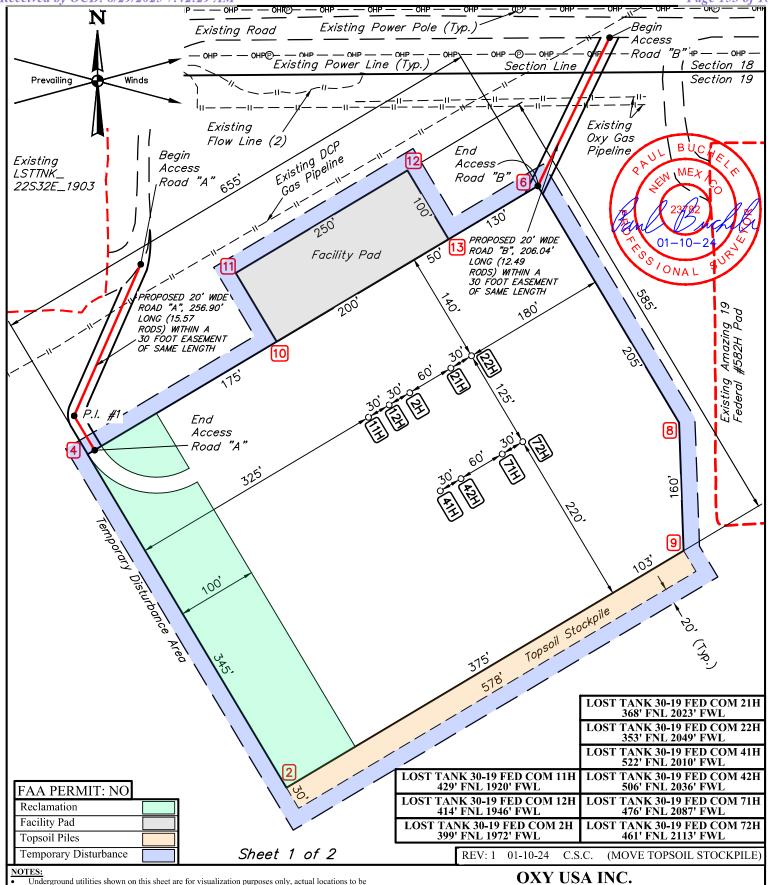
- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012







- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

LSTTNK 22S32E 1902 NE 1/4 NW 1/4, SECTION 19, T22S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY C.T., C.S. 07-18-23 SCALE $\overline{1''} = 120'$ **DRAWN BY LOCATION LAYOUT**



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

NAD 83	NAD 83	LOST TANK 30-19 FED COM 2H - EL: 3617.5' NAD 83	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
LATITUDE = 32°22'59.13" (32.383093°)	LATITUDE = 32°22'59.28" (32.383135°)	LATITUDE = 32°22'59.44" (32.383177°)	
LONGITUDE = -103°43'00.23" (-103.716730°)	LONGITUDE = -103°42'59.93" (-103.716646°)	LONGITUDE = -103°42'59.62" (-103.716562°)	1 23/18/2 N of
NAD 27	NAD 27	NAD 27	V&V./\\ //2 //2/15/1
LATITUDE = 32°22'58.69" (32.382970°)	LATITUDE = 32°22'58.84" (32.383012°)	LATITUDE = 32°22'58.99" (32.383054°)	Venu Suryxy
LONGITUDE = -103°42'58.47" (-103.716241°)	LONGITUDE = -103°42'58.17" (-103.716158°)	LONGITUDE = -103°42'57.87" (-103.716074°)	08-01-23
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	10
N: 503649.15' E: 731679.89'	N: 503664.62' E: 731705.59'	N: 503680.09' E: 731731.29'	STONAL SUL
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	ONAL
N: 503588.74' E: 690497.49'	N: 503604.20' E: 690523.19'	N: 503619.67' E: 690548.89'	
LOST TANK 30-19 FED COM 21H - EL: 3618.5			
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°22'59.74" (32.383261°)	LATITUDE = 32°22'59.89" (32.383303°) LONGITUDE = -103°42'58.72" (-103.716312°)	LATITUDE = 32°22'58.22" (32.382839°) LONGITUDE = -103°42'59.18" (-103.716439°)	LATITUDE = 32°22'58.37" (32.382881°)
LONGITUDE = -103°42'59.02" (-103.716395°) NAD 27	NAD 27	NAD 27	LONGITUDE = -103°42'58.88" (-103.716356°) NAD 27
LATITUDE = 32°22'59.30" (32.383138°)	LATITUDE = 32°22'59.45" (32.383180°)	LATITUDE = 32°22'57.78" (32.382717°)	LATITUDE = 32°22'57.93" (32.382759°)
LONGITUDE = -103°42'57.27" (-103.715907°)	LONGITUDE = -103°42'56.96" (-103.715824°)	LONGITUDE = -103°42'57.42" (-103.715951°)	LONGITUDE = -103°42'57.12" (-103.715867°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 503711.02' E: 731782.68'	N: 503726.49' E: 731808.38'	N: 503557.54' E: 731770.04'	N: 503573.01' E: 731795.74'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 503650.61' E: 690600.29'	N: 503666.08' E: 690625.98'	N: 503497.13' E: 690587.64'	N: 503512.60' E: 690613.34'
LOST TANK 30-19 FED COM 71H - EL: 3619.1	LOST TANK 30-19 FED COM 72H - EL: 3619.3'	2 - F1 · 3628 0'	4 - EL: 3618.7'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°22'58.68" (32.382966°)	LATITUDE = 32°22'58.83" (32.383008°)	LATITUDE = 32°22'54.56" (32.381821°)	LATITUDE = 32°22'58.68" (32.382967°)
LONGITUDE = -103°42'58.28" (-103.716189°)	LONGITUDE = -103°42'57.98" (-103.716105°)	LONGITUDE = -103°43'01.43" (-103.717064°)	LONGITUDE = -103°43'04.32" (-103.717866°)
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°22'58.23" (32.382843°)	LATITUDE = 32°22'58.39" (32.382885°)	LATITUDE = 32°22'54.11" (32.381698°)	LATITUDE = 32°22'58.24" (32.382844°)
LONGITUDE = -103°42'56.52" (-103.715700°)	LONGITUDE = -103°42'56.22" (-103.715617°)	LONGITUDE = -103°42'59.67" (-103.716575°)	LONGITUDE = -103°43'02.56" (-103.717378°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 503603.95' E: 731847.14'	N: 503619.42' E: 731872.84'	N: 503186.04' E: 731579.39'	N: 503601.49' E: 731329.31'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 503543.54' E: 690664.74'	N: 503559.01' E: 690690.43'	N: 503125.64' E: 690396.98'	N: 503541.08' E: 690146.91'
6 - EL: 3624.4'	8 - EL: 3625.5'	9 - EL: 3623.3'	10 - EL: 3615.0'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°23'01.99" (32.383887°)	LATITUDE = 32°22'59.06" (32.383072°)	LATITUDE = 32°22'57.48" (32.382633°)	LATITUDE = 32°23'00.07" (32.383353°)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38'	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07'	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08' E: 732074.50'	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88'
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99'	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67'	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08' E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67' E: 690892.10'	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48'
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99' 11 - EL: 3617.5'	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67' 12 - EL: 3622.1'	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08' E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67' E: 690892.10' 13 - EL: 3622.1'	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48' BEGIN ACCESS ROAD "A" - EL: 3618.1'
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99' 11 - EL: 3617.5' NAD 83	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67'	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = -103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = -103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08' E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67' E: 690892.10'	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48'
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99' 11 - EL: 3617.5'	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67' 12 - EL: 3622.1' NAD 83	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = .103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = .103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08" E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67" E: 690892.10' 13 - EL: 3622.1' NAD 83	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48' BEGIN ACCESS ROAD "A" - EL: 3618.1' NAD 83
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LATITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99' 11 - EL: 3617.5' NAD 83 LATITUDE = 32°23'00.92" (32.383589°)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LATITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67' 12 - EL: 3622.1' NAD 83 LATITUDE = 32°23'02.19" (32.383940°)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = .103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = .103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08' E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67' E: 690892.10' 13 - EL: 3622.1' NAD 83 LATITUDE = 32°23'01.33" (32.383704°) LONGITUDE = .103°42'59.06" (-103.716404°) NAD 27	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48' BEGIN ACCESS ROAD "A" - EL: 3618.1' NAD 83 LATITUDE = 32°23'01.03" (32.383619°)
LATITUDE = 32°23'01.99" (32.383887°) LONGITUDE = -103°42'57.75" (-103.716042°) NAD 27 LONGITUDE = 32°23'01.55" (32.383764°) LONGITUDE = -103°42'55.99" (-103.715554°) STATE PLANE NAD 83 (N.M. EAST) N: 503939.23' E: 731890.38' STATE PLANE NAD 27 (N.M. EAST) N: 503878.81' E: 690707.99' 11 - EL: 3617.5' NAD 83 LATITUDE = 32°23'00.92" (32.383589°) LONGITUDE = -103°43'02.16" (-103.717266°) NAD 27 LATITUDE = 32°23'00.48" (32.383467°)	LATITUDE = 32°22'59.06" (32.383072°) LONGITUDE = -103°42'55.70" (-103.715472°) NAD 27 LONGITUDE = 32°22'58.62" (32.382950°) LONGITUDE = -103°42'53.94" (-103.714984°) STATE PLANE NAD 83 (N.M. EAST) N: 503644.05' E: 732068.07' STATE PLANE NAD 27 (N.M. EAST) N: 503583.63' E: 690885.67' 12 - EL: 3622.1' NAD 83 LATITUDE = 32°23'02.19" (32.383940°) LONGITUDE = -103°42'59.65" (-103.716570°) NAD 27 LATITUDE = 32°23'01.74" (32.383818°)	LATITUDE = 32°22'57.48" (32.382633°) LONGITUDE = .103°42'55.64" (-103.715454°) NAD 27 LATITUDE = 32°22'57.04" (32.382510°) LONGITUDE = .103°42'53.88" (-103.714966°) STATE PLANE NAD 83 (N.M. EAST) N: 503484.08" E: 732074.50' STATE PLANE NAD 27 (N.M. EAST) N: 503423.67" E: 690892.10' 13 - EL: 3622.1' NAD 83 LATITUDE = 32°23'01.33" (32.383704°) LONGITUDE = .103°42'59.06" (-103.716404°) NAD 27 LATITUDE = 32°23'00.89" (32.383581°)	LATITUDE = 32°23'00.07" (32.383353°) LONGITUDE = -103°43'01.56" (-103.717100°) NAD 27 LATITUDE = 32°22'59.63" (32.383230°) LONGITUDE = -103°42'59.80" (-103.716612°) STATE PLANE NAD 83 (N.M. EAST) N: 503743.29' E: 731564.88' STATE PLANE NAD 27 (N.M. EAST) N: 503682.88' E: 690382.48' BEGIN ACCESS ROAD "A" - EL: 3618.1' NAD 83 LATITUDE = 32°23'01.03" (32.383619°) LONGITUDE = -103°43'03.54" (-103.717651°) NAD 27 LATITUDE = 32°23'00.59" (32.383497°)
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LOST TANK 30-19 FED COM 11H - EL: 3617.0' LOST TANK 30-19 FED COM 12H - EL: 3617.3' LOST TANK 30-19 FED COM 2H - EL: 3617.5'

Sheet 2 of 2

NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

OXY USA INC.

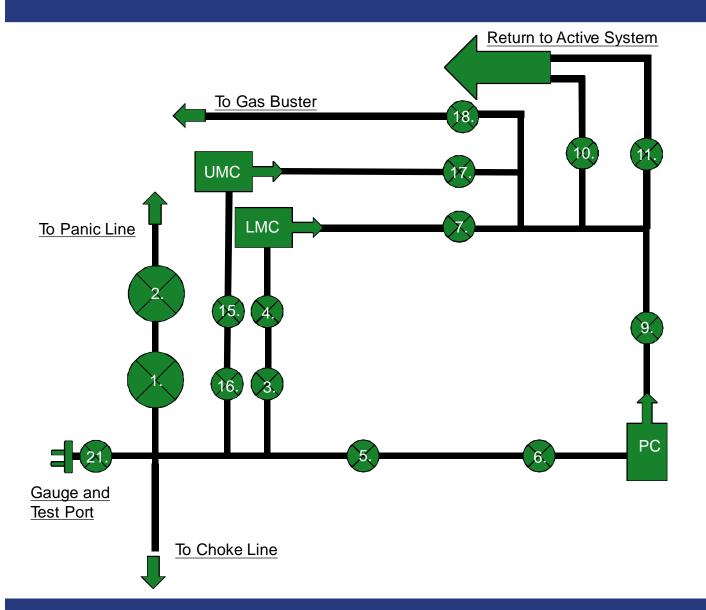
LSTTNK 22S32E 1902 NE 1/4 NW 1/4, SECTION 19, T22S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY C.T., C.S. 07-18-23 **SCALE DRAWN BY** 08-01-23 N/A **LOCATION LAYOUT**



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

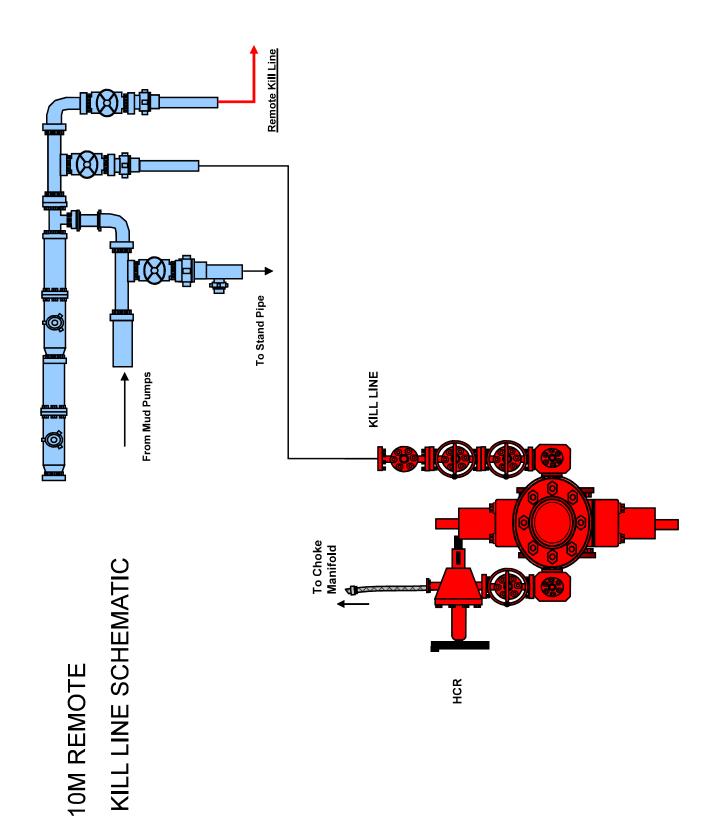
10M Choke Panel

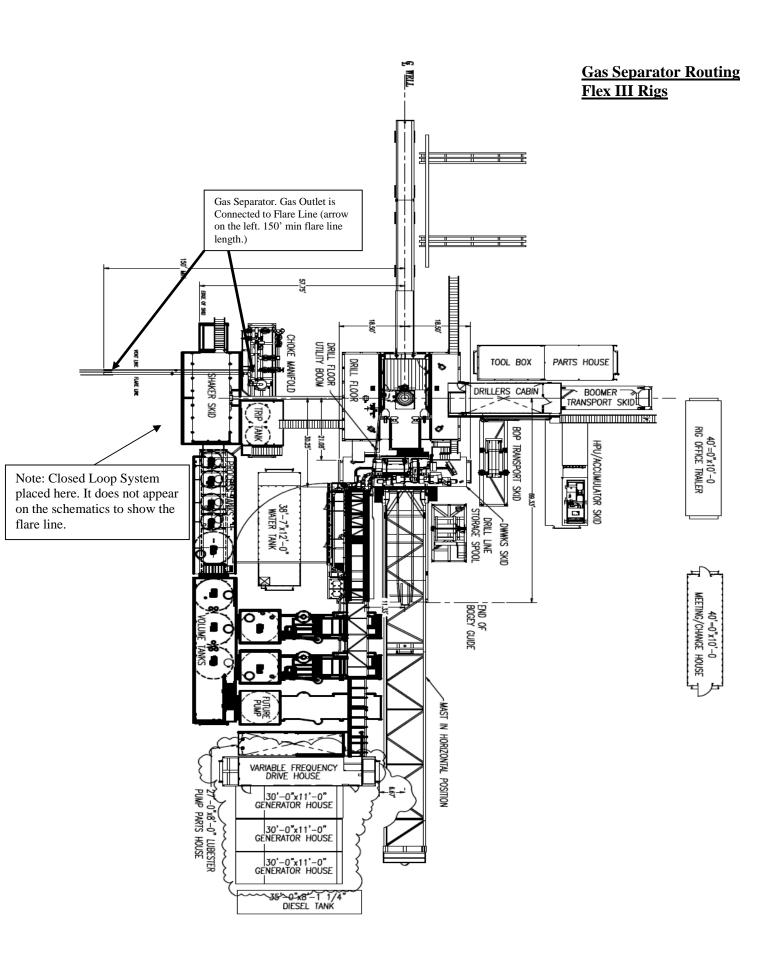


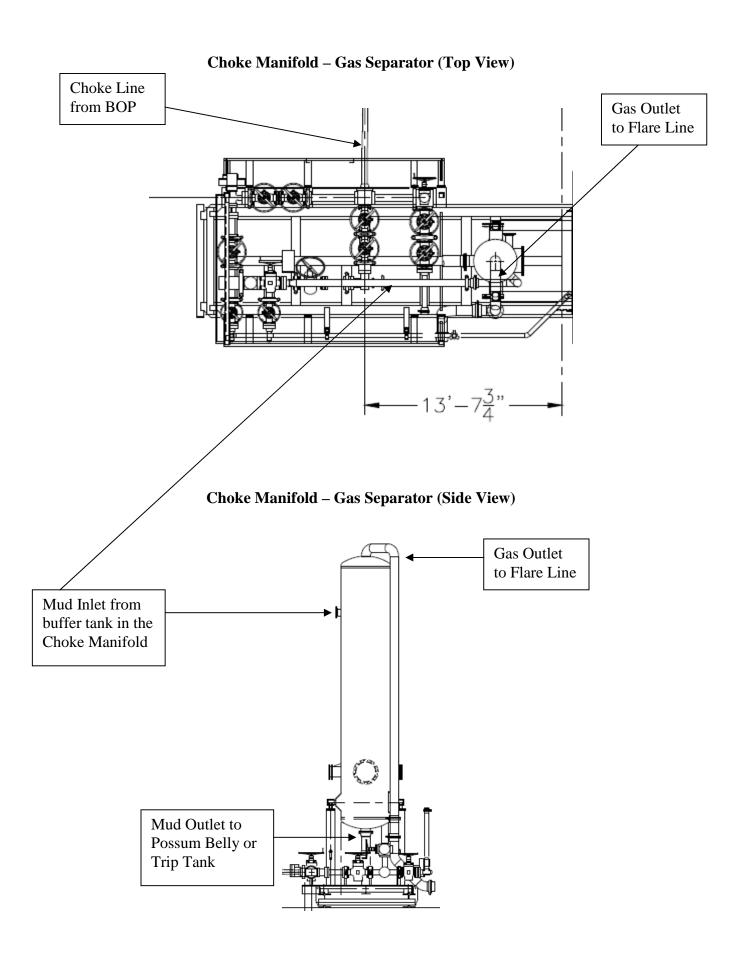
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum

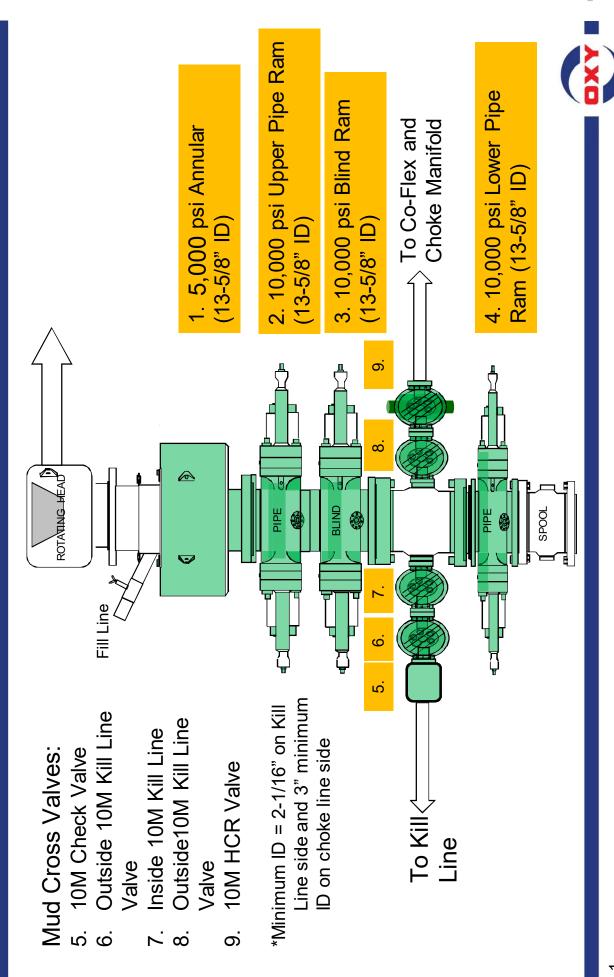




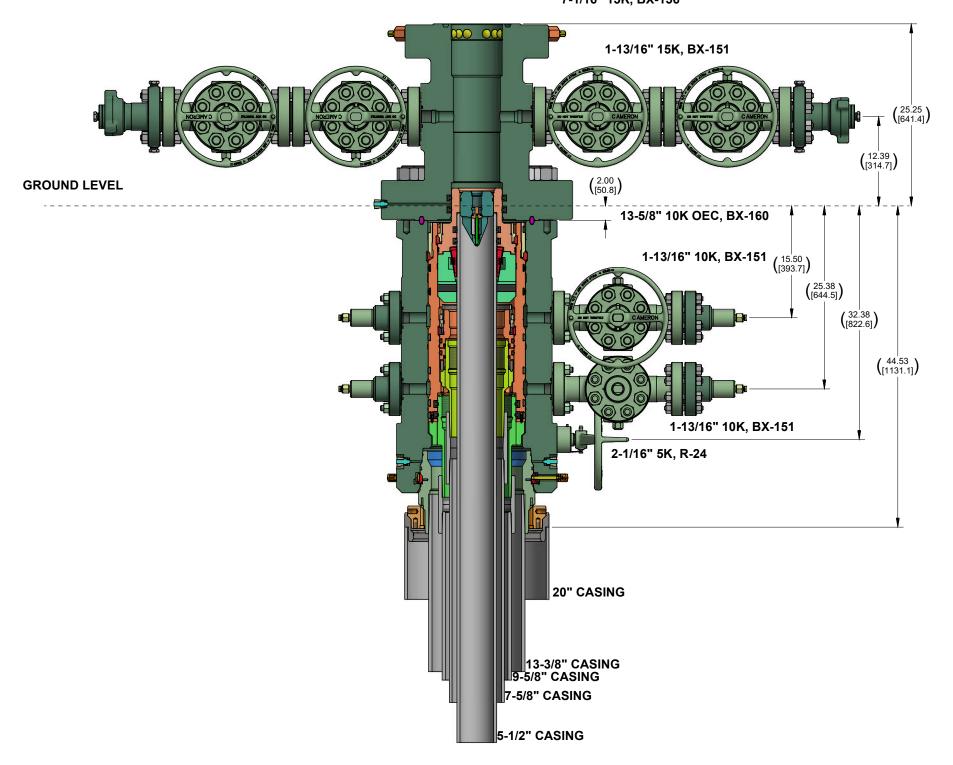




5/10M BOP Stack



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



		CONF	IDEN	ITIAL	
SURFACE TREATMENT	DO NOT SC			CAMERON	SURFACE
	DRAWN BY: A. SKLENKA	26 Apr 22		A Schlumberger Company	SYSTEMS
MATERIAL & HEAT TREA	A. SKLENKA	26 Apr 22	۸۵	OXY APT NST 10K 3 STAGE	WELLHEAD
	APPROVED BY: A. SKLENKA	26 Apr 22		TANDARD / EMERGENC	
ESTIMATED WEIGHT:	7968.4 LBS INITIAL USE B/M: 3614.4 KG T# 7836394		SHEET 1 of 1	LO-096232-6	2

Certificate of Conformity



Certificate Number	COM Or	der Reference	Customer Name & Address
H100161	1429702		HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	7403823	84	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	ccepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:	Gerson Mejia-Lazo	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

Hydrostatic Test Certificate



Certificate Number COM Order Reference **Customer Name & Address** H100161 1429702 HELMERICH & PAYNE DRILLING CO Customer Purchase Order No: 740382384 1434 SOUTH BOULDER AVE TULSA, OK 74119 Project: USA **Test Center Address** Accepted by COM Inspection Accepted by Client Inspection ContiTech Oil & Marine Corp. Gerson Mejia-Lazo 11535 Brittmoore Park Drive Signed: Houston, TX 77041 USA Date: 06/27/22

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

	Item	Part No.	Description	Qnty	Serial Number	Work, Press, (psi)	Test Press. (psi)	Test Time (minutes)
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30 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

70024

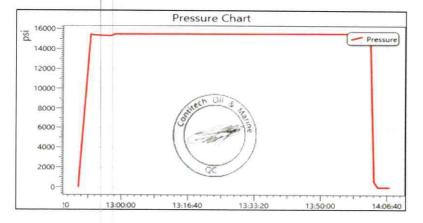
10,000

15,000

60

Record Information				
Start Time	6/8/2022 12:49:19			
End Time	6/8/2022 14:07:25			
Interval	00:01:00			
Number	79			
MaxValue	15762			
MinValue	-7			
AvgValue	14395			
RecordName	70024-sh			
RecordNumber	235			

Gauge Information				
Model	ADT680			
SN	21817380014			
Range	(0-40000)psi			
Unit	psi			



Released to Imaging: 9/30/2025 12:48:58 PM

THE8 ENED EC 23/25

Enters.

Gates Engineering & Services North America

7603 Prairie Oak Dr. Houston, TX. 77086

PHONE: (281) 602-4119

FAX:

EMAIL: Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE	PART DESCRIPTION:
ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155	
3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL	8
JOKFR3.012.0CK411610KFIXXFLT SSA SC LE	CUSTOMER P/N:
4128128 (RIG 1 PO 002773)	CUSTOMERS P.O.#:
ASOH NITSUA ABO ONI NITSUA F-A	CUSTOMER:

H2-112019-4

CLAMPS CLAMPS SERIAL #:

SALES ORDER #:

6TOZ/OZ/TT	:3TAG
AND STURBUCE	:3JTIT
Jours and	:3AUTANDI

Houston, TX 7086 7603 Prairie Oak Dr.

4128128 (RIG 1 PO 002773) **BEOH NITZUA ABO DNI NITZUA V-A**

10KFR3.012.0CK411610KF1XXFLT SSA SC LE

6246486-01000689

286915

4 1/10 TOK FLANGES FIXED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X PLOAT H2S SUITED

Test Pressure: Assembly Code: End Fitting 2:

Working Pressure:

41/20/2019

: aumeuőis SIØZ/OZ/TT : 9160

YTIJAUD Production:

Revision 1_022819 **Р**ВОВИСТІОМ

F-PRD-005

: andengi2

: ested

Quality:

management system.

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

AN23D ont in that has been calibrated in accordance with the requirements set-forth in the GESNA certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to The following hose assembly has successfully passed all pressure testing requirements set forth in Gates

Gates Engineering & Services North America certifies that:

10,000 PSI. 'ISA 000'SI F41545 113018

4 1/10 TOK ELANGES FLOAT

Norma Cabrera HZ-112019-4

6102/02/11

PRESSURE TEST CERTIFICATE

Created By:

Test Date:

Hose Serial No.:

www.gates.com

EMAIL: Troy.Schmidt@gates.com

PHONE: (281) 602 - 4119

GATES ENGINEERING & SERVICES NORTH AMERICA

Page 1/2

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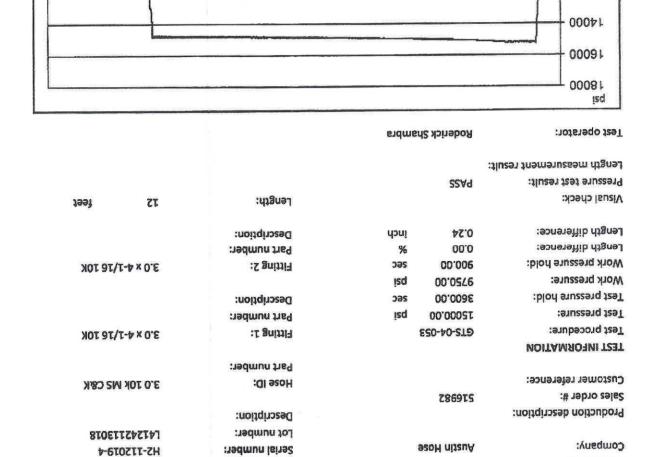
H2-1987

TEST REPORT

TEST OBJECT



CUSTOMER



əmit

H2-1987

11/20/2019 12:13:07 PM

eropp/

TEST REPORT

GAUGE TRACEABILITY

2020-03-15	2019-03-17	TTOPMCTO	W-A-25-8
A P. AO. OFOC			
2020-04-14	2019-04-16	TIOAPOZK	W-A-2S-5
			84 -W-C7-E
			Comment

Page 2/2

Filename: D:/Certificates/Report_112019-H2-112019-4.pdf

Certificate of Conformance

DW INDUSTRIES INC.

6287 Long Drive Houston, TX 77087

Tel. 713 644-8372 Fax 713-644-4947

NUMBER UNIONS	C\M CI 3,, TQ'000 bei M	OA-5640-4815-		Customer Part Number:	Purcha	
0707/97/70	Ssembly Date:		τ	CTY Ordered:	ise Ora	
Z-WG0Z9ZZO	Serial Number:	15-1001-4	81-0195-AO	DW industries Part Number: OA-		
2002002	DW Industries Work Order Number:		CONTACT PAUL I	Customer Purchase Order Number:	Purchase Order Information	
	PAUL HO	Contact:		CITADEL	Customer Name:	

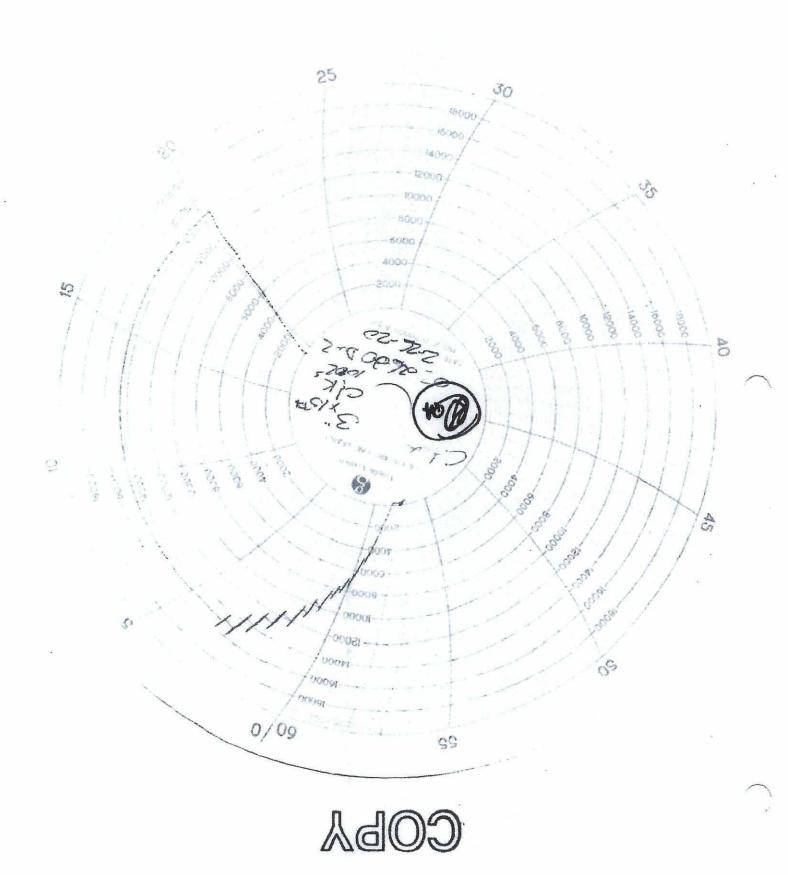
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Carrett Crawford, Director of Quality

DW Industries Inc.

- 1/2 - 1/2 - 1/3 - 1/3 - 1/4



Certificate of Conformance

COBA

HOUSTON, TX 77087

DW INDUSTRIES INC.

Tel. 713 644-8372 Fax 713-644-4947

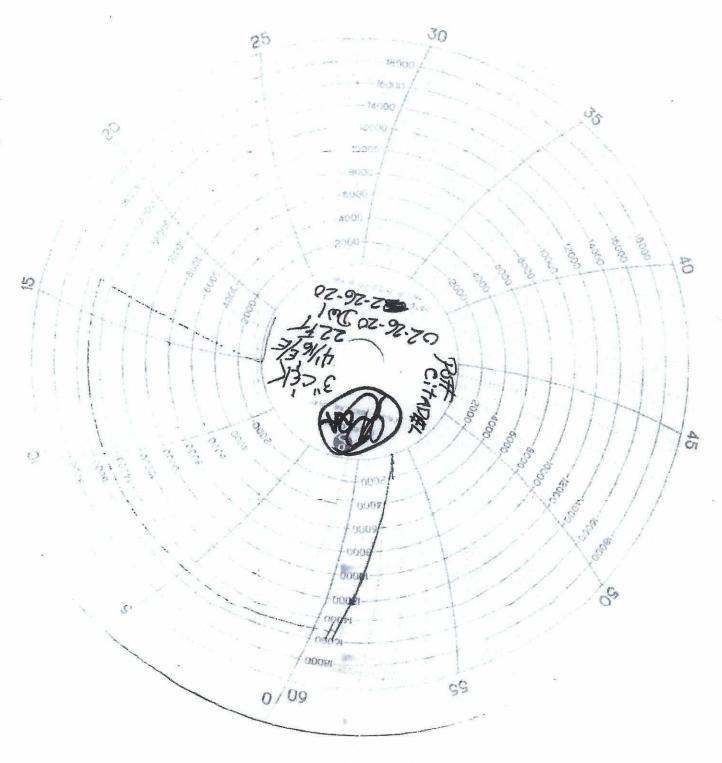
0202/56/2020 022620DW-1			OA-5640-4822-4-1/16FXFL-ALE		Purchase Order Information
20020164	DW Industries Work Order Number:	I CONTACT PALII HOFFMAN FOR		Customer Purchase Order Number:	mation
	10H JUA9 142-264	DRILLING Customer Contact:		CITADEL	Customer Name:

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKACING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality

DW Industries Inc.



COBA

Certificate of Conformance

DW INDUSTRIES INC, Hollston, TX 77087

Tel. 713 644-8372 Fax 713-644-4947

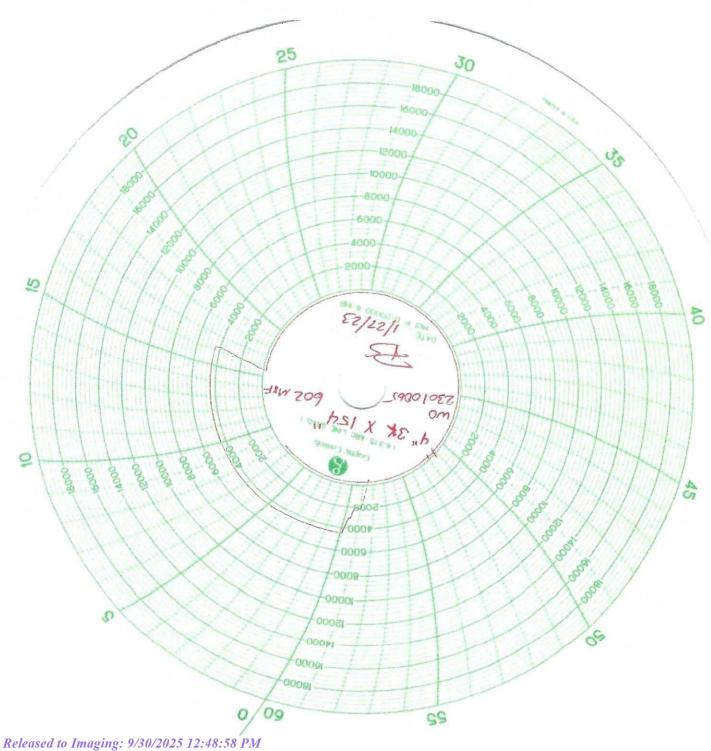
\draw EIC 602 MX	u: d"XI2d" 3K M [^]	Part Description		Customer Part Mumber:	Purchase	
1/57/2023	Steembly Date:		ī	QTY Ordered:	se Ord	
23010065	Serial Mumber:	709-"5517	-85038-AO	DW Industries Part Number:	Order Information	
23010065	DW Industries Work Order Number:	LL	670400	Customer Purchase Order Number:		
A830	וחםג דכ	ASUTIN HOSE Customer Contact:		H NITU2A	ustomer:	

Certificate Issue Date: 1/27/2023

P. Sand Some

Quality Assurance, DW Industries, Inc.

Released to Imaging: 9/30/2025 12:48:58 PM



IN SERVICE 12-20-21



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

PRESSURE TEST CERTIFICATE

Customer:

A-7 AUSTIN INC DBA AUSTIN HOSE

10/15/2021

Customer Ref.:

00595477

Hose Serial No.:

H3-101521-2

Invoice No.:

521925

Created By:

Test Date:

Micky Mhina

Product Description:

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

End Fitting 1:

Oracle Star No.:

CUSTOMER P/N:

4 1/16 10K FIXED FLANGE 68703010-10074881

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

End Fitting 2: Assembly Code:

Test Pressure:

Working Pressure:

4 1/16 10K FLOAT HEAT TREATED FLANGES
L41975 091719
15,000 PSI.
10,000 PSI.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:

Date:

Signature :

QUALITY 10/15/2021

Viola' n beul

Production:

Date:

Signature:

PRODUCTION

10/15/2021

F-PRD-005B

Revision 6_05032021



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/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER:

A-7 AUSTIN INC DBA AUSTIN HOSE

CUSTOMER P.O.#:

00595477

CUSTOMER P./N.#:

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S

PART DESCRIPTION: SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH

STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

SALES ORDER #:

521925

QUANTITY:

1

SERIAL #:

H3-101521-2

SIGNATURE:	Maya wnew	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company:

Sales order #:

Austin Distributing

TEST OBJECT

Serial number:

H3-101521-2

Lot number:

L41975091719

3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

Description:

Production description:

Customer reference:

Hose ID:

3" 10k ck

Part number:

TEST INFORMATION

Test procedure: Test pressure:

Test pressure hold:

Work pressure hold:

Length difference:

Length difference:

Work pressure:

GTS-04-053 15000.00

521925

psi

sec

inch

3600.00 psi

10000.00

900.00 sec 0.00 %

0.00

Fitting 1:

Part number:

Description:

Fitting 2:

Part number:

Description:

Visual check:

Pressure test result:

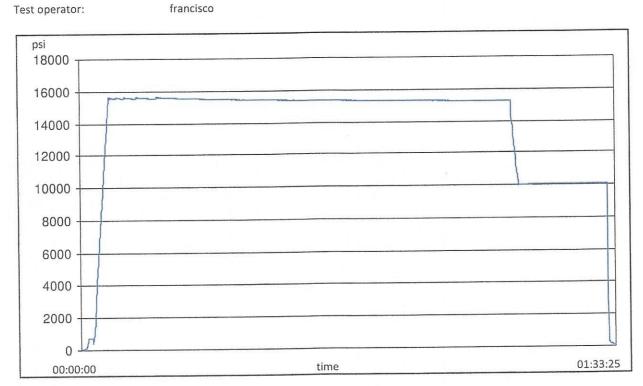
PASS

Length measurement result:

Length:

35

feet



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Page 1/2



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

GAUGE TRACEABILITY

S-25-A-W 110AQA1S	2021-02-	on date	Calibration due date
	2021-02-	24	2022-02-24
S-25-A-W 110D3PHQ	2021-03-	11	2022-03-11
Comment			

Filename: D:\Certificates\Report_101521-H3-101521-2.pdf

Hydrostatic Test Certificate

Hydrostatic Test Certification	cate	ContiTech
Com Order Reference 1429702 1429702 Customer Purchase Order No: 740382384		Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
		TULSA, OK 74119 USA
Project:	Accepted by COM Inspection	Accepted by Client Inspection
Test Center Address ContlTech Oll & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo	Why our Quality Management System, and to the best of our

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

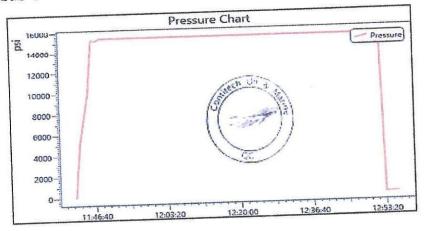
kr	nowledge are tour	a to contorn the requirement	Qnty	Serial Number	Work. Press.	Test Press.	Test Time (minutes)	
Item	Part No.	Description	Giny		(isq)	(par)		
1		250 041	1	70025	10,000	15,000	60	

RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

Record In	iformation		
Start Time	6/14/2022 11:42:08		
End Time	6/14/2022 12:56:1		
Interval	00:01:00		
Number	75		
MaxValue	15888		
MinValue	-8		
AvgValue	14184		
RecordName	70025-sh		
RecordNumber	237		

Gauge Ir	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



intinenta

Certificate of Conformity

Certificate of Comor	IIIIEY		ContiTect
H100163 14297		ler Reference	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No: 740382384			1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	ccepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:	Gerson Mejia-Lazo 07/14/22	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE

TOSANDON

4-29-22.



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16/91

ContiTech

QUAL INSPECTION	ITY CON		CATE		CERT. N	lo:	75819	
PURCHASER: ContiTech Oil & Marine Corp. P.O. N°: 4501225327					4501225327			
CONTITECH RUBBER order N	: 1127442	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL N°:	75819	NOMINAL / AC	TUAL L	ENGTH:		10,67 r	n / 10,68 m	
W.P. 69,0 MPa 10	0000 psi	T.P. 103,5	MPa	1500	00 psi	Duration:	60	min.
Pressure test with water at ambient temperature		See attachn	nent (1	I page)			
COUPLINGS Typ	96	Seria	l N°		Qu	ality	Heat N°	
3" coupling with)	602	26		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	lange end				AISI	4130	040841	
Hub					AISI	4130	54194	
3" coupling with)	601	16		AISI	4130	A0607J	
4 1/16" 10K API b.w. Fl	ange end				AISI	4130	040431	
Not Designed For W	ell Testing				API Sp		erature rate:	
WE CERTIFY THAT THE ABOVE						H THE TERM	IS OF THE ORDER	
STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced s	': We hereby the above Purc tandards, codes	certify that the ab chaser Order and and specifications	ove items that thes and mee	/equipme e items/e et the rele	ent supplied equipment vant accep	were fabricat	ed inspected and te	sted in
		COUNTRY OF O	RIGIN HU	NGARY/E	EU			
Date: Ontification Quality Control Contification Industrial Kft. Quality Control Dept. (1) Source Ontification Contification Contif) se			



Prepared by	C	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer:	HELI	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK,TX,77547-2738			4	
User contact:	MI	ITCH MCKINNIS		Phone:	e-mail: <u>mitch.mckinnis@hp</u>				oinc.com
	-	Parame	ete	ers	•	Н	ose Deta	ils	Test Status
		РО			740398454 (88000240 Si	N:700)35)		
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
	Hose ID:			3 IN					
nose type.		INSPECT AND RETEST CUST C/W 4-1/16 FLANGES BX15			35FT CHOKE & KILL ASSEMBLY ACH END				
Application	า								D 4 6 6
Informatio	n	Working pressi	ure	2:	10000 PSI.	•			PASS

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairabledamages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.

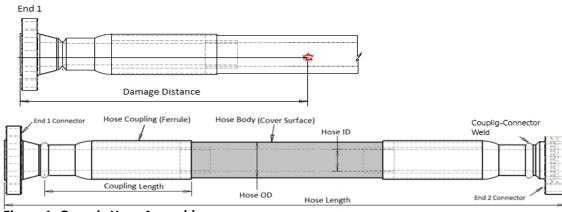


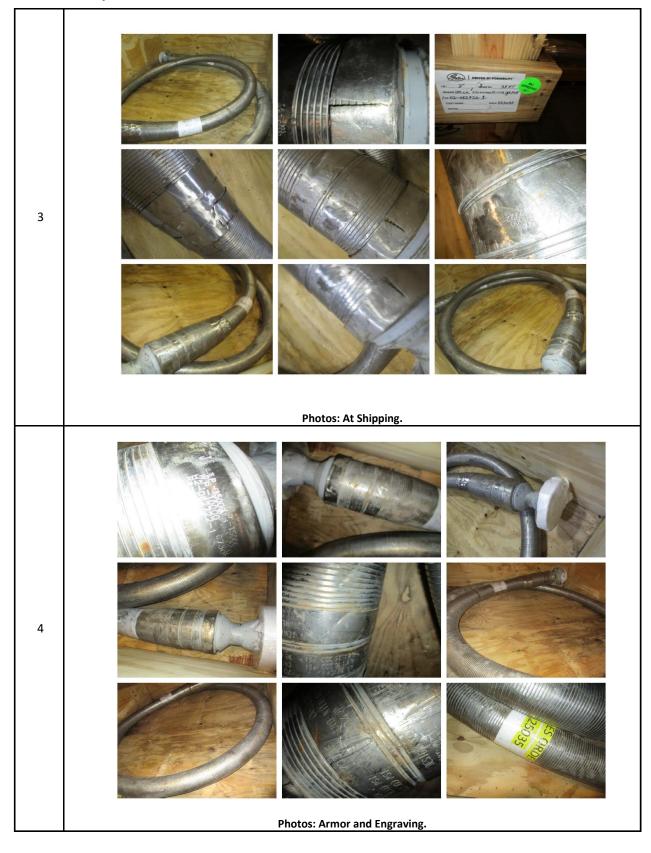
Figure 1: Generic Hose Assembly



1.0 Observations and comments



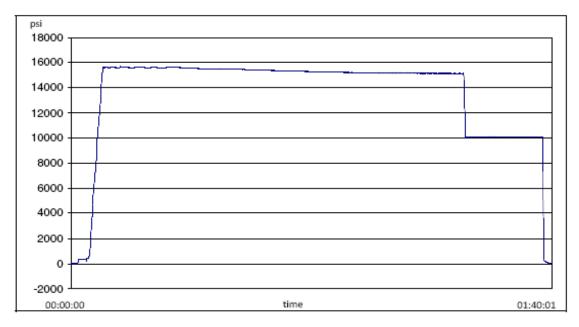








2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL	3 10K C&K	2022-08-27	Martin Orozco
	ASSEMBLY C/W 4-1/16	3 100 C&0	2022-06-27	Iviai tiii Olozco

2.2 Gates Hydrostatic Pressure tester

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09



2.3 Hydro Static Test Pressure results

	Details	Results		
1	Hydrostatic Test Results (1)	Pass	Fail	
2	Failure Mode	None		
3	Hose Dispatched to the customer?	Yes	No	

Note:

1. Hydrostatic Pressure report is given in Appendix 1

${\bf 3.}\,\, {\bf Hose}\, {\bf borescope}\, {\bf inspection}\,$

3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None

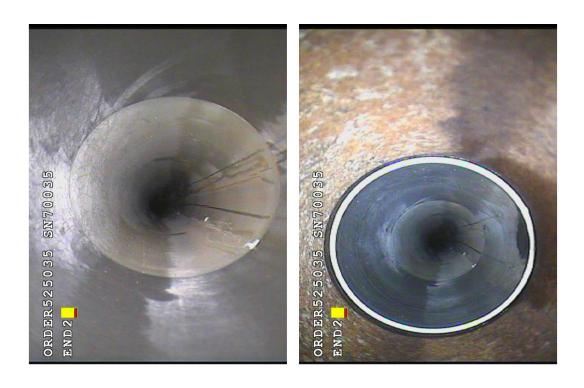




Photos: Liner/Coupling Interface END 1

F-ENG-001 Page: 5 of 9 Revision_0_042419





Photos: Liner/Coupling Interface END 2

Note

Borescope completed? Yes

4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.



APPENDIX 1: Pressure Chart



H2-8316

8/27/2022 8:51:22 AM

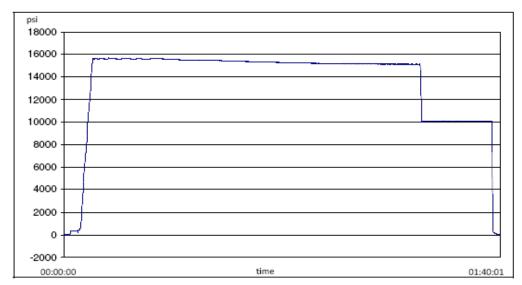
TEST REPORT

TEST OBJECT CUSTOMER Company: Serial number: H2-082722-1 Lot number: Production description: Description: Sales order #: 525035 740398454 (88000240 | Customer reference: Hose ID: 3 10k C&K SN:70035) Part number: TEST INFORMATION 3 10K C&K 3.0 x 4-1/16 10K Test procedure: Fitting 1: 15000.00 Test pressure: Part number: psi Test pressure hold: 3600.00 Description: Work pressure: 10000.00 Work pressure hold: 900.00 Fitting 2: 3.0 x 4-1/16 10K sec Length difference: 0.00 % Part number: Length difference: Description:

Visual check: Length: 35 feet

PASS Pressure test result: Length measurement result:

Test operator: Martin



Filename: D:\Certificates\Report_082722-H2-082722-1.pdf Page 1/2

Page 187 of 189

Hose Assembly Evaluation Sheet





H2-8316

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TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09
Comment			

Filename: D:\Certificates\Report_082722-H2-082722-1.pdf Page 2/2 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

ACKNOWLEDGMENTS

Action 500530

ACKNOWLEDGMENTS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	500530
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 500530

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	500530
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
melissaguidry	Cement is required to circulate on both surface and intermediate1 strings of casing.	8/29/2025
melissaguidry	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	8/29/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/30/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/30/2025
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.	9/30/2025
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.	9/30/2025