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. NMNM86710 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 GOLD LOG 4 9 FEDERAL COM 12H 2. Name of Operator 9. API Well No. **OXY USA INCORPORATED** 30-025-53809 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 BILBREY BASIN/BONE SPRING 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 4/T22S/R32E/NMP At surface LOT 4 / 397 FNL / 1106 FWL / LAT 32.426828 / LONG -103.684713 At proposed prod. zone SWSW / 20 FSL / 1085 FWL / LAT 32.3989742 / LONG -103.6847253 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State LEA NM 26 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 397 feet location to nearest property or lease line, ft. 1279.0 (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 9483 feet / 20367 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 3797 feet 06/01/2024 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) STEPHEN JANACEK / Ph: (713) 366-5716 07/21/2023 Title Regulatory Engineer Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 10/29/2024 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



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: LOT 4 / 397 FNL / 1106 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.426828 / LONG: -103.684713 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2636 FSL / 1084 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.4061649 / LONG: -103.6847395 (TVD: 9495 feet, MD: 17750 feet)

PPP: SWNW / 1322 FNL / 1083 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.4097976 / LONG: -103.6847468 (TVD: 9502 feet, MD: 16429 feet)

PPP: NWNW / 0 FNL / 1082 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.4134304 / LONG: -103.684754 (TVD: 9508 feet, MD: 15107 feet)

PPP: NWSW / 2627 FNL / 1031 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4206971 / LONG: -103.6847684 (TVD: 9521 feet, MD: 12464 feet)

PPP: SWNW / 1309 FNL / 1083 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4243208 / LONG: -103.6847756 (TVD: 9527 feet, MD: 11145 feet)

PPP: LOT 4 / 100 FNL / 1085 FWL / TWSP: 22S / RANGE: 32E / SECTION: 4 / LAT: 32.4276437 / LONG: -103.6842932 (TVD: 9533 feet, MD: 9936 feet)

BHL: SWSW / 20 FSL / 1085 FWL / TWSP: 22S / RANGE: 32E / SECTION: 9 / LAT: 32.3989742 / LONG: -103.6847253 (TVD: 9483 feet, MD: 20367 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.

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<u>C-10</u>	<u>)2</u>		En	erov Mir	State of New nerals & Natura		Revised July 9, 202			
Submi	t Electronical	lv	Lin			TION DIVISION	iliciit		1	
	D Permitting							Submittal	✓ Initial Su	
								Type:	☐ Amende	d Report
									☐ As Drille	ed
			1			TION INFORMATION				
API N	30-	025-53809				Pool Name BILBF		ASIN;		
		4838				3 4_9 FED	COM		Well Numb	
OGRII 16696			Operator Na		Y USA	INC.			Ground Lev 3795'	el Elevation
Surfac	e Owner: \square	State □ Fee □	l Tribal 🗹 Fed	eral		Mineral Owner:	State Fee	🗆 Tribal 🗹	Federal	
					Surfa	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
L4	4	22S	32E		397' FN	L∣1106' FWI	_ 32.4268	32825 -1	03.68471295	LEA
	I			1	Bottom	Hole Location	l	l		1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County
M	9	22S	32E		20' FSL	_ 1085' FWI	_ 32.3989	97422 -1	03.68472537	LEA
				T						
	9.16	Infill or Defi	ning Well	Defining	Well API	Overlapping Spacin	g Unit (Y/N)	Consolidat	ion Code	
Order	Numbers. R	-22684		•		Well setbacks are u	nder Common	Ownership: [□Yes □No	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
M	33	21S	32E		300' FS	L 1085' FWI	32.4287	74320 -1	03.68478363	LEA
				ı	First Ta	ake Point (FTP)				1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County
L4	4	22S	32E		100' FN	L 1085' FWI	_ 32.4276	64372 -1	03.68478225	LEA
					Last Ta	ike Point (LTP)		ļ		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County
M	9	22S	32E		100' FS	L 1085' FWI	_ 32.399	19412 -1	03.68472569	LEA
Haitin	ad Amaa am Aa	rea of Uniform	Intonact			.1.D.W: 1	Cross	nd Floor Elev	votion.	
Unitiz	ed Area or A	rea of Uniform	interest	Spacing	Unit Type 🗹 Horiz	zontal Vertical	3795		vation:	
OPER	ATOR CERT	TIFICATIONS				SURVEYOR CERTIF	ICATIONS			
			tained herein is i	rue and com	plete to the best of			um on this pla	t was plotted for	um field notes of active
my kno	wledge and bel	ief, and, if the wel	l is a vertical or	directional w	vell, that this	I hereby certify that the surveys made by me or un				
includii	ng the proposed	vns a working inte d bottom hole loca	ition or has a rig	ht to drill thi	s well at this	my belief.		1	B SURVEYOR CERTIFICATE	ION
					r unleased mineral g order heretofore				I hereby certify that the well loc shown on this plat was plotted i notes of actual surveys made by under my supervision, and that	from field o me or
	by the division		<i>F</i>		- -				is true and correct to the best of	fmy

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

Certificate Number

Signature and Seal of Professional Surveyor

Date of Survey

July 3, 2023

STONAL SUP

melissa_guidry@oxy.com

Melissa Guidry

Signature

Printed Name

Email Address

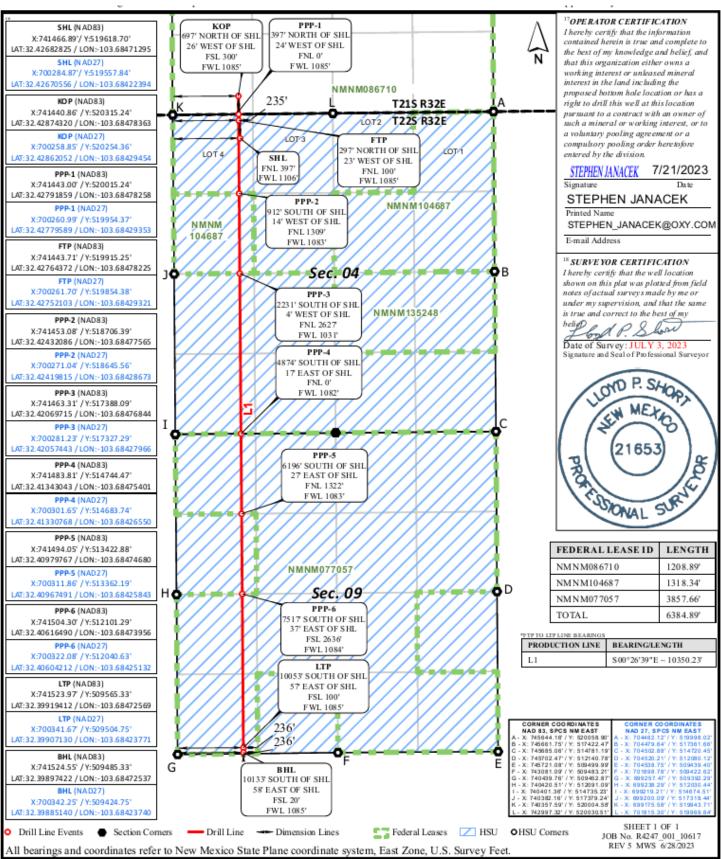
Melissa Guidry

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.

10/29/24

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

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



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 Manaş	gement Plan m	Section	ith each Applicat 1 — Plan D Tective May 25,	escription	Orill (A	PD) for a n	new or	r recompleted well.
I. Operator: OXY US			OGRID: <u>16</u>	6696	(6)(b) N			2 2/2 3
If Other, please describe	e:							
III. Well(s): Provide the be recompleted from a s					wells pr	roposed to	be dri	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D	
SEE ATTACHED								<i>BBE</i> / <i>B</i>
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informa			vell or s			7.9(D)(1) NMAC] osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
SEE ATTACHED								
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planne	tices: Attac of 19.15.27.8	ch a complete descr NMAC. ☑ Attach a comple	ription of the ac	tions Operator wil	l take to	o comply v	with t	he 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 Gathering System (NGGS):

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 natu	ral gas
production volume from the well prior to the date of first production.	

XIII. Line Pi	ressure. Ope	erator does	\square does not	anticipate t	hat its existin	g well(s) co	nnected to	the same se	gment,	or portion,	of the
natural gas ga	athering syst	em(s) describe	ed above wil	l continue to	o meet anticij	oated increa	ses in line	pressure cau	ised by	the new w	ell(s).

		· •	1 .		1	•	1		1.
1 1	Affach (Inerator's	s nlan ta	manage	nroduction	in resnonce	to the	increased	line pressure

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

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Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

(a) power generation on lease;

If Operator checks this box, Operator will select one of the following:

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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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: Roni Mathew
Printed Name: Roni Mathew
Title: Regulatory Advisor
E-mail Address: roni_mathew@oxy.com
Date: 02/22/2023
Phone: 713-215-7827
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
GOLD LOG 4_9 FED COM 11H	Pending	D-4-22S-32E	396 FNL 1076 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 12H	Pending	D-4-22S-32E	397 FNL 1106 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 13H	Pending	D-4-22S-32E	397 FNL 1136 FWL	1500	3500	4630
GOLD LOG 4_9 FED COM 14H	Pending	B-4-22S-32E	394 FNL 1825 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 15H	Pending	B-4-22S-32E	394 FNL 1795 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 16H	Pending	B-4-22S-32E	394 FNL 1765 FEL	1500	3500	4630
GOLD LOG 4_9 FED COM 1H	Pending	D-4-22S-32E	398 FNL 1196 FWL	1255	2700	4500
GOLD LOG 4_9 FED COM 21H	Pending	D-4-22S-32E	607 FNL 1104 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 22H	Pending	D-4-22S-32E	607 FNL 1134 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 23H	Pending	D-4-22S-32E	607 FNL 1164 FWL	1460	1667	4667
GOLD LOG 4_9 FED COM 24H	Pending	B-4-22S-32E	604 FNL 1796 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 25H	Pending	B-4-22S-32E	604 FNL 1766 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 26H	Pending	B-4-22S-32E	605 FNL 1736 FEL	1460	1667	4667
GOLD LOG 4_9 FED COM 2H	Pending	D-4-22S-32E	398 FNL 1226 FWL	1255	2700	4500
GOLD LOG 4_9 FED COM 3H	Pending	B-4-22S-32E	395 FNL 1705 FEL	1255	2700	4500
GOLD LOG 4_9 FED COM 4H	Pending	B-4-22S-32E	395 FNL 1675 FEL	1255	2700	4500
GOLD LOG 4_9 FED COM 71H	Pending	D-4-22S-32E	399 FNL 1286 FWL	1800	2750	5000
GOLD LOG 4_9 FED COM 72H	Pending	D-4-22S-32E	399 FNL 1316 FWL	1800	2750	5000
GOLD LOG 4_9 FED COM 73H	Pending	B-4-22S-32E	396 FNL 1615 FEL	1800	2750	5000
GOLD LOG 4_9 FED COM 74H	Pending	B-4-22S-32E	396 FNL 1585 FEL	1800	2750	5000
GOLD LOG 4_9 FED COM 311H	Pending	D-4-22S-32E	608 FNL 1254 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 31H	Pending	D-4-22S-32E	608 FNL 1224 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 32H	Pending	D-4-22S-32E	608 FNL 1284 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 33H	Pending	D-4-22S-32E	609 FNL 1314 FWL	3000	5000	7500
GOLD LOG 4_9 FED COM 312H	Pending	B-4-22S-32E	605 FNL 1676 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 313H	Pending	B-4-22S-32E	606 FNL 1616 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 34H	Pending	B-4-22S-32E	606 FNL 1646 FEL	3000	5000	7500
GOLD LOG 4_9 FED COM 35H	Pending	B-4-22S-32E	606 FNL 1586 FEL	3000	5000	7500

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
GOLD LOG 4_9 FED COM 11H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 12H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 13H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 14H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 15H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 16H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 1H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 21H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 22H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 23H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 24H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 25H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 26H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 2H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 3H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 4H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 71H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 72H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 73H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 74H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 311H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 31H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 32H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 33H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 312H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 313H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 34H	Pending	TBD	TBD	TBD	TBD	TBD
GOLD LOG 4_9 FED COM 35H	Pending	TBD	TBD	TBD	TBD	TBD

Central Delivery Point Name: (Lost Tank 6)

Part VI. Separation Equipment

Operator will size the flowback separator to handle 11,000 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 MarkWest's 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



Email address:

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

Operator Certification Data Report

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: STEPHEN JANA	Signed on: 10/14/2024										
Title: Regulatory Engine	er										
Street Address: 5 Green	nway Plaza, Suite 110										
City: Houston State: TX Zip: 77046											
Phone: (713)497-2417											
Email address: stephen	_janacek@oxy.com										
Field											
Representative Name:											
Street Address:											
City:	State:	Zip:									
Phone:											



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

APD ID: 10400093568

Submission Date: 07/21/2023

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4_9 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes **Show Final Text**

Section 1 - General

10400093568 APD ID: Tie to previous NOS? N Submission Date: 07/21/2023

BLM Office: Carlsbad

User: STEPHEN JANACEK

Title: Regulatory Engineer

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM86710

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? NO

APD Operator: OXY USA INCORPORATED

Operator letter of

Operator Info

Operator Organization Name: OXY USA INCORPORATED

Operator Address: P.O. BOX 1002

Operator PO Box:

Zip: 93276-1002

Operator City: TUPMAN

State: CA

Operator Phone: (661)763-6046

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: GOLD LOG 4_9 FEDERAL COM

Well Number: 12H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BILBREY BASIN

Pool Name: BONE SPRING

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:
LSTTNK_T22SR32E

Number: PAD 0401

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: INFILL Describe sub-type:

Distance to town: 26 Miles Distance to nearest well: 30 FT Distance to lease line: 397 FT

Reservoir well spacing assigned acres Measurement: 1279 Acres

Well plat: GoldLog4_9FedCom12H_SitePlan_20230721121128.pdf

GoldLog4_9FedCom12H_C102_20230721121128.pdf

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	397	FNL	110 6	FW L	22S	32E	4	Lot 4	32.42682 8	- 103.6847 13	LEA		NEW MEXI CO	F	NMNM 86710	379 7	0	0	N
KOP Leg #1	300	FSL	108 5	FW L	21S	32E	33	Aliquot SWS W	32.42874 6	- 103.6840 22	LEA	1	NEW MEXI CO	F	NMNM 86710	- 506 4	893 4	886 1	N

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FNL	108 5	FW L	22S	32E	4	Lot 4	1	- 103.6842 932	LEA		NEW MEXI CO	F	NMNM 86710	- 573 6	993 6	953 3	Υ
PPP Leg #1-2	130 9	FNL	108 3	FW L	22S	32E	4			- 103.6847 756	LEA		NEW MEXI CO	F	NMNM 104687	- 573 0	111 45	952 7	Υ
PPP Leg #1-3	262 7	FNL	103 1	FW L	22S	32E	4	1		- 103.6847 684	LEA	NEW MEXI CO	1	S	STATE	- 572 4	124 64	952 1	Υ
PPP Leg #1-4	0	FNL	108 2	FW L	22\$	32E	9	1	1	- 103.6847 54	LEA		NEW MEXI CO	F	NMNM 77057	- 571 1	151 07	950 8	Y
PPP Leg #1-5	132 2	FNL	108 3	FW L	22\$	32E	9	Aliquot SWN W	1	- 103.6847 468	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 570 5	164 29	950 2	Υ
PPP Leg #1-6	263 6	FSL	108 4	FW L	22\$	32E	9			- 103.6847 395	LEA		NEW MEXI CO	F	NMNM 77057	- 569 8	177 50	949 5	Y
EXIT Leg #1	100	FSL	108 5	FW L	22\$	32E	9	1		- 103.6847 256	LEA	1	NEW MEXI CO	F	NMNM 77057	- 568 7	202 86	948 4	Y
BHL Leg #1	20	FSL	108 5	FW L	22\$	32E	9		1	- 103.6847 253	LEA	NEW MEXI CO			NMNM 77057	- 568 6	203 67	948 3	N



SITE PLAN

LSTTNK_T22SR32E_0401 SEC. 4 TWP. 22-S RGE. 32-E SURVEY: N.M.P.M.

COUNTY: LEA

TANK BATTERY RECLAMATION 30' TOP SOIL

20' DISTURBANCE AREA



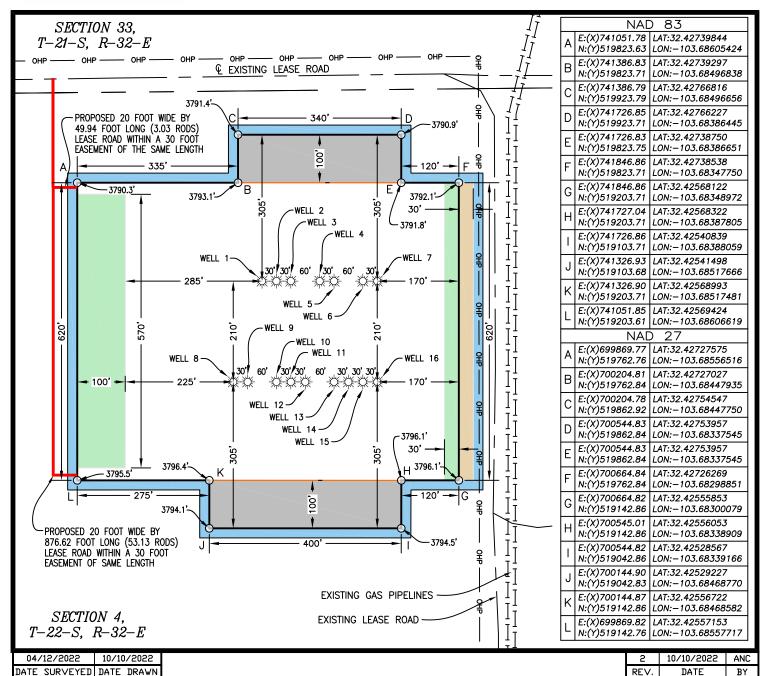


OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

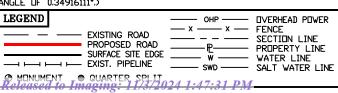
FAA PERMIT NEEDED: NO

100' 0' 100' 200' SCALE: 1" = 200'



BASIS OF BEARING

ALL BEARINGS AND COURDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COURDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COURDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111.)







PREPARED BY:
R-SQUARED GLOBAL, LLC
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WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4247_001
SHEET 1 OF 2



SITE PLAN

LSTTNK T22SR32E 0401 SEC. 4 TWP. 22-S RGE. 32-E SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO

WELL 1 GOLD LOG 4_9 FED COM 11H OXY USA, INC. OXY USA, INC.
396' FNL 1076' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741436.89' / Y:519618.70'
LAT:32.42682875N / LON:103.684481018W
NAD 27, SPCS NM EAST
X:7000254.87' / Y:519557.84'
LAT:32.42670606N / LON:103.68432116W
ELEVATION = 3795'

WELL 2 GOLD LOG 4_9 FED COM 12H OXY USA, INC. OXY USA, INC.

397' FNL 1106' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741466.89' / Y:519618.70'
LAT:32.42682825N / LON:103.68471295W
NAD 27, SPCS NM EAST
X:700284.87' / Y:519557.84'
LAT:32.42670556N / LON:103.68422394W
F1 FVATION = 3795' FIFVATION = 3795'

WELL 3
GOLD LOG 4_9 FED COM 13H OXY USA, INC. 397' FNL 1136' FWL, SECTION 4 NAD 83, SPCS NM EAST NAU 83, SPCS NM EAST X:741496.89' / Y:519618.70' LAT:32.42682775N / LON:103.68461573W NAD 27, SPCS NM EAST X:700314.87' / Y:519557.84' LAT:32.42670506N / LON:103.68412672W ELEVATION = 3794'

WELL 4
GOLD LOG 4_9 FED COM 1H OXY USA, INC. OXY USA, INC.

398' FNL 1196' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741556.89' / Y:519618.70'

LAT:32.42682675N / LON:103.68442128W
NAD 27, SPCS NM EAST
X:700374.87' / Y:519557.84'

LAT:32.42670405N / LON:103.68393228W
FI FVATION = 3797' FIFVATION = 3797

WELL 5 WELL 5
GOLD LOG 4_9 FED COM 2H
OXY USA, INC.
398' FNL 1226' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741586.89' / Y:519618.70'
LAT:32.42682625N / LON:103.68432405W NAD 27, SPCS NM EAST X:700404.87' / Y:519557.84' LAT:32.42670355N / LON:103.68383506W ELEVATIÓN = 3795'

WELL 6 WELL 6
GOLD LOG 4_9 FED COM 71H
OXY USA, INC.
399' FNL 1286' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741646.89' / Y:519618.70'
LAT:32.42682525N / LON:103.68412960W NAD 27, SPCS NM EAST X:700464.87' / Y:519557.84' LAT:32.42670255N / LON:103.68364061W ELEVATIÓN = 3797'

WELL 7 GOLD LOG 4_9 FED COM 72H OXY USA, INC. 399' FNL 1316' FWL, SECTION 4 NAD 83, SPCS NM EAST X:741676.89' / Y:519618.70' LAT:32.42682475N / LON:103.68403238W NAD 27, SPCS NM EAST X:700494.87' / Y:519557.84' LAT:32.42670205N / LON:103.68354339W ELEVATION = 3797

WELL 8 WELL 8
GOLD LOG 4_9 FED COM 41H
OXY USA, INC.
606' FNL 1014' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741376.89' / Y:519408.70'
LAT:32.4262524N / LON:103.88500876W NAD 27, SPCS NM EAST X:700194.87' / Y:519347.85' LAT:32.42612984N / LON:103.68451976W ELEVATION = 3797'

WELL 9 GOLD LOG 4_9 FED COM 42H OXY USA, INC. 0XY USA, INC.
606' FNL 1044' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741406.89' / Y:519408.70'
LAT:32.42625204N / LON:103.684491153W
NAD 27, SPCS NM EAST
X:700224.87' / Y:519347.85'
LAT:32.42612934N / LON:103.68442254W ELEVATIÓN = 3797

WELL 10 GOLD LOG 4_9 FED COM 21H OXY USA, INC. 0XY USA, INC.
607' FNL 1104' FML, SECTION 4
NAD 83, SPCS NM EAST
X:741466.89' / Y:519408.70'
LAT:32.42625104N / LON:103.684471708W
NAD 27, SPCS NM EAST
X:700284.86' / Y:519347.85'
LAT:32.42612834N / LON:103.68422810W ELEVATION = 3794

GOLD LOG 4_9 FED COM 22H OXY USA, INC. 607' FNL 1134' FWL, SECTION 4 NAD 83, SPCS NM EAST X:741496.89' / Y:519408.70'
LAT:32.42625054N / LON:103.68461986W
NAD 27, SPCS NM EAST X:700314.86' / Y:519347.85' LAT:32.42612784N / LON:103.68413087W ELEVATION = $3797\5$

WFII 12 GOLD LOG 4_9 FED COM 23H OXY USA, INC. OXY USA, INC.
607' FNL 1164' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741526.89' / Y:519408.70'
LAT:32.42625004N / LON:103.68452264W
NAD 27, SPCS NM EAST
X:700344.86' / Y:519347.85'
LAT:32.42612734N / LON:103.68403365W ELEVATION = 3797

WELL 13
GOLD LOG 4_9 FED COM 31H
OXY USA, INC. OXY USA, INC.
608' FNL 1224' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741586.89' / Y:519408.70'
LAT:32.42624904N / LON:103.68432819W
NAD 27, SPCS NM EAST
X:700404.86' / Y:519347.85'
LAT:32.42612634N / LON:103.68383921W
F1 FVATION = 3797' ELEVATION = 3797'

WELL 14 GOLD LOG 4_9 FED COM 311H OXY USA, INC. OXY USA, INC.
608' FNL 1254' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741616.89' / Y:519408.70'
LAT:32.42624854N / LON:103.68423096W
NAD 27, SPCS NM EAST
X:700434.86' / Y:519347.85'
LAT:32.42612583N / LON:103.68374200W
F1 EVATION = 3797' ELEVATION = 3797

WELL 15 GOLD LOG 4_9 FED COM 32H OXY USA, INC. 608' FNL 1284' FWL, SECTION 4 NAD 83, SPCS NM EAST X:741646.89' / Y:519408.70'

LAT:32.42624803N / LON:103.68413374W

NAD 27, SPCS NM EAST

X:700464.86' / Y:519347.85'

LAT:32.42612533N / LON:103.68364477W ELEVATION = 3797

WELL 16
GOLD LOG 4_9 FED COM 33H
OXY USA, INC. OXY USA, INC.

609' FNL 1314' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741676.89' / Y:519408.70'
LAT:32.42624753N / LON:103.68403652W
NAD 27, SPCS NM EAST
X:700494.86' / Y:519347.85'
LAT:32.42612483N / LON:103.68354755W
FI FVATION = 3796' ELEVATION = 3796'

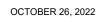
04/12/2022 10/10/2022 DATE SURVEYED DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COURDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE

ANGLE UF 0.349161	11.17		
LEGEND	EXISTING ROAD	OHP	
	PROPOSED ROAD SURFACE SITE EDGE		SECTION LINE PROPERTY LINE WATER LINE SALT WATER LINE
Released to Im	QUARTER SPLIT	24 1:47:31 PM	





OYD P. SHOR

EN MEXIC



PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
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JOB NO. R4247_001
SHEET 2 OF 2

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

M

1 API Number

22S

32E

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

LEA

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-			569	5		BILBREY BASIN, BONE SPRING							
⁴ Property Co	de			G	OLD LOG 4	roperty Name G 4_9 FED COM 12H							
⁷ OGRID NO 16696). 					or Name (SA INC.				⁹ Elevation 3795'			
					¹⁰ Surface I	Location							
UL or lot no. L 4	Section 4	Township 22S	Range 32E	Lot Idn	North/South line North	Feet from the 1106'	East/Wes Wes		LEA				
11 Bottom Hole Location If Different From Surface													

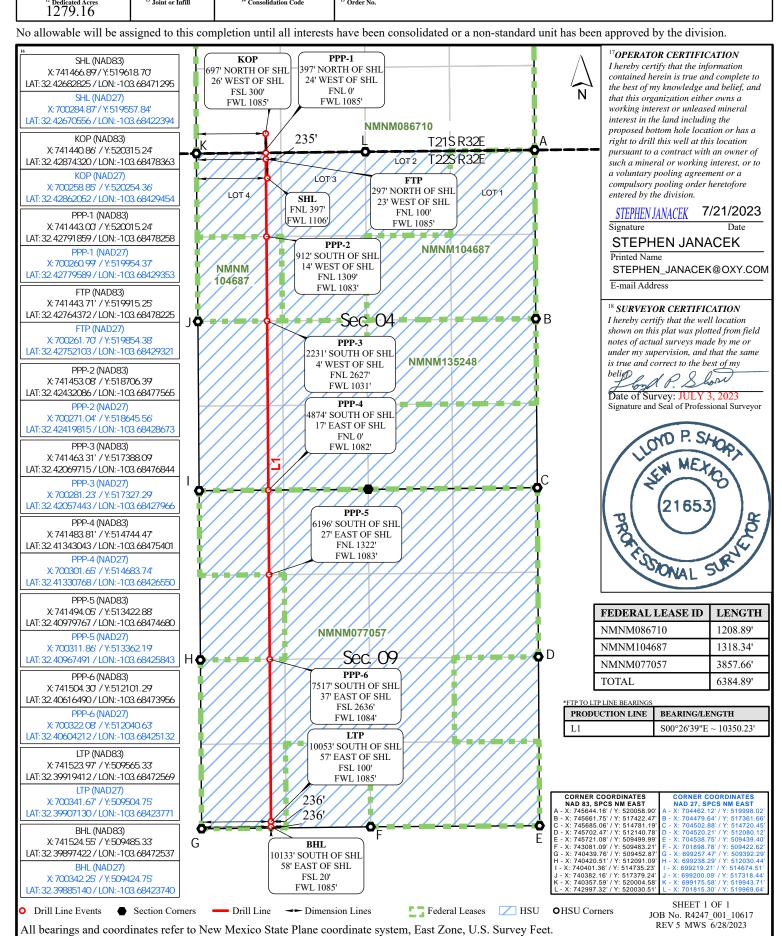
South

1085

West

Feet from 20'

5 Orde





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

Drilling Plan Data Report

Submission Date: 07/21/2023

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4_9 FEDERAL COM

Well Number: 12H

Well Type: OIL WELL

APD ID: 10400093568

Well Work Type: Drill

recent changes

Highlighted data reflects the most

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14404546	RUSTLER	3797	970	970	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
14404545	SALADO	2638	1159	1159	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
14404543	CASTILE	1189	2608	2608	ANHYDRITE	OTHER : SALT	N
14404547	DELAWARE	-1006	4803	4813	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14404548	BELL CANYON	-1110	4907	4919	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER: OIL/GAS/BRINE	Y
14404549	CHERRY CANYON	-1928	5725	5750	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14404550	BRUSHY CANYON	-3156	6953	6997	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
14404544	BONE SPRING	-4985	8782	8854	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 9533

Equipment: 13-5/8" 5M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: 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. 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

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

as discussed with the BLM on October 8, 2015. 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. 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 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.

Choke Diagram Attachment:

GOLDLOG4_9FEDCOM12H_ChkManifolds_20240821144701.pdf

BOP Diagram Attachment:

GOLDLOG4_9FEDCOM12H_13inADAPT_10.75in_7.625in_10x10_20240821144705.pdf

GOLDLOG4_9FEDCOM12H_BOP_20240821144709.pdf

GOLDLOG4_9FEDCOM12H_FlexHoseCert_20240821144714.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	1030	0	1030	3797	2767	1030	J-55	45.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	8834	0	8761		-4964	8834	HCL -80	26.4	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	20367	0	9533		-5736	20367	P- 110		OTHER - SPRINT SF	1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

C!	A 44 I-	
Casing	Attach	ments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom12H_CsgCriteria_20230721124456.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom12H_CsgCriteria_20230721124554.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GoldLog4_9FedCom12H_CsgCriteria_20230721124523.pdf

GOLDLOG4_9FEDCOM12H_VAM_SPRINT_SF_5.5in_20ppf_P110RY_20240821144830.pdf

Section 4 - Cement

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1030	862	1.33	14.8	1146	100	CIC	Accelerator
INTERMEDIATE	Lead	2	0	7247	1117	1.71	13.3	1910	25	CI C	Accelerator
INTERMEDIATE	Lead	1	7247	8834	213	1.68	13.2	358	5	CIC	Retarder, Dispersant,
PRODUCTION	Lead		8334	2036 7	682	1.84	13.3	1255	25	CIC	Retarder,

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

	1
Top Depth	
Bottom Depth	
Mud Type	
Min Weight (lbs/gal)	İ
Max Weight (lbs/gal)	
Density (lbs/cu ft)	İ
Gel Strength (lbs/100 sqft)	
HA	
Viscosity (CP)	
Salinity (ppm)	
Filtration (cc)	
Additional Characteristics	
	1

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1030	8834	OTHER: Saturated Brine Based Mud or Oil Based Mud	8	10							
8834	2036 7	OTHER: Water- Based and/or Oil-Based Mud	8	9.6							
0	1030	WATER-BASED MUD	8.6	8.8							

Section 6 - Test, Logging, Coring

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

- GR from TD to surface (horizontal well vertical portion of hole).
- Mud Log from Bone Spring to TD.
- CBL (Production String).

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

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4759 Anticipated Surface Pressure: 2661

Anticipated Bottom Hole Temperature(F): 157

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

GOLDLOG4_9FEDCOM12H_H2S1_20240821145201.pdf GOLDLOG4_9FEDCOM12H_H2S2_20240821145205.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GoldLog4_9FedCom12H_DirectPlan_20240821145225.pdf GoldLog4_9FedCom12H_DirectPlot_20240821145230.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

GOLDLOG4_9FEDCOM12H_DrillPlan_20240821145234.pdf GOLDLOG4_9FEDCOM12H_SpudRigData_20240821145237.pdf

Other Variance attachment:

GOLDLOG4_9FEDCOM12H_BOPBreakTestingVariance_20240821145242.pdf GOLDLOG4_9FEDCOM12H_BradenheadCBLVariance_20240821145245.pdf GOLDLOG4_9FEDCOM12H_OfflineCementVariance_20240821145251.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

10/29/2024

APD ID: 10400093568

Submission Date: 07/21/2023

Highlighted data reflects the most recent changes

Operator Hame.

Operator Name: OXY USA INCORPORATED

Well Number: 12H

recent changes
Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Well Name: GOLD LOG 4_9 FEDERAL COM

Will existing roads be used? YES

Existing Road Map:

GoldLog4_9FedCom12H_ExistRoads_20230721140937.pdf 20230315_GOLD_LOG_OXY_OIM_20231019143245.pdf **Existing Road Purpose:** ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

GOLDLOG_Pad0401_NewRoads_20231019143207.pdf

New road type: LOCAL

Length: 8440

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? Y

New road access plan

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

GoldLog4_9FedCom12H_SitePlan_20230721141029.pdf

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Pad_401_1_Mile_Radius_Map_20230712085124.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

GOLDLOG4_9_Dev_LeaseFacilities_10DayLtr092623_20231019143440.pdf

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

OTHER Describe use type: Drilling

Source latitude: Source longitude:

Source datum:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000 Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation

GOLDLOG4_9FEDCOM311H_WtrSrcGRR_20230302131851.pdf GOLDLOG4_9FEDCOM311H_WtrSrcMesq_20230302131851.pdf Water_Caliche_Source_Map_Gold_Log_20240710191129.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

Aquifer comments:

Aguifer documentation:

Well depth (ft): Well casing type:

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad.

Construction Materials source location

Water_Caliche_Source_Map_Gold_Log_20240710191145.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1468 barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes. Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Laguna b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill. c. The supplier, including broken sacks, will pick up slats remaining after completion of well. d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Section 9 - Well Site

Well Site Layout Diagram:

GOLDLOG4_9FEDCOM311H_WellsiteCL_20230302131943.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: LSTTNK T22SR32E

Multiple Well Pad Number: PAD 0401

Recontouring

GoldLog4_9FedCom12H_CutFill_20230721141149.pdf

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance

(acres): 11.32

Road proposed disturbance (acres):

4.14

Powerline proposed disturbance

(acres): 6.28

Pipeline proposed disturbance

(acres): 15.27

Other proposed disturbance (acres):

0.92

Total proposed disturbance:

37.93000000000001

Disturbance Comments: See Below

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 9.47

Road interim reclamation (acres): 1.38 Road long term disturbance (acres):

2.76

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline interim reclamation (acres):

10.18

Other interim reclamation (acres): 0

Total interim reclamation:

19.68999999999998

(acres): 5.09

Other long term disturbance (acres):

Pipeline long term disturbance

Total long term disturbance:

18.2400000000000002

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Existing invasive species treatment

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan

Monitoring plan description: To be determined by the BLM.

Monitoring plan

Success standards: To be determined by the BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: OXY USA INCORPORATED	
Well Name: GOLD LOG 4_9 FEDERAL COM	Well Number: 12H
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: OTHER	
Describe: Electric Line	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,288104 ROW - Salt Water Disposal ApIn/Fac-FLPMA,289001 ROW- O&G Well Pad

ROW

SUPO Additional Information: Permian Basin MOA - To be submitted after APD acceptance. GIS Shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** N

Previous Onsite information:

Other SUPO

GOLDLOG4_9FEDCOM_NGMP_Fillable2.22.23_flat_20230712103433.pdf GoldLog4_9FedCom12H_AM_20230721141451.pdf

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

 $GoldLog 4_9 Fed Com 12 H_Stake Sheet_20230721141705.pdf$

 $GoldLog 4_9 Fed Com 12 H_V M_20230721141715.pdf$

 $9_28_29_10_ft_parallel_MPLX_ROW_OXY_9_28_2023_20231019141509.pdf$

OXY_Mewbourne_Gold_Log_Infrastructure_Letter_Agreement_FE_20231019141509.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

PWD disturbance (acres):

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Released to Imaging: 11/3/2024 1:47:31 PM

Well Name: GOLD LOG 4_9 FEDERAL COM Well Number: 12H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

10/29/2024

APD ID: 10400093568

Operator Name: OXY USA INCORPORATED

Well Name: GOLD LOG 4_9 FEDERAL COM

Well Type: OIL WELL

Submission Date: 07/21/2023

Highlighted data reflects the most recent changes Show Final Text

Well Number: 12H

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

Received by OCD: 10/29/2024 4:21:32 PM

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Oxy USA Inc. - GOLD LOG 4_9 FED COM 12H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9533	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20367	Deepest Expected Fresh Water (ft):	970

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	970	970	
Salado	1159	1159	Salt
Castile	2608	2608	Salt
Delaware	4813	4803	Oil/Gas/Brine
Bell Canyon	4919	4907	Oil/Gas/Brine
Cherry Canyon	5750	5725	Oil/Gas/Brine
Brushy Canyon	6997	6953	Losses
Bone Spring	8854	8782	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		I	1D	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	1030	0	1030	10.75	45.5	J-55	BTC
Intermediate	9.875	0	8834	0	8761	7.625	26.4	L-80 HC	BTC
Production	6.75	0	20367	0	9533	5.5	20	P-110	Sprint-SF

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

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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?	I
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	Y
500' into previous casing?	1
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

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Occidental - Permian New Mexico

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	862	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	213	1.68	13.2	5%	7,247	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1117	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	682	1.84	13.3	25%	8,334	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.

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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	✓		8761
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	
		Jivi		Double Ram	✓	200 psi / 0000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
6.75" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	9533
			_	Double Ram		200 psi / 3000 psi	
			Other*				

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

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

^{*}Specify if additional ram is utilized

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

Section	Depth - MD		Depth - TVD		Tymo	Weight	Vigogity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type	(ppg)	Viscosity	Loss
Surface	0	1030	0	1030	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1030	8834	1030	8761	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8834	20367	8761	9533	Water-Based or Oil- Based Mud	8.0 - 9.6	38-50	N/C

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

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

Logg	ing, Coring and Testing.		
Yes Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.			
No	Drill stem test? If yes, explain		
No	Coring? If yes, explain		

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4759 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	157°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	
sections and production sections. The wellhead will be secured with a night cap whenever	
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,	
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: 1468 bbls

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.

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:

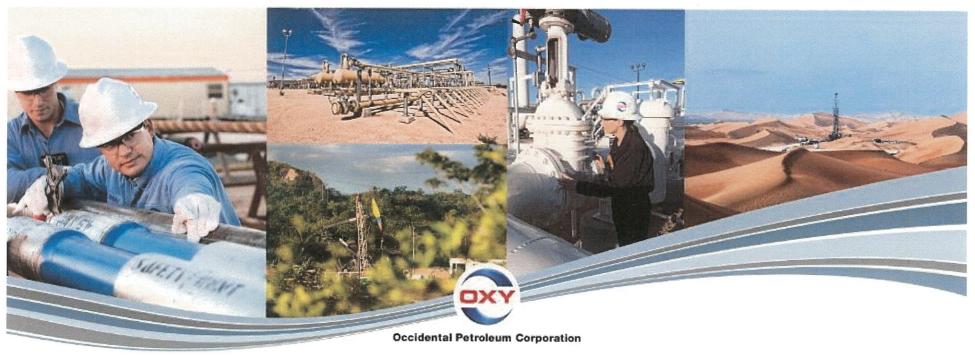
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 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



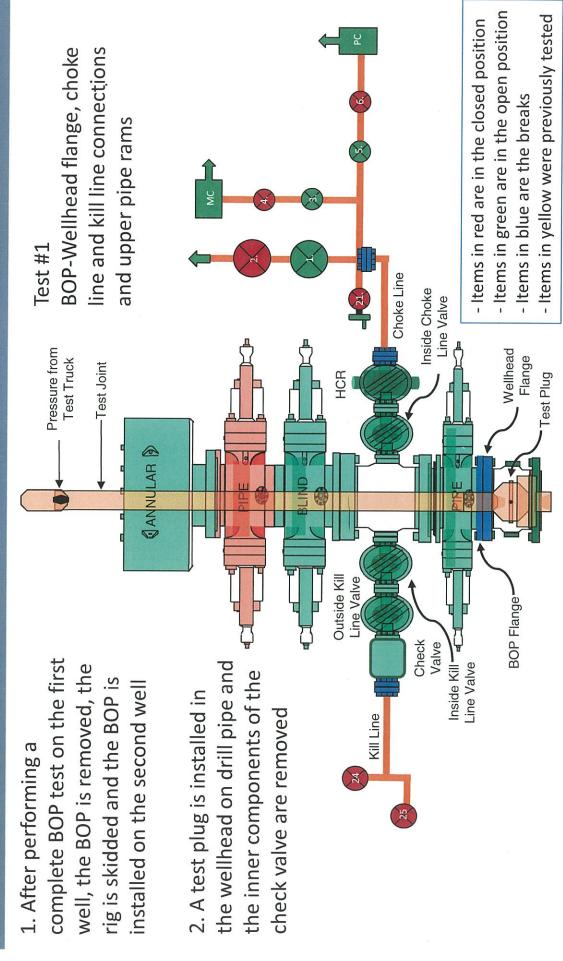
Break Testing Procedures

- 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

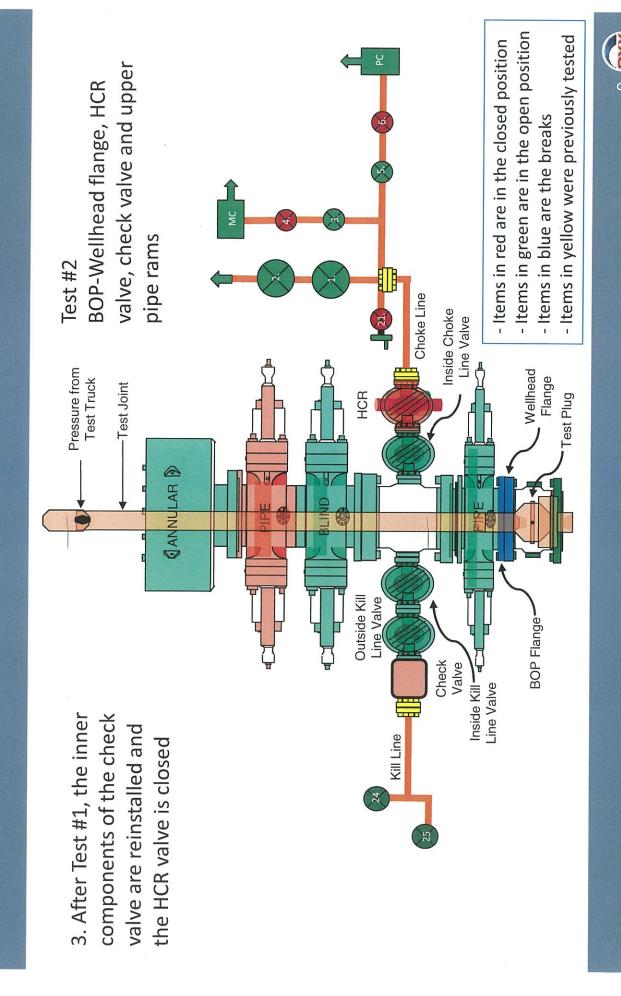


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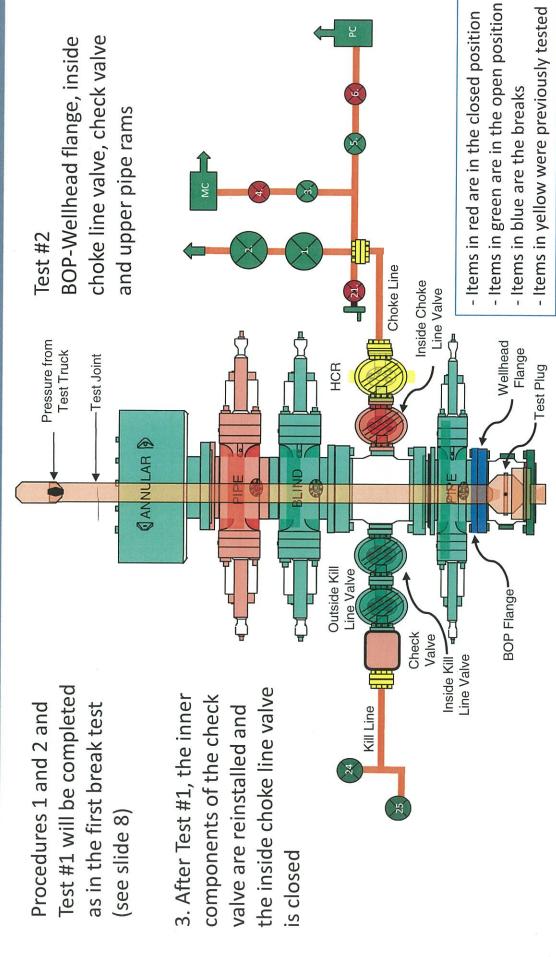
Break Testing Procedures and Tests



Break Testing Procedures and Tests



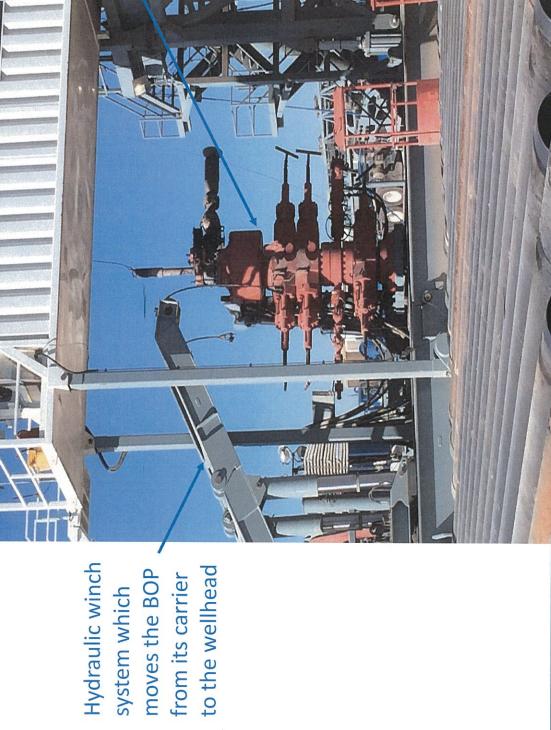
Second Break Testing Procedures and Tests



()

system which

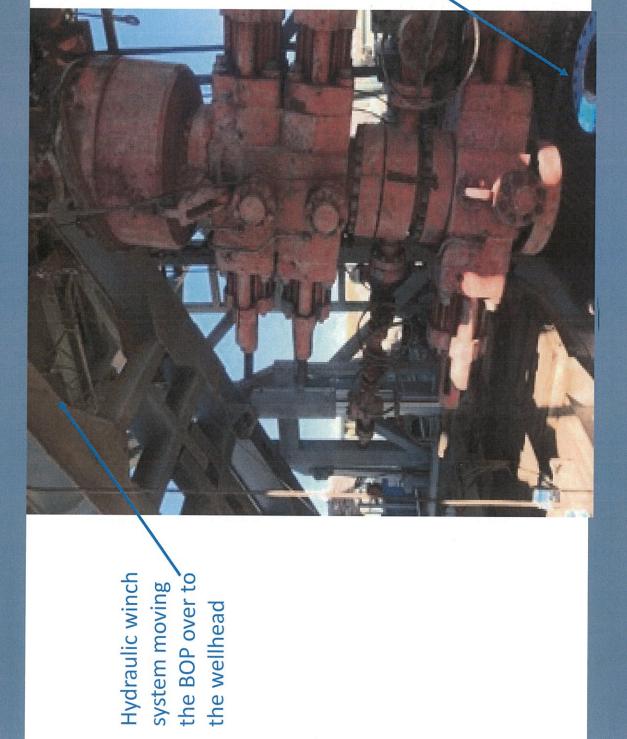
BOP standing in its carrier



BOP Handling System

12

Wellhead



BOP Handling System

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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.

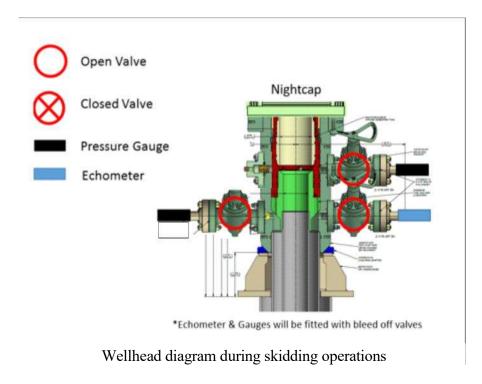
2. Offline Cementing Procedure

The operational sequence will be as follows:

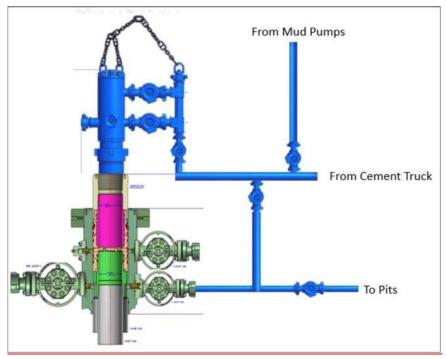
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set 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) Gold Log 4_9 Fed Com Gold Log 4_9 Fed Com 12H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

17 April, 2023

Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Gold Log 4_9 Fed Com Well: Gold Log 4_9 Fed Com 12H

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

Survey Calculation Method:

TVD Reference: 25' RKB @ 3820.00ft 25' RKB @ 3820.00ft MD Reference: North Reference:

Grid

Minimum Curvature

Well Gold Log 4_9 Fed Com 12H

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

US State Plane 1983 Map System: North American Datum 1983

Geo Datum: Map Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Using geodetic scale factor

60.08

47,702.10000000

Site Gold Log 4_9 Fed Com

Site Position: Northing: 519,408.71 usft Latitude: 32.426249 From: Мар Easting: 741,616.89 usft Longitude: -103.684231

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Gold Log 4_9 Fed Com 12H

Well Position +N/-S 0.00 ft Northing: 519.618.70 usf Latitude: 32.426828 +E/-W 0.00 ft Easting: Longitude: 741,466.89 usf -103.684713 **Position Uncertainty** 2.00 ft Wellhead Elevation: 3,795.00 ft **Ground Level:** 3,795.00 ft

Grid Convergence: 0.35°

HDGM FILE

Wellbore #1 Wellbore **Model Name** Declination Magnetics Sample Date Dip Angle Field Strength (°) (°) (nT)

4/17/2023

6.38

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 0.00 0.00 179.67

Plan Survey Tool Program Date 4/17/2023 **Depth From** Depth To (ft) (ft) Remarks Survey (Wellbore) **Tool Name** 0.00 20,367.33 Permitting Plan (Wellbore #1) B001Mb_MWD+HRGM OWSG MWD + HRGM

Plan Sections Measured Vertical Dogleg Build Turn Depth Depth +N/-S Inclination **Azimuth** +E/-W Rate Rate Rate **TFO** (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (°) **Target** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3,460.00 0.00 0.00 3,460.00 0.00 0.00 0.00 0.00 0.00 0.00 4,460.04 10.00 358.34 4,454.97 87.01 -2.52 1.00 1.00 0.00 358.34 8,933.76 10.00 358.34 8,860.72 863.57 -25.04 0.00 0.00 0.00 0.00 90.27 179.56 9,533.14 296.56 -23.18 10.00 8.01 -17.83 -178.76 FTP (Gold Log 4 9 9,936.49 179.56 90.27 9,483.14 -10,133.85 57.66 0.00 0.00 0.00 0.00 BHL (Gold Log 4_9 20,367.33

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Gold Log 4_9 Fed Com
Well: Gold Log 4_9 Fed Com 12H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Gold Log 4_9 Fed Com 12H

25' RKB @ 3820.00ft 25' RKB @ 3820.00ft

Grid

anned Survey									
umeu ourvey									
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
900.00	0.00	0.00	900.00		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		
1,700.00	0.00	0.00	,	0.00	0.00	0.00		0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
								0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,460.00	0.00	0.00	3,460.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.40	358.34	3,500.00	0.14	0.00	-0.14	1.00	1.00	0.00
3,600.00	1.40	358.34	3,599.99	1.71	-0.05	-1.71	1.00	1.00	0.00
3,700.00	2.40	358.34	3,699.93	5.02	-0.15	-5.02	1.00	1.00	0.00
3,800.00	3.40	358.34	3,799.80	10.08	-0.29	-10.08	1.00	1.00	0.00
3,900.00	4.40	358.34	3,899.57	16.88	-0.49	-16.88	1.00	1.00	0.00
4,000.00	5.40	358.34	3,999.20	25.42	-0.74	-25.42	1.00	1.00	0.00
4.100.00	6.40	358.34	4.098.67	35.69	-1.04	-35.70	1.00	1.00	0.00
4,200.00	7.40	358.34	4,197.94	47.70	-1.38	-47.71	1.00	1.00	0.00
4,300.00	8.40	358.34	4,296.99	61.44	-1.78	-61.45	1.00	1.00	0.00
4,400.00	9.40	358.34	4,395.79	76.90	-2.23	-76.91	1.00	1.00	0.00
4,460.04	10.00	358.34	4,454.97	87.01	-2.52	-87.03	1.00	1.00	0.00
4,500.00	10.00	358.34	4,494.32	93.95	-2.72	-93.97	0.00	0.00	0.00
4,600.00	10.00	358.34	4,592.80	111.31	-3.23	-111.33	0.00	0.00	0.00
4,700.00	10.00	358.34	4,691.28	128.67	-3.73	-128.69	0.00	0.00	0.00
4,800.00	10.00	358.34	4.789.77	146.03	-4.23	-146.05	0.00	0.00	0.00
4,900.00	10.00	358.34	4,888.25	163.38	-4.74	-163.41	0.00	0.00	0.00
5,000.00	10.00	358.34	4,986.73	180.74	-5.24	-180.77	0.00	0.00	0.00
5,100.00	10.00	358.34	5,085.21	198.10	-5.2 4 -5.75	-100.77	0.00	0.00	0.00
5,200.00	10.00	358.34	5,183.69	215.46	-6.25	-215.49	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Gold Log 4_9 Fed Com
Well: Gold Log 4_9 Fed Com 12H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Gold Log 4_9 Fed Com 12H

25' RKB @ 3820.00ft 25' RKB @ 3820.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	10.00	358.34	5,282.17	232.82	-6.75	-232.85	0.00	0.00	0.00
5,400.00 5,500.00	10.00 10.00	358.34 358.34	5,380.65 5,479.13	250.17 267.53	-7.26 -7.76	-250.21 -267.57	0.00 0.00	0.00 0.00	0.00 0.00
5,600.00	10.00	358.34	5,479.13 5,577.61	284.89	-7.76 -8.26	-284.93	0.00	0.00	0.00
5,700.00	10.00	358.34	5,676.09	302.25	-8.77	-302.29	0.00	0.00	0.00
5,800.00	10.00	358.34	5,774.57	319.61	-9.27	-319.66	0.00	0.00	0.00
5,900.00	10.00	358.34	5,873.05	336.97	-9.77	-337.02	0.00	0.00	0.00
6,000.00	10.00	358.34	5,971.53	354.32	-10.28	-354.38	0.00	0.00	0.00
6,100.00	10.00	358.34	6,070.01	371.68	-10.78	-371.74	0.00	0.00	0.00
6,200.00	10.00	358.34	6,168.49	389.04	-11.28	-389.10	0.00	0.00	0.00
6,300.00	10.00	358.34	6,266.98	406.40	-11.79	-406.46	0.00	0.00	0.00
6,400.00 6,500.00	10.00 10.00	358.34 358.34	6,365.46 6,463.94	423.76 441.11	-12.29 -12.79	-423.82 -441.18	0.00 0.00	0.00 0.00	0.00 0.00
6,600.00	10.00	358.34	6,562.42	458.47	-12.79	-44 1. 16 -458.54	0.00	0.00	0.00
6,700.00	10.00	358.34	6,660.90	475.83	-13.80	-475.90	0.00	0.00	0.00
6,800.00	10.00	358.34	6,759.38	493.19	-14.30	-493.26	0.00	0.00	0.00
6,900.00	10.00	358.34	6,857.86	510.55	-14.81	-510.62	0.00	0.00	0.00
7,000.00	10.00	358.34	6,956.34	527.91	-15.31	-527.98	0.00	0.00	0.00
7,100.00	10.00	358.34	7,054.82	545.26	-15.81	-545.34	0.00	0.00	0.00
7,200.00	10.00	358.34	7,153.30	562.62	-16.32	-562.71	0.00	0.00	0.00
7,300.00	10.00	358.34	7,251.78	579.98	-16.82	-580.07	0.00	0.00	0.00
7,400.00	10.00	358.34	7,350.26	597.34	-17.32	-597.43	0.00	0.00	0.00
7,500.00	10.00	358.34	7,448.74	614.70	-17.83	-614.79	0.00	0.00	0.00
7,600.00	10.00	358.34	7,547.22	632.05	-18.33	-632.15	0.00	0.00	0.00
7,700.00	10.00	358.34	7,645.70	649.41	-18.83	-649.51	0.00	0.00	0.00
7,800.00	10.00	358.34	7,744.19	666.77	-19.34	-666.87	0.00	0.00	0.00
7,900.00 8,000.00	10.00 10.00	358.34 358.34	7,842.67 7,941.15	684.13 701.49	-19.84 -20.34	-684.23 -701.59	0.00 0.00	0.00 0.00	0.00 0.00
8,100.00	10.00	358.34	8,039.63	701.49	-20.3 4 -20.85	-701.59 -718.95	0.00	0.00	0.00
8,200.00	10.00	358.34	8,138.11	736.20	-21.35	-736.31	0.00	0.00	0.00
8,300.00	10.00	358.34	8,236.59	753.56	-21.85	-753.67	0.00	0.00	0.00
8,400.00	10.00	358.34	8,335.07	770.92	-22.36	-771.03	0.00	0.00	0.00
8,500.00	10.00	358.34	8,433.55	788.28	-22.86	-788.39	0.00	0.00	0.00
8,600.00	10.00	358.34	8,532.03	805.64	-23.36	-805.76	0.00	0.00	0.00
8,700.00	10.00	358.34	8,630.51	822.99	-23.87	-823.12	0.00	0.00	0.00
8,800.00	10.00	358.34	8,728.99	840.35	-24.37	-840.48	0.00	0.00	0.00
8,900.00	10.00	358.34	8,827.47	857.71	-24.87	-857.84	0.00	0.00	0.00
8,933.76	10.00	358.34	8,860.72	863.57	-25.04	-863.70	0.00	0.00	0.00
8,950.00 9,000.00	8.38 3.38	358.10 355.92	8,876.75 8,926.47	866.16 871.28	-25.12 -25.35	-866.29 -871.41	10.00 10.00	-10.00 -9.99	-1.48 -4.36
9,050.00	1.64	187.08	8,976.45	872.04	-25.54	-872.17	10.00	-3.48	-337.68
9,100.00	6.63	181.41	9,026.30	868.44	-25.70	-868.57	10.00	9.98	-11.35
9,150.00	11.63	180.60	9,075.66	860.51	-25.83	-860.64	10.00	10.00	-1.61
9,200.00	16.63	180.28	9,124.13	848.31	-25.91	-848.44	10.00	10.00	-0.65
9,250.00	21.63	180.10	9,171.35	831.93	-25.96	-832.07	10.00	10.00	-0.36
9,300.00	26.63	179.99	9,216.97	811.50	-25.98	-811.64	10.00	10.00	-0.23
9,350.00	31.63	179.91	9,260.63	787.17	-25.95	-787.31	10.00	10.00	-0.16
9,400.00	36.63	179.85	9,302.01	759.13 727.50	-25.89	-759.26	10.00	10.00	-0.12
9,450.00 9,500.00	41.63 46.63	179.80 179.76	9,340.79 9,376.66	727.59 692.79	-25.79 -25.66	-727.72 -692.92	10.00 10.00	10.00 10.00	-0.09 -0.08
9,550.00	51.63	179.73	9,409.37	654.99	-25.49	-655.13	10.00	10.00	-0.07
9,600.00	56.63	179.73	9,409.37	614.49	-25.49 -25.29	-655.13 -614.62	10.00	10.00	-0.07 -0.06
9,650.00	61.63	179.67	9,464.31	571.59	-25.25	-571.72	10.00	10.00	-0.05
9,700.00	66.63	179.65	9,486.13	526.62	-24.78	-526.75	10.00	10.00	-0.05
9,750.00	71.63	179.63	9,503.94	479.91	-24.49	-480.04	10.00	10.00	-0.04
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Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

 Site:
 Gold Log 4_9 Fed Com

 Well:
 Gold Log 4_9 Fed Com 12H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Gold Log 4_9 Fed Com 12H

25' RKB @ 3820.00ft 25' RKB @ 3820.00ft

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)
9,800.00	76.63	179.61	9,517.61	431.84	-24.17	-431.97	10.00	10.00	-0.04
9,850.00	81.63	179.59	9,527.04	382.75	-23.82	-382.88	10.00	10.00	-0.04
9,900.00	86.63	179.57	9,532.15	333.03	-23.46	-333.16	10.00	10.00	-0.04
9,936.49	90.27	179.56	9,533.14	296.56	-23.18	-296.69	10.00	10.00	-0.04
10,000.00	90.27	179.56	9,532.84	233.05	-22.69	-233.18	0.00	0.00	0.00
10,100.00	90.27	179.56	9,532.36	133.06	-21.91	-133.18	0.00	0.00	0.00
10,200.00	90.27	179.56	9,531.88	33.06	-21.14	-33.18	0.00	0.00	0.00
10,300.00	90.27	179.56	9,531.40	-66.93	-20.36	66.82	0.00	0.00	0.00
10,400.00	90.27	179.56	9,530.92	-166.93	-19.59	166.82	0.00	0.00	0.00
10,500.00	90.27	179.56	9,530.44	-266.93	-18.81	266.81	0.00	0.00	0.00
10,600.00	90.27	179.56	9,529.96	-366.92	-18.04	366.81	0.00	0.00	0.00
10,700.00	90.27	179.56	9,529.48	-466.92	-17.26	466.81	0.00	0.00	0.00
10,800.00	90.27	179.56	9,529.40	-400.92 -566.91	-16.49	566.81	0.00	0.00	0.00
10,900.00	90.27	179.56	9,529.00	-666.91	-15.71	666.81	0.00	0.00	0.00
11,000.00	90.27	179.56	9,528.04	-766.90	-13.71 -14.94	766.81	0.00	0.00	0.00
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11,100.00	90.27	179.56	9,527.56	-866.90	-14.16	866.81	0.00	0.00	0.00
11,200.00	90.27	179.56	9,527.08	-966.90	-13.39	966.80	0.00	0.00	0.00
11,300.00	90.27	179.56	9,526.60	-1,066.89	-12.61	1,066.80	0.00	0.00	0.00
11,400.00	90.27	179.56	9,526.12	-1,166.89	-11.84	1,166.80	0.00	0.00	0.00
11,500.00	90.27	179.56	9,525.65	-1,266.88	-11.06	1,266.80	0.00	0.00	0.00
11,600.00	90.27	179.56	9,525.17	-1,366.88	-10.29	1,366.80	0.00	0.00	0.00
11,700.00	90.27	179.56	9,524.69	-1,466.88	-9.51	1,466.80	0.00	0.00	0.00
11,800.00	90.27	179.56	9,524.21	-1,566.87	-8.74	1,566.80	0.00	0.00	0.00
11,900.00	90.27	179.56	9,523.73	-1,666.87	-7.96	1,666.80	0.00	0.00	0.00
12,000.00	90.27	179.56	9,523.25	-1,766.86	-7.19	1,766.79	0.00	0.00	0.00
12,100.00	90.27	179.56	9,522.77	-1,866.86	-6.41	1,866.79	0.00	0.00	0.00
12,200.00	90.27	179.56	9,522.29	-1,966.85	-5.64	1,966.79	0.00	0.00	0.00
12,300.00	90.27	179.56	9,521.81	-2,066.85	-4.86	2,066.79	0.00	0.00	0.00
12,400.00	90.27	179.56	9,521.33	-2,166.85	-4.09	2,166.79	0.00	0.00	0.00
12,500.00	90.27	179.56	9,520.85	-2,266.84	-3.31	2,266.79	0.00	0.00	0.00
								0.00	
12,600.00	90.27	179.56	9,520.37	-2,366.84	-2.54 1.76	2,366.79	0.00	0.00	0.00
12,700.00	90.27	179.56	9,519.89	-2,466.83	-1.76	2,466.78	0.00		0.00
12,800.00	90.27	179.56	9,519.41	-2,566.83	-0.99	2,566.78	0.00	0.00	0.00
12,900.00 13,000.00	90.27 90.27	179.56 179.56	9,518.93 9,518.46	-2,666.83 -2,766.82	-0.21 0.56	2,666.78 2,766.78	0.00 0.00	0.00 0.00	0.00 0.00
			,						
13,100.00	90.27	179.56	9,517.98	-2,866.82	1.34	2,866.78	0.00	0.00	0.00
13,200.00	90.27	179.56	9,517.50	-2,966.81	2.11	2,966.78	0.00	0.00	0.00
13,300.00	90.27	179.56	9,517.02	-3,066.81	2.89	3,066.78	0.00	0.00	0.00
13,400.00	90.27	179.56	9,516.54	-3,166.81	3.66	3,166.77	0.00	0.00	0.00
13,500.00	90.27	179.56	9,516.06	-3,266.80	4.44	3,266.77	0.00	0.00	0.00
13,600.00	90.27	179.56	9,515.58	-3,366.80	5.21	3,366.77	0.00	0.00	0.00
13,700.00	90.27	179.56	9,515.10	-3,466.79	5.99	3,466.77	0.00	0.00	0.00
13,800.00	90.27	179.56	9,514.62	-3,566.79	6.76	3,566.77	0.00	0.00	0.00
13,900.00	90.27	179.56	9,514.14	-3,666.78	7.54	3,666.77	0.00	0.00	0.00
14,000.00	90.27	179.56	9,513.66	-3,766.78	8.31	3,766.77	0.00	0.00	0.00
14,100.00	90.27	179.56	9,513.18	-3,866.78	9.09	3,866.77	0.00	0.00	0.00
14,200.00	90.27	179.56	9,513.10	-3,966.77	9.86	3,966.76	0.00	0.00	0.00
14,300.00	90.27	179.56	9,512.22	-4,066.77	10.64	4,066.76	0.00	0.00	0.00
14,400.00	90.27	179.56	9,511.74	-4,166.76	11.41	4,166.76	0.00	0.00	0.00
14,500.00	90.27	179.56	9,511.27	-4,266.76	12.19	4,266.76	0.00	0.00	0.00
•									
14,600.00	90.27	179.56 170.56	9,510.79	-4,366.76	12.96	4,366.76	0.00	0.00	0.00
14,700.00	90.27	179.56	9,510.31	-4,466.75	13.74	4,466.76	0.00	0.00	0.00
14,800.00	90.27	179.56	9,509.83	-4,566.75	14.51	4,566.76	0.00	0.00	0.00
14,900.00	90.27	179.56	9,509.35	-4,666.74	15.29	4,666.75	0.00	0.00	0.00
15,000.00	90.27	179.56	9,508.87	-4,766.74	16.06	4,766.75	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Gold Log 4_9 Fed Com
Well: Gold Log 4_9 Fed Com 12H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Gold Log 4_9 Fed Com 12H

25' RKB @ 3820.00ft 25' RKB @ 3820.00ft

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)
15,100.00	90.27	179.56	9,508.39	-4,866.73	16.84	4,866.75	0.00	0.00	0.00
15,200.00 15,300.00	90.27 90.27	179.56 179.56	9,507.91 9,507.43	-4,966.73 -5,066.73	17.61 18.39	4,966.75 5,066.75	0.00 0.00	0.00 0.00	0.00 0.00
15,400.00	90.27	179.56	9,507.43	-5,000.73 -5,166.72	19.16	5,066.75	0.00	0.00	0.00
15,500.00	90.27	179.56	9,506.47	-5,266.72	19.94	5,266.75	0.00	0.00	0.00
15,600.00	90.27	179.56	9,505.99	-5,366.71	20.71	5,366.74	0.00	0.00	0.00
15,700.00	90.27	179.56	9,505.51	-5,466.71	21.49	5,466.74	0.00	0.00	0.00
15,800.00	90.27	179.56	9,505.03	-5,566.71	22.26	5,566.74	0.00	0.00	0.00
15,900.00	90.27	179.56	9,504.55	-5,666.70	23.04	5,666.74	0.00	0.00	0.00
16,000.00	90.27	179.56	9,504.07	-5,766.70	23.81	5,766.74	0.00	0.00	0.00
16,100.00	90.27	179.56	9,503.60	-5,866.69	24.59	5,866.74	0.00	0.00	0.00
16,200.00 16,300.00	90.27 90.27	179.56 179.56	9,503.12 9,502.64	-5,966.69 -6,066.68	25.36 26.14	5,966.74 6,066.74	0.00 0.00	0.00 0.00	0.00 0.00
16,400.00	90.27	179.56	9,502.04	-6,166.68	26.14	6,166.73	0.00	0.00	0.00
16,500.00	90.27	179.56	9,502.16	-6,266.68	27.69	6,266.73	0.00	0.00	0.00
16,600.00	90.27	179.56	9,501.20	-6,366.67	28.46	6,366.73	0.00	0.00	0.00
16,700.00	90.27	179.56	9,501.20	-6,366.67	29.24	6,466.73	0.00	0.00	0.00
16,800.00	90.27	179.56	9,500.72	-6,566.66	30.01	6,566.73	0.00	0.00	0.00
16,900.00	90.27	179.56	9,499.76	-6,666.66	30.79	6,666.73	0.00	0.00	0.00
17,000.00	90.27	179.56	9,499.28	-6,766.66	31.56	6,766.73	0.00	0.00	0.00
17,100.00	90.27	179.56	9,498.80	-6,866.65	32.34	6,866.72	0.00	0.00	0.00
17,200.00	90.27	179.56	9,498.32	-6,966.65	33.11	6,966.72	0.00	0.00	0.00
17,300.00	90.27	179.56	9,497.84	-7,066.64	33.89	7,066.72	0.00	0.00	0.00
17,400.00	90.27	179.56	9,497.36	-7,166.64	34.66	7,166.72	0.00	0.00	0.00
17,500.00	90.27	179.56	9,496.88	-7,266.63	35.44	7,266.72	0.00	0.00	0.00
17,600.00	90.27	179.56	9,496.41	-7,366.63	36.21	7,366.72	0.00	0.00	0.00
17,700.00	90.27	179.56	9,495.93	-7,466.63	36.99	7,466.72	0.00	0.00	0.00
17,800.00	90.27	179.56	9,495.45	-7,566.62	37.76	7,566.71	0.00	0.00	0.00
17,900.00 18,000.00	90.27 90.27	179.56 179.56	9,494.97 9,494.49	-7,666.62 -7,766.61	38.54 39.31	7,666.71 7,766.71	0.00 0.00	0.00 0.00	0.00 0.00
18,100.00	90.27	179.56	9,494.01	-7,866.61	40.09	7,866.71	0.00	0.00	0.00
18,200.00	90.27	179.56	9,493.53	-7,966.61	40.86	7,966.71	0.00	0.00	0.00
18,300.00	90.27	179.56	9,493.05	-8,066.60	41.64	8,066.71	0.00	0.00	0.00
18,400.00	90.27	179.56	9,492.57	-8,166.60	42.42	8,166.71	0.00	0.00	0.00
18,500.00	90.27	179.56	9,492.09	-8,266.59	43.19	8,266.71	0.00	0.00	0.00
18,600.00	90.27	179.56	9,491.61	-8,366.59	43.97	8,366.70	0.00	0.00	0.00
18,700.00	90.27	179.56	9,491.13	-8,466.59	44.74	8,466.70	0.00	0.00	0.00
18,800.00	90.27	179.56	9,490.65	-8,566.58	45.52	8,566.70	0.00	0.00	0.00
18,900.00	90.27	179.56	9,490.17	-8,666.58	46.29	8,666.70	0.00	0.00	0.00
19,000.00	90.27	179.56	9,489.69	-8,766.57	47.07	8,766.70	0.00	0.00	0.00
19,100.00	90.27	179.56	9,489.22	-8,866.57	47.84	8,866.70	0.00	0.00	0.00
19,200.00	90.27	179.56	9,488.74	-8,966.56	48.62	8,966.70	0.00	0.00	0.00
19,300.00	90.27	179.56	9,488.26	-9,066.56	49.39	9,066.69	0.00	0.00	0.00
19,400.00	90.27	179.56 179.56	9,487.78	-9,166.56 9,266.55	50.17 50.04	9,166.69	0.00	0.00	0.00 0.00
19,500.00	90.27	179.56	9,487.30	-9,266.55	50.94	9,266.69	0.00	0.00	
19,600.00	90.27	179.56	9,486.82	-9,366.55	51.72	9,366.69	0.00	0.00	0.00
19,700.00	90.27	179.56	9,486.34	-9,466.54	52.49	9,466.69	0.00	0.00	0.00
19,800.00 19,900.00	90.27 90.27	179.56 179.56	9,485.86 9,485.38	-9,566.54 -9,666.54	53.27 54.04	9,566.69 9,666.69	0.00 0.00	0.00 0.00	0.00 0.00
20,000.00	90.27	179.56	9,484.90	-9,766.53	54.04	9,766.69	0.00	0.00	0.00
20,100.00	90.27	179.56	9,484.42	-9,866.53	55.59	9,866.68	0.00	0.00	0.00
20,200.00	90.27	179.56	9,483.94	-9,966.52	56.37	9,966.68	0.00	0.00	0.00
20,300.00	90.27	179.56	9,483.46	-10,066.52	57.14	10,066.68	0.00	0.00	0.00
20,367.33	90.27	179.56	9,483.14	-10,133.85	57.66	10,134.01	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

 Site:
 Gold Log 4_9 Fed Com

 Well:
 Gold Log 4_9 Fed Com 12H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Gold Log 4_9 Fed Com 12H

25' RKB @ 3820.00ft 25' RKB @ 3820.00ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL (Gold Log 4_9 - plan hits target cen - Point	0.00 ter	0.00	9,483.14	-10,133.85	57.66	509,485.33	741,524.55	32.398974	-103.684726
FTP (Gold Log 4_9 - plan hits target cen - Point	0.00 ter	0.00	9,533.14	296.56	-23.18	519,915.25	741,443.71	32.427644	-103.684783

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	970.00	970.00	RUSTLER				
	1,159.00	1,159.00	SALADO				
	2,608.00	2,608.00	CASTILE				
	4,813.44	4,803.00	DELAWARE				
	4,919.04	4,907.00	BELL CANYON				
	5,749.66	5,725.00	CHERRY CANYON				
	6,996.61	6,953.00	BRUSHY CANYON				
	8,853.83	8,782.00	BONE SPRING				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3,460.00	3,460.00	0.00	0.00	Build 1°/100'
4,460.04	4,454.97	87.02	-2.52	Hold 10° Tangent
8,933.76	8,860.72	863.57	-25.04	KOP, Build & Turn 10°/100'
9,936.49	9,533.14	296.56	-23.18	Landing Point
20,367.33	9,483.14	-10,133.85	57.66	TD at 20367.33' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.: GOLD LOG 4 9 FED COM 12H
LOCATION: Section 4, T.22 S., R.32 E.
COUNTY: Lea County, New Mexico

COA

H2S	• Yes	O No	
Potash	O None	Secretary	O R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	O Critical		
Variance	O None	• Flex Hose	Other 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

Primary Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **1042** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

- survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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 **8834** 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 <u>Secretary Potash Areas</u> 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 **20,367** 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. 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 Rig.
 - ii.Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii.BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until

both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii.Manufacturer representative shall install the test plug for the initial BOP test.

- iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
- v.If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i.In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii.In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v.The results of the test shall be reported to the appropriate BLM office.
 - vi.All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii.BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 10/25/2024

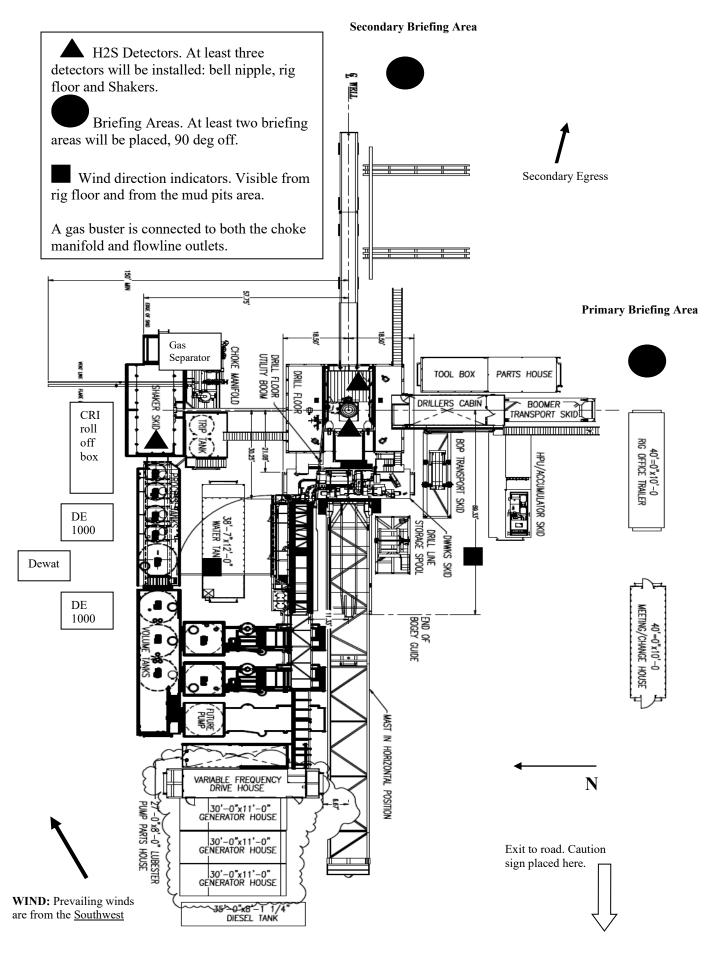


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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.

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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

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 Cvanide	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



SITE PLAN

LSTTNK_T22SR32E_0401 SEC. 4 TWP. 22-S RGE. 32-E SURVEY: N.M.P.M.

COUNTY: LEA

TANK BATTERY RECLAMATION 30' TOP SOIL

20' DISTURBANCE AREA



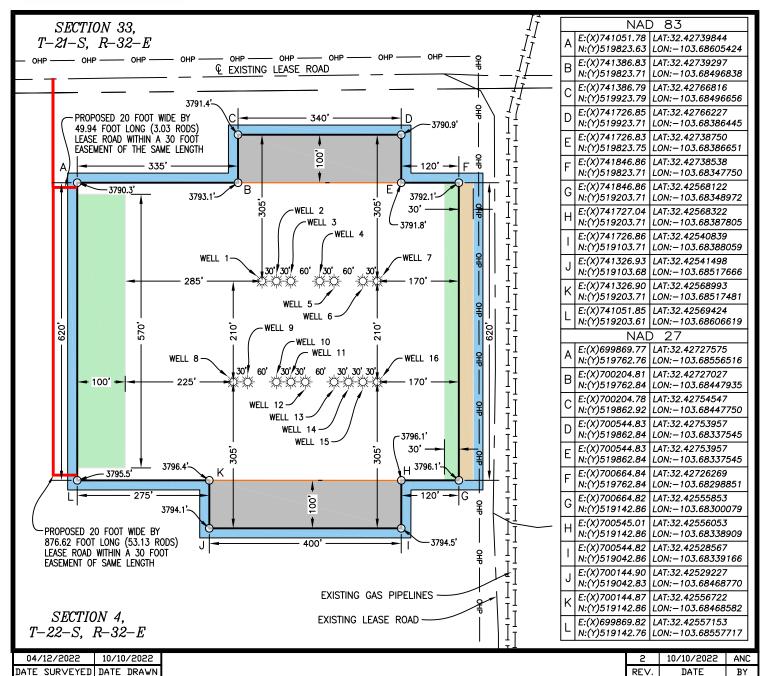


OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M.

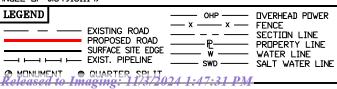
FAA PERMIT NEEDED: NO

100' 0' 100' 200' SCALE: 1" = 200'



BASIS OF BEARING

ALL BEARINGS AND COURDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COURDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COURDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111.)







PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4247_001
SHEET 1 OF 2



SITE PLAN

LSTTNK_T22SR32E_0401 SEC. 4 TWP. 22-S RGE. 32-E SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: THE DIVIDE, N.M. FAA PERMIT NEEDED: NO

WELL 1
GOLD LOG 4_9 FED COM 11H
OXY USA, INC.
396' FNL 1076' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741436.89' / Y:519618.70'
LAT:32.42682875N / LON:103.68481018W
NAD 27, SPCS NM EAST
X:7000254.87' / Y:519557.84'
LAT:32.42670606N / LON:103.68432116W
ELEVATION = 3795'

WELL 2
GOLD LOG 4_9 FED COM 12H
OXY USA, INC.
397' FNL 1106' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741466.89' / Y:519618.70'
LAT:32.42682825N / LON:103.68471295W
NAD 27, SPCS NM EAST
X:700284.87' / Y:519557.84'
LAT:32.42670556N / LON:103.68422394W
ELEVATION = 3795'

WELL 3
GOLD LOG 4_9 FED COM 13H
OXY USA, INC.
397' FNL 1136' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741496.89' / Y:519618.70'
LAT:32.4268775N / LON:103.68461573W
NAD 27, SPCS NM EAST
X:700314.87' / Y:519557.84'
LAT:32.42670506N / LON:103.68412672W
ELEVATION = 3794'

WELL 4
GOLD LOG 4_9 FED COM 1H
OXY USA, INC.
398' FNL 1196' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741556.89' / Y:519618.70'
LAT:32.42682675N / LON:103.68442128W
NAD 27, SPCS NM EAST
X:700374.87' / Y:519557.84'
LAT:32.42670405N / LON:103.68393228W
ELEVATION = 3797'

WELL 5
GOLD LOG 4_9 FED COM 2H
OXY USA, INC.
398' FNL 1226' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741586.89' / Y:519618.70'
LAT:32.42682625N / LON:103.68432405W
NAD 27, SPCS NM EAST
X:700404.87' / Y:519557.84'
LAT:32.42670355N / LON:103.68383506W
ELEVATION = 3795'

WELL 6
GOLD LOG 4_9 FED COM 71H
OXY USA, INC.
399' FNL 1286' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741646.89' / Y:519618.70'
LAT:32.42682525N / LON:103.68412960W
NAD 27, SPCS NM EAST
X:700464.87' / Y:519557.84'
LAT:32.42670255N / LON:103.68364061W
ELEVATION = 3797'

WELL 7
GOLD LOG 4_9 FED COM 72H
OXY USA, INC.
399' FNL 1316' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741676.89' / Y:519618.70'
LAT:32.42682475N / LON:103.68403238W
NAD 27, SPCS NM EAST
X:700494.87' / Y:519557.84'
LAT:32.42670205N / LON:103.68354339W
ELEVATION = 3797'

WELL 8
GOLD LOG 4.9 FED COM 41H
OXY USA, INC.
606' FNL 1014' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741376.89' / Y:519408.70'
LAT:32.42625254N / LON:103.68500876W
NAD 27, SPCS NM EAST
X:700194.87' / Y:519347.85'
LAT:32.42612984N / LON:103.68451976W
ELEVATION = 3797'

WELL 9
GOLD LOG 4_9 FED COM 42H
OXY USA, INC.
606' FNL 1044' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741406.89' / Y:519408.70'
LAT:32.42625204N / LON:103.68491153W
NAD 27, SPCS NM EAST
X:700224.87' / Y:519347.85'
LAT:32.42612934N / LON:103.68442254W
ELEVATION = 3797'

WELL 10
GOLD LOG 4_9 FED COM 21H
OXY USA, INC.
607' FNL 1104' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741466.89' / Y:519408.70'
LAT:32.42625104N / LON:103.68471708W
NAD 27, SPCS NM EAST
X:700284.86' / Y:519347.85'
LAT:32.42612834N / LON:103.68422810W
ELEVATION = 3794'

WELL 11
GOLD LOG 4_9 FED COM 22H
OXY USA, INC.
607' FNL 1134' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741496.89' / Y:519408.70'
LAT:32.42625054N / LON:103.68461986W
NAD 27, SPCS NM EAST
X:700314.86' / Y:519347.85'
LAT:32.42612784N / LON:103.68413087W
ELEVATION = 3797\5'

WELL 12
GOLD LOG 4_9 FED COM 23H
OXY USA, INC.
607' FNL 1164' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741526.89' / Y:519408.70'
LAT:32.42625004N / LON:103.68452264W
NAD 27, SPCS NM EAST
X:700344.86' / Y:519347.85'
LAT:32.42612734N / LON:103.68403365W
ELEVATION = 3797'

WELL 13
GOLD LOG 4_9 FED COM 31H
OXY USA, INC.
608' FNL 1224' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741586.89' / Y:519408.70'
LAT:32.42624904N / LON:103.68432819W
NAD 27, SPCS NM EAST
X:700404.86' / Y:519347.85'
LAT:32.42612634N / LON:103.68383921W
ELEVATION = 3797'

WELL 14
GOLD LOG 4_9 FED COM 311H
OXY USA, INC.
608' FNL 1254' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741616.89' / Y:519408.70'
LAT:32.42624854N / LON:103.68423096W
NAD 27, SPCS NM EAST
X:700434.86' / Y:519347.85'
LAT:32.42612583N / LON:103.68374200W
ELEVATION = 3797'

WELL 15
GOLD LOG 4_9 FED COM 32H
OXY USA, INC.
608' FNL 1284' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741646.89' / Y:519408.70'
LAT:32.42624803N / LON:103.68413374W
NAD 27, SPCS NM EAST
X:700464.86' / Y:519347.85'
LAT:32.42612533N / LON:103.683644477W
ELEVATION = 3797'

WELL 16
GOLD LOG 4_9 FED COM 33H
OXY USA, INC.
609' FNL 1314' FWL, SECTION 4
NAD 83, SPCS NM EAST
X:741676.89' / Y:519408.70'
LAT:32.42624753N / LON:103.68403652W
NAD 27, SPCS NM EAST
X:700494.86' / Y:519347.85'
LAT:32.42612483N / LON:103.68354755W
ELEVATION = 3796'

04/12/2022 10/10/2022 DATE SURVEYED DATE DRAWN

2	10/10/2022	ANC
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977749 CONVERGENCE ANGLE OF 0.34916111.)

ANGLE UF 0.34716111 .7		
LEGEND		OVERHEAD POWER
PROPO SURFAI 	NG ROAD	SECTION LINE PROPERTY LINE WATER LINE SALT WATER LINE
Released to Imagin	g: 11/3/2024 1:47:31 PM	

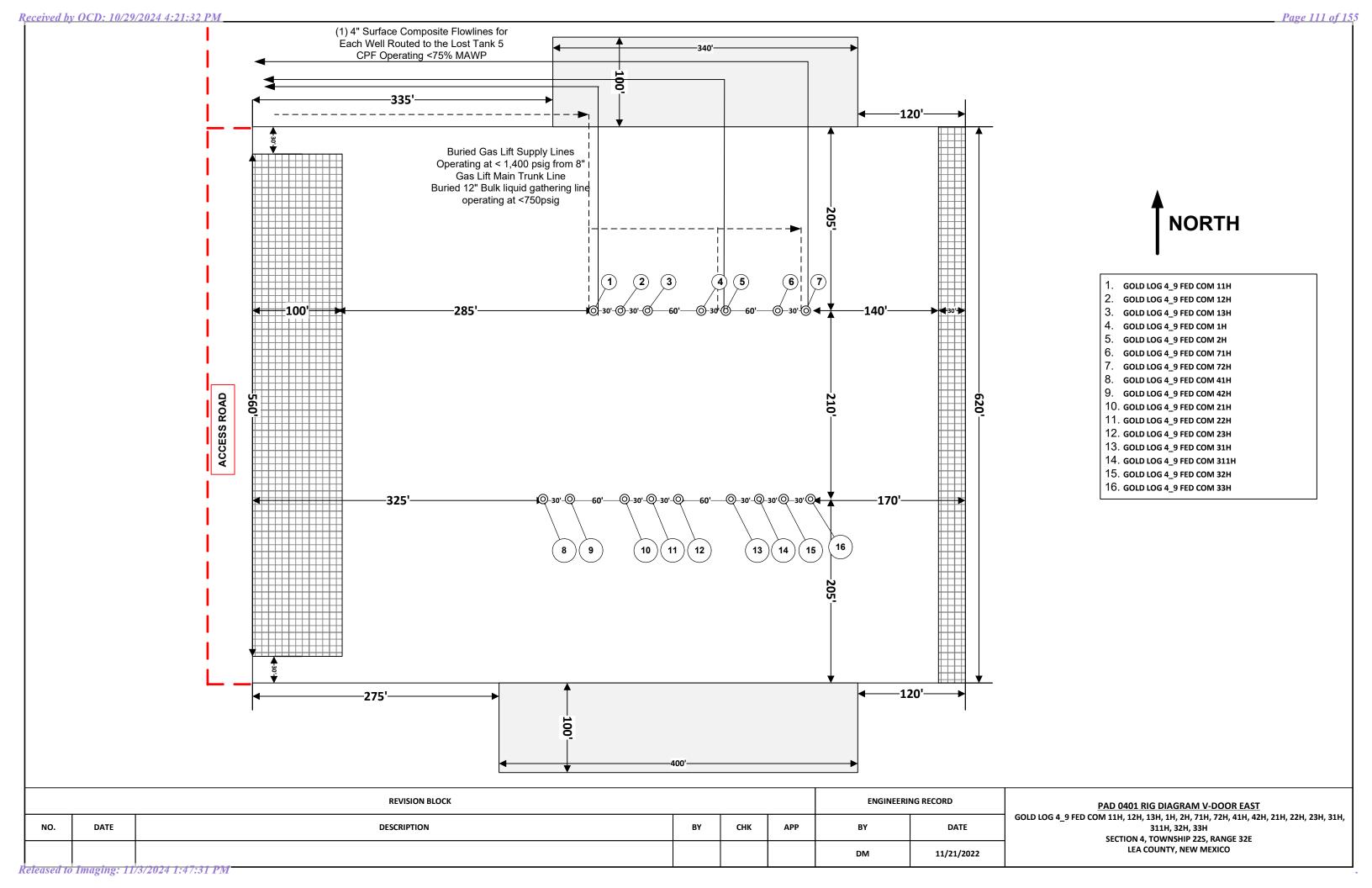


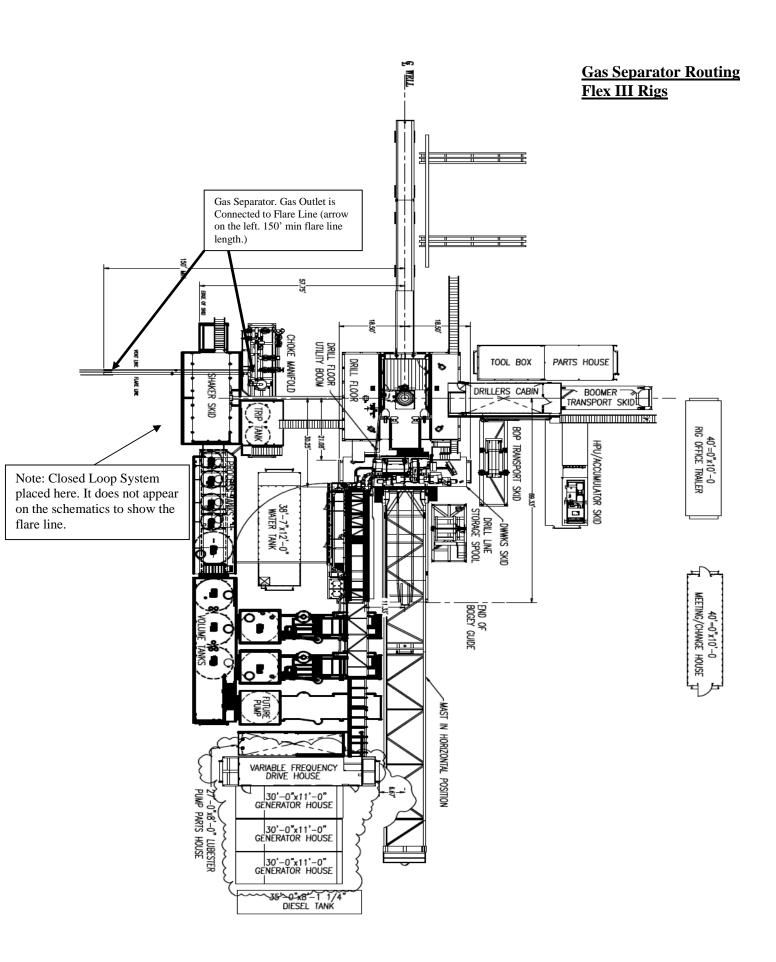
OYD P. SHOR

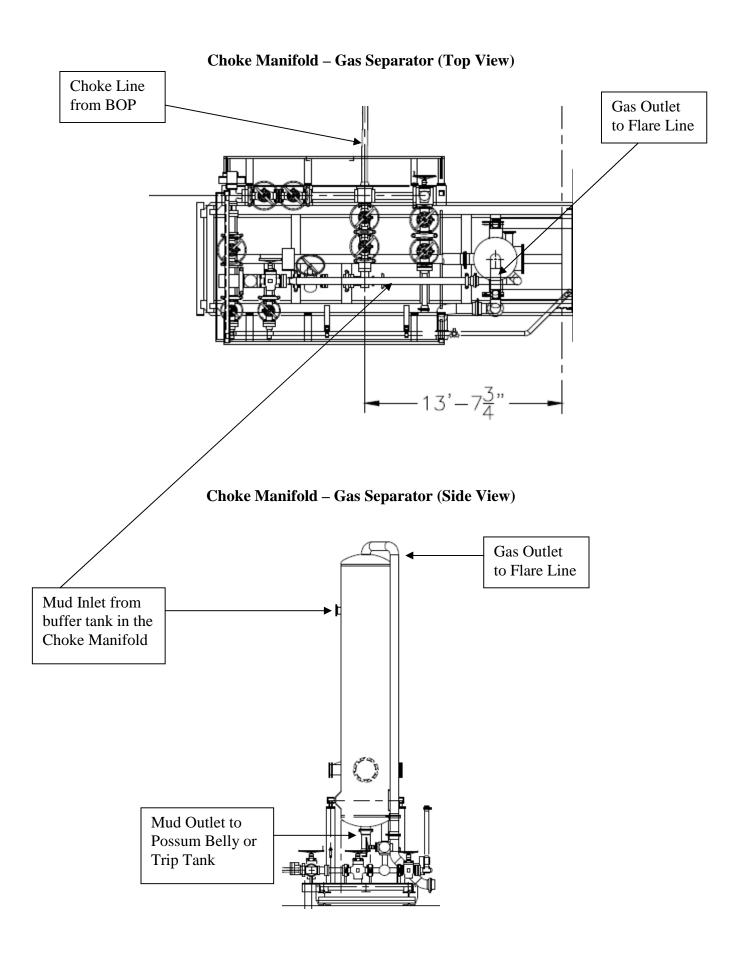
LLOYD P. SHORT 21653 NAL



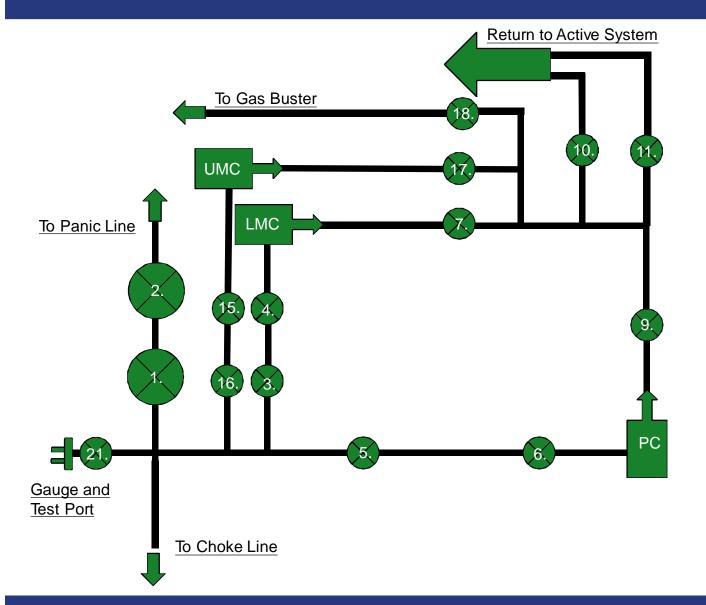
PREPARED BY: R-SQUARED GLOBAL, LLC 510 TRENTON ST. UNIT B WEST MONROE, LA 71291 318-323-6900 OFFICE JOB No. R4247_001 SHEET 2 OF 2







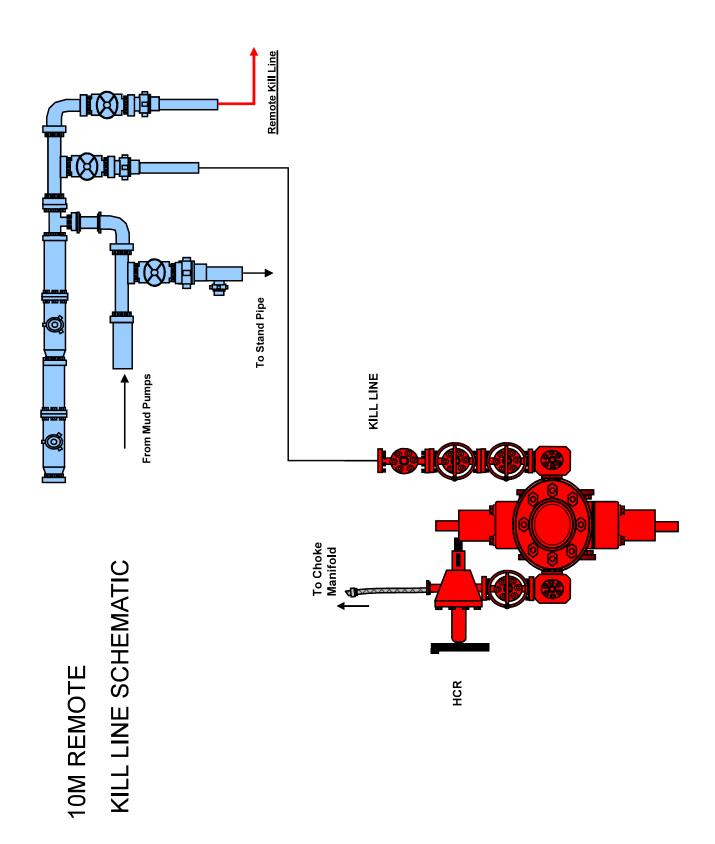
10M Choke Panel

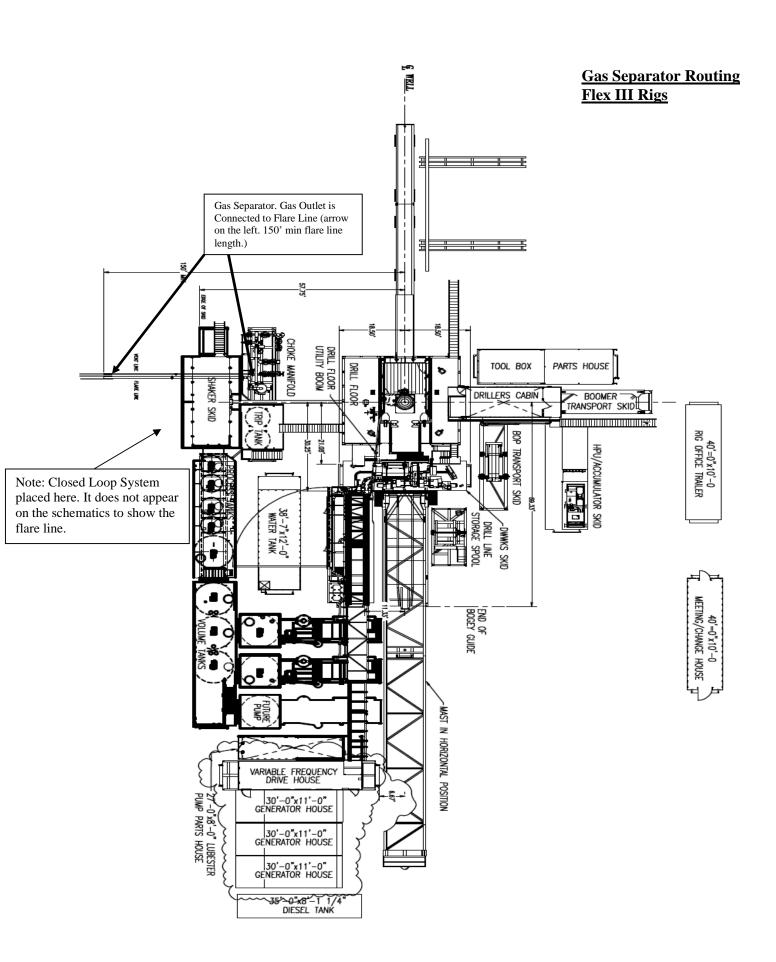


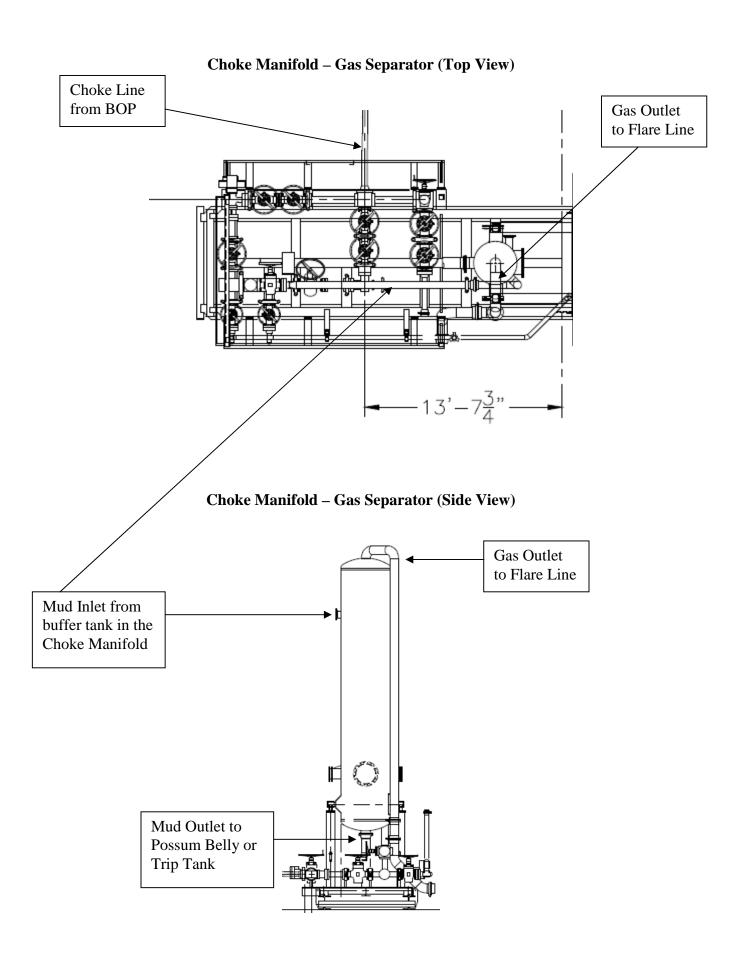
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual 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

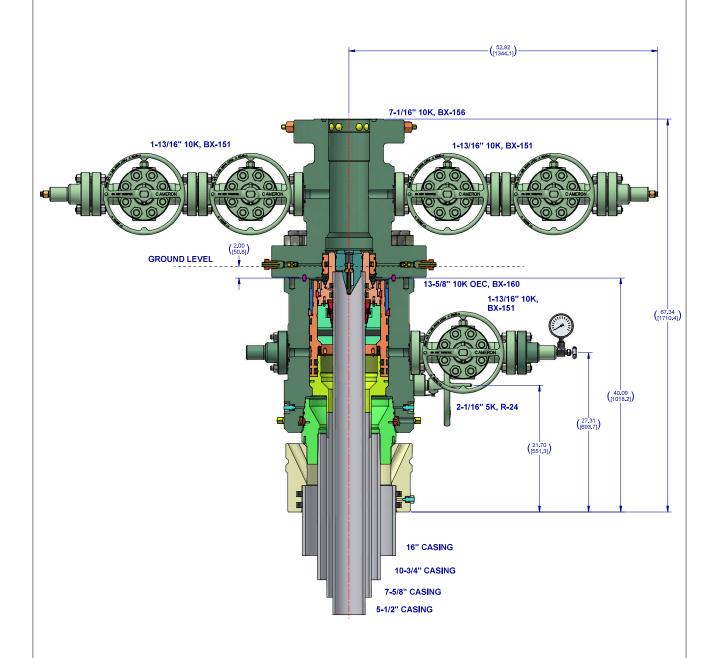
*All Valves 3" minimum









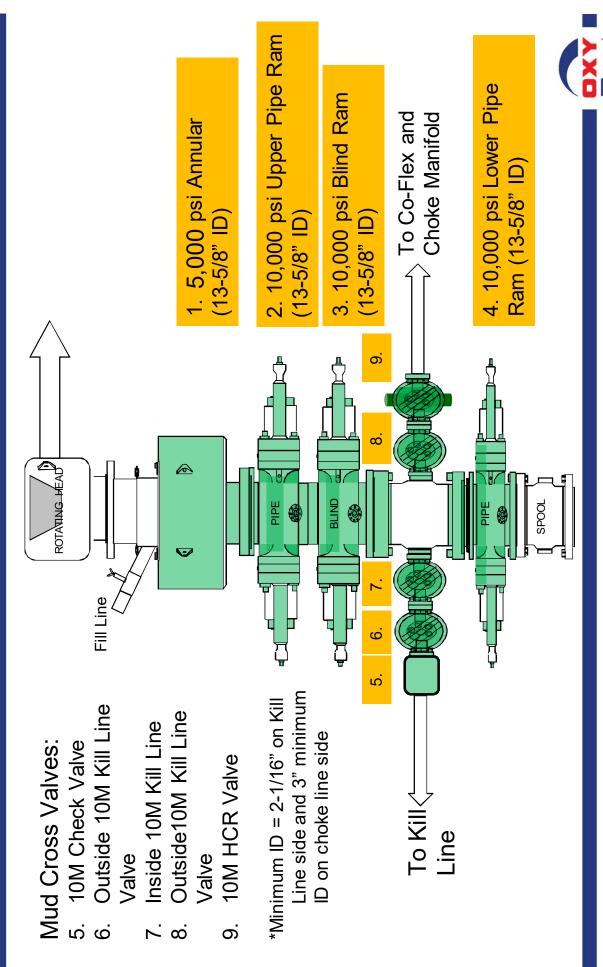


Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

		CONF	IDEN	ITIAL	
SURFACE TREATMENT	DO NOT SC			CAMERON	SURFACE
	D. GOTTUNG	2 Dec 21	W	A Schlumberger Company	SYSTEMS
MATERIAL & HEAT TREAT		DATE DATE	_		
	D, GOTTUNG	2 Dec 21		OXY 13-5/8" 10K AD/	APT
	APPROVED BY:	DATE	1	16" X 10-3/4" X 7-5/8" >	(5-1/2"
ESTIMATED OF 1	D. GOTTUNG	2 Dec 21			
WEIGHT: 651	5,617 LBS INITIAL USE BM: 55,434 KG		4 of 4	SD-053434-94-	05

5/10M BOP Stack



Certificate of Conformity



ContiTech 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 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 DAL	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.

Univ Serial Number	Item Part No.	Description	Qnty	Serial Number		TO THE RESIDENCE OF THE PARTY O	Test Time (minutes)
----------------------	---------------	-------------	------	---------------	--	--	------------------------

30 RECERTIFICATION

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

70024

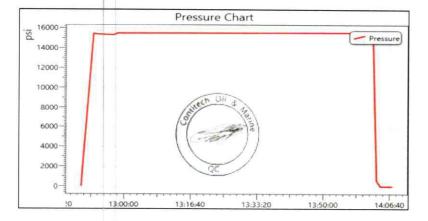
10,000

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



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THE8 UNEDEC 23/25



SERIAL #:

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.

:YTITNAUQ	τ
SALES ORDER #:	Z869TS
	CLAMPS
PART DESCRIPTION:	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
.idOiTGIGD227g TgAg	ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
CUSTOMER: CUSTOMERS P.O.#: CUSTOMER P/N:	A-7 AUSTIN INC DBA AUSTIN HOSE ASSEMBLY WITH STAINLESS STEEL 10KFR3.012.0CK411610KFIXXFLT SSA SC LE 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL
	e e

HS-112019-4

:3TAQ	6102/02/11		
:31717	SUNARUSSA YTIJAUQ		
:3AUTANƏ	I bring alon		



Houston, TX 7086 7603 Prairie Oak Dr.

286915 4128128 (RIG 1 PO 002773) **BEOH NITZUA ABO DNI NITZUA V-A**

10KFR3.012.0CK411610KF1XXFLT SSA SC LE

6246486-01000689

4 1/10 10K 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

Created By:

Test Date:

Hose Serial No.:

Test Pressure: Assembly Code: End Fitting 2:

Working Pressure:

: aumeuőis : 9160 Production:

Revision 1_022819

41/20/2019

РВОВИСТІОМ

YTIJAUD

management system.

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

F-PRD-005

: andengi2

: ested

Quality:

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:

SIØZ/OZ/TT

Norma Cabrera HZ-112019-4

10,000 PSI.

'ISA 000'SI

F41545 113018

4 1/10 TOK ELANGES FLOAT

6102/02/11

PRESSURE TEST CERTIFICATE

EMAIL: Troy.Schmidt@gates.com

PHONE: (281) 602 - 4119

www.gates.com

GATES ENGINEERING & SERVICES NORTH AMERICA

Page 1/2

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H2-1987

F41545113018

HS-115019-4

TEST REPORT 11/20/2019 12:13:07 PM

Serial number:

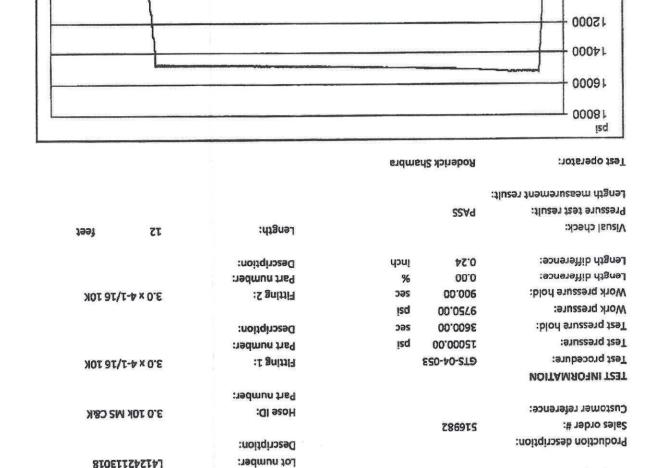
TEST OBJECT



Austin Hose

company:

CUSTOMER



əmit

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H2-1987

11/20/2019 12:13:07 PM

-hotol-

TEST REPORT

GAUGE TRACEABILITY

2020-03-15	Z078-03-1J	TTOAMCLO	9-52-Y-M M-V-Secuption
2020-04-14	2019-04-16	TIOAPOZK	M-A-25-5
			Comment

Page 2/2

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

Page 125 of 155

Certificate of Conformance

DW INDUSTRIES INC.

6287 Long Drive Houston, XT ,7087

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

NAMER UNIONS	C\M CI 3,, TO'000 bei M	Part Description:	-2181-0192-AO 1-2001	Customer Part Number:	Purchase
0707/97/70	Ssembly Date:		T.	CTY Ordered:	ise Ord
OSS620DW-2	Serial Number:	₱-2001-518₱-0₱95-AO		DW Industries Part Number:	ler Info
20020763	DW Industries Work Order Number:		CONTACT PAUL I	Customer Purchase Order Number:	Order Information
PAUL HOFFMAN 432-241-5360		Customer Contact:	DRILLING	CITADEL	Customer Name:

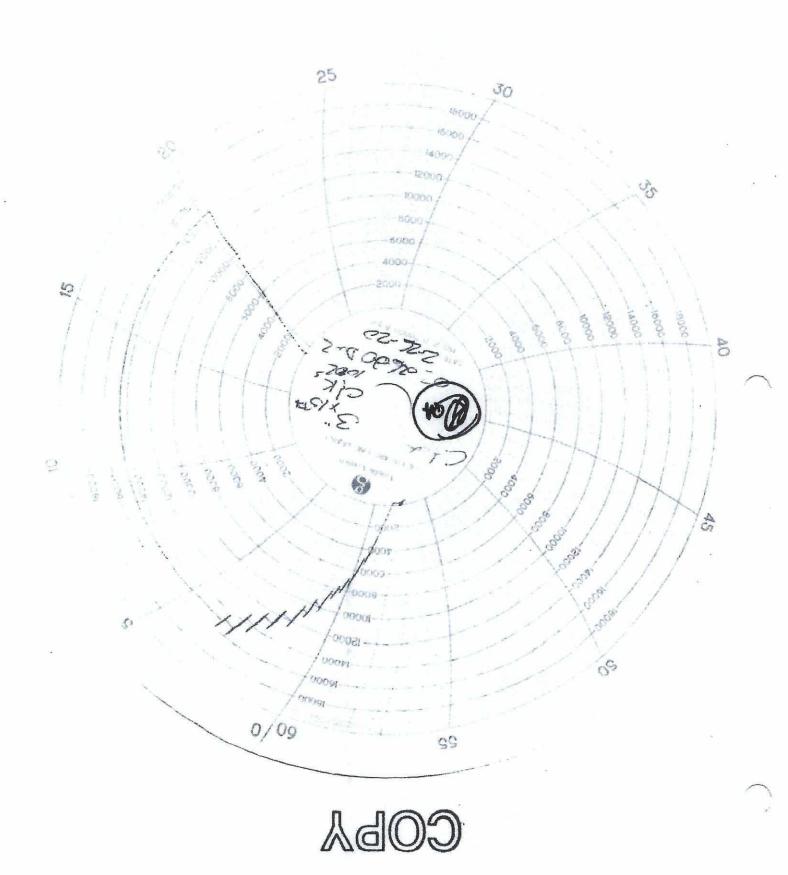
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL MARKING, AND PHYSICAL SPECIFIED PROCESSED IN ACCORDANCE 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

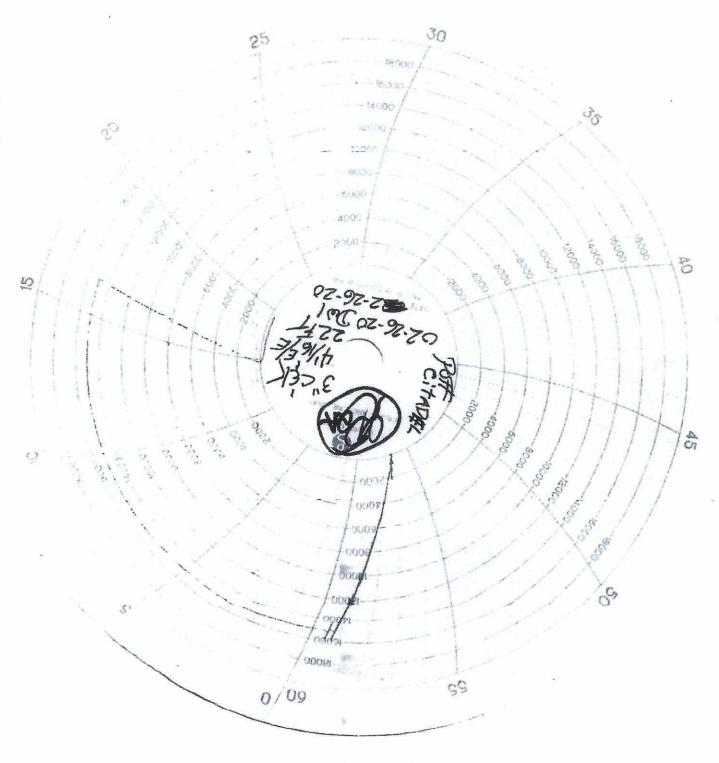
SEDNAL TAOLE	3" 10,000 psi W C/W SS ARMOR	Part Description:	-A-S640-4822-40	Customer Part Number:	Purcha	
07)797/70	Stell VidmessA		T	CITY Ordered:	se Ord	
O22620DW-1	Serial Mumber:	-1/16FXFL-ALE	V Industries OA-5640-4822-4-1/16FXFL-ALE		Purchase Order Information	
20020164	DW Industries Work Order Number:		CONTACT PAUL P	Customer Purchase Order Number:	mation	
	PAUL HOI	CITADEL DRILLING Customer Contact:		CITADEL	Customer:	

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DRAMINGS, DESIGN SPECIFICATIONS, DRAWINGS, DESIGN SPECIFICATIONS, DRAWINGS, DESIGN SPECIFICATIONS, DRAWINGS, MARKING, AND PHYSICAL INCLUDING: DENTIFICATION 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.



COBA

Certificate of Conformance

DW INDUSTRIES INC, Hollston, TX 77087

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

ל" FIG 602 MXF	U: d"XT24" 3K M\	Part Description		Customer Part Number:	Purcha
1/27/2023	Ssembly Date:		τ	QTY Ordered:	ise Ord
73010062	Serial Number:	709-"45It	9-85038-AO	DW Industries	ler Info
53010065	DW Industries Work Order Number:	77640700		Customer Purchase Order Number:	Purchase Order Information
JUDY LOERA		Contamer:	320H NITU2A		Sustomer Name:

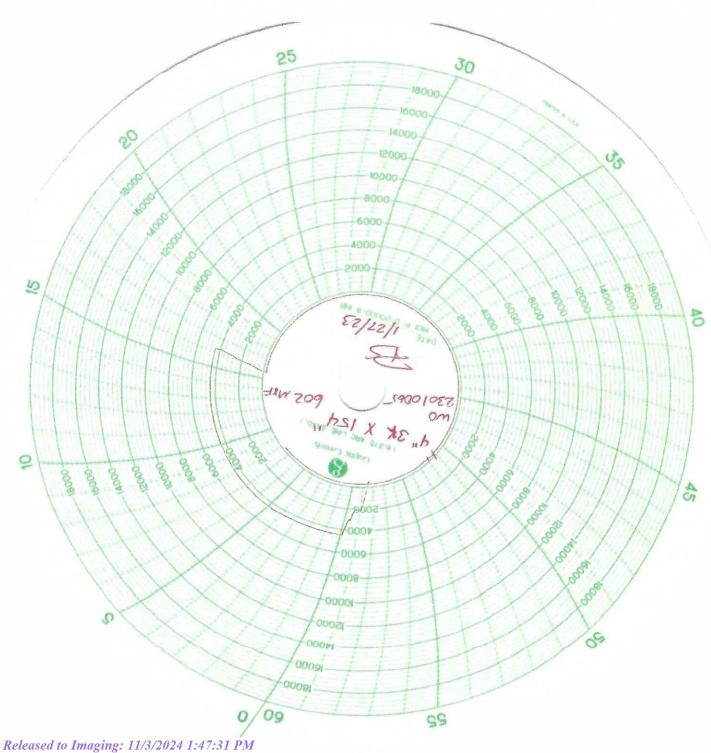
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL MITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 1/27/2023

Li Shirt Steller

Quality Assurance, DW Industries, Inc.

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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 Wa'n kul 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:	Minya wnw	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company:

Austin Distributing

TEST OBJECT

Serial number:

H3-101521-2

Lot number:

L41975091719

Description:

Production description:

Sales order #:

521925

Customer reference:

Hose ID: Part number: 3" 10k ck

TEST INFORMATION

Test procedure:

GTS-04-053 15000.00

Fitting 1: 3.0 x 4-1/16 10K

Test pressure: Test pressure hold:

3600.00

psi sec Part number:

Description:

Work pressure:

10000.00 900.00

psi sec

Fitting 2:

Length:

3.0 x 4-1/16 10K

feet

Work pressure hold: Length difference: Length difference:

0.00

% inch Part number: Description:

35

Descript

Visual check:

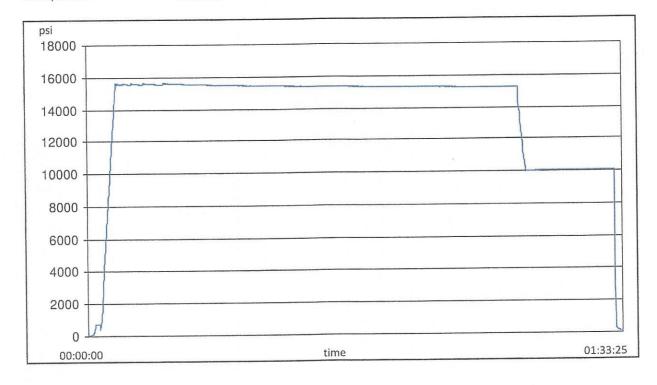
Pressure test result:

PASS

Length measurement result:

Test operator:

francisco





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

ContiTech **Customer Name & Address COM Order Reference** HELMERICH & PAYNE DRILLING CO Certificate Number 1429702 1434 SOUTH BOULDER AVE H100163 740382384 **Customer Purchase Order No:** TULSA, OK 74119 USA Project: Accepted by Client Inspection **Accepted by COM Inspection Test Center Address** Gerson Mejia-Lazo ContiTech Oil & Marine Corp. Signed: 11535 Brittmoore Park Drive Houston, TX 77041 07/14/22 Date:

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

Item	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press. (psi)	Test Time (minutes)	-
100.11		1	1	40.000	15 000	60	

RECERTIFICATION

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

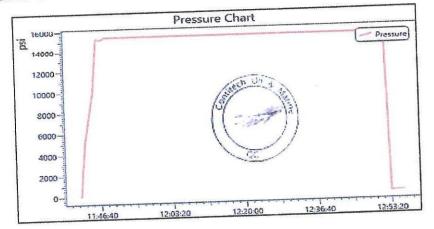
70025

10,000

15,000

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

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



intinenta

Certificate of Conformity

Certificate of Como	rinty	ContiTech
Certificate Number COM Order Reference H100163 1429702		Customer Name & Address 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. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 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

TOSANHAL

4-29-22.



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16 / 91

ContiTech

QUAL INSPECTION A	ITY CON		ATE		CERT. N	lo:	75819		
PURCHASER: ContiTech Oil & Marine Corp.						P.O. N°: 4501225327			
CONTITECH RUBBER order N°: 1127442 HOSE TYPE: 3" ID						Choke an	d Kill Hose		
HOSE SERIAL N°:	75819	NOMINAL / AC	TUAL LE	LENGTH: 10,67 m / 10,68 m					
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	00 psi	Duration:	60	min.	
Pressure test with water at ambient temperature See attachment (1 page)									
COUPLINGS Typ	е	Seria	l Nº		Qua	ality	Heat N°		
3" coupling with	1	602	26		AISI	4130	A0607J		
4 1/16" 10K API Swivel F	lange end				AISI	4130	040841		
Hub					AISI	4130	54194		
3" coupling with	1	601	16		AISI 4130		A0607J		
4 1/16" 10K API b.w. Fla	ange end				AISI 4130		040431		
Not Designed For Wo	Not Designed For Well Testing API Spec 16 C 2 nd Edition—FSL2 Temperature rate: "B"								
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO						H THE TERM	IS OF THE ORDER		
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.									
Date: Ontite Rubber Inspector Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. (1) Ontite Rubber Ontite Rubber Industrial Kft. Quality Control Dept. (1)						5			



Prepared by	С	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer:	HELI	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALEN PARK,TX,77547-2738				A
User contact:	MI	TCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hr	oinc.com
	-	Parame	ete	ers		Н	ose Deta	ils	Test Status
		PO			740398454 (88000240 SN:70035)				
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
	Hose ID:			3 IN					
Hose type:			INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END						
Application	า								
Information Working pressure: 10			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.

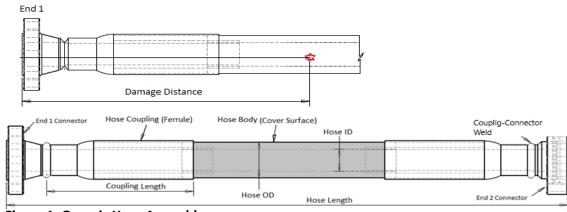


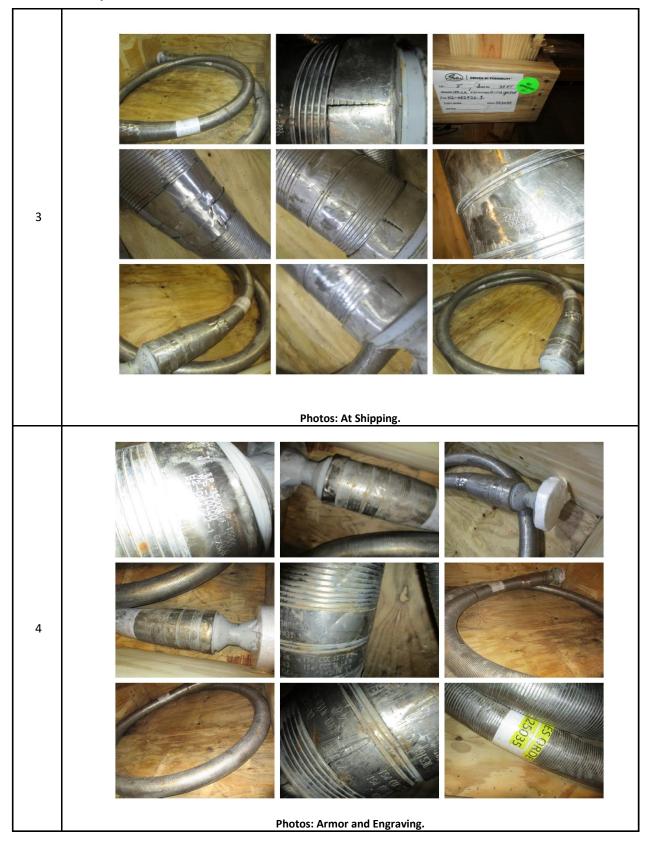
Figure 1: Generic Hose Assembly

1.0 Observations and comments





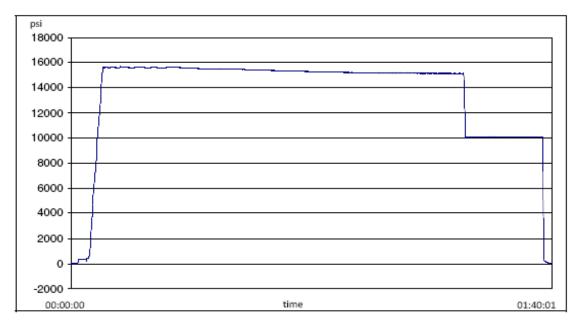








2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL	2 10V C2V	2022-08-27	Martin Orozco
	ASSEMBLY C/W 4-1/16	3 10K C&K	2022-06-27	Martin Orozco

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

Gates).

Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Re	sults
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

3. Hose borescope 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

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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

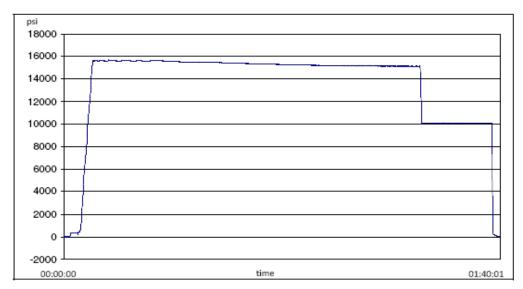
TEST REPORT

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: 0.00 Description: Length: 35 feet

Visual check:
Pressure test result: PASS

Length measurement result:

Test operator: Martin



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





H2-8316

8/27/2022 8:51:22 AM

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



APPENDIX 2: Certificate of Conformance



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

CUSTOMER:

HELMERICH & PAYNE, INC

CUSTOMER P.O.#:

740398454 (88000240 | SN:70035)

CUSTOMER P/N:

88000240 | SN:70035

PART DESCRIPTION:

INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16

FLANGES BX155 RING GROOVE EACH END

SALES ORDER #:

525035

QUANTITY: SERIAL #:

H2-082722-1 RE-TEST

SIGNATURE:	(savoro	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

F-ENG-001 Page: 9 of 9 Revision_0_042419

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.

CSG Test (Intermediate)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.

External:

- For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
- For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- o Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft in the absence of better information. It is limited to the controlling pressure based on the fracture pressure at the shoe or the maximum expected pore pressure within the next drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.

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- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
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 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.



CONNECTION DATA SHEET



Make-up Torque (ft-lb) 20,000 MIN 22,500 OPTI 25,000 MAX Torque with Sealability (ft-lb) 36,000 MTS Locked Flank Torque (ft-lb) 4,500 MIN 15,750 MAX

PIPE BODY PROPERTIES

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	Controlle	ed Yield
Grade Type Minimum Yield Strength	Controlle	ed Yield <i>ksi</i>
Minimum Yield Strength	110	ksi
Minimum Yield Strength Maximum Yield Strength	110 125	ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength	110 125 140	ksi ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength Pipe Body Yield Strength	110 125 140 641	ksi ksi ksi klb

CONNECTION PROPERTIES

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	11,110	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



BOOST YOUR EFFICIENCY, REDUCE COSTS AND ENSURE 100% WELL INTEGRITY WITH VAM® FIELD SERVICE

Scan the QR code to contact us



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Axial: Buoyant weight of the string plus cement plug bump pressure load.

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

CONDITIONS

Action 396968

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	396968
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/3/2024
pkautz	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.	11/3/2024
pkautz	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.	11/3/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/3/2024
pkautz	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/3/2024