

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		5. Lease Serial No. NMNM109757 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. REGAL LAGER 31-19 FEDERAL COM 22H
2. Name of Operator OXY USA INCORPORATED		9. API Well No. 30-025-54424
3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002	3b. Phone No. (include area code) (661) 763-6046	10. Field and Pool, or Exploratory Bilbrey Basin/BONE SPRING
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW / 178 FSL / 2629 FWL / LAT 32.4283047 / LONG -103.7144087 At proposed prod. zone NENW / 20 FNL / 2035 FWL / LAT 32.4713134 / LONG -103.7163145		11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T21S/R32E/NMP
14. Distance in miles and direction from nearest town or post office* 24 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20 feet	16. No of acres in lease 	17. Spacing Unit dedicated to this well 522.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 10416 feet / 26566 feet	20. BLM/BIA Bond No. in file FED: ESB00226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3621 feet	22. Approximate date work will start* 03/09/2025	23. Estimated duration 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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission) Title Regulatory Engineer	Name (Printed/Typed) STEPHEN JANACEK / Ph: (713) 366-5716	Date 10/19/2023
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 02/05/2025

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 well, 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 directionally 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 well 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 will 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 connects this information to an 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 Connection 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: SESW / 178 FSL / 2629 FWL / TWSP: 21S / RANGE: 32E / SECTION: 31 / LAT: 32.4283047 / LONG: -103.7144087 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 0 FSL / 529 FWL / TWSP: 21S / RANGE: 32E / SECTION: 19 / LAT: 32.456864 / LONG: -103.7163208 (TVD: 10422 feet, MD: 21300 feet)
PPP: SENW / 2641 FNL / 2034 FWL / TWSP: 21S / RANGE: 32E / SECTION: 31 / LAT: 32.4350667 / LONG: -103.7163302 (TVD: 10432 feet, MD: 13380 feet)
PPP: SESW / 100 FSL / 2035 FWL / TWSP: 21S / RANGE: 32E / SECTION: 31 / LAT: 32.4280826 / LONG: -103.7163332 (TVD: 10436 feet, MD: 10838 feet)
BHL: NENW / 20 FNL / 2035 FWL / TWSP: 21S / RANGE: 32E / SECTION: 19 / LAT: 32.4713134 / LONG: -103.7163145 (TVD: 10416 feet, MD: 26566 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.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
	Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-54424	Pool Code 5695	Pool Name BILBREY BASIN; BONE SPRING
Property Code 335225	Property Name REGAL LAGER 31_19 FED COM	Well Number 22H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3621'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	31	21S	32E		178' FSL	2629' FWL	32.42830472	-103.71440878	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	19	21S	32E		20' FNL	2035' FWL	32.47131340	-103.71631451	LEA

Dedicated Acres 480	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	6	22S	32E	3	300' FNL	2035' FWL	32.42698312	-103.71633411	LEA

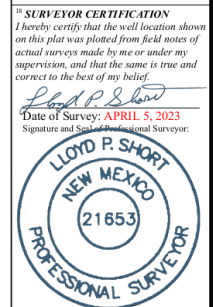
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	31	21S	32E		100' FSL	2035' FWL	32.42808261	-103.71633329	LEA

Last Take Point (LTP)

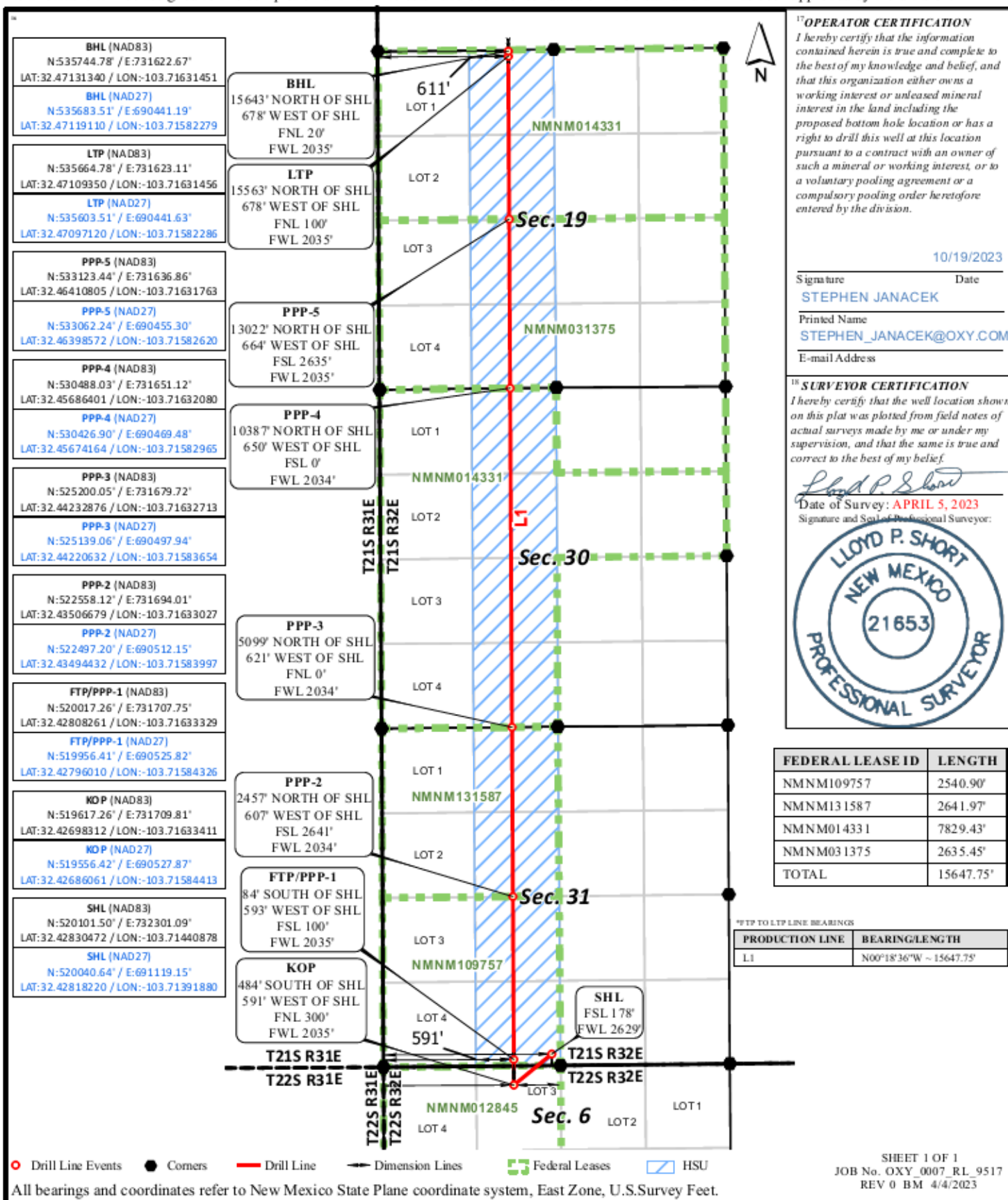
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	19	21S	32E		100' FNL	2035' FWL	32.47109350	-103.71631456	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3621'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>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.</i> Melissa Guidry 02/10/25		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature	Date	Signature and Seal of Professional Surveyor	
Melissa Guidry			
Printed Name		Certificate Number	Date of Survey
melissa_guidry@oxy.com			April 5, 2023
Email Address			

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.

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: OXY USA INC. **OGRID:** 16696 **Date:** 0 5/ 1 5/ 2 3

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

IV. Central Delivery Point Name: LOST TANK 5 CPF [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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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: <i>Roni Mathew</i>
Printed Name: Roni Mathew
Title: Regulatory Advisor
E-mail Address: roni_mathew@oxy.com
Date: 05/15/2023
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
REGAL LAGER 31_19 FED COM 11H	PENDING	G-6-T22-R32E	1639 FNL 2452 FEL	1024	3,302	1864
REGAL LAGER 31_19 FED COM 12H	PENDING	G-6-T22-R32E	1639 FNL 2422 FEL	1024	3,302	1864
REGAL LAGER 31_19 FED COM 13H	PENDING	G-6-T22-R32E	1639 FNL 2392 FEL	1024	3,302	1864
REGAL LAGER 31_19 FED COM 14H	PENDING	L 1-6-T22-R32E	763 FNL 976 FEL	1024	3,302	1864
REGAL LAGER 31_19 FED COM 1H	PENDING	N-31-T21-R32E	178 FSL 2689 FWL	861	1,476	2531
REGAL LAGER 31_19 FED COM 21H	PENDING	N-31-T21-R32E	179 FSL 2599 FWL	1086	1,283	2187
REGAL LAGER 31_19 FED COM 22H	PENDING	N-31-T21-R32E	178 FSL 2629 FWL	1086	1,283	2187
REGAL LAGER 31_19 FED COM 23H	PENDING	L 1-6-T22-R32E	764 FNL 857 FEL	1086	1,283	2187
REGAL LAGER 31_19 FED COM 24H	PENDING	L 1-6-T22-R32E	764 FNL 827 FEL	1086	1,283	2187
REGAL LAGER 31_19 FED COM 2H	PENDING	N-31-T21-R32E	177 FSL 2687 FEL	861	1,476	2531
REGAL LAGER 31_19 FED COM 31H	PENDING	N-31-T21-R32E	304 FSL 2599 FWL	2163	3,555	5014
REGAL LAGER 31_19 FED COM 32H	PENDING	N-31-T21-R32E	303 FSL 2629 FWL	2040	3,358	4730
REGAL LAGER 31_19 FED COM 33H	PENDING	N-31-T21-R32E	303 FSL 2659 FWL	2040	3,358	4730
REGAL LAGER 31_19 FED COM 34H	PENDING	L 1-6-T22-R32E	889 FNL 887 FEL	2040	3,358	4730
REGAL LAGER 31_19 FED COM 35H	PENDING	L 1-6-T22-R32E	889 FNL 858 FEL	2040	3,358	4730
REGAL LAGER 31_19 FED COM 36H	PENDING	L 1-6-T22-R32E	889 FNL 827 FEL	1731	2849	4014
REGAL LAGER 31_19 FED COM 3H	PENDING	L 1-6-T22-R32E	763 FNL 947 FEL	861	1,476	2531
REGAL LAGER 31_19 FED COM 4H	PENDING	L 1-6-T22-R32E	763 FNL 917 FEL	861	1,476	2531
REGAL LAGER 31_19 FED COM 71H	PENDING	N-31-T21-R32E	302 FSL 2686 FEL	1055	1833	1609
REGAL LAGER 31_19 FED COM 72H	PENDING	N-31-T21-R32E	302 FSL 2656 FEL	1055	1833	1609
REGAL LAGER 31_19 FED COM 73H	PENDING	L 1-6-T22-R32E	888 FNL 977 FEL	1055	1833	1609
REGAL LAGER 31_19 FED COM 74H	PENDING	L 1-6-T22-R32E	888 FNL 948 FEL	1055	1833	1609

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
REGAL LAGER 31_19 FED COM 11H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 1H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 21H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 2H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 31H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 32H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 33H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 34H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 35H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 36H	PENDING	23-Dec	TBD	Mar-2024	Apr-2024	Apr-2024
REGAL LAGER 31_19 FED COM 3H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 4H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 71H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 72H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 73H	PENDING	TBD	TBD	TBD	TBD	TBD
REGAL LAGER 31_19 FED COM 74H	PENDING	TBD	TBD	TBD	TBD	TBD

Central Delivery Point: Lost Tank 5 CPF

Part VI. Separation Equipment

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

VII. Operational Practices

Gathering System and Pipeline Notification

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

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Targa 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

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

Power Generation – On lease

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

Compressed Natural Gas – On lease

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

NGL Removal – On lease

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



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

Operator Certification Data Report

02/10/2025

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 JANACEK

Signed on: 12/02/2024

Title: Regulatory Engineer

Street Address: 5 Greenway 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:

Email address:



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

Application Data

02/10/2025

APD ID: 10400095386

Submission Date: 10/19/2023

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400095386

Tie to previous NOS? N

Submission Date: 10/19/2023

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: NMNM109757

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

Zip: 93276-1002

Operator PO Box:

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: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: Bilbrey Basin

Pool Name: BONE SPRING

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,NATURAL GAS,OIL,POTASH**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:****Number:** 31_1

LSTTNK_21S32E

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:** 24 Miles**Distance to nearest well:** 30 FT**Distance to lease line:** 20 FT**Reservoir well spacing assigned acres Measurement:** 522 Acres**Well plat:** RegalLager31_19FedCom22H_C102_20231019104652.pdf

RegalLager31_19_PAD_31_1_SitePlan_20231017111001.pdf

Well work start Date: 03/09/2025**Duration:** 45 DAYS**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	178	FSL	2629	FWL	21S	32E	31	Aliquot SESW	32.4283047	-103.7144087	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 109757	3621	0	0	N
KOP Leg #1	300	FNL	2035	FWL	21S	32E	6	Lot 3	32.4269831	-103.7163341	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 12845	-6168	9859	9789	N

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

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	FSL	2035	FWL	21S	32E	31	Aliquot SESW	32.4280826	- 103.7163332	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 109757	- 6815	10838	10436	Y
PPP Leg #1-2	2641	FNL	2034	FWL	21S	32E	31	Aliquot SENW	32.4350667	- 103.7163302	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 131587	- 6811	13380	10432	Y
PPP Leg #1-3	0	FSL	529	FWL	21S	32E	19	Aliquot SESW	32.456864	- 103.7163208	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 31375	- 6801	21300	10422	Y
EXIT Leg #1	100	FNL	2035	FWL	21S	32E	19	Aliquot NENW	32.4710935	- 103.7163145	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 14331	- 6795	26486	10416	Y
BHL Leg #1	20	FNL	2035	FWL	21S	32E	19	Aliquot NENW	32.4713134	- 103.7163145	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 14331	- 6795	26566	10416	N



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

Drilling Plan Data Report

02/10/2025

APD ID: 10400095386

Submission Date: 10/19/2023

Highlighted data
reflects the most
recent changes

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14984038	RUSTLER	3621	793	793	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
14984037	SALADO	2574	1047	1047	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
14984035	CASTILE	1041	2580	2580	ANHYDRITE	OTHER : SALT	N
14984039	DELAWARE	-899	4520	4520	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14984040	BELL CANYON	-977	4598	4598	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : OIL/GAS/BRINE	Y
14984041	CHERRY CANYON	-1830	5451	5455	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : OIL/GAS/BRINE	Y
14984042	BRUSHY CANYON	-3079	6700	6723	LIMESTONE, SANDSTONE, SILTSTONE	OTHER : LOSSES	N
14984036	BONE SPRING	-4873	8494	8544	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14984049	BONE SPRING 1ST	-5910	9531	9597	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
14984050	BONE SPRING 2ND	-6577	10198	10294	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10436

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 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.

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 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. 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:

Standard_ChkManifolds_20231017112711.pdf

BOP Diagram Attachment:

Standard_BOP_20231017112733.pdf

Standard_13inADAPT_10.75in_7.625in_10x10_20231017112733.pdf

Standard_FlexHoseCert_20241202145426.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	853	0	853	3621	2768	853	J-55	54.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	OTHER	12.25	9.625	NEW	API	N	0	4520	0	4520	3623	-899	4520	HCL-80	40	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
3	INTERMEDIATE	8.75	7.625	NEW	API	N	0	9760	0	9689		-6068	9760	HCL-80	26.4	OTHER - Wedge 425	1	1.1	BUOY	1.4	BUOY	1.4
4	PRODUCTION	6.75	5.5	NEW	API	N	0	26567	0	10436		-6815	26567	P-110	20	OTHER - Wedge 461	1	1.1	BUOY	1.4	BUOY	1.4

Casing Attachments

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Casing Attachments

Casing ID: 1	String	SURFACE	
Inspection Document:			
Spec Document:			
Tapered String Spec:			
Casing Design Assumptions and Worksheet(s):			
Standard_CsgCriteria_20231017113037.pdf			
Casing ID: 2	String	OTHER	- Salt
Inspection Document:			
Spec Document:			
Tapered String Spec:			
Casing Design Assumptions and Worksheet(s):			
Standard_CsgCriteria_20231017113011.pdf			
Casing ID: 3	String	INTERMEDIATE	
Inspection Document:			
Spec Document:			
Tapered String Spec:			
Casing Design Assumptions and Worksheet(s):			
RegalLager31_19FedCom22H_TNSWedge425_7.625in_26.40ppf_L80IC_20231019111918.pdf			

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Casing Attachments

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

RegalLager31_19FedCom22H_TNSWedge461_5.500in_20.00ppf_P110CY_20231019111858.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	853	891	1.33	14.8	1185	100	CI C	Accelerator

OTHER	Lead		0	4020	1039	1.73	12.9	1797	50	CI Pozz	Retarder
OTHER	Tail		4020	4520	141	1.33	14.8	188	20	CI C	Accelerator
INTERMEDIATE	Lead	2	0	6973	417	1.71	13.3	713	25	CI C	Accelerator

INTERMEDIATE	Lead	1	6973	9760	374	1.68	13.2	628	5	CI C	Retarder, Dispersant
--------------	------	---	------	------	-----	------	------	-----	---	------	----------------------

PRODUCTION	Lead		9260	26567	981	1.84	13.3	1805	25	CI C	Retarder
------------	------	--	------	-------	-----	------	------	------	----	------	----------

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9760	2656 7	OTHER : Water-Based and/or Oil-Based mud	8	9.6							
853	4520	OTHER : Saturated Brine Based Mud or Oil Based Mud	8	10							
4520	9760	OTHER : Water-Based and/or Oil-Based Mud	8	10							
0	853	WATER-BASED MUD	8.6	8.8							

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

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: 5210**Anticipated Surface Pressure:** 2914**Anticipated Bottom Hole Temperature(F):** 164**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

Standard_H2S1x_202310171114732.pdf

Standard_H2S2_202310171114732.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

RegalLager31_19FedCom22H_DirectPlan_20231019112424.pdf

Other proposed operations facets description:

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.

Other proposed operations facets attachment:

Standard_SpudRigData_202310171114823.pdf

RegalLager31_19FedCom22H_DrillPlan_20241202150608.pdf

RegalLager31_19FedCom22H_2024_KPLA_Addendum_WellboreSchematics_20241202150617.pdf

Other Variance attachment:

Standard_BOPBreakTestingVariance_202310171114844.pdf

Standard_BradenheadCBLVariance_202310171114843.pdf

Standard_OfflineCementVariance_202310171114843.pdf

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Standard_ProdCsgAnnClearanceVariancecx_20231017114843.pdf



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

SUPO Data Report

02/10/2025

APD ID: 10400095386

Submission Date: 10/19/2023

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
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Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

RegalLager31_19_PAD_31_1_EXISTING_ROADS_20231017115107.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:

RegalLager31_19_Development_NewRoads_20231019112543.pdf

New road type: LOCAL

Length: 5413

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

RegalLager31_19_PAD_31_1_EXISTING_ROADS_20231017115220.pdf

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

RegalLager31_19_PAD_31_1_SitePlan_20231017115219.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:**

RegalLager31_19_PAD_31_1_ExistWells_20231017115238.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:**

RegalLager31_19_Development_LeaseFacilityInbox_20241202150702.pdf

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COMWell Number: 22H

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

Standard_WtrSrcGRR_20231017115342.pdf
Standard_WtrSrcMesq_20231017115342.pdf
RegalLager31_19_Development_WaterCalicheSource_20241202150848.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:

Aquifer documentation:

Well depth (ft):

Well casing type:

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H**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

RegalLager31_19_Development_WaterCalicheSource_20241202150903.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:** 1922 barrels**Waste disposal frequency :** Daily**Safe containment description:** Haul-Off Bins**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** COMMERCIAL**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-

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

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:**

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H

Section 9 - Well Site

Well Site Layout Diagram:

RegalLager31_19_PAD_31_1_WellsiteCL_20241202151031.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** LSTTNK_21S32E**Multiple Well Pad Number:** 31_1

Recontouring

RegalLager31_19_PAD_31_1_Reclamation_20231017115518.pdf

RegalLager31_19_PAD_31_1_SitePlan_20241202150938.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): 9.59	Well pad interim reclamation (acres): 0.77	Well pad long term disturbance (acres): 8.82
Road proposed disturbance (acres): 3.73	Road interim reclamation (acres): 1.24	Road long term disturbance (acres): 2.49
Powerline proposed disturbance (acres): 1.99	Powerline interim reclamation (acres): 1.99	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 18.52	Pipeline interim reclamation (acres): 12.34	Pipeline long term disturbance (acres): 6.17
Other proposed disturbance (acres): 1.11	Other interim reclamation (acres): 0	Other long term disturbance (acres): 1.11
Total proposed disturbance: 34.94	Total interim reclamation: 16.34	Total long term disturbance: 18.59

Disturbance Comments: See Below

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**

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COMWell Number: 22H

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	
Seed Type	Pounds/Acre

Total 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:

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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:

Operator Name: OXY USA INCORPORATED**Well Name:** REGAL LAGER 31-19 FEDERAL COM**Well Number:** 22H**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 Appln/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**

RegalLager31_19FedCom22H_StakeSheet_20231019112738.pdf

RegalLager31_19_Development_NGMP_20231017115610.pdf



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

PWD Data Report

02/10/2025

APD ID: 10400095386

Submission Date: 10/19/2023

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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:

PWD disturbance (acres):

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:

Describe 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

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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:

Describe 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?

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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):

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

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

02/10/2025

APD ID: 10400095386

Submission Date: 10/19/2023

Highlighted data
reflects the most
recent changes

Operator Name: OXY USA INCORPORATED

Well Name: REGAL LAGER 31-19 FEDERAL COM

Well Number: 22H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: ESB00226

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

Oxy USA Inc. - Regal Lager 31_19 Fed Com 22H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	10436	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	26567	Deepest Expected Fresh Water (ft):	793

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	793	793	
Salado	1047	1047	Salt
Castile	2580	2580	Salt
Delaware	4520	4520	Oil/Gas/Brine
Bell Canyon	4598	4598	Oil/Gas/Brine
Cherry Canyon	5455	5451	Oil/Gas/Brine
Brushy Canyon	6723	6700	Losses
Bone Spring	8544	8494	Oil/Gas
Bone Spring 1st	9597	9531	Oil/Gas
Bone Spring 2nd	10294	10198	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

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	853	0	853	13.375	54.5	J-55	BTC
Salt	12.25	0	4520	0	4520	9.625	40	L-80 HC	BTC
Intermediate	8.75	0	9760	0	9689	7.625	26.4	L-80 HC	Wedge 425
Production	6.75	0	26567	0	10436	5.5	20	P-110	Wedge 461

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

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

Annular Clearance Variance Request

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

	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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	891	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	141	1.33	14.8	20%	4,020	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	1039	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	374	1.68	13.2	5%	6,973	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	417	1.71	13.3	25%	4,020	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	981	1.84	13.3	25%	9,260	Circulate	Class C+Ret.

Offline Cementing Request

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

Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	4520
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	9689
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	10436
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

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

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

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

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

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

5. Mud Program

Section	Depth		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	853	0	853	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	853	4520	853	4520	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4520	9760	4520	9689	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	9760	26567	9689	10436	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, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

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

6. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).	
	Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional 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	5210 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	164°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 zonal

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	H ₂ S is present
Y	H ₂ S Plan attached

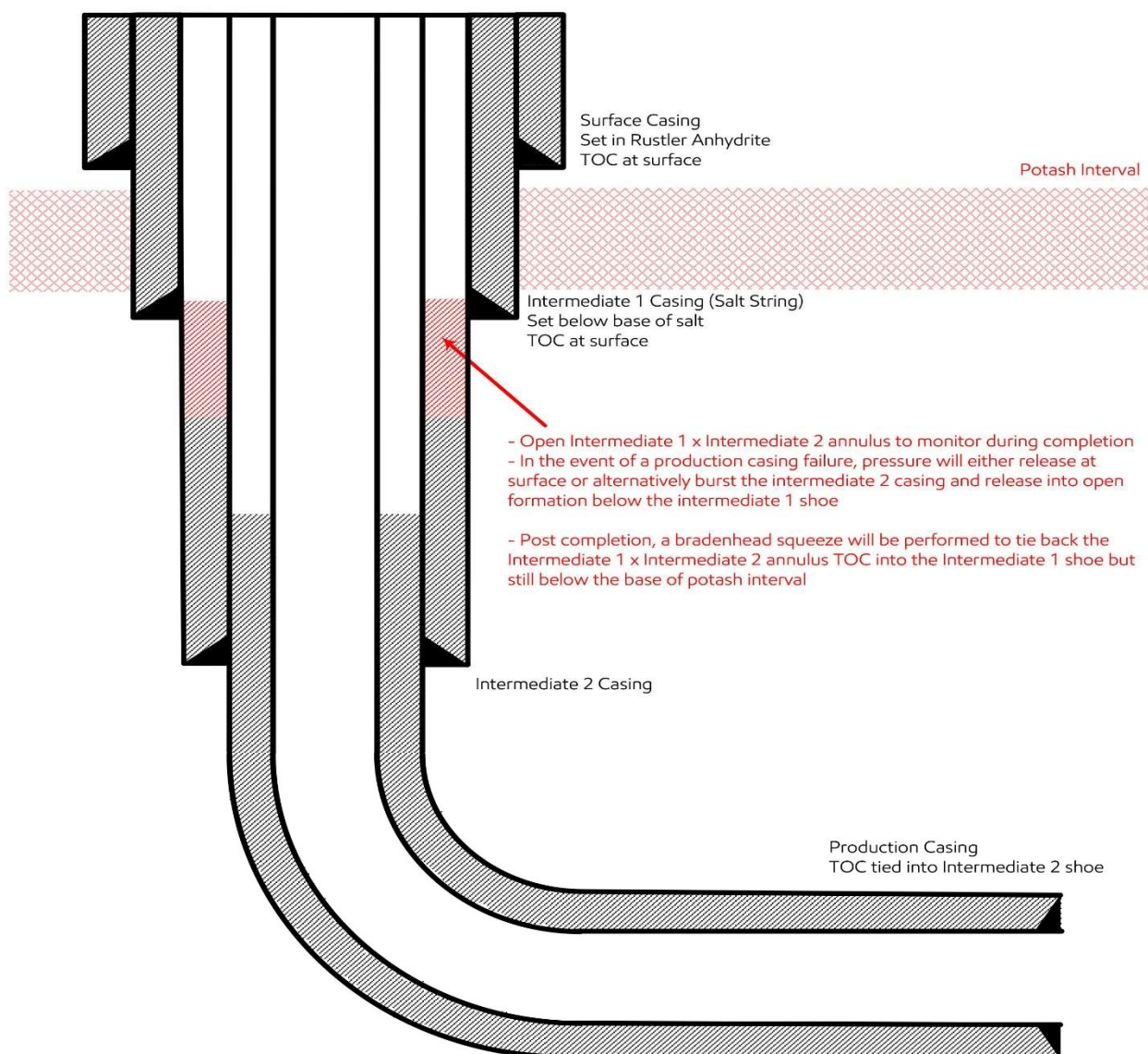
8. Other facets of operation

	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.	Yes
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.	Yes

Total Estimated Cuttings Volume: 1922 bbls

Revision Date – May 21, 2024

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



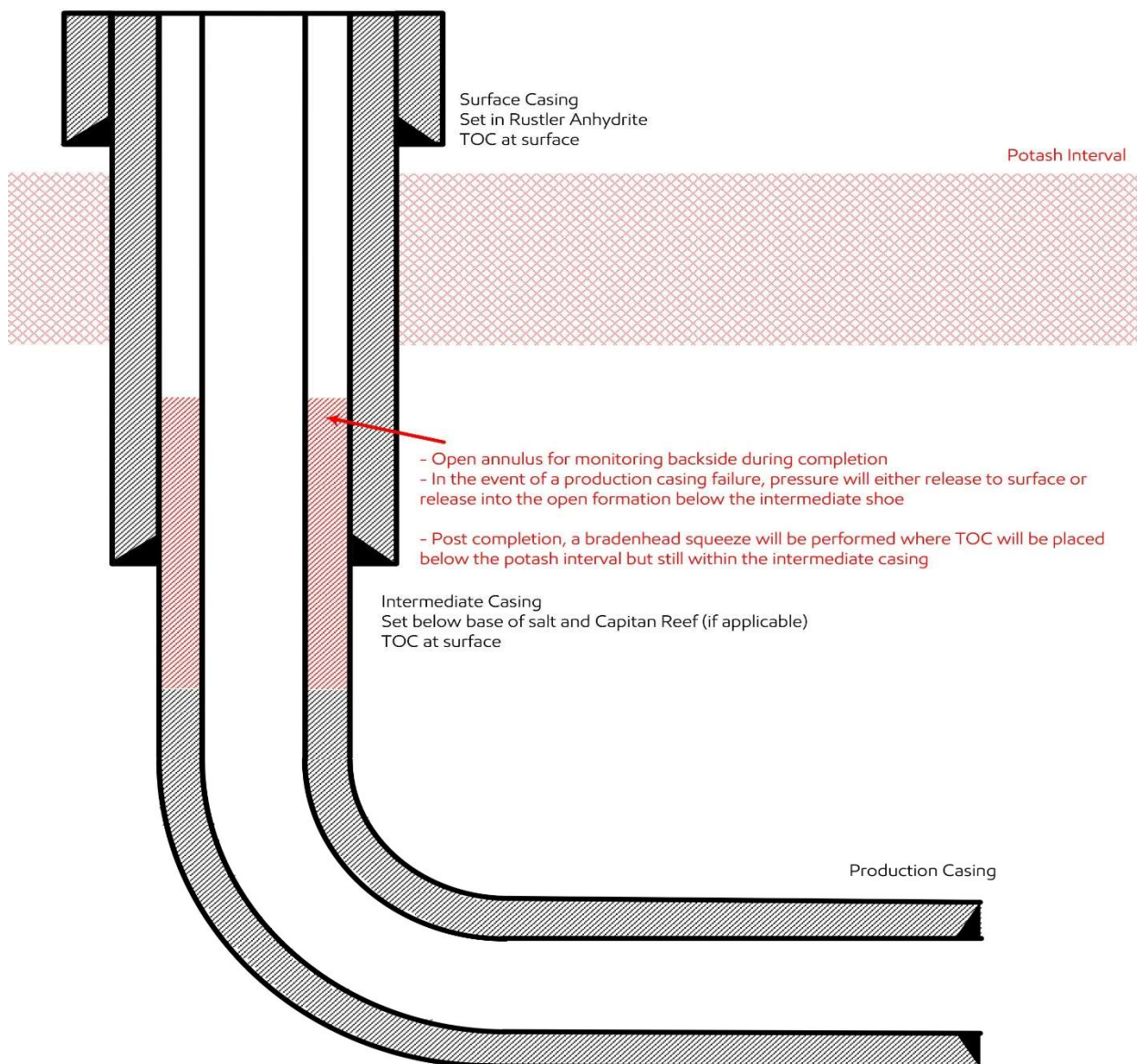
Update May 2024:

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

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

Revision Date – May 21, 2024

3-String Design – Open Production Casing Annulus



Update May 2024:

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

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

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Regal Lager 31_19 Fed Com

Regal Lager 31_19 Fed Com 22H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

03 May, 2023

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Regal Lager 31_19 Fed Com		
Site Position:		Northing:	520,226.48 usft
From:	Map	Easting:	732,271.10 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.428649
		Longitude:	-103.714504

Well	Regal Lager 31_19 Fed Com 22H					
Well Position	+N/-S	0.00 ft	Northing:	520,101.50 usf	Latitude:	32.428305
	+E/-W	0.00 ft	Easting:	732,301.09 usf	Longitude:	-103.714409
Position Uncertainty		2.00 ft	Wellhead Elevation:	ft	Ground Level:	3,621.00 ft
Grid Convergence:		0.33 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	5/3/2023	6.43	60.08	47,700.20000000

Design	Permitting Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	357.52

Plan Survey Tool Program	Date	5/3/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	26,566.86	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM OWSG MWD + HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,560.00	0.00	0.00	4,560.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,559.62	10.00	218.50	5,554.56	-68.07	-54.14	1.00	1.00	0.00	218.50	
9,859.83	10.00	218.50	9,789.48	-652.27	-518.79	0.00	0.00	0.00	0.00	
10,838.29	90.07	359.69	10,436.00	-84.24	-593.37	10.00	8.18	14.43	140.76	FTP (Regal Lager
26,566.86	90.07	359.69	10,416.00	15,644.08	-678.45	0.00	0.00	0.00	0.00	PBHL (Regal Lager

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,560.00	0.00	0.00	4,560.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.40	218.50	4,600.00	-0.11	-0.09	-0.11	1.00	1.00	0.00
4,700.00	1.40	218.50	4,699.99	-1.34	-1.06	-1.29	1.00	1.00	0.00
4,800.00	2.40	218.50	4,799.93	-3.93	-3.13	-3.79	1.00	1.00	0.00
4,900.00	3.40	218.50	4,899.80	-7.89	-6.28	-7.61	1.00	1.00	0.00
5,000.00	4.40	218.50	4,999.57	-13.22	-10.51	-12.75	1.00	1.00	0.00
5,100.00	5.40	218.50	5,099.20	-19.90	-15.83	-19.20	1.00	1.00	0.00
5,200.00	6.40	218.50	5,198.67	-27.95	-22.23	-26.96	1.00	1.00	0.00
5,300.00	7.40	218.50	5,297.94	-37.35	-29.71	-36.03	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	8.40	218.50	5,396.99	-48.10	-38.26	-46.40	1.00	1.00	0.00
5,500.00	9.40	218.50	5,495.79	-60.21	-47.89	-58.08	1.00	1.00	0.00
5,559.62	10.00	218.50	5,554.56	-68.07	-54.14	-65.66	1.00	1.00	0.00
5,600.00	10.00	218.50	5,594.32	-73.56	-58.51	-70.95	0.00	0.00	0.00
5,700.00	10.00	218.50	5,692.81	-87.14	-69.31	-84.06	0.00	0.00	0.00
5,800.00	10.00	218.50	5,791.29	-100.73	-80.12	-97.16	0.00	0.00	0.00
5,900.00	10.00	218.50	5,889.77	-114.31	-90.92	-110.27	0.00	0.00	0.00
6,000.00	10.00	218.50	5,988.25	-127.90	-101.73	-123.37	0.00	0.00	0.00
6,100.00	10.00	218.50	6,086.73	-141.48	-112.53	-136.48	0.00	0.00	0.00
6,200.00	10.00	218.50	6,185.22	-155.07	-123.34	-149.58	0.00	0.00	0.00
6,300.00	10.00	218.50	6,283.70	-168.66	-134.14	-162.68	0.00	0.00	0.00
6,400.00	10.00	218.50	6,382.18	-182.24	-144.95	-175.79	0.00	0.00	0.00
6,500.00	10.00	218.50	6,480.66	-195.83	-155.75	-188.89	0.00	0.00	0.00
6,600.00	10.00	218.50	6,579.14	-209.41	-166.56	-202.00	0.00	0.00	0.00
6,700.00	10.00	218.50	6,677.62	-223.00	-177.36	-215.10	0.00	0.00	0.00
6,800.00	10.00	218.50	6,776.11	-236.58	-188.17	-228.21	0.00	0.00	0.00
6,900.00	10.00	218.50	6,874.59	-250.17	-198.97	-241.31	0.00	0.00	0.00
7,000.00	10.00	218.50	6,973.07	-263.75	-209.78	-254.41	0.00	0.00	0.00
7,100.00	10.00	218.50	7,071.55	-277.34	-220.58	-267.52	0.00	0.00	0.00
7,200.00	10.00	218.50	7,170.03	-290.92	-231.39	-280.62	0.00	0.00	0.00
7,300.00	10.00	218.50	7,268.52	-304.51	-242.19	-293.73	0.00	0.00	0.00
7,400.00	10.00	218.50	7,367.00	-318.09	-253.00	-306.83	0.00	0.00	0.00
7,500.00	10.00	218.50	7,465.48	-331.68	-263.80	-319.94	0.00	0.00	0.00
7,600.00	10.00	218.50	7,563.96	-345.26	-274.61	-333.04	0.00	0.00	0.00
7,700.00	10.00	218.50	7,662.44	-358.85	-285.42	-346.14	0.00	0.00	0.00
7,800.00	10.00	218.50	7,760.93	-372.43	-296.22	-359.25	0.00	0.00	0.00
7,900.00	10.00	218.50	7,859.41	-386.02	-307.03	-372.35	0.00	0.00	0.00
8,000.00	10.00	218.50	7,957.89	-399.60	-317.83	-385.46	0.00	0.00	0.00
8,100.00	10.00	218.50	8,056.37	-413.19	-328.64	-398.56	0.00	0.00	0.00
8,200.00	10.00	218.50	8,154.85	-426.77	-339.44	-411.67	0.00	0.00	0.00
8,300.00	10.00	218.50	8,253.34	-440.36	-350.25	-424.77	0.00	0.00	0.00
8,400.00	10.00	218.50	8,351.82	-453.94	-361.05	-437.87	0.00	0.00	0.00
8,500.00	10.00	218.50	8,450.30	-467.53	-371.86	-450.98	0.00	0.00	0.00
8,600.00	10.00	218.50	8,548.78	-481.12	-382.66	-464.08	0.00	0.00	0.00
8,700.00	10.00	218.50	8,647.26	-494.70	-393.47	-477.19	0.00	0.00	0.00
8,800.00	10.00	218.50	8,745.75	-508.29	-404.27	-490.29	0.00	0.00	0.00
8,900.00	10.00	218.50	8,844.23	-521.87	-415.08	-503.40	0.00	0.00	0.00
9,000.00	10.00	218.50	8,942.71	-535.46	-425.88	-516.50	0.00	0.00	0.00
9,100.00	10.00	218.50	9,041.19	-549.04	-436.69	-529.60	0.00	0.00	0.00
9,200.00	10.00	218.50	9,139.67	-562.63	-447.49	-542.71	0.00	0.00	0.00
9,300.00	10.00	218.50	9,238.16	-576.21	-458.30	-555.81	0.00	0.00	0.00
9,400.00	10.00	218.50	9,336.64	-589.80	-469.10	-568.92	0.00	0.00	0.00
9,500.00	10.00	218.50	9,435.12	-603.38	-479.91	-582.02	0.00	0.00	0.00
9,600.00	10.00	218.50	9,533.60	-616.97	-490.71	-595.13	0.00	0.00	0.00
9,700.00	10.00	218.50	9,632.08	-630.55	-501.52	-608.23	0.00	0.00	0.00
9,800.00	10.00	218.50	9,730.56	-644.14	-512.32	-621.34	0.00	0.00	0.00
9,859.83	10.00	218.50	9,789.48	-652.27	-518.79	-629.17	0.00	0.00	0.00
9,900.00	7.33	238.81	9,829.20	-656.32	-523.15	-633.04	10.00	-6.63	50.57
10,000.00	8.86	314.58	9,928.45	-654.22	-534.13	-630.46	10.00	1.53	75.77
10,100.00	17.39	339.03	10,025.81	-634.80	-545.00	-610.59	10.00	8.53	24.45
10,200.00	26.94	347.13	10,118.34	-598.67	-555.42	-574.04	10.00	9.54	8.09
10,300.00	36.71	351.16	10,203.21	-546.92	-565.08	-521.92	10.00	9.78	4.04
10,400.00	46.58	353.68	10,277.85	-481.12	-573.69	-455.82	10.00	9.86	2.52
10,500.00	56.48	355.48	10,339.99	-403.28	-580.99	-377.73	10.00	9.90	1.80
10,600.00	66.40	356.91	10,387.75	-315.75	-586.75	-290.04	10.00	9.92	1.43

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	76.33	358.14	10,419.67	-221.21	-590.81	-195.40	10.00	9.93	1.23
10,800.00	86.27	359.27	10,434.78	-122.51	-593.02	-96.70	10.00	9.94	1.13
10,838.29	90.07	359.69	10,436.00	-84.24	-593.37	-58.46	10.00	9.94	1.10
10,900.00	90.07	359.69	10,435.92	-22.54	-593.70	3.21	0.00	0.00	0.00
11,000.00	90.07	359.69	10,435.79	77.46	-594.25	103.14	0.00	0.00	0.00
11,100.00	90.07	359.69	10,435.67	177.46	-594.79	203.06	0.00	0.00	0.00
11,200.00	90.07	359.69	10,435.54	277.46	-595.33	302.99	0.00	0.00	0.00
11,300.00	90.07	359.69	10,435.41	377.46	-595.87	402.92	0.00	0.00	0.00
11,400.00	90.07	359.69	10,435.29	477.46	-596.41	502.85	0.00	0.00	0.00
11,500.00	90.07	359.69	10,435.16	577.45	-596.95	602.78	0.00	0.00	0.00
11,600.00	90.07	359.69	10,435.03	677.45	-597.49	702.70	0.00	0.00	0.00
11,700.00	90.07	359.69	10,434.90	777.45	-598.03	802.63	0.00	0.00	0.00
11,800.00	90.07	359.69	10,434.78	877.45	-598.57	902.56	0.00	0.00	0.00
11,900.00	90.07	359.69	10,434.65	977.45	-599.11	1,002.49	0.00	0.00	0.00
12,000.00	90.07	359.69	10,434.52	1,077.45	-599.65	1,102.42	0.00	0.00	0.00
12,100.00	90.07	359.69	10,434.40	1,177.44	-600.20	1,202.34	0.00	0.00	0.00
12,200.00	90.07	359.69	10,434.27	1,277.44	-600.74	1,302.27	0.00	0.00	0.00
12,300.00	90.07	359.69	10,434.14	1,377.44	-601.28	1,402.20	0.00	0.00	0.00
12,400.00	90.07	359.69	10,434.01	1,477.44	-601.82	1,502.13	0.00	0.00	0.00
12,500.00	90.07	359.69	10,433.89	1,577.44	-602.36	1,602.06	0.00	0.00	0.00
12,600.00	90.07	359.69	10,433.76	1,677.44	-602.90	1,701.98	0.00	0.00	0.00
12,700.00	90.07	359.69	10,433.63	1,777.44	-603.44	1,801.91	0.00	0.00	0.00
12,800.00	90.07	359.69	10,433.51	1,877.43	-603.98	1,901.84	0.00	0.00	0.00
12,900.00	90.07	359.69	10,433.38	1,977.43	-604.52	2,001.77	0.00	0.00	0.00
13,000.00	90.07	359.69	10,433.25	2,077.43	-605.06	2,101.70	0.00	0.00	0.00
13,100.00	90.07	359.69	10,433.12	2,177.43	-605.61	2,201.62	0.00	0.00	0.00
13,200.00	90.07	359.69	10,433.00	2,277.43	-606.15	2,301.55	0.00	0.00	0.00
13,300.00	90.07	359.69	10,432.87	2,377.43	-606.69	2,401.48	0.00	0.00	0.00
13,400.00	90.07	359.69	10,432.74	2,477.42	-607.23	2,501.41	0.00	0.00	0.00
13,500.00	90.07	359.69	10,432.62	2,577.42	-607.77	2,601.34	0.00	0.00	0.00
13,600.00	90.07	359.69	10,432.49	2,677.42	-608.31	2,701.26	0.00	0.00	0.00
13,700.00	90.07	359.69	10,432.36	2,777.42	-608.85	2,801.19	0.00	0.00	0.00
13,800.00	90.07	359.69	10,432.23	2,877.42	-609.39	2,901.12	0.00	0.00	0.00
13,900.00	90.07	359.69	10,432.11	2,977.42	-609.93	3,001.05	0.00	0.00	0.00
14,000.00	90.07	359.69	10,431.98	3,077.42	-610.47	3,100.98	0.00	0.00	0.00
14,100.00	90.07	359.69	10,431.85	3,177.41	-611.01	3,200.90	0.00	0.00	0.00
14,200.00	90.07	359.69	10,431.73	3,277.41	-611.56	3,300.83	0.00	0.00	0.00
14,300.00	90.07	359.69	10,431.60	3,377.41	-612.10	3,400.76	0.00	0.00	0.00
14,400.00	90.07	359.69	10,431.47	3,477.41	-612.64	3,500.69	0.00	0.00	0.00
14,500.00	90.07	359.69	10,431.34	3,577.41	-613.18	3,600.62	0.00	0.00	0.00
14,600.00	90.07	359.69	10,431.22	3,677.41	-613.72	3,700.54	0.00	0.00	0.00
14,700.00	90.07	359.69	10,431.09	3,777.40	-614.26	3,800.47	0.00	0.00	0.00
14,800.00	90.07	359.69	10,430.96	3,877.40	-614.80	3,900.40	0.00	0.00	0.00
14,900.00	90.07	359.69	10,430.84	3,977.40	-615.34	4,000.33	0.00	0.00	0.00
15,000.00	90.07	359.69	10,430.71	4,077.40	-615.88	4,100.26	0.00	0.00	0.00
15,100.00	90.07	359.69	10,430.58	4,177.40	-616.42	4,200.18	0.00	0.00	0.00
15,200.00	90.07	359.69	10,430.45	4,277.40	-616.97	4,300.11	0.00	0.00	0.00
15,300.00	90.07	359.69	10,430.33	4,377.40	-617.51	4,400.04	0.00	0.00	0.00
15,400.00	90.07	359.69	10,430.20	4,477.39	-618.05	4,499.97	0.00	0.00	0.00
15,500.00	90.07	359.69	10,430.07	4,577.39	-618.59	4,599.90	0.00	0.00	0.00
15,600.00	90.07	359.69	10,429.95	4,677.39	-619.13	4,699.82	0.00	0.00	0.00
15,700.00	90.07	359.69	10,429.82	4,777.39	-619.67	4,799.75	0.00	0.00	0.00
15,800.00	90.07	359.69	10,429.69	4,877.39	-620.21	4,899.68	0.00	0.00	0.00
15,900.00	90.07	359.69	10,429.56	4,977.39	-620.75	4,999.61	0.00	0.00	0.00
16,000.00	90.07	359.69	10,429.44	5,077.38	-621.29	5,099.54	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
16,100.00	90.07	359.69	10,429.31	5,177.38	-621.83	5,199.46	0.00	0.00	0.00
16,200.00	90.07	359.69	10,429.18	5,277.38	-622.37	5,299.39	0.00	0.00	0.00
16,300.00	90.07	359.69	10,429.06	5,377.38	-622.92	5,399.32	0.00	0.00	0.00
16,400.00	90.07	359.69	10,428.93	5,477.38	-623.46	5,499.25	0.00	0.00	0.00
16,500.00	90.07	359.69	10,428.80	5,577.38	-624.00	5,599.18	0.00	0.00	0.00
16,600.00	90.07	359.69	10,428.67	5,677.38	-624.54	5,699.10	0.00	0.00	0.00
16,700.00	90.07	359.69	10,428.55	5,777.37	-625.08	5,799.03	0.00	0.00	0.00
16,800.00	90.07	359.69	10,428.42	5,877.37	-625.62	5,898.96	0.00	0.00	0.00
16,900.00	90.07	359.69	10,428.29	5,977.37	-626.16	5,998.89	0.00	0.00	0.00
17,000.00	90.07	359.69	10,428.17	6,077.37	-626.70	6,098.82	0.00	0.00	0.00
17,100.00	90.07	359.69	10,428.04	6,177.37	-627.24	6,198.74	0.00	0.00	0.00
17,200.00	90.07	359.69	10,427.91	6,277.37	-627.78	6,298.67	0.00	0.00	0.00
17,300.00	90.07	359.69	10,427.78	6,377.36	-628.33	6,398.60	0.00	0.00	0.00
17,400.00	90.07	359.69	10,427.66	6,477.36	-628.87	6,498.53	0.00	0.00	0.00
17,500.00	90.07	359.69	10,427.53	6,577.36	-629.41	6,598.46	0.00	0.00	0.00
17,600.00	90.07	359.69	10,427.40	6,677.36	-629.95	6,698.38	0.00	0.00	0.00
17,700.00	90.07	359.69	10,427.28	6,777.36	-630.49	6,798.31	0.00	0.00	0.00
17,800.00	90.07	359.69	10,427.15	6,877.36	-631.03	6,898.24	0.00	0.00	0.00
17,900.00	90.07	359.69	10,427.02	6,977.36	-631.57	6,998.17	0.00	0.00	0.00
18,000.00	90.07	359.69	10,426.89	7,077.35	-632.11	7,098.10	0.00	0.00	0.00
18,100.00	90.07	359.69	10,426.77	7,177.35	-632.65	7,198.02	0.00	0.00	0.00
18,200.00	90.07	359.69	10,426.64	7,277.35	-633.19	7,297.95	0.00	0.00	0.00
18,300.00	90.07	359.69	10,426.51	7,377.35	-633.73	7,397.88	0.00	0.00	0.00
18,400.00	90.07	359.69	10,426.38	7,477.35	-634.28	7,497.81	0.00	0.00	0.00
18,500.00	90.07	359.69	10,426.26	7,577.35	-634.82	7,597.74	0.00	0.00	0.00
18,600.00	90.07	359.69	10,426.13	7,677.34	-635.36	7,697.66	0.00	0.00	0.00
18,700.00	90.07	359.69	10,426.00	7,777.34	-635.90	7,797.59	0.00	0.00	0.00
18,800.00	90.07	359.69	10,425.88	7,877.34	-636.44	7,897.52	0.00	0.00	0.00
18,900.00	90.07	359.69	10,425.75	7,977.34	-636.98	7,997.45	0.00	0.00	0.00
19,000.00	90.07	359.69	10,425.62	8,077.34	-637.52	8,097.38	0.00	0.00	0.00
19,100.00	90.07	359.69	10,425.49	8,177.34	-638.06	8,197.30	0.00	0.00	0.00
19,200.00	90.07	359.69	10,425.37	8,277.34	-638.60	8,297.23	0.00	0.00	0.00
19,300.00	90.07	359.69	10,425.24	8,377.33	-639.14	8,397.16	0.00	0.00	0.00
19,400.00	90.07	359.69	10,425.11	8,477.33	-639.69	8,497.09	0.00	0.00	0.00
19,500.00	90.07	359.69	10,424.99	8,577.33	-640.23	8,597.02	0.00	0.00	0.00
19,600.00	90.07	359.69	10,424.86	8,677.33	-640.77	8,696.94	0.00	0.00	0.00
19,700.00	90.07	359.69	10,424.73	8,777.33	-641.31	8,796.87	0.00	0.00	0.00
19,800.00	90.07	359.69	10,424.60	8,877.33	-641.85	8,896.80	0.00	0.00	0.00
19,900.00	90.07	359.69	10,424.48	8,977.32	-642.39	8,996.73	0.00	0.00	0.00
20,000.00	90.07	359.69	10,424.35	9,077.32	-642.93	9,096.66	0.00	0.00	0.00
20,100.00	90.07	359.69	10,424.22	9,177.32	-643.47	9,196.58	0.00	0.00	0.00
20,200.00	90.07	359.69	10,424.10	9,277.32	-644.01	9,296.51	0.00	0.00	0.00
20,300.00	90.07	359.69	10,423.97	9,377.32	-644.55	9,396.44	0.00	0.00	0.00
20,400.00	90.07	359.69	10,423.84	9,477.32	-645.09	9,496.37	0.00	0.00	0.00
20,500.00	90.07	359.69	10,423.71	9,577.32	-645.64	9,596.30	0.00	0.00	0.00
20,600.00	90.07	359.69	10,423.59	9,677.31	-646.18	9,696.22	0.00	0.00	0.00
20,700.00	90.07	359.69	10,423.46	9,777.31	-646.72	9,796.15	0.00	0.00	0.00
20,800.00	90.07	359.69	10,423.33	9,877.31	-647.26	9,896.08	0.00	0.00	0.00
20,900.00	90.07	359.69	10,423.21	9,977.31	-647.80	9,996.01	0.00	0.00	0.00
21,000.00	90.07	359.69	10,423.08	10,077.31	-648.34	10,095.94	0.00	0.00	0.00
21,100.00	90.07	359.69	10,422.95	10,177.31	-648.88	10,195.86	0.00	0.00	0.00
21,200.00	90.07	359.69	10,422.82	10,277.30	-649.42	10,295.79	0.00	0.00	0.00
21,300.00	90.07	359.69	10,422.70	10,377.30	-649.96	10,395.72	0.00	0.00	0.00
21,400.00	90.07	359.69	10,422.57	10,477.30	-650.50	10,495.65	0.00	0.00	0.00
21,500.00	90.07	359.69	10,422.44	10,577.30	-651.05	10,595.58	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,600.00	90.07	359.69	10,422.32	10,677.30	-651.59	10,695.50	0.00	0.00	0.00
21,700.00	90.07	359.69	10,422.19	10,777.30	-652.13	10,795.43	0.00	0.00	0.00
21,800.00	90.07	359.69	10,422.06	10,877.30	-652.67	10,895.36	0.00	0.00	0.00
21,900.00	90.07	359.69	10,421.93	10,977.29	-653.21	10,995.29	0.00	0.00	0.00
22,000.00	90.07	359.69	10,421.81	11,077.29	-653.75	11,095.22	0.00	0.00	0.00
22,100.00	90.07	359.69	10,421.68	11,177.29	-654.29	11,195.14	0.00	0.00	0.00
22,200.00	90.07	359.69	10,421.55	11,277.29	-654.83	11,295.07	0.00	0.00	0.00
22,300.00	90.07	359.69	10,421.43	11,377.29	-655.37	11,395.00	0.00	0.00	0.00
22,400.00	90.07	359.69	10,421.30	11,477.29	-655.91	11,494.93	0.00	0.00	0.00
22,500.00	90.07	359.69	10,421.17	11,577.28	-656.45	11,594.85	0.00	0.00	0.00
22,600.00	90.07	359.69	10,421.04	11,677.28	-657.00	11,694.78	0.00	0.00	0.00
22,700.00	90.07	359.69	10,420.92	11,777.28	-657.54	11,794.71	0.00	0.00	0.00
22,800.00	90.07	359.69	10,420.79	11,877.28	-658.08	11,894.64	0.00	0.00	0.00
22,900.00	90.07	359.69	10,420.66	11,977.28	-658.62	11,994.57	0.00	0.00	0.00
23,000.00	90.07	359.69	10,420.54	12,077.28	-659.16	12,094.49	0.00	0.00	0.00
23,100.00	90.07	359.69	10,420.41	12,177.28	-659.70	12,194.42	0.00	0.00	0.00
23,200.00	90.07	359.69	10,420.28	12,277.27	-660.24	12,294.35	0.00	0.00	0.00
23,300.00	90.07	359.69	10,420.15	12,377.27	-660.78	12,394.28	0.00	0.00	0.00
23,400.00	90.07	359.69	10,420.03	12,477.27	-661.32	12,494.21	0.00	0.00	0.00
23,500.00	90.07	359.69	10,419.90	12,577.27	-661.86	12,594.13	0.00	0.00	0.00
23,600.00	90.07	359.69	10,419.77	12,677.27	-662.41	12,694.06	0.00	0.00	0.00
23,700.00	90.07	359.69	10,419.65	12,777.27	-662.95	12,793.99	0.00	0.00	0.00
23,800.00	90.07	359.69	10,419.52	12,877.26	-663.49	12,893.92	0.00	0.00	0.00
23,900.00	90.07	359.69	10,419.39	12,977.26	-664.03	12,993.85	0.00	0.00	0.00
24,000.00	90.07	359.69	10,419.26	13,077.26	-664.57	13,093.77	0.00	0.00	0.00
24,100.00	90.07	359.69	10,419.14	13,177.26	-665.11	13,193.70	0.00	0.00	0.00
24,200.00	90.07	359.69	10,419.01	13,277.26	-665.65	13,293.63	0.00	0.00	0.00
24,300.00	90.07	359.69	10,418.88	13,377.26	-666.19	13,393.56	0.00	0.00	0.00
24,400.00	90.07	359.69	10,418.76	13,477.26	-666.73	13,493.49	0.00	0.00	0.00
24,500.00	90.07	359.69	10,418.63	13,577.25	-667.27	13,593.41	0.00	0.00	0.00
24,600.00	90.07	359.69	10,418.50	13,677.25	-667.81	13,693.34	0.00	0.00	0.00
24,700.00	90.07	359.69	10,418.37	13,777.25	-668.36	13,793.27	0.00	0.00	0.00
24,800.00	90.07	359.69	10,418.25	13,877.25	-668.90	13,893.20	0.00	0.00	0.00
24,900.00	90.07	359.69	10,418.12	13,977.25	-669.44	13,993.13	0.00	0.00	0.00
25,000.00	90.07	359.69	10,417.99	14,077.25	-669.98	14,093.05	0.00	0.00	0.00
25,100.00	90.07	359.69	10,417.87	14,177.24	-670.52	14,192.98	0.00	0.00	0.00
25,200.00	90.07	359.69	10,417.74	14,277.24	-671.06	14,292.91	0.00	0.00	0.00
25,300.00	90.07	359.69	10,417.61	14,377.24	-671.60	14,392.84	0.00	0.00	0.00
25,400.00	90.07	359.69	10,417.48	14,477.24	-672.14	14,492.77	0.00	0.00	0.00
25,500.00	90.07	359.69	10,417.36	14,577.24	-672.68	14,592.69	0.00	0.00	0.00
25,600.00	90.07	359.69	10,417.23	14,677.24	-673.22	14,692.62	0.00	0.00	0.00
25,700.00	90.07	359.69	10,417.10	14,777.24	-673.77	14,792.55	0.00	0.00	0.00
25,800.00	90.07	359.69	10,416.98	14,877.23	-674.31	14,892.48	0.00	0.00	0.00
25,900.00	90.07	359.69	10,416.85	14,977.23	-674.85	14,992.41	0.00	0.00	0.00
26,000.00	90.07	359.69	10,416.72	15,077.23	-675.39	15,092.33	0.00	0.00	0.00
26,100.00	90.07	359.69	10,416.59	15,177.23	-675.93	15,192.26	0.00	0.00	0.00
26,200.00	90.07	359.69	10,416.47	15,277.23	-676.47	15,292.19	0.00	0.00	0.00
26,300.00	90.07	359.69	10,416.34	15,377.23	-677.01	15,392.12	0.00	0.00	0.00
26,400.00	90.07	359.69	10,416.21	15,477.22	-677.55	15,492.05	0.00	0.00	0.00
26,500.00	90.07	359.69	10,416.09	15,577.22	-678.09	15,591.97	0.00	0.00	0.00
26,566.86	90.07	359.69	10,416.00	15,644.08	-678.45	15,658.79	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Regal Lager 31_19 Fed Com 22H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3646.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3646.00ft
Site:	Regal Lager 31_19 Fed Com	North Reference:	Grid
Well:	Regal Lager 31_19 Fed Com 22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PBHL (Regal Lager	0.00	0.00	10,416.00	15,644.08	-678.45	535,744.78	731,622.67	32.471313	-103.716315
- plan hits target center									
- Point									
FTP (Regal Lager	0.00	0.00	10,436.00	-84.24	-593.37	520,017.26	731,707.75	32.428083	-103.716334
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
793.00	793.00	RUSTLER				
1,047.00	1,047.00	SALADO				
2,580.00	2,580.00	CASTILE				
4,520.00	4,520.00	DELAWARE				
4,598.00	4,598.00	BELL CANYON				
5,454.63	5,451.00	CHERRY CANYON				
6,722.72	6,700.00	BRUSHY CANYON				
8,544.37	8,494.00	BONE SPRING				
9,597.36	9,531.00	BONE SPRING 1ST				
10,293.53	10,198.00	BONE SPRING 2ND				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
		(ft)	(ft)		
4,560.00	4,560.00	0.00	0.00	Build 1°/100'	
5,559.62	5,554.56	-68.07	-54.14	Hold 10° Tangent	
9,859.83	9,789.48	-652.27	-518.79	KOP, Build & Turn 10°/100'	
10,838.29	10,436.00	-84.24	-593.37	Landing Point	
26,566.86	10,416.00	15,644.08	-678.45	TD at 26566.86' MD	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC.
WELL NAME & NO.: REGAL LAGER 31 19 FEDERAL COM 22H
LOCATION: Sec 31, T21S, R32E
COUNTY: Lea County, New Mexico ▼

COA

H ₂ S	☐ No ☒ Yes			
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q	☒ Open Annulus 4-String Design: Open 1st Int x 2nd Annulus (ICP 2 below Relief Zone) ☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☒ Primary Squeeze	☐ Cont. Squeeze	☒ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☒ COM	☐ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☒ Four-String	☒ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

Set points in COA reflects requirements from BLM Geology. Please review.

1. The 13-3/8 inch surface casing shall be set at approximately **853** 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 **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **10-3/4** inch intermediate salt protection casing shall be set at approximately **4520** feet **TVD. Please set Salt Protection string prior to entering hydrocarbon bearing zone (Delaware)**. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
3. The **7-5/8** inch second intermediate casing shall be set at approximately **9760** feet. **PLEASE REVIEW EXTERNAL PRESSURE FOR PRESSURE TEST. PLEASE KEEP CASING FULL FOR COLLAPSE SF.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Primary + Post Frac Bradenhead):

- Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ **A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days**.

Operator has proposed to pump down **intermediate 1 x intermediate 2** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The 5-1/2 inch production casing shall be set at approximately 26,567 feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back 500 feet into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

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 43 CFR 3171 and 3172.
- 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.

BOPE Break Testing Variance

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

Offline Cementing

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

Casing Clearance

Overlap clearance OK.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

KPI -12/29/2024

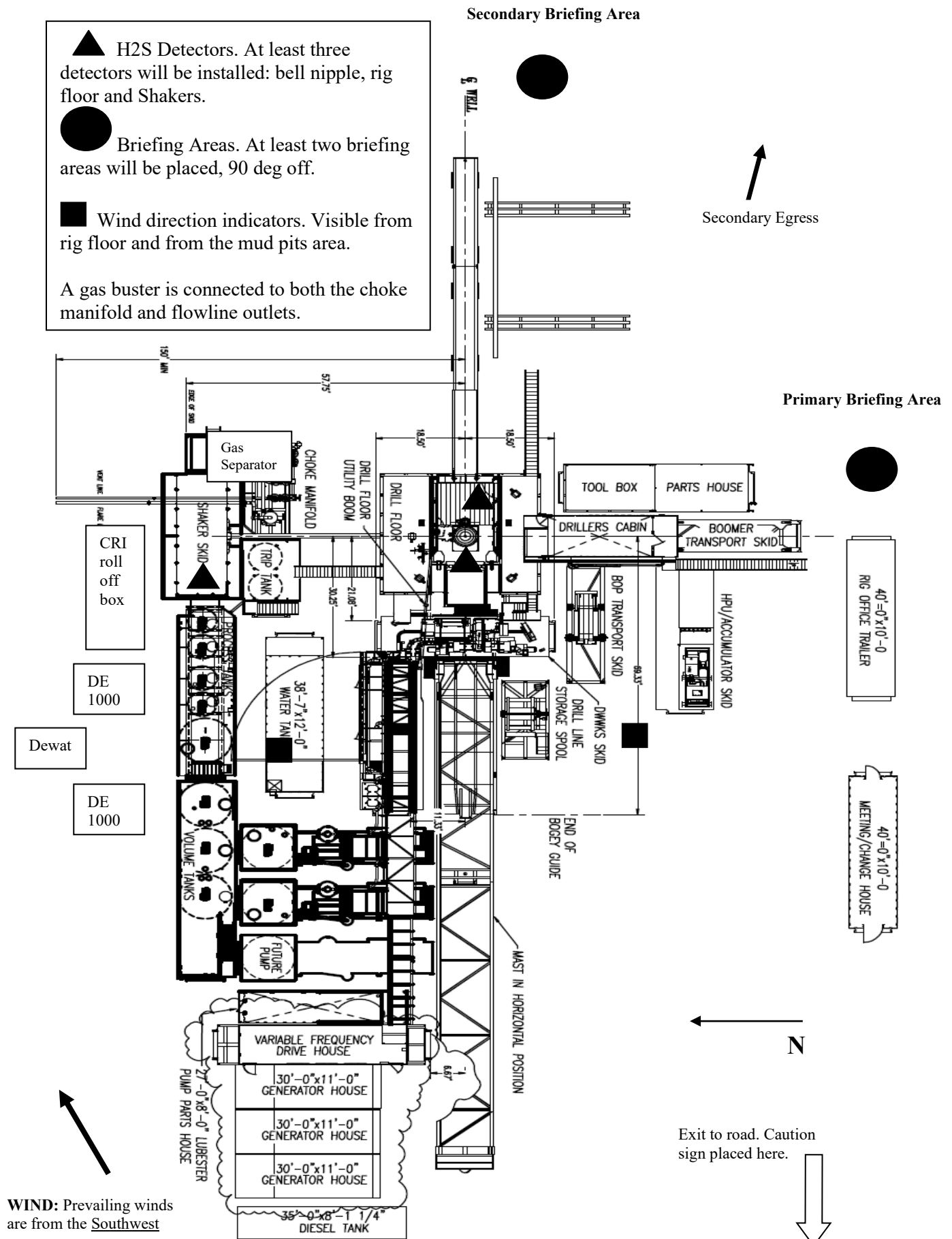


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

- 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. Visual Warning Systems

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

**Caution – potential poison gas
Hydrogen sulfide
No admittance without authorization**

Wind sock – wind streamers:

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

Condition flags

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

green – normal conditions

yellow – potential danger

red – danger, H2S present

- B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

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. Metallurgy

- 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. Designated area

- 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
- Mud engineer:
- 1. Will remain in briefing / muster area until instructed by supervisor.
- 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.

Instructions for igniting the well

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.

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

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 is 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.

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Table i
Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	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	Cl2	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	Combustible 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

Percent (%)	Ppm	Concentration Grains 100 std. Ft3*	Physical effects
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

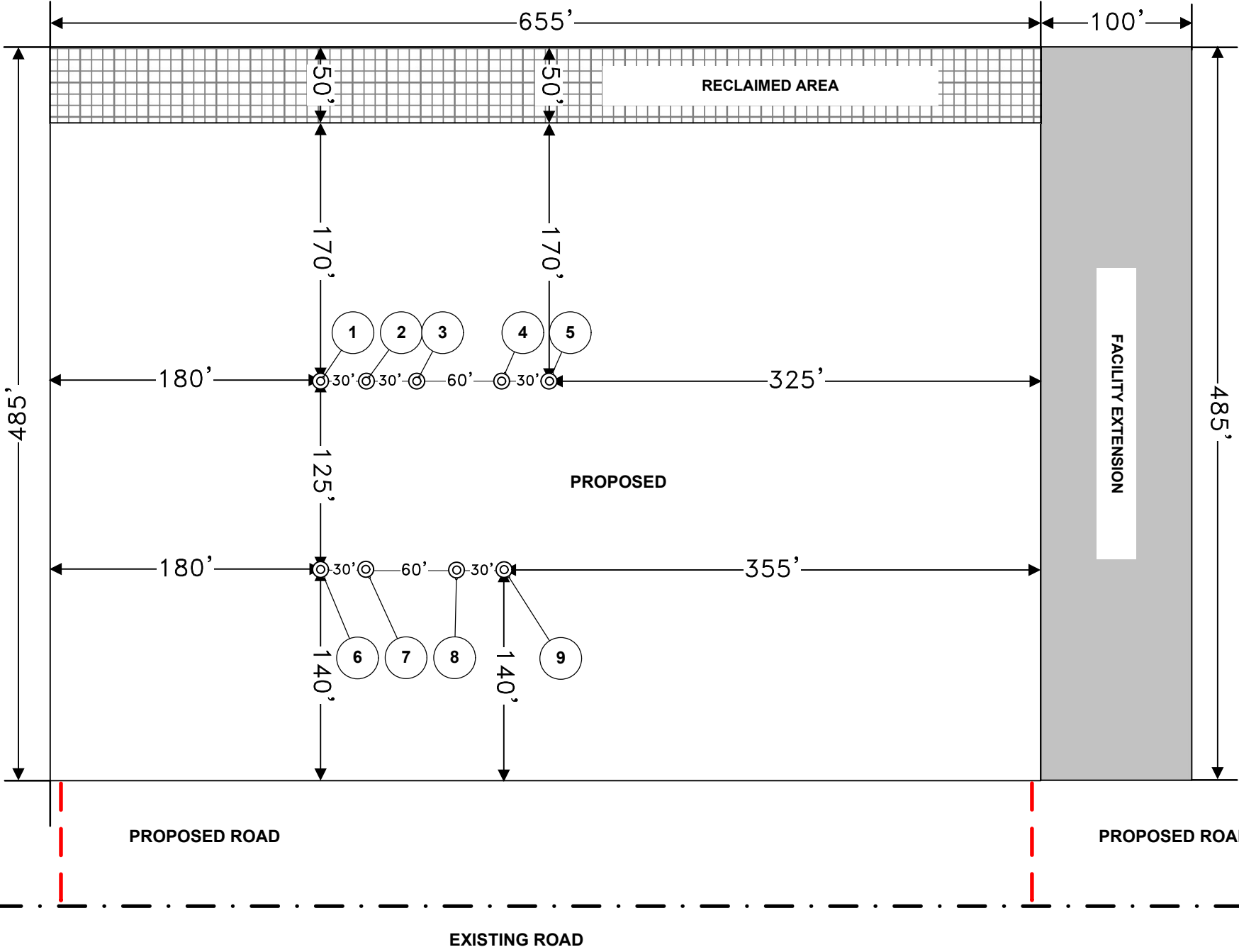
Do not panic!

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



- 1. REGAL LAGER 31_19 FED COM 31H
- 2. REGAL LAGER 31_19 FED COM 32H
- 3. REGAL LAGER 31_19 FED COM 33H
- 4. REGAL LAGER 31_19 FED COM 71H
- 5. REGAL LAGER 31_19 FED COM 72H
- 6. REGAL LAGER 31_19 FED COM 21H
- 7. REGAL LAGER 31_19 FED COM 22H
- 8. REGAL LAGER 31_19 FED COM 1H
- 9. REGAL LAGER 31_19 FED COM 2H

REVISION BLOCK						ENGINEERING RECORD		PAD_LSSTNK_21S32E_31_1_RIG DIAGRAM V-DOOR WEST REGAL LAGER 31_9 FED COM 31H, 32H, 33H, 71H, 72H, 21H, 22H, 1H, 2H SECTION 31, TOWNSHIP 21S, RANGE 32E LEA COUNTY, NEW MEXICO
NO.	DATE	DESCRIPTION				BY	DATE	
						CH	4/19/2023	



SITE PLAN

LSTTNK_21S32E_31_1
 SEC. 31 TWP. 21-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

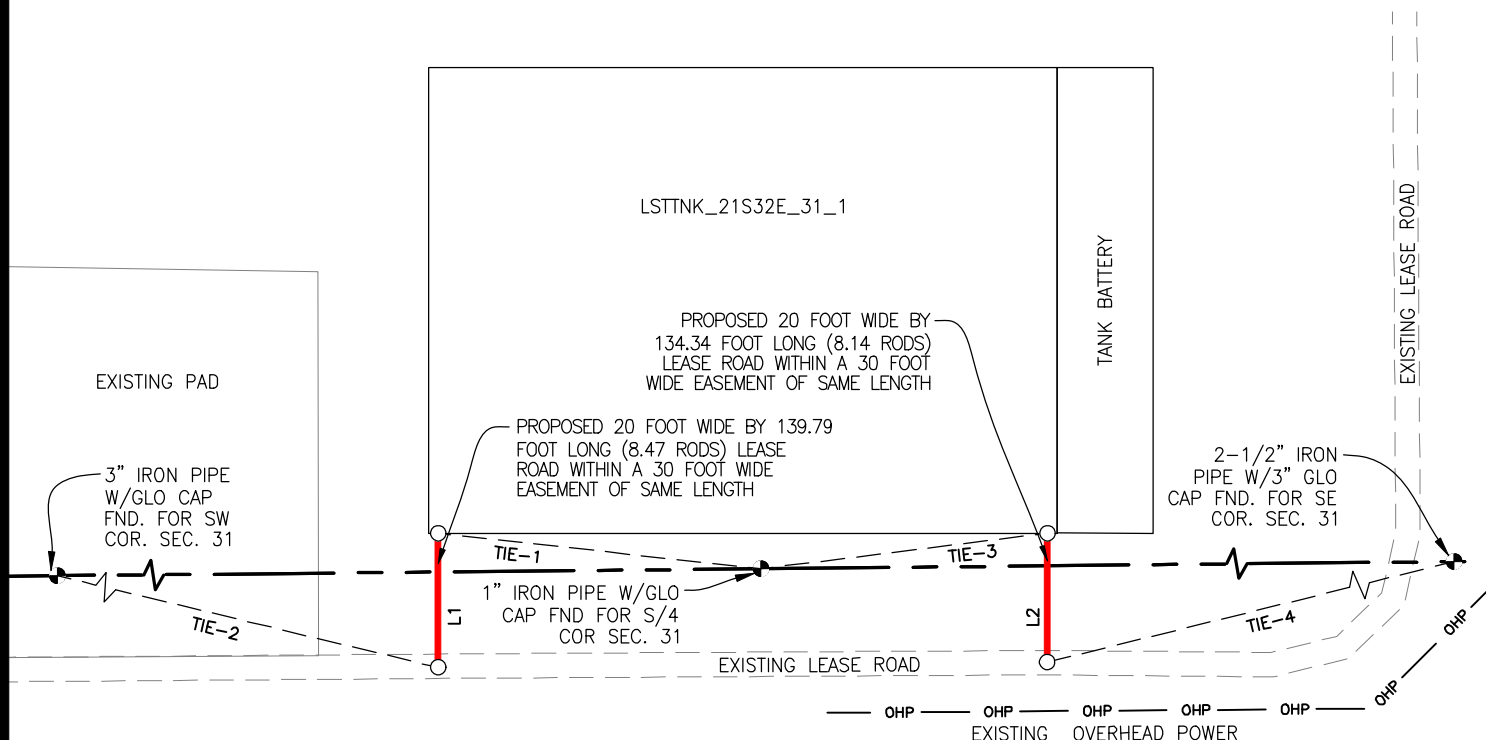
TANK BATTERY
 RECLAMATION
 30' TOP SOIL
 20' DISTURBANCE AREA

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



**SECTION 31,
 T-21-S, R-32-E**

**BUREAU OF LAND
 MANAGEMENT**



**BUREAU OF LAND
 MANAGEMENT**

**SECTION 6,
 T-22-S, R-32-E**

LINE TABLE			TIE TABLE		
NUMBER	BEARING	LENGTH	NUMBER	BEARING	LENGTH
L1	S 00°01'55" W	139.79'	TIE-1	S 83°43'49" E	338.57'
L2	S 00°03'06" W	134.34'	TIE-2	N 88°13'05" W	2,428.90'
			TIE-3	S 82°56'21" W	300.58'
			TIE-4	N 86°57'14" E	2,346.86'

03/04/2023 03/22/2023
 DATE SURVEYED DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403, DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. CALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977642 AND A CONVERGENCE ANGLE OF 0.32750833°.

LEGEND

— EXISTING ROAD
 — PROPOSED ROAD
 — SURFACE SITE EDGE
 — EXIST. PIPELINE
 — MONUMENT
 — QUARTER SPLIT
 — OHP
 — X
 — SECTION LINE
 — PROPERTY LINE
 — W
 — SWD
 — OVERHEAD POWER
 — FENCE
 — WATER LINE
 — SALT WATER LINE

APRIL 3, 2023

DAVID W. MYERS 11403



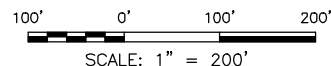
PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON STREET,
 WEST MONROE, LA 71291
 318-323-8900 OFFICE
 JOB No. OXY_0007_RL
 SHEET 1 OF 3



SITE PLAN

LSTTNK_21S32E_31_1
 SEC. 31 TWP. 21-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

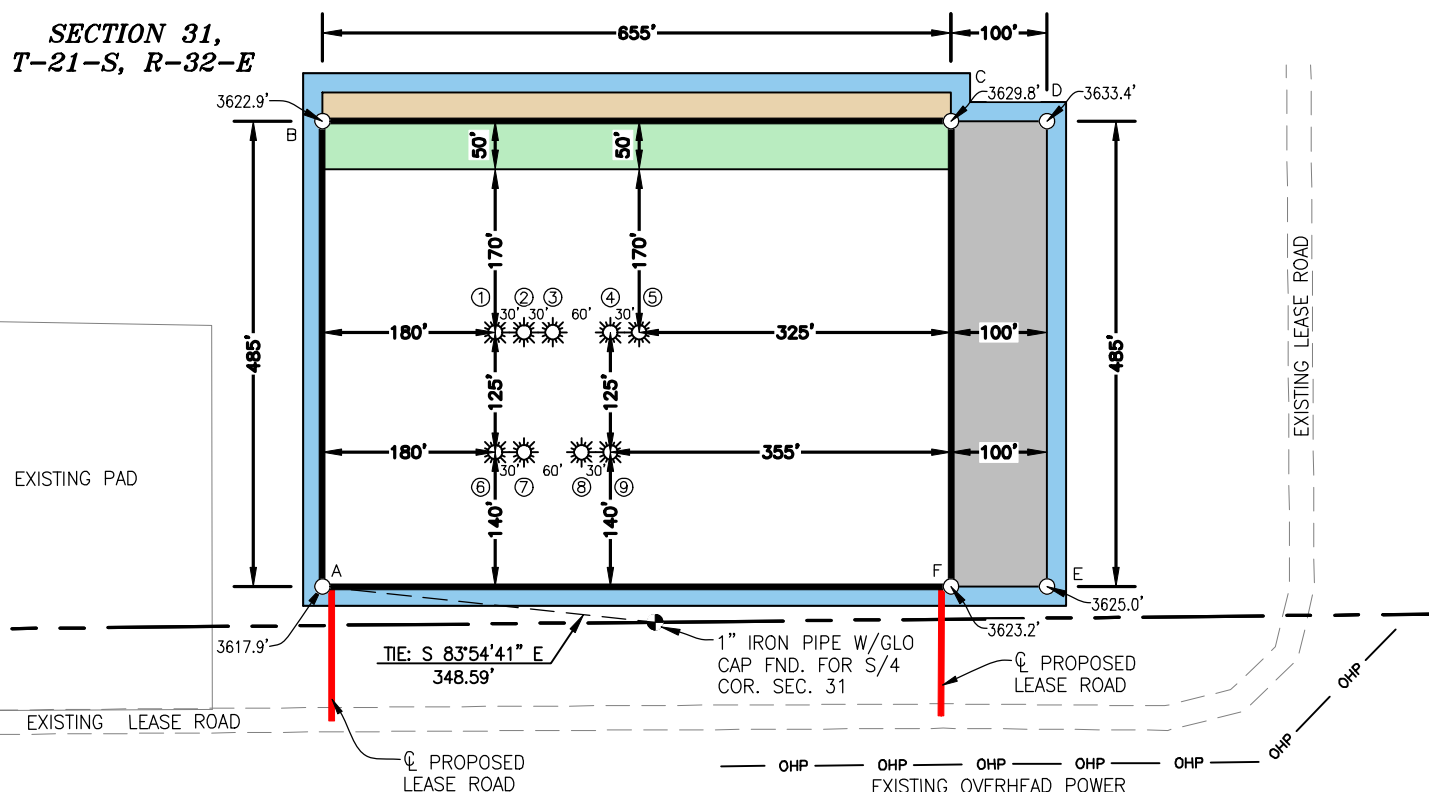
TANK BATTERY
 RECLAMATION
 30' TOP SOIL
 20' DISTURBANCE AREA



NAD 83		
A	E:(X)732091.07 N:(Y)519961.43	LAT:32.42792307 LON:-103.71509205
B	E:(X)732091.09 N:(Y)520446.50	LAT:32.42925637 LON:-103.71508288
C	E:(X)732746.08 N:(Y)520446.48	LAT:32.42924586 LON:-103.71296012
D	E:(X)732846.11 N:(Y)520446.48	LAT:32.42924427 LON:-103.71263594
E	E:(X)732846.10 N:(Y)519961.42	LAT:32.42791101 LON:-103.71264510
F	E:(X)732746.02 N:(Y)519961.41	LAT:32.42791257 LON:-103.71296945

NAD 27		
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B	E:(X)690909.17 N:(Y)520385.64	LAT:32.42913385 LON:-103.71459285
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D	E:(X)691664.18 N:(Y)520385.62	LAT:32.42912175 LON:-103.71214596
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SECTION 31, T-21-S, R-32-E



SECTION 6, T-22-S, R-32-E

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LEGEND	
—	EXISTING ROAD
—	PROPOSED ROAD
—	SURFACE SITE EDGE
—	EXIST. PIPELINE
—	MONUMENT
●	QUARTER SPLIT
—	OHP
x	OVERHEAD POWER FENCE
—	SECTION LINE
—	PROPERTY LINE
—	W
—	WATER LINE
—	SWD
—	SALT WATER LINE

APRIL 3, 2023



DAVID W. MYERS 11403



PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON STREET,
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0007_RL
 SHEET 2 OF 3



SITE PLAN

LSTTNK_21S32E_31_1

SEC. 31 TWP. 21-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
 REGAL LAGER 31_19 FED COM 31H
 OXY USA, INC.
 304' FSL 2,599' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732271.10' / Y:520226.47'
 LAT:32.42864872N / LON:103.71450361W
 NAD 27, SPCS NM EAST
 X:691089.17' / Y:520165.62'
 LAT:32.42852621N / LON:103.71401361W
 ELEVATION = 3,623'

WELL 4
 REGAL LAGER 31_19 FED COM 71H
 OXY USA, INC.
 302' FSL 2,686' FEL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732391.02' / Y:520226.45'
 LAT:32.42864674N / LON:103.71411498W
 NAD 27, SPCS NM EAST
 X:691209.08' / Y:520165.59'
 LAT:32.42852422N / LON:103.71362500W
 ELEVATION = 3,624'

WELL 7
 REGAL LAGER 31_19 FED COM 22H
 OXY USA, INC.
 178' FSL 2,629' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732301.09' / Y:520101.50'
 LAT:32.42830472N / LON:103.71440878W
 NAD 27, SPCS NM EAST
 X:691119.15' / Y:520040.64'
 LAT:32.42818220N / LON:103.71391880W
 ELEVATION = 3,621'

WELL 2
 REGAL LAGER 31_19 FED COM 32H
 OXY USA, INC.
 303' FSL 2,629' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732301.01' / Y:520226.49'
 LAT:32.42864827N / LON:103.71440668W
 NAD 27, SPCS NM EAST
 X:691119.08' / Y:520165.63'
 LAT:32.42852576N / LON:103.71391668W
 ELEVATION = 3,624'

WELL 5
 REGAL LAGER 31_19 FED COM 72H
 OXY USA, INC.
 302' FSL 2,656' FEL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732421.08' / Y:520226.50'
 LAT:32.42864640N / LON:103.71401756W
 NAD 27, SPCS NM EAST
 X:691239.14' / Y:520165.64'
 LAT:32.42852388N / LON:103.71352758W
 ELEVATION = 3,623'

WELL 8
 REGAL LAGER 31_19 FED COM 1H
 OXY USA, INC.
 178' FSL 2,689' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732361.08' / Y:520101.47'
 LAT:32.42830369N / LON:103.71421437W
 NAD 27, SPCS NM EAST
 X:691179.14' / Y:520040.61'
 LAT:32.42818117N / LON:103.71372439W
 ELEVATION = 3,621'

WELL 3
 REGAL LAGER 31_19 FED COM 33H
 OXY USA, INC.
 303' FSL 2,659' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732331.03' / Y:520226.51'
 LAT:32.42864786N / LON:103.71430938W
 NAD 27, SPCS NM EAST
 X:691149.10' / Y:520165.65'
 LAT:32.42852534N / LON:103.71381939W
 ELEVATION = 3,623'

WELL 6
 REGAL LAGER 31_19 FED COM 21H
 OXY USA, INC.
 179' FSL 2,599' FWL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732271.00' / Y:520101.54'
 LAT:32.42830532N / LON:103.71450630W
 NAD 27, SPCS NM EAST
 X:691089.06' / Y:520040.68'
 LAT:32.42818280N / LON:103.71401631W
 ELEVATION = 3,621'

WELL 9
 REGAL LAGER 31_19 FED COM 2H
 OXY USA, INC.
 177' FSL 2,687' FEL, SECTION 31
 NAD 83, SPCS NM EAST
 X:732391.10' / Y:520101.46'
 LAT:32.42830317N / LON:103.71411706W
 NAD 27, SPCS NM EAST
 X:691209.16' / Y:520040.60'
 LAT:32.42818065N / LON:103.71362709W
 ELEVATION = 3,621'

03/04/2023	03/22/2023
DATE SURVEYED	DATE DRAWN

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LEGEND

— — — — —	EXISTING ROAD	— x — x —	OHP	OVERHEAD POWER
— — — — —	PROPOSED ROAD	— — — — —	FENCE	
— — — — —	SURFACE SITE EDGE	— — — — —	SECTION LINE	
— — — — —	EXIST. PIPELINE	— — — — —	PROPERTY LINE	
— — — — —		— — — — —	WATER LINE	
— — — — —		— — — — —	SALT WATER LINE	
— — — — —		— — — — —		

● MONUMENT ● QUARTER SPLIT

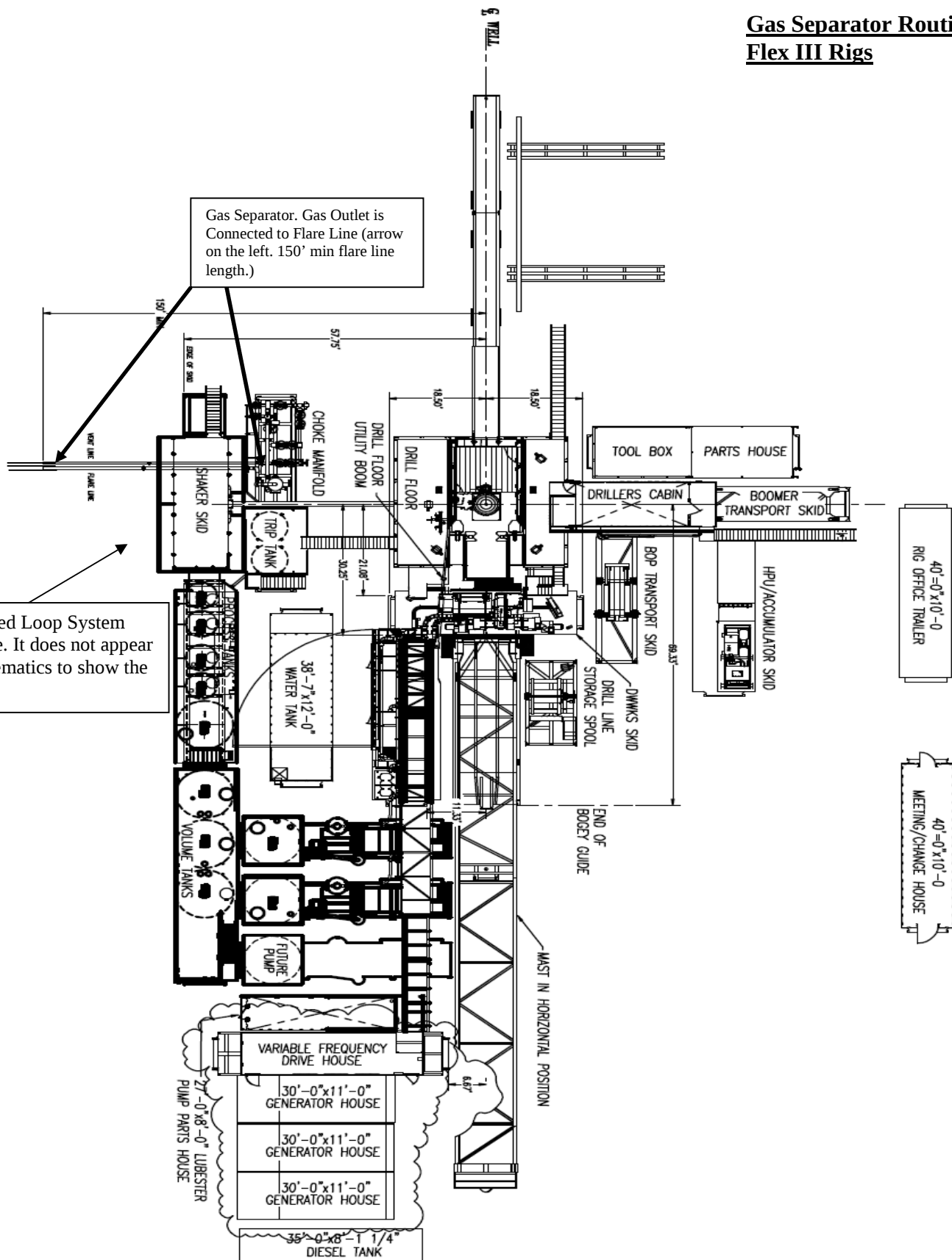
APRIL 3, 2023

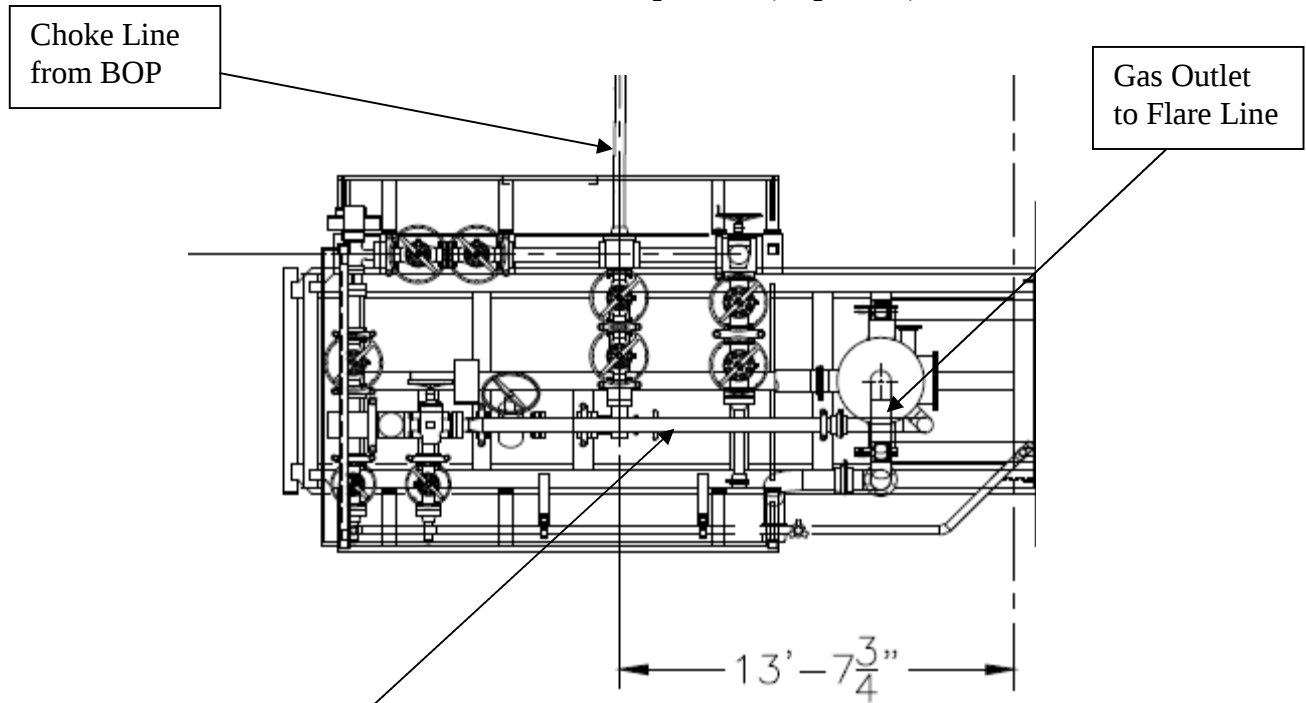
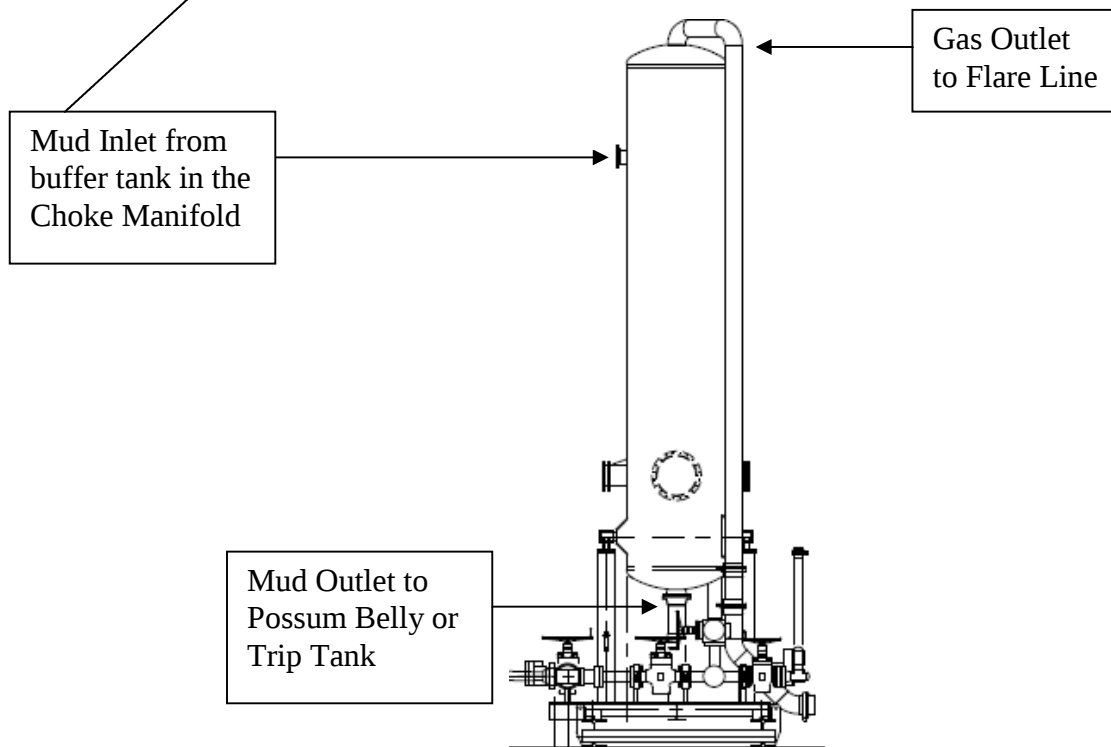
DAVID W. MYERS 11403



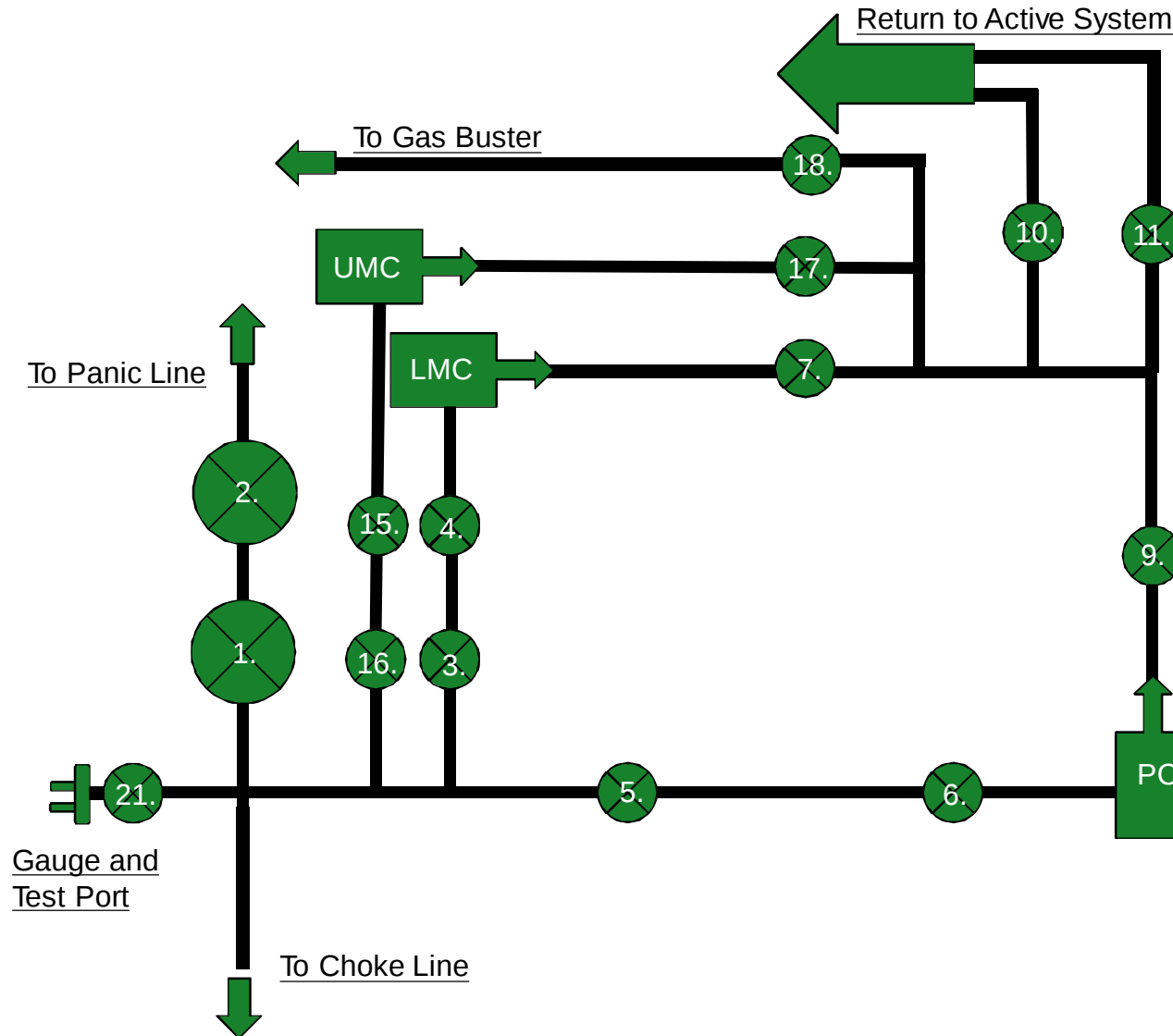
PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON STREET,
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0007_RL
 SHEET 3 OF 3

Gas Separator Routing Flex III Rigs



Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**

10M Choke Panel



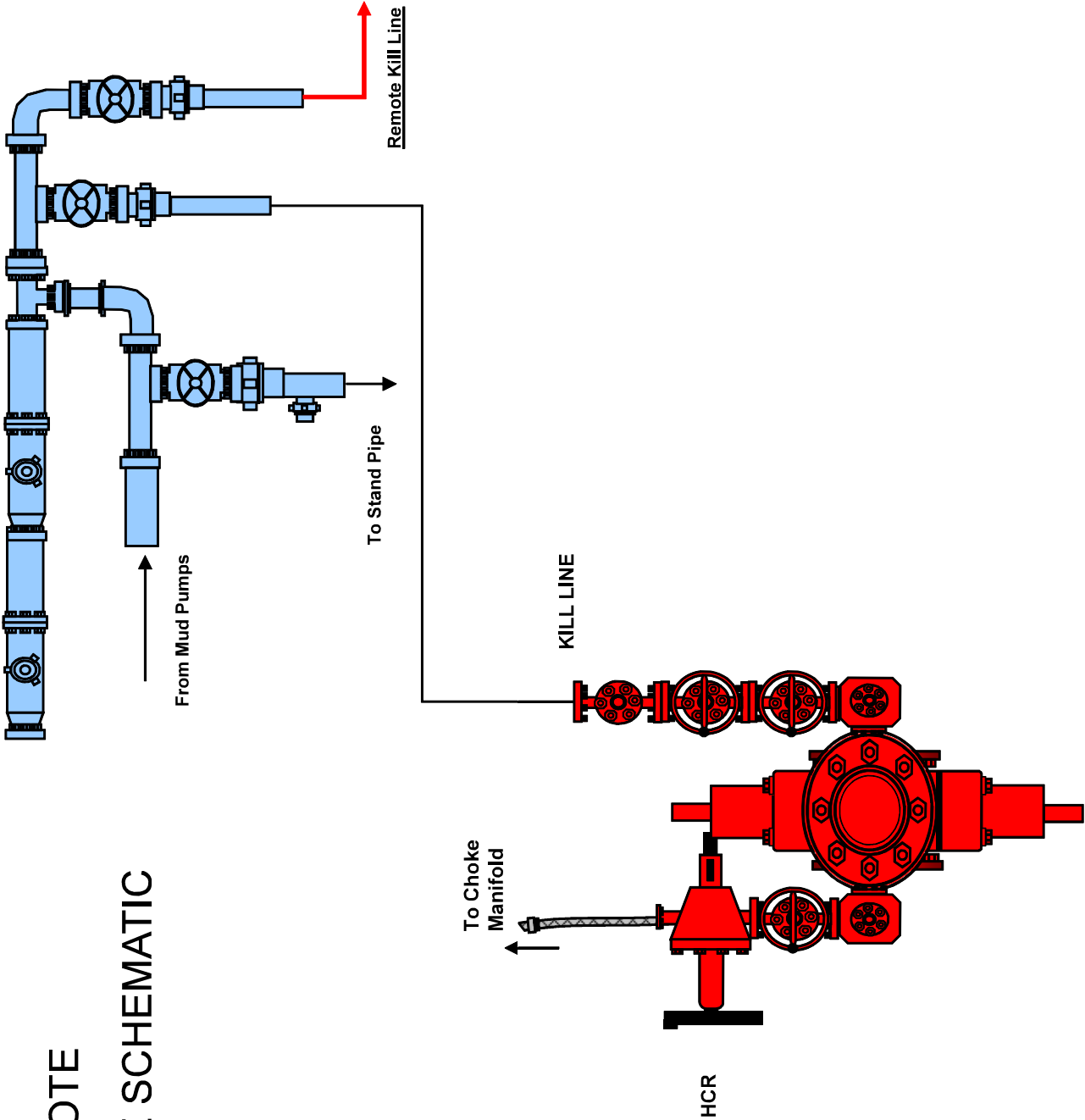
1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. PC – Power Choke
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. LMC – Lower Manual Choke
13. UMC – Upper manual choke

15. Choke Manifold Valve
16. Choke Manifold Valve
17. Choke Manifold Valve
18. Choke Manifold Valve

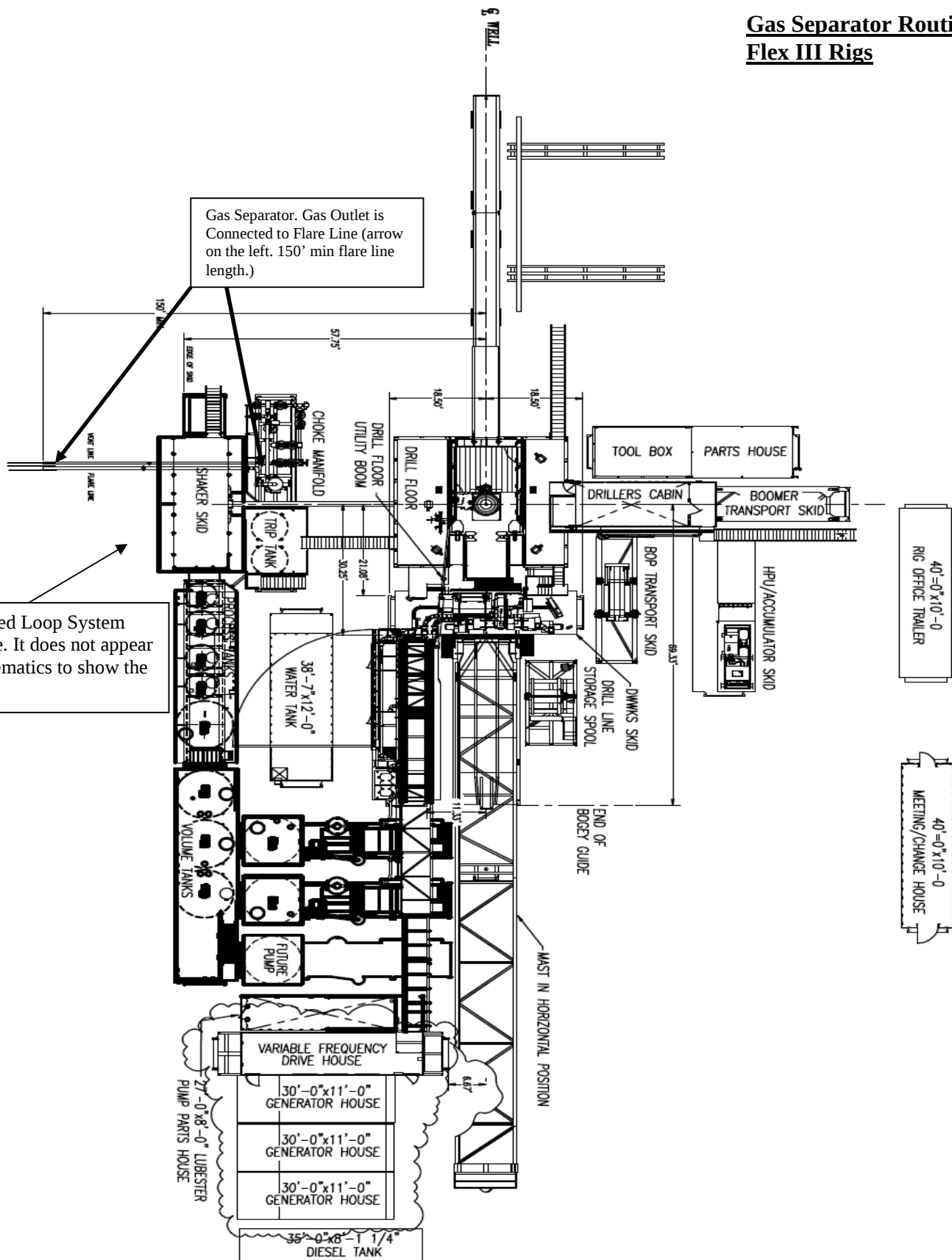
21. Vertical Choke Manifold Valve

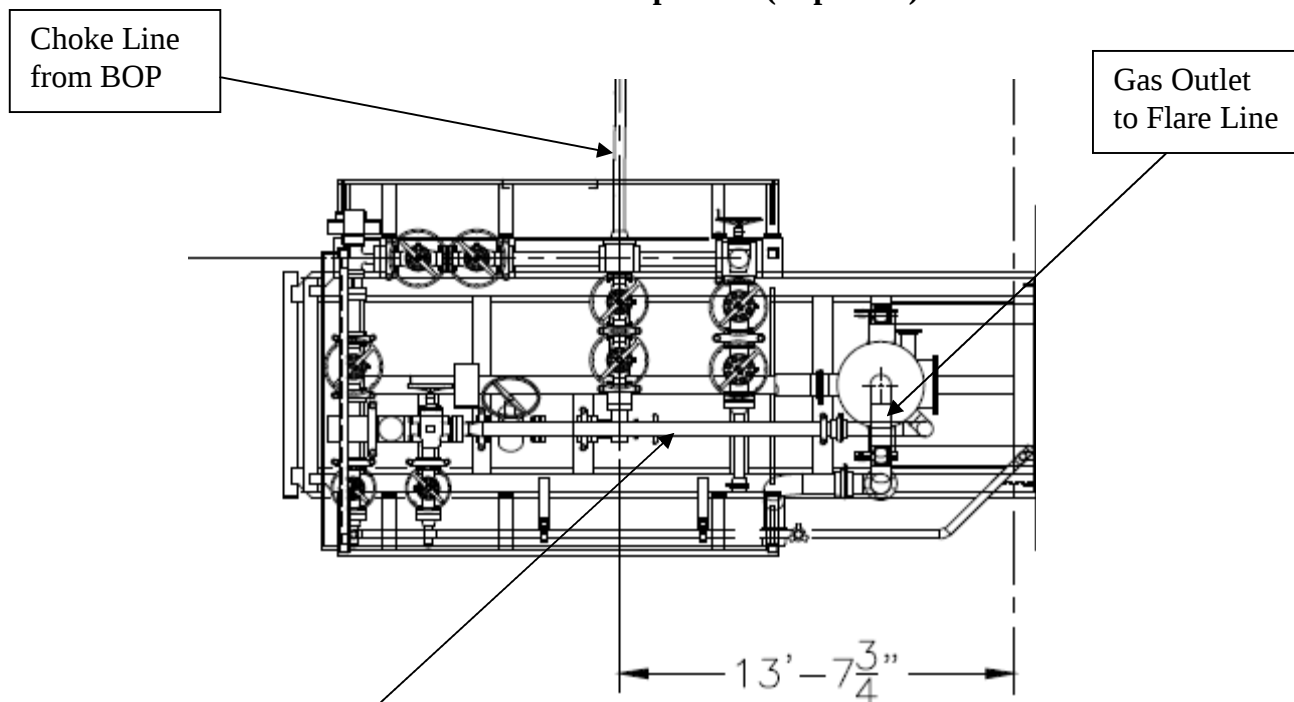
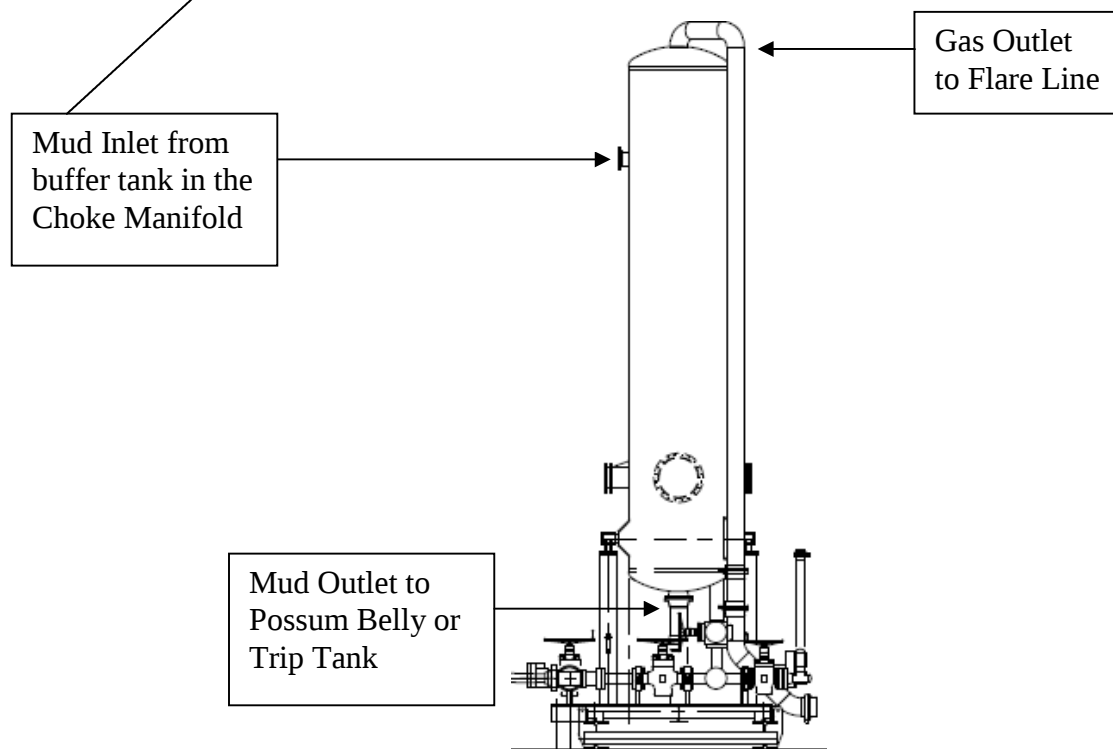
***All Valves 3" minimum**

10M REMOTE
KILL LINE SCHEMATIC

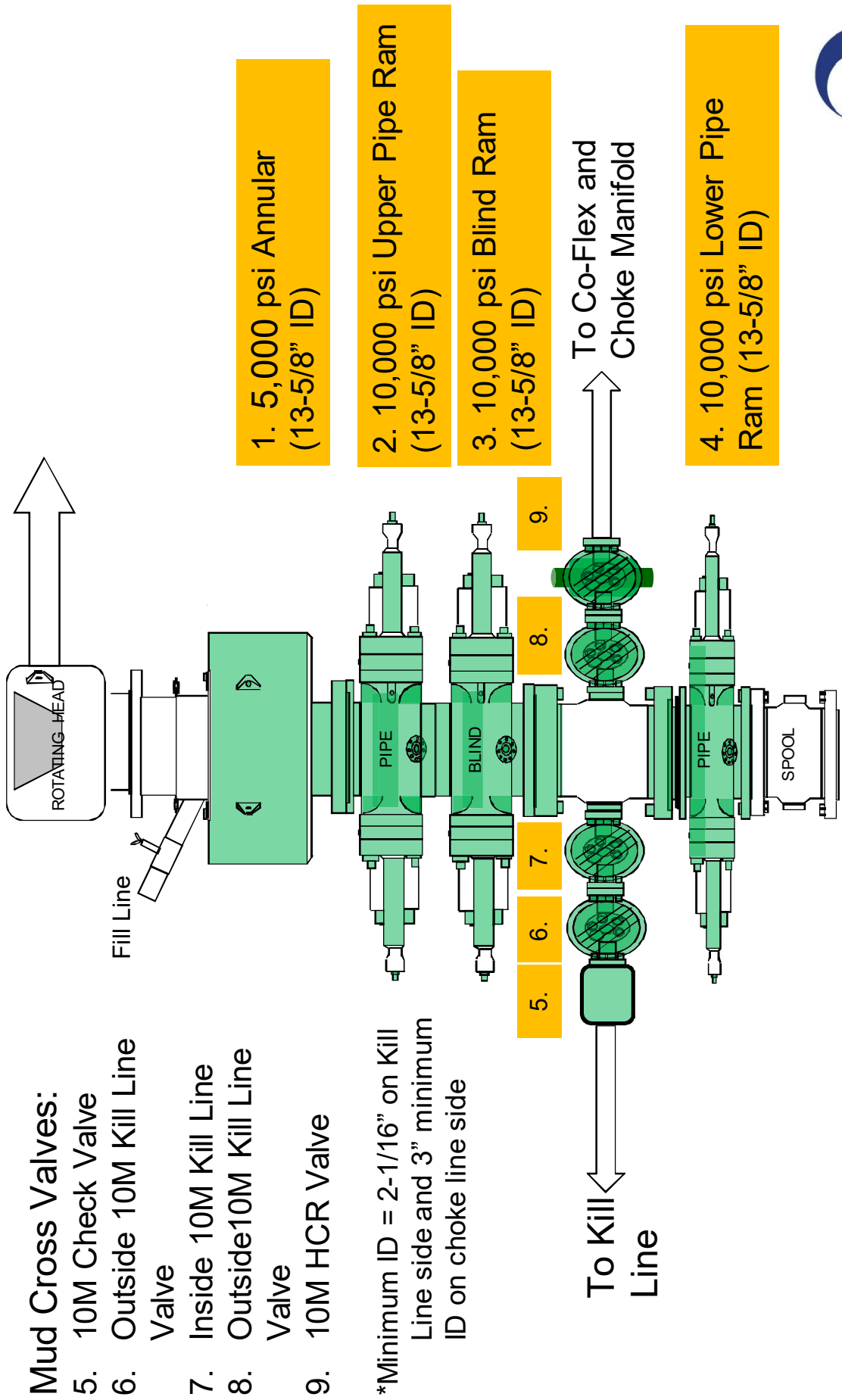


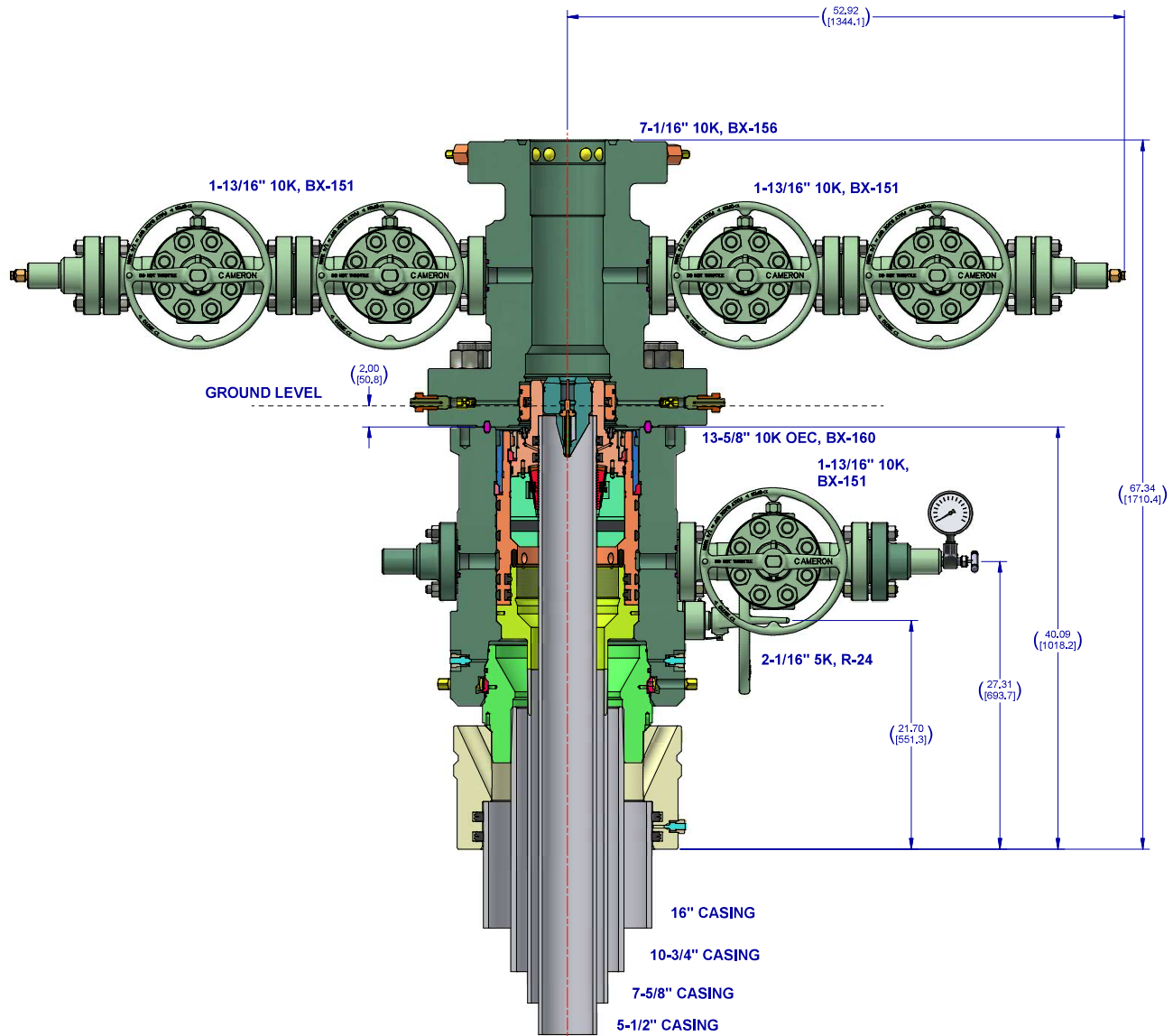
Gas Separator Routing Flex III Rigs



Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**

5/10M BOP Stack



**Notes:**

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

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL						
SURFACE TREATMENT		DO NOT SCALE		 CAMERON A Schlumberger Company	SURFACE SYSTEMS	
DRAWN BY: <u>D. GOTTUNG</u>		DATE: <u>2 Dec 21</u>				
CHECKED BY: <u>D. GOTTUNG</u>		DATE: <u>2 Dec 21</u>		OXY 13-5/8" 10K ADAPT 16" X 10-3/4" X 7-5/8" X 5-1/2"		
APPROVED BY: <u>D. GOTTUNG</u>		DATE: <u>2 Dec 21</u>				
MATERIAL & HEAT TREAT						
ESTIMATED WEIGHT: <u>6515.617 LBS</u> INTERNAL USE ONLY		SHEET <u>4</u> of <u>4</u>		SD-053434-94-05		
REV: <u>01</u>						

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 430126

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 430126
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
melissaguidry	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/10/2025
melissaguidry	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/10/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/28/2025
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.	2/28/2025
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.	2/28/2025