

Application for Permit to Drill

U.S. Department of the Interior Bureau of Land Management

APD Package Report

Date Printed:

APD ID: Well Status:

APD Received Date: Well Name:

Operator: Well Number:

APD Package Report Contents

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- PWD Attachments
 - -- None
- Bond Report
- Bond Attachments
 - -- None

Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-54952 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

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Additional Operator Remarks

Location of Well

0. SHL: SESE / 1252 FSL / 354 FEL / TWSP: 18S / RANGE: 31E / SECTION: 22 / LAT: 32.729201 / LONG: -103.849886 (TVD: 0 feet, MD: 0 feet) PPP: SESE / 660 FSL / 100 FEL / TWSP: 18S / RANGE: 31E / SECTION: 22 / LAT: 32.727576 / LONG: -103.849059 (TVD: 8700 feet, MD: 9005 feet) PPP: SWSW / 662 FSL / 0 FWL / TWSP: 18S / RANGE: 31E / SECTION: 22 / LAT: 32.727548 / LONG: -103.865898 (TVD: 8700 feet, MD: 13687 feet) PPP: SWSE / 661 FSL / 2642 FEL / TWSP: 18S / RANGE: 31E / SECTION: 21 / LAT: 32.727533 / LONG: -103.874487 (TVD: 8700 feet, MD: 16328 feet) BHL: SWSW / 660 FSL / 100 FWL / TWSP: 18S / RANGE: 31E / SECTION: 21 / LAT: 32.727518 / LONG: -103.88275 (TVD: 8700 feet, MD: 18870 feet)

BLM Point of Contact

Name: JANET D ESTES Title: ADJUDICATOR Phone: (575) 234-6233 Email: JESTES@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.



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CENTENNIAL RESOURCE PRODUCTION LLC
WELL NAME & NO.: PINKIE PIE 22-21 FED COM 124H
SURFACE HOLE FOOTAGE: 1252'/S & 354'/E
BOTTOM HOLE FOOTAGE 660'/S & 100'/W
LOCATION: Section 22, T.18 S., R.31 E., NMP
COUNTY: Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately 740 feet per BLM Geologist (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.

- 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 9-5/8 inch intermediate casing shall be set at approximately 4130 feet per BLM Geologist. The minimum required fill of cement behind the 9-5/8 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 or potash.

Casing test must be conducted in accordance with 43 CFR 3170. Surface pressure applied will vary based on fluid in the casing and burst conditions.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of

the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

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c. BOPE tests (minimum of 4 hours)

(575) 361-2822

- Eddy County

 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

 BLM_NM_CFO_DrillingNotifications@BLM.GOV
- ✓ Lea CountyCall 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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 intergrity 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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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:
 - 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
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
 - a. 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).
- b. 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.)
- c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

JS 2/15/2024



NAME: TINLEE VIA

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

Operator Certification Data Report 04/03/2024

Signed on: 08/29/2023

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.

		J
Title: Drilling Engineer		
Street Address: 300 N M	ARIENFELD STREET SUITE 1000	
City: MIDLAND	State: TX	Zip: 79701
Phone: (432)599-5624		
Email address: TINLEE.\	/IA@PERMIANRES.COM	
Field		
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



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

Application Data

APD ID: 10400092402 Submission Date: 05/22/2023

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Well Type: OIL WELL Well Work Type: Drill Highlighted data reflects the most recent changes **Show Final Text**

Section 1 - General

APD ID: 10400092402 Tie to previous NOS? N Submission Date: 05/22/2023

BLM Office: Carlsbad **User:** TINLEE VIA Title: Drilling Engineer

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

Lease number: NMNM014103 Lease Acres:

Allotted? Reservation: Surface access agreement in place?

Agreement in place? NO Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO APD Operator: CENTENNIAL RESOURCE PRODUCTION LLC

Operator letter of

Operator Info

Operator Organization Name: CENTENNIAL RESOURCE PRODUCTION LLC

Operator Address: 300 N MARIENFIELD STREET SUITE 1000

Operator PO Box:

Operator City: MIDLAND State: TX

Operator Phone: (432)695-4222

Operator Internet Address: KANICIA.SCHLICHTING@PERMIANRES.COM

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: PINKIE PIE 22-21 FED COM Well Number: 124H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: AVALON Pool Name: BONE SPRING

EAST

Zip: 79701

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

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

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Number: 1
PINKIE PIE 22 ESE

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: Distance to nearest well: 33 FT Distance to lease line: 354 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: PINKIE_PIE_22_21_FED_COM_124H___FINAL_C_102___04_10_23_20230829155146.pdf

Well work start Date: 05/01/2024 Duration: 18 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 23782 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	DVT	Will this well produce from this
SHL		FSL	354	FEL	18S	31E	22	Aliquot	32.72920		EDD	1	NEW		NMNM	365	0	0	Υ
Leg	2							SESE	1	103.8498 86	Y	MEXI	MEXI CO		014103	5			
#1																			
KOP	718	FSL	117	FEL	18S	31E	22	Aliquot	32.72773		EDD		NEW	F	NMNM	-	823	820	Υ
Leg								SESE	1	103.8491	Υ	MEXI			014103	455	6	6	
#1										25		СО	СО			1			
PPP	660	FSL	100	FEL	18S	31E	22	Aliquot	32.72757	-	EDD	NEW	NEW	F	NMNM	-	900	870	Υ
Leg								SESE	6	103.8490	Υ	1	MEXI		014103	504	5	0	
#1-1										59		СО	СО			5			

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Тwsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP	662	FSL	0	FW	18S	31E	22	Aliquot	32.72754		EDD	NEW		F	NMNM	-	136	870	Υ
Leg			1	╎┖			1	SWS W	8	103.8658 98	Y	MEXI CO	MEXI CO		12212	504 5	87	0	
#1-2		<u> </u>	<u> </u>	'	<u> </u>	<u> </u>	<u> </u>	VV	<u> </u>				1						
PPP	661	FSL	264	FEL	18S	31E	21	Aliquot	32.72753		EDD	1		F	NMNM	-		870	Υ
Leg		1	2					SWSE		103.8744 87	Υ		MEXI CO			504	28	0	
#1-3	1	1	1	1	1	1	1	'	'	87		СО	CO		Α	5			
EXIT	660	FSL	100	FW	18S	31E	21	Aliquot	32.72751		EDD		1454	F	NMNM	-	188	870	Υ
Leg		1 '	1	L	'	'	1	300	8	103.8827	Υ		MEXI		017577	504	70	0	
#1		1	1		1	1		W		5		СО	СО		0	5			
BHL	660	FSL	100	FW	18S	31E	21	Aliquot	32.72751	-	EDD	NEW	NEW	F	NMNM	-	188	870	Υ
Leg		1	1	lr i				sws	8	103.8827	Υ		MEXI		017577	504	70	0	
#1		1 '	1 1	1	1 '	1 '	1 1	W	1 /	5		CO	CO		0	5			

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-54952	² Pool Code 56405	Shugart; Bone Spring, North	
⁴ Property Code 335725	PINK	⁵ Property Name IIE PIE 22-21 FED COM	⁶ Well Number 124H
⁷ OGRID No.	PERMIAN R	⁸ Operator Name ESOURCES OPERATING, LLC	⁹ Elevation 3654.8'

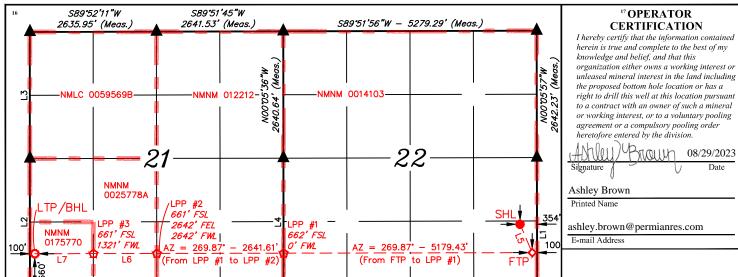
10 Surface Location

III an lat na	Continu	Township	Dance	Lot Idn	Foot from the	Manth/Canth Eng	Foot from the	East/West line	Country
UL or lot no.	Section	Township	Range	Lot Ian	Feet from the	North/South line	Feet from the	East/ west line	County
P	22	18S	31E		1252	SOUTH	354	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no. M	Section 21	1	Township 18S	Range 31E	Lot Idn	Feet	t from the 660	North/South line SOUTH	Feet from the 100	East/West line WEST	County EDDY
12 Dedicated Acr 320.00	es 1	¹³ Joi	nt or Infill	14 Conso	olidation Code		15 Order No.				

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.



S89°50'47"W - 5279.39' (Meas.)

1252'· 660'-

SEC	CTION LINE	TABLE
LINE	DIRECTION	LENGTH
L1	N00°05'16"W	2638.76
L2	N00°05'27"W	2641.07
L3	N00°01'52"E	2638.48
L4	N00°05'29"W	2642.11

S89°54'04"W - 5283.23' (Meas.)

WEL	T ROKE TIME	IABLE
LINE	DIRECTION	LENGTH
L5	AZ = 156.72°	643.75
L6	AZ = 269.87°	1320.80'
L7	AZ = 269.87°	1220.80'

LEGEND:

- = SURFACE HOLE LOCATION.
- = FIRST TAKE POINT.
- = LEASE PENETRATION POINT.
- = LAST TAKE POINT/BOTTOM HOLE LOCATION.
- \triangle = SECTION CORNERS LOCATED.
- = LEASE LINE.



DRAWN BY: N.D.T. 03-27-23

- NOTE:

 Distances referenced on plat to section lines are perpendicular.

 Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (FIRST TAKE POINT)	NAD 83 (LPP #1)
LATITUDE = 32°43'45.12" (32.729201°)	LATITUDE = 32°43'39.27" (32.727576°)	LATITUDE = 32°43'39.17" (32.727548°)
LONGITUDE = -103°50'59.59" (-103.849886°)	LONGITUDE = -103°50'56.61" (-103.849059°)	LONGITUDE = -103°51'57.23" (-103.865898°)
NAD 27 (SURFACE HOLE LOCATION)	NAD 27 (FIRST TAKE POINT)	NAD 27 (LPP #1)
LATITUDE = 32°43'44.69" (32.729082°)	LATITUDE = 32°43'38.84" (32.727456°)	LATITUDE = 32°43'38.74" (32.727429°)
LONGITUDE = -103°50'57.77" (-103.849382°)	LONGITUDE = -103°50'54.80" (-103.848555°)	LONGITUDE = -103°51'55.42" (-103.865394°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 629354.05' E: 690002.96'	N: 628763.93' E: 690259.88'	N: 628730.53' E: 685081.59'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 629290.70' E: 648824.03'	N: 628700.59' E: 649080.94'	N: 628667.23' E: 643902.62'
N. 029290.70 E. 048824.03	N. 028700.39 E. 049080.94	N: 028007.23 E: 043902.02
NAD 83 (LPP #2)	NAD 83 (LPP #3)	N: 028007.23 E: 043902.02 NAD 83 (LTP/BHL)
NAD 83 (LPP #2)	NAD 83 (LPP #3)	NAD 83 (LTP/BHL)
NAD 83 (LPP #2) LATITUDE = 32°43'39.12" (32.727533°)	NAD 83 (LPP #3) LATITUDE = 32°43'39.09" (32.727525°)	NAD 83 (LTP/BHL) LATITUDE = 32°43'39.06" (32.727518°)
NAD 83 (LPP #2) LATITUDE = 32°43'39.12" (32.727533°) LONGITUDE = -103°52'28.15" (-103.874487°)	NAD 83 (LPP #3) LATITUDE = 32°43'39.09" (32.727525°) LONGITUDE = -103°52'43.61" (-103.878781°)	NAD 83 (LTP/BHL) LATITUDE = 32°43'39.06" (32.727518°) LONGITUDE = -103°52'57.90" (-103.882750°)
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18 SURVEYOR

CERTIFICATION

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.

March 22, 2023

Date of Survey Signature and Seal of Professional Surveyor



Released to Imaging: 4/19/2024 2:37:18 PM

Certificate Number



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

Drilling Plan Data Report

04/03/2024

APD ID: 10400092402 **Submission Date:** 05/22/2023

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Well Type: OIL WELL Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13097869	RUSTLER	3654	685	685	SANDSTONE	USEABLE WATER	N
13097870	TOP SALT	2772	882	882	ANHYDRITE, SALT	NONE	N
13097888	TANSILL	1557	2097	2097	ANHYDRITE, SHALE	NATURAL GAS, OIL	N
13097873	YATES	1419	2235	2235	SHALE	NATURAL GAS, OIL	N
13097889	SEVEN RIVERS	924	2730	2730	LIMESTONE	NATURAL GAS, OIL	N
13097890	QUEEN	261	3393	3393	LIMESTONE	NATURAL GAS, OIL	N
13097891	GRAYBURG	-41	3695	3695	LIMESTONE	NATURAL GAS, OIL	N
13097872	CHERRY CANYON	-791	4445	4445	SANDSTONE	NATURAL GAS, OIL	N
13097892	BRUSHY CANYON	-1011	4665	4665	SANDSTONE	NATURAL GAS, OIL	N
13097879	BONE SPRING LIME	-2431	6085	6085	LIMESTONE	NATURAL GAS, OIL	N
13097883	FIRST BONE SPRING SAND	-4131	7785	7785	SANDSTONE, SHALE	NATURAL GAS, OIL	N
13097884	BONE SPRING 2ND	-4681	8335	8335	SANDSTONE	NATURAL GAS, OIL	Y
13097886	BONE SPRING 3RD	-5606	9260	9260	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Pressure Rating (PSI): 5M Rating Depth: 8800

Equipment: BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. 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. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variable bore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

Requesting Variance? YES

Variance request: Flex hose and offline cement variances, see attachments in section 8.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachment:

Pinkie_Pie_5M_Choke_Diagram_20230515124351.pdf

BOP Diagram Attachment:

Pinkie_Pie_5M_BOP_Diagram_20230515124356.pdf

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Pinkie_Pie_5M_Choke_Diagram_20230515124351.pdf

Pinkie_Pie_5M_BOP_Diagram_20230515124356.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	710	0	710	3655	2945	710	J-55	54.5	BUTT	3.22	1.79	DRY	6.55	DRY	6.15
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4615	0	4615	3758	-960	4615	J-55	36	BUTT	2.63	1.58	DRY	2.4	DRY	2.12
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	9005	0	8700	3238	-5045	9005	OTH ER		OTHER - GEOCONN	1.65	1.73	DRY	2.2	DRY	2.2
	PRODUCTI ON	7.87 5	5.5	NEW	API	N	9005	18870	8700	8700	-5045	-5045	9865	OTH ER		OTHER - GEOCONN	1.65	1.73	DRY	2.2	DRY	2.2

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pinkie_Pie_Casing_Design_Assumptions_20230522094419.pdf

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pinkie_Pie_Casing_Design_Assumptions_20230522103249.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pinkie_Pie_Production_Casing_Spec_Sheet_20230522112257.pdf

Pinkie_Pie_Casing_Design_Assumptions_20230522112257.pdf

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Pinkie_Pie_Production_Casing_Spec_Sheet_20230522112318.pdf

Pinkie_Pie_Casing_Design_Assumptions_20230522112318.pdf

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

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	510	380	1.88	12.9	710	100	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
SURFACE	Tail		510	710	560	1.34	14.8	740	50	Class C	Accelerator
INTERMEDIATE	Lead		0	3690	800	2.08	12.7	1660	50	Class C	Salt, Extender & LCM
INTERMEDIATE	Tail		3690	4615	330	1.34	14.8	440	50	Class C	Accelerator
PRODUCTION	Lead		4115	8236	590	2.41	11.5	1420	40	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail		8236	1887 0	1380	1.73	12.5	2380	25	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Lead		4115	8236	590	2.41	11.5	1420	40	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail		8236	1887 0	1380	1.73	12.5	2380	25	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Circulating Medium Table

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	710	WATER-BASED MUD	8.6	9.5							
9005	1887 0	OIL-BASED MUD	9	10							
4615	9005	OTHER : Brine	9	10							
710	4615	SALT SATURATED	10	10							

Section 6 - Test, Logging, Coring

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

Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

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

DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4530 Anticipated Surface Pressure: 2615

Anticipated Bottom Hole Temperature(F): 144

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Contingiency_Plan_Pinkie_Pie_22_21_Fed_Com_113H_114H_123H_124H_133H_134H_20230522082212.pdf

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Pinkie_Pie_22_21_Fed_Com_124H___PWP0_20230522112602.pdf
Pinkie_Pie_22_21_Fed_Com_124H___PWP0___AC_Summary_20230522112602.pdf

Other proposed operations facets description:

Please see attached Drilling plan including multi-bowl diagram and procedure, proposed WBD, and casing connection data sheet. We also plan to batch drill this well along with offline cementing, see details under variance request below. Permian Resources Operating, LLC requests to use a flex hose on H&P choke manifold for this well. The Flex Hose specifications are attached below.

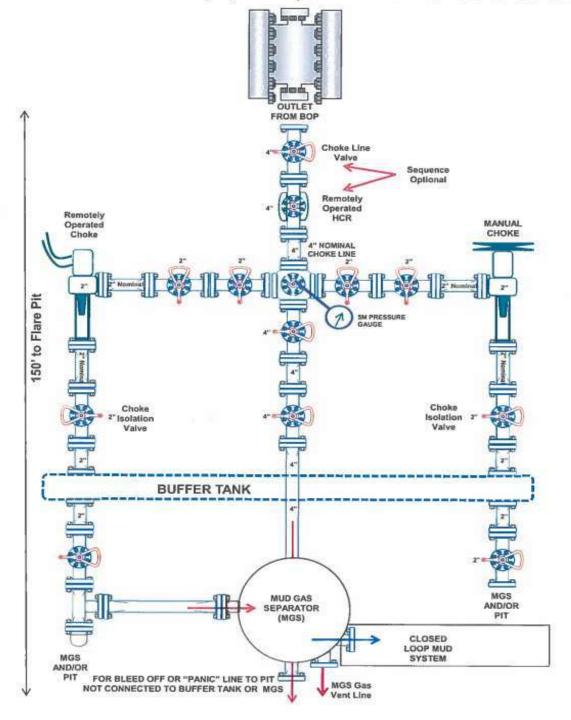
Other proposed operations facets attachment:

Multibowl_Wellhead_Diagram_20230515132758.pdf
Pinkie_Pie_Multiwell_Batch_Drilling_Procedure_20230515132759.pdf
Pinkie_Pie_Production_Casing_Spec_Sheet_20230515132822.pdf
Pinkie_Pie_124H_Proposed_WBD_20230522112637.pdf

Other Variance attachment:

Offline_Cementing_Procedure_20230519095721.pdf
Pinkie_Pie_5M_Choke_Diagram___Flex_Hose_20230519095720.pdf

5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)





CONTITECH RUBBER No:QC-DB- 210/ 2014 Industrial Kft. Page: 9 / 113

	JALITY CON		CATE		CERT.	N's	504	
PURCHASER:	ContiTech	Oil & Marine	Corp.		P.O. Nº	£ 6	4500409659)
CONTITECH PLUBBER ord	er Nº; 538236	HOSE TYPE:	3*	ID.		Choke and	Kill Hose	
HOSE SERIAL Nº:	87255	NOMINAL / A	CTUAL L	INGTH:		10,67 m	/ 10,77 m	
W.P. 68,9 MPa	10000 psi	T.P. 103,4	MPa	1500	00 pel	Duration	60	min
↑ 10 mm = 10	Min.	See attachn	nent. (l page	0			
COUPLINGS	1000	Seri	of N°		ć	lumity	Heat N	P
3" coupling	with	9251	925	4	AIS	81 4130	A0579	N
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WE CERTIFY THAT THE AS INSPECTED AND PRESSUI						H.THE TERMS	OF THE ORDER	
STATEMENT OF CONFOR- conditions and specification accordance with the reference	of the above Purc ed standards, codes	thaser Order and	that these and meet	flemsle the relev	quipment ant accep	were fabricated	inspected and	tested in
20. March 2014.	Inspector		Qualit	y Contro	× Section	Industrial Industrial Quality Contr	Mile Comment	L

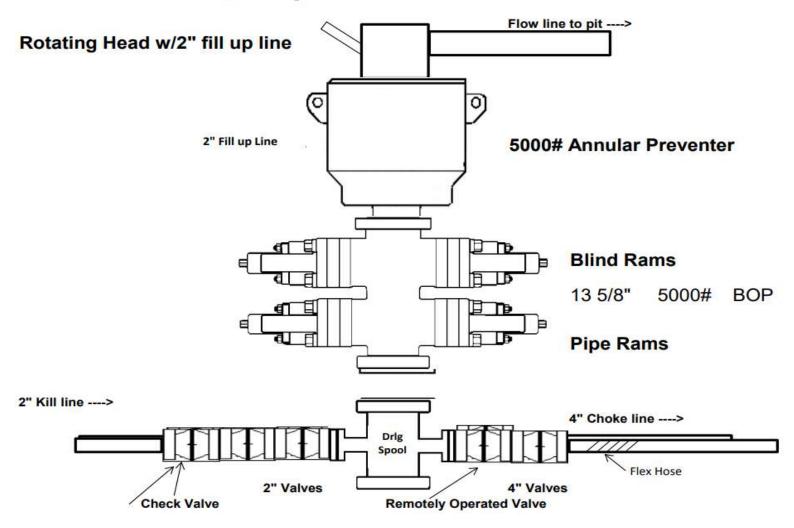
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ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No. 501, 504, 505

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5,000 psi BOP Schematic



Permian Resources Casing Design Criteria

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Surface

- 1) Burst Design Loads
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 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
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- 2) Collapse Loads
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 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
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 - (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
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 - (1) Internal: Full void pipe.
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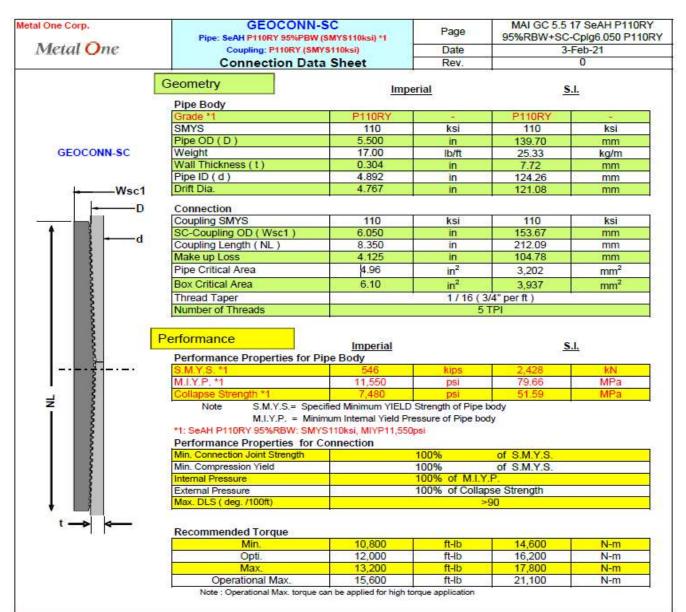
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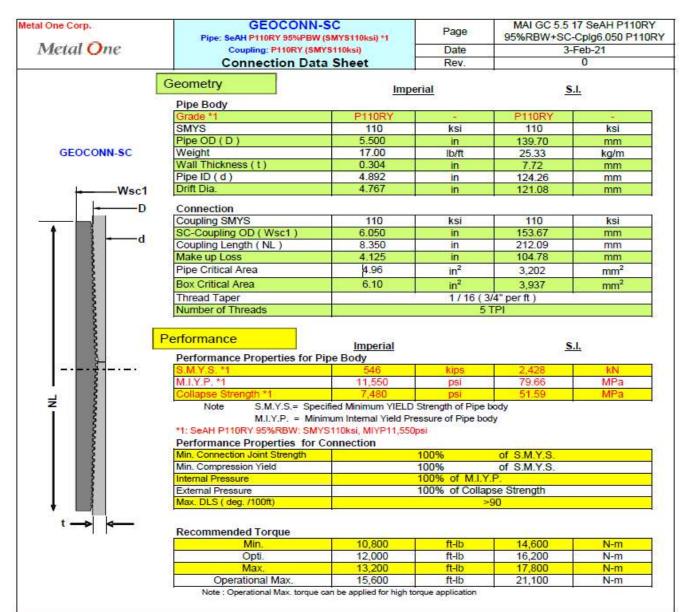
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 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls
 to a depth where the hydrostatic pressure of the mud column equals pore pressure at the
 depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Production

- 1) Burst Design Loads
 - a) Injection Down Casing
 - (1) Internal: Surface pressure plus injection fluid gradient.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test (Drilling)
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - c) Casing Pressure Test (Production)
 - (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - d) Tubing Leak
 - (1) Internal: SITP plus a packer fluid gradient to the top of packer.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
 - b) Full Evacuation
 - (1) Internal: Full void pipe.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

PERMIAN RESOURCES

H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation
Pinkie Pie 22-21 Fed Com 113H, 114H, 123H, 124H, 133H, 134H
Eddy County, New Mexico

04-28-2023
This plan is subject to updating

Permian Resources Corporation H₂S Contingency Plan Eddy County, New Mexico
Pinkie Pie 22-21 Fed Com 113H, 114H,
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Section 1.0 – Introduction

I. Purpose

The purpose of this contingency plan (Plan) is to provide Permian Resources Corporation. (Permian Resources) with an organized plan of action for alerting and protecting Permian Resources employees, the general public, and any potential first responders prior to any intentional release or immediately following the accidental / unintentional release of a potentially hazardous volume / concentration of Hydrogen Sulfide Gas (H2S).

II. Scope & Applicability

This Plan applies to all planned, unplanned, uncontrolled and/or unauthorized releases of hazardous concentrations of H₂S or any associated hazardous byproducts of combustion, occurring at any Permian Resources owned or operated facilities including but not limited to: wells, flowlines, pipelines, tank batteries, production facilities, SWD facilities, compressor stations, gas processing plants, drilling / completions / workover operations, and any other applicable company owned property.

Section 2.0 - Plan Implementation

I. Activation Requirements

In accordance with the requirements of Bureau of Land Management Onshore Order #6 and NMAC 19.15.11, this Plan shall be activated in advance of any authorized, planned, unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of H₂S gas, or SO², which could potentially adversely impact the workers, general public or the environment.

II. Emergency Evacuation

In the event of an unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of H_2S gas, the first priority is to ensure the safety of the workers and general public. Upon discovery and subsequent determination of an applicable release, which cannot be quickly mitigated, immediately by using 911, notify local authorities to begin the process of alerting the general public, evacuate any residents within the Radius of Exposure (ROE), and limit any general public or employee access to any areas within the ROE of the affected facility.

III. Emergency Response Activities

The purpose of emergency response actions is to take steps to quickly mitigate / stop the ongoing release of the hazardous source of H_2S . Upon discovery of any hazardous release, immediately notify Permian Resources management to activate the Emergency Response Team (ERT). Once Permian Resources supervision arrives and assesses the situation, a work plan identifying the proper procedures shall be developed to stop the release.

Section 3.0 - Potential Hazardous Conditions & Response Actions

During a planned or unplanned release of H₂S, there are several hazardous conditions that are presented both to employees, the general public, and emergency responders. These specific hazardous conditions

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are identified in the tables below.

H2S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER	✓
H ₂ S CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH -> WARNING SIGREEN	GN
H ₂ S concentration <10 ppm detected by location monitors	
General Actions During Condition 1	
Notify Site Supervisor / Permian Resources Person-in-Charge (PIC) of any observed increase in ambient H ₂ S concentrations	
All personnel check safety equipment is in adequate working order & store in accessible location	
Sensitize crews with safety meetings.	
Limit visitors and non-essential personnel on location	
Continuously monitor H ₂ S concentrations and check calibration of sensors	
Ensure H ₂ S scavenger is on location.	
H ₂ S CONDITION 2: MODERATE DANGER TO LIFE AND HEALTH → WARNING SIGN YELLOW	
H ₂ S concentration >10 ppm and < 30 ppm in atmosphere detected by location monitors:	
General Actions During Condition 2	
Sound H ₂ S alarm and/or display yellow flag.	
Account for on-site personnel	
Upon sounding of an area or personal H ₂ S monitor alarm when 10 ppm is reached, proceed to a safe briefing area upwind of the location immediately (see MA-4 , Figure 5-1).	
Don proper respiratory protection.	
Alert other affected personnel	
If trained and safe to do so undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation.	
Account for on-site personnel at safe briefing area.	
Stay in safe briefing area if not working to correct the situation.	
Keep Site Supervisor / Permian Resources PIC informed. Notify applicable government agencies (Appendix A) If off-site impact; notify any neighbors within Radius of Exposure (ROE), Fig 5.11	
Continuously monitor H ₂ S until readings below 10 ppm.	
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor.	

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H₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED	
> 30 ppm H ₂ S concentration in air detected by location monitors: Extreme danger to life	
General Actions During Condition 3	
Sound H ₂ S alarm and/or display red flag.	
Account for on-site personnel	
Move away from H ₂ S source and get out of the affected area.	
Proceed to designated safe briefing area; alert other affected personnel.	
Account for personnel at safe briefing area.	
If trained and safe to do so undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation.	_
Notify vehicles or situation and divert all traffic away from location.	
Permian Resources Peron-in-Charge will make appropriate community notifications.	
Red warning flag must be on display until the situation has been corrected and the Permian Resources Person-in-Charge determines it is safe to resume operations under Condition 1.	
Notify management of the condition and action taken. If H ₂ S concentration is increasing and steps to correct the situation are not successful – or at any time if well control is questionable – alert all responsible parties for possible activation of the H ₂ S Contingency Plan. If well control at the surface is lost, determine if situation warrants igniting the well.	
If uncontrolled flow at the surface occurs, the Permian Resources PIC, with approval, if possible, from those coordinating the emergency (as specified in the site-specific H ₂ S Contingency Plan) are responsible for determining if the situation warrants igniting the flow of the uncontrolled well. This decision should be made only as a last resort and in a situation where it is obvious that human life is in danger and there is no hope of controlling the flow under prevailing conditions.	
If the flow is ignited, burning H ₂ S will be converted to sulfur dioxide (SO ₂), which is also highly toxic. Do not assume that area is safe after the flow is ignited. If the well is ignited, evacuation of the area is mandatory, because SO ₂ will remain in low-lying places under no-wind conditions.	
Keep Site Supervisor / Permian Resources PIC informed. Notify applicable government agencies and local law enforcement (Appendix A) If off-site impact; notify any neighbors within the Radius of Exposure (ROE), see example in Figure 5-11.	
Continuously monitor H ₂ S until readings fall below 10 ppm.	
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor.	
IF ABOVE ACTIONS CANNOT BE ACCOMPLISHED IN TIME TO PREVENT EXPOSURE TO THE PUBLIC	

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Alert public (directly or through appropriate government agencies) who may be subject to potentially harmful exposure levels.	
Make recommendations to public officials regarding blocking unauthorized access to the unsafe area and assist as appropriate.	
Make recommendations to public officials regarding evacuating the public and assist as appropriate.	
Monitor ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry.	

Section 4.0 - Notification of H₂S Release Event

I. Local & State Law Enforcement

Prior to the planned / controlled release of a hazardous concentration of H_2S gas or any associated byproducts of the combustion of H_2S gas, notify local law enforcement agencies regarding the contents of this plan.

In the event of the discovery of an unplanned/uncontrolled release of a hazardous concentration of H_2S gas or any associated byproducts of combustion, immediately notify local and/or state law enforcement agencies of the situation and ask for their assistance.

II. General Public

In the event of a planned or unplanned release of a hazardous concentration of H_2S gas or any associated byproducts of combustion, notify local law enforcement agencies and ask for their assistance in alerting the general public and limiting access to any public roads that may be impacted by such a release.

III. New Mexico Oil Conservation Division

The Permian Resources HSE Department will make any applicable notification to the New Mexico OCD regarding any release of a hazardous concentration of H₂S Gas or any associated byproducts of combustion.

IV. New Mexico Environment Department

The Permian Resources HSE Department will make any applicable notifications to the NMED regarding any release of a hazardous concentration of H_2S gas or any associated byproducts of combustion.

V. Bureau of Land Management

The Permian Resources Regulatory Department will make any applicable notifications to the BLM regarding any release of a hazardous concentration of H_2S gas or any associated byproducts of combustion.

Section 5.0 - Emergency Contact List

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EMERGENCY CONTACT LIST				
PERMIAN RESOURCES CORPORATION.				
POSITION	NAME	OFFICE	CELL	ALT PHONE
	Opera	ations		
Operations Superintendent	Rick Lawson		432.530.3188	
TX Operations Superintendent	Josh Graham	432.940.3191	432.940.3191	
NM Operations Superintendent	Manual Mata	432.664.0278	575.408.0216	
Drilling Manager	Jason Fitzgerald	432.315.0146	318.347.3916	
Drilling Engineer	Ronny Hise	432.315.0144	432.770.4786	
Production Manager	Levi Harris	432.219.8568	720.261.4633	
SVP Development Ops	Clayton Smith	720.499.1416	361.215.2494	
SVP Production Ops	Casey McCain	432.695.4239	432.664.6140	
HSE & Regulatory				
H&S Manager	Adam Hicks	720.499.2377	903.426.4556	
Regulatory Manager	Sarah Ferreyros	720.499.1454	720.854.9020	
Environmental Manager	Montgomery Floyd	432-315-0123	432-425-8321	
	inonegomery rioyu	102 323 3223	102 120 0021	
HSE Consultant	Blake Wisdom		918-323-2343	
ı	ocal, State, & F	ederal Agen	cies	
Eddy County Sheriff		575-887-7551		911
New Mexico State Highway Patrol		505-757-2297		911
Carlsbad Fire / EMS		575-885-3125		911
Carlsbad Memorial Hospital		575-887-4100		
Secorp – Safety Contractor	Ricky Stephens		(325)-262-0707	
New Mexico Oil Conservation Division – District 1 Office – Hobbs, NM.		575-393-6161		
New Mexico Environment Department – District III Office – Hobbs, NM		575-397-6910		
New Mexico Oil Conservation Division – Hobbs, NM	24 Hour Emergency	575-393-6161		
Bureau of Land Management – Carlsbad, NM		575-234-5972		
U.S. Fish & Wildlife		502-248-6911		

Section 6.0 – Drilling Location Information

I. Site Safety Information

1. Safe Briefing Area

a. There shall be two areas that will be designated as "SAFE BRIEFING AREAs". If H₂S is detected in concentrations equal to or in excess of 10 ppm all personnel not assigned emergency duties are to assemble in the designated Safe Briefing area for instructions. These two areas shall be positioned in accessible locations to facilitate the availability of self-contained breathing air devices. The briefing areas shall be positioned no less than 250' from the wellhead and in such locations that at least one briefing area will be upwind from the well at all times.

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2. Wind Indicators

a. 4 Windsocks will be installed at strategic points on the facility.

3. <u>Danger Signs</u>

a. A warning sign indicating the possible well conditions will be displayed at the location entrance.

DANGER POISONOUS GAS HYDROGEN SULFIDE DO NOT APPROACH IF AMBER LIGHTS ARE FLASHING

4. H₂S Detectors and Alarms

a. Continuous monitoring type H_2S detectors, capable of sensing a minimum of 5ppm H_2S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO_2 detector will also be located at the combustor. The automatic H_2S alarm/flashing light will be located at the site entrance and in front of tank battery.

5. Safety Trailer

a. A safety trailer equipped with an emergency cascade breathing air system with 2 ea. Work/escape packs, a stretcher, 2 OSHA approved full body harnesses, and a 20# Class ABC fire extinguisher shall be available at the site in close proximity to the safe briefing area. The cascade system shall be able to be deployed to the drill floor when needed to provide safe breathing air to the workers as needed.

6. Well Control Equipment

- a. The location shall have a flare line to a remote automatic ignitor and back up flare gun, placed 150' from the wellhead.
- b. The location shall be equipped with a remotely operated choke system and a mud gas separator.

7. Mud Program

a. Company shall have a mud program that contains sufficient weight and additives to control H_2S .

8. Metallurgy

a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure.

9. Communication

a. The location shall be equipped with a means of effective communication such as a cell phones, intercoms, satellite phones or landlines.

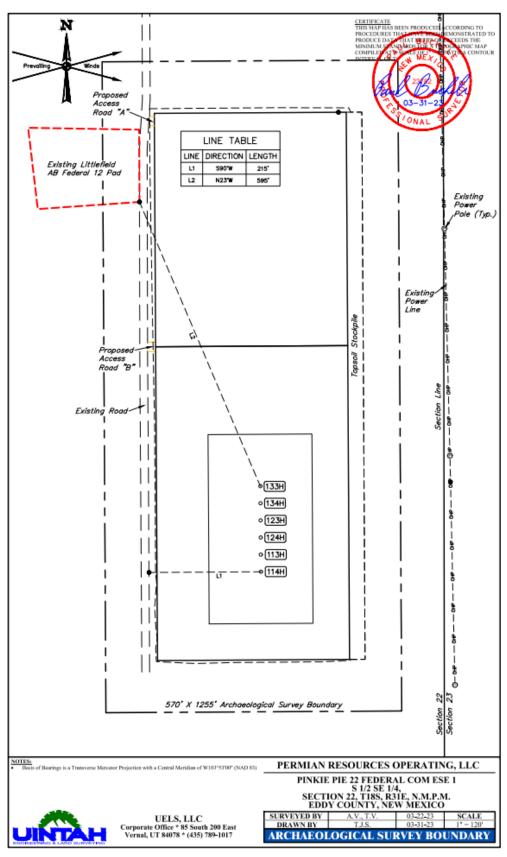
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II. Directions to Location

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 82 AND MALJAMAR ROAD IN MALJAMAR, NEW MEXICO; PROCEED IN A WESTERLY DIRECTION ALONG U.S. HIGHWAY 82 APPROXIMATELY 8.0 MILES TO THE JUNCTION OF THIS ROAD AND SHUGART ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE JUNCTION OF THIS ROAD AND WESTALL ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN AN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 11' TO THE PROPOSED LOCATION. TOTAL DISTANCE FROM MALJAMAR, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 14.7 MILES.

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Plat of Location



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1. Routes of Ingress & Egress (MAP)



2. Residences in proximity to the 3000' Radius of Exposure (ROE) (MAP)

There are no residences or public gathering places with the 3000' ROE, 100 PPM, 300 PPM, or 500 PPM ROE.

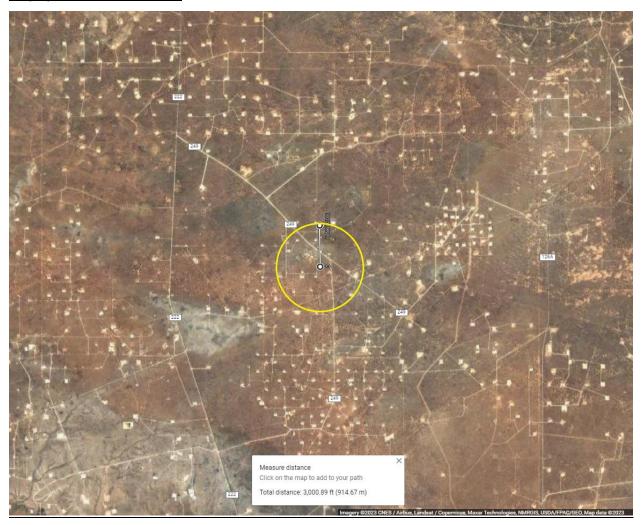
Permian Resources Corporation

H₂S Contingency Plan

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Map of 3000' ROE Perimeter



100 PPM, 300 PPM, & 500 PPM Max ROE under worst case scenario

Enter H₂S in PPM	1500	
Enter Gas flow in mcf/day (maximum worst case conditions)	2500	
500 ppm radius of exposure (public road)	<u>105</u>	feet
300 ppm radius of exposure	<u>146</u>	feet
100 ppm radius of exposure (public area)	<u>230</u>	feet

- Location NAD 83 GPS Coordinates Lat: 32.729110, Long: 103.849885
- 3. Public Roads in proximity of the Radius of Exposure (ROE)

There are no public roads that would be within the 500 PPM ROE. The closest public road is New Mexico

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Highway 249, which is 800' from the location.

Section 7.0 - Hazard Communication

I. Physical Characteristics of Hydrogen Sulfide Gas

Hydrogen sulfide (H₂S) is a colorless, poisonous gas that is soluble in water. It can be present in crude oils, condensates, natural gas and wastewater streams.

 H_2S is heavier than air with a vapor density of 1.189 (air = 1.0); however, H_2S is most often mixed with other gases. These mixtures of H_2S and other gases can be heavier or lighter than air. If the H_2S -containing mixture is heavier, it can collect in low areas such as ditches, ravines, firewalls, and pits; in storage tanks; and in areas of poor ventilation. Please see physical properties in **Table 7.0.**

With H₂S the sense of smell is rapidly lost allowing lethal concentrations to be accumulated without warning. The toxicity of hydrogen sulfide at varying concentrations is indicated in the **Table 7.1.**

Warning: Do not use the mouth-to-mouth method if a victim ingested or inhaled hydrogen sulfide. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Table 7.0. Physical Properties of H₂S

Properties of H2S	Description
Vapor Density > 1 = 1.189 Air = 1	 H2S gas is slightly heavier than air, which can cause it to settle in low places and build in concentration. Produced as a mixture with other gases associated with oil and gas production.
Flammable Range 4.3%-46% 43000 ppm – 460000 ppm	 H2S can be extremely flammable / explosive when these concentrations are reached by volume in air.

Although H_2S is primarily a respiratory hazard, it is also flammable and forms an explosive mixture at concentrations of 4.3%–46.0% (40,000ppm – 460,000 ppm) by volume in air.

H₂S can be encountered when:

- Venting and draining equipment.
- Opening equipment (separators, pumps, and tanks).
- Opening piping connections ("line breaking").
- Gauging and sampling storage tanks.
- Entering confined spaces.
- Working around wastewater pits, skimmers, and treatment facilities.
- II. Human Health Hazards Toxicological Information

Table 7.1. Hazards & Toxicity

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Concentration (ppm)	Symptoms/Effects
0.00011-0.00033 ppm	Typical background concentrations
0.01-1.5 ppm	Odor threshold (when rotten egg smell is first noticeable to some). Odor becomes more offensive at 3-5 ppm. Above 30 ppm, odor described as sweet or sickeningly sweet.
2-5 ppm	Prolonged exposure may cause nausea, tearing of the eyes, headaches or loss of sleep. Airway problems (bronchial constriction) in some asthma patients.
20 ppm	Possible fatigue, loss of appetite, headache, irritability, poor memory, dizziness.
50-100 ppm	Slight conjunctivitis ("gas eye") and respiratory tract irritation after 1 hour. May cause digestive upset and loss of appetite.
100 ppm	Coughing, eye irritation, loss of smell after 2-15 minutes (olfactory fatigue). Altered breathing, drowsiness after 15-30 minutes. Throat irritation after 1 hour. Gradual increase in severity of symptoms over several hours. Death may occur after 48 hours.
100-150 ppm	Loss of smell (olfactory fatigue or paralysis).
200-300 ppm	Marked conjunctivitis and respiratory tract irritation after 1 hour. Pulmonary edema may occur from prolonged exposure.
500-700 ppm	Staggering, collapse in 5 minutes. Serious damage to the eyes in 30 minutes. Death after 30-60 minutes.
700-1000 ppm	Rapid unconsciousness, "knockdown" or immediate collapse within 1 to 2 breaths, breathing stops, death within minutes.
1000-2000 ppm	Nearly instant death

III. Environmental Hazards

 H_2S and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide SO_2 is produced as a constituent of flaring H_2S Gas and can present hazards associated, which are similar to H_2S . Although SO_2 is heavier than air, it will be picked up by a breeze and carried downwind at

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elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas. Please see the attached SDS in Appendix B for reference.

SULFUR DIOXIDE TOXICITY		
Concentration Effects		Effects
%SO ₂	PPM	
0.0005	3 to 5	Pungent odor-normally a person can detect SO₂ in this range.
0.0012	12	Throat irritation, coughing, and constriction of the chest tearing and smarting of eyes.
0.15	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with first breath.

Section 8.0 - Regulatory Information

I. OSHA & NIOSH Information

II. Table 8.0. OSHA & NIOSH H₂S Information

n. Tubic 6.6. 6511A & NICOTT 1125 Information		
PEL, IDLH, TLV	Description	
NIOSH PEL 10 PPM	PEL is the Permissible Exposure Limit that an employee may be exposed up to 8 hr / day.	
OSHA General Industry Ceiling PEL – 20 PPM	The maximum exposure limit, which cannot be exceeded for any length of time.	
IDLH 100 PPM	■ Immediately Dangerous to Life and Health	
Permian Resources PEL 10 PPM	 Permian Resources Policy Regarding H2S for employee safety 	

III. New Mexico OCD & BLM – H₂S Concentration Threshold Requirements

New Mexico NMAC 19.15.11 and Onshore Order #6 identify two Radii of Exposure (ROE) that identify potential danger to the public and require additional compliance measures. Permian Resources is required to install safety devices, establish safety procedures and develop a written H₂S contingency plan for sites where the H₂S concentrations are as follows.

Table 8.1. Calculating H₂S Radius of Exposure

H ₂ S Radius of Exposure	Description	Control and Equipment Requirements
100 ppm	Distance from a release to where the H ₂ S concentration in the air will dilute below 100ppm	ROE > 50-ft and includes any part of a "public area" (residence, school, business, etc., or any area that can be expected to be populated). ROE > 3,000-ft

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500 ppm	Distance from a release to where the H ₂ S concentration in the air will dilute below 500ppm	ROE > 50-ft and includes any part of a public road (public roads are tax supported roads or any road used for public access or use)

Calculating H₂S Radius of Exposure

The ROE of an H_2S release is calculated to determine if a potentially hazardous volume of H_2S gas at 100 or 500 parts per million (ppm) is within a regulated distance requiring further action. If information about the concentration of H_2S and the potential gas release volume is known, the location of the Muster Areas will be set, and safety measures will be implemented based on the calculated radius of exposure (ROE). NMAC 19.15.11 – Hydrogen Sulfide Safety defines the ROE as the radius constructed with the gas's point of escape as its center and its length calculated by the following Pasquill-Gifford equations:

To determine the extent of the **100 ppm ROE**:

 $x = [(1.589) \text{ (mole fraction } H_2S)(Q)]^{(.6258)}.$

To determine the extent of the **500 ppm ROE**:

 $x = [(0.4546) \text{ (mole fraction H}_2S)(Q)]^{(.6258)}.$

Table 8.2. Calculating H2S Radius of Exposure

ROE Variable	Description
X =	ROE in feet
Q =	Max volume of gas released determined to be released in cubic feet per day (ft³/d) normalized to standard temperature and pressure, 60°F and 14.65 psia
Mole fraction H₂S =	Mole fraction of H ₂ S in the gaseous mixture released.

The volume used as the escape rate in determining the ROE is specified in the rule as follows:

- The maximum daily volume rate of gas containing H₂S handled by that system element for which the ROE is calculated.
- For existing gas wells, the current adjusted open-flow rate, or the operator's estimate of the well's capacity to flow against zero back-pressure at the wellhead.

New Mexico Oil Conservation Division & BLM Site Requirements under NMAC 19.15.11 & Onshore Order #6

- Two cleared areas will be designated as Safe Briefing Areas. During an emergency, personnel will assemble in one of these areas for instructions from the Permian Resources Person-in-Charge. Prevailing wind direction should be considered in locating the briefing areas 200' or more on either side of the well head. One area should offset the other at an angle of 45° to 90° with respect to prevailing wind direction to allow for wind shifts during the work period.
- In the event of either an intentional or accidental releases of hydrogen sulfide, safeguards to protect the general public from the harmful effects of hydrogen sulfide must be in place for operations. A summary of the provisions in each of three H₂S ROE cases is included in **Table 8.3**.
 - o **CASE 1** -100 ppm ROE < 50'

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- CASE 2 100 ppm ROE is 50' or greater, but < 3000' and does not penetrate public area.
- CASE 3 -100 ppm ROE is 50' or greater and penetrates a public area or 500 ppm ROE includes a public road. Also if 100 ppm ROE > 3000' regardless of public area.

Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

NMAC 19.15.11 & BLM COMPLIANCE REQUIREMENTS - DRILLING & PRODUCTION				
PROVISION	CASE 1	CASE 2	CASE 3	
H ₂ S Concentration Test	X	X	X	
H-9	X	X	X	
Training	X	X	X	
District Office Notification	X	X	X	
Drill Stem Tests Restricted	X*	X*	X	
BOP Test	X*	X*	X	
Materials		X	X	
Warning and Marker		X	X	
Security		X	X	
Contingency Plan			X	
Control and Equipment Safety			X	
Monitors		X**	X**	
Mud (ph Control or Scavenger)			X*	
Wind Indicators		X**	X	
Protective Breathing Equipment		X**	X	
Choke Manifold, Secondary Remote Control, and Mud-Gas Separator			X	
Flare Stacks			X*	

Section 9.0 - Training Requirements

Training

The following elements are considered a minimum level of training for personnel assigned to operations who may encounter H_2S as part of routine or maintenance work.

- The hazards, characteristics, and properties of hydrogen sulfide (H₂S) and (SO₂).
- Sources of H₂S and SO₂.
- Proper use of H₂S and SO₂ detection methods used at the workplace.
- Recognition of, and proper response to, the warning signals initiated by H₂S and SO₂ detection systems in use at the workplace.
- Symptoms of H₂S exposure; symptoms of SO₂ exposure
- Rescue techniques and first aid to victims of H₂S and SO₂ exposure.
- Proper use and maintenance of breathing equipment for working in H₂S and SO₂ atmospheres, as appropriate theory and hands-on practice, with demonstrated proficiency (29 CFR Part 1910.134).
- Workplace practices and relevant maintenance procedures that have been established to protect personnel from the hazards of H₂S and SO₂.
- Wind direction awareness and routes of egress.

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- Confined space and enclosed facility entry procedures (if applicable).
- Emergency response procedures that have been developed for the facility or operations.
- Locations and use of safety equipment.
- Locations of safe briefing areas.

Refresher training will be conducted annually.

Section 10.0 - Personal Protective Equipment

I. Personal H₂S Monitors

All personnel engaged in planned or unplanned work activity to mitigate the release of a hazardous concentration of H₂S shall have on their person a personal H2S monitor.

- II. Fixed H₂S Detection and Alarms
 - 4 channel H₂S monitor
 - 4 wireless H₂S monitors
 - H₂S alarm system (Audible/Red strobe)
 - Personal gas monitor for each person on location
 - Gas sample tubes

III. Flame Resistant Clothing

All personnel engaged in planned or unplanned work activity associated with this Plan shall have on the appropriate level of FRC clothing.

IV. Respiratory Protection

The following respiratory protection equipment shall be available at each drilling location.

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/rescue units

Supplied air (airline or SCBA) respiratory protection against hydrogen sulfide exposure is required in the following situations:

- When routine or maintenance work tasks involve exposure to H₂S concentrations of 10 ppm or greater.
- When a fixed location area monitor alarms, and re-entry to the work area is required to complete a job.
- When confined spaces are to be entered without knowledge of H₂S levels present, or if initial measurements are to be taken of H₂S levels.
- During rescue of employees suspected of H₂S overexposure.
- For specific tasks identified with significant exposure potential and outlined in local program guidelines.
- All respiratory equipment for hydrogen sulfide must be of the supplied-air type, equipped with pressure-demand regulators and operated in the pressure-demand mode only. This is the only type of respiratory protection recommended for hydrogen sulfide application. Equipment should be approved by NIOSH/MSHA or other recognized national authority as required. If airline units are used, a five-minute egress bottle should also be carried.

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- Gas masks or other air-purifying respirators MUST NEVER BE USED FOR HYDROGEN SULFIDE due to the poor warning properties of the gas.
- Use of respiratory protection should be accompanied by a written respiratory protection program.

Appendix A H₂S SDS

H₂S Contingency Plan **Permian Resources Corporation** Eddy County, New Mexico Pinkie Pie 22-21 Fed Com 113H, 114H, 123H, 124H, 133H, 134H

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SECTION 1: Identification

Product identifi

Product form Substance Name Hydrogen sulfide CAS No : 7783-06-4 Formula H2S Other means of identification : Hydrogen sulfide Product group Core Products

1.2. Recommended use and restrictions on use

Recommended uses and restrictions Industrial use Use as directed

1.3. Supplier

Praxair Canada inc. 1200 – 1 City Centre Drive Mississauga - Canada L5B 1M2 T 1-905-803-1600 - F 1-905-803-1682 www.praxair.ca

1.4. Emergency telephone number

Emergency number

1-800-363-0042 Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.

For routine information, contact your supplier or Praxair sales representative.

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS-CA classification

Flam. Gas 1 Liquefied gas H220 H280 H330 Acute Tox. 2 (Inhalation: gas) STOT SE 3 H335

GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms









Signal word : DANGER

Hazard statements

: EXTREMELY FLAMMABLE GAS
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
FATAL IF INHALED
MAY CAUSE RESPIRATORY IRRITATION

MAY CAUSE RESPIRATORY IRRITATION
MAY FORM EXPLOSIVE MIXTURES WITH AIR
SYMPTOMS MAY BE DELAYED
EXTENDED EXPOSURE TO GAS REDUCES THE ABILITY TO SMELL SULFIDES

Do not handle until all safety precautions have been read and understood Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Precautionary statements

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Do not breathe gas

Use and store only outdoors or in a well-ventilated area

Avoid release to the environment

Wear protective gloves, protective clothing, eye protection, respiratory protection, and/or face

Leaking gas fire: Do not extinguish, unless leak can be stopped safely

In case of leakage, eliminate all ignition sources Store locked up

Dispose of contents/container in accordance with container Supplier/owner instructions

Protect from sunlight when ambient temperature exceeds 52°C (125°F)

Close valve after each use and when empty

Do not open valve until connected to equipment prepared for use

When returning cylinder, install leak tight valve outlet cap or plug

Do not depend on odour to detect the presence of gas

Other hazards

Other hazards not contributing to the classification

: Contact with liquid may cause cold burns/frostbite.

Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

Substances

Name	CAS No.	% (Vol.)	Common Name (synonyms)
Hydrogen sulfide (Main constituent)	(CAS No) 7783-06-4		Hydrogen sulfide (H2S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures after inhalation

- : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
- First-aid measures after skin contact
- The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion

: Ingestion is not considered a potential route of exposure.

Most important symptoms and effects (acute and delayed)

No additional information available

Immediate medical attention and special treatment, if necessary

Other medical advice or treatment

: Obtain medical assistance. Treat with corticosteroid spray as soon as possible after inhalation.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry chemical, Water spray or fog. Use extinguishing media appropriate for surrounding fire

Unsuitable extinguishing media

No additional information available

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Specific hazards arising from the hazardous product

Fire hazard

: EXTREMELY FLAMMABLE GAS. If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.

Explosion hazard : EXTREMELY FLAMMABLE GAS. Forms explosive mixtures with air and oxidizing agents.

Reactivity : No reactivity hazard other than the effects described in sub-sections below. Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions

: DANGER! Toxic, flammable liquefied gas

Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.

Special protective equipment for fire fighters

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

Other information

Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedure

General measures

DANGER! Toxic, flammable liquefied gas . Forms explosive mixtures with air and oxidizing agents. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.

Methods and materials for containment and cleaning up

Methods for cleaning up

: Try to stop release. Reduce vapour with fog or fine water spray. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

Reference to other sections

For further information refer to section 8: Exposure controls/personal protection

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Leak-check system with soapy water; never use a flame

All piped systems and associated equipment must be grounded

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g, NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

SECTION 8: Exposure c	ontrols/personal protection		
8.1. Control parameters			
Hydrogen sulfide (7783-06-4)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm	
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm	
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm	
Canada (Quebec)	VECD (mg/m³)	21 mg/m³	
Canada (Quebec)	VECD (ppm)	15 ppm	
Canada (Quebec)	VEMP (mg/m³)	14 mg/m³	
Canada (Quebec)	VEMP (ppm)	10 ppm	
Alberta	OEL Ceiling (mg/m³)	21 mg/m³	
Alberta	OEL Ceiling (ppm)	15 ppm	
Alberta	OEL TWA (mg/m³)	14 mg/m³	
Alberta	OEL TWA (ppm)	10 ppm	
British Columbia	OEL Ceiling (ppm)	10 ppm	
Manitoba	OEL STEL (ppm)	5 ppm	
Manitoba	OEL TWA (ppm)	1 ppm	
New Brunswick	OEL STEL (mg/m³)	21 mg/m³	
New Brunswick	OEL STEL (ppm)	15 ppm	
New Brunswick	OEL TWA (mg/m³)	14 mg/m³	
New Brunswick	OEL TWA (ppm)	10 ppm	
New Foundland & Labrador	OEL STEL (ppm)	5 ppm	
New Foundland & Labrador	OEL TWA (ppm)	1 ppm	
Nova Scotia	OEL STEL (ppm)	5 ppm	
Nova Scotia	OEL TWA (ppm)	1 ppm	
Nunavut	OEL Ceiling (mg/m³)	28 mg/m³	
Nunavut	OEL Ceiling (ppm)	20 ppm	
Nunavut	OEL STEL (mg/m³)	21 mg/m³	
Nunavut	OEL STEL (ppm)	15 ppm	
Nunavut	OEL TWA (mg/m³)	14 mg/m³	
Nunavut	OEL TWA (ppm)	10 ppm	
Northwest Territories	OEL STEL (ppm)	15 ppm	

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Hydrogen sulfide (7783-06-4)			
Northwest Territories	OEL TWA (ppm)	10 ppm	
Ontario	OEL STEL (ppm)	15 ppm	
Ontario	OEL TWA (ppm)	10 ppm	
Prince Edward Island	OEL STEL (ppm)	5 ppm	
Prince Edward Island	OEL TWA (ppm)	1 ppm	
Québec	VECD (mg/m³)	21 mg/m³	
Québec	VECD (ppm)	15 ppm	
Québec	VEMP (mg/m³)	14 mg/m³	
Québec	VEMP (ppm)	10 ppm	
Saskatchewan	OEL STEL (ppm)	15 ppm	
Saskatchewan	OEL TWA (ppm)	10 ppm	
Yukon	OEL STEL (mg/m³)	27 mg/m³	
Yukon	OEL STEL (ppm)	15 ppm	
Yukon	OEL TWA (mg/m³)	15 mg/m³	
Yukon	OEL TWA (ppm)	10 ppm	

8.2. Appropriate engineering controls

Appropriate engineering controls

: Use corrosion-resistant equipment. Use an explosion-proof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): Inadequate - Use only in a closed system. Use explosion proof equipment and lighting.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment

: Safety glasses. Face shield. Gloves.







Hand protection : Wear work gloves when handling containers. Wear heavy rubber gloves where contact with product may occur.

Eye protection : Wear goggles and a face shield when transfilling or breaking transfer connections. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and

any provincial regulations, local bylaws or guidelines.

Respiratory protection: : Respiratory protection: Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators."

based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves.

Other protections Cofete at

Other information : Other protection: Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of

flame resistant anti-static safety clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Gas

Appearance : Colorless gas. Colorless liquid at low temperature or under high pressure.

Molecular mass : 34 g/mol
Colour : Colourless.

Odour : Odour can persist. Poor warning properties at low concentrations. Rotten eggs.

Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.

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рΗ : Not applicable. pH solution : No data available : No data available Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) : Not applicable. Melting point : -86 °C : -82.9 °C Freezing point : -60.3 °C Boiling point Flash point : Not applicable. Critical temperature : 100.4 °C : 260 °C Auto-ignition temperature Decomposition temperature : No data available Vapour pressure : 1880 kPa

Vapour pressure at 50 °C : No data available : 8940 kPa Critical pressure Relative vapour density at 20 °C : >=

Relative density : No data available

Relative density of saturated gas/air mixture : No data available Density : No data available

Relative gas density : 1.2

Solubility : Water: 3980 mg/l : Not applicable. Log Pow : Not applicable. Log Kow Viscosity, kinematic : Not applicable. Viscosity, dynamic : Not applicable. Viscosity, kinematic (calculated value) (40 °C) : No data available : Not applicable. Explosive properties

Oxidizing properties : None.

Flammability (solid, gas)

4.3 - 46 vol %

Other information

: Liquefied gas Gas group

Additional information : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

SECTION 10: Stability and reactivity

10.1.

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : May react violently with oxidants. Can form explosive mixture with air.

Conditions to avoid : Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

: Ammonia. Bases. Bromine pentafluoride. Chlorine trifluoride. chromium trioxide. (and heat). Incompatible materials Copper, (powdered), Fluorine, Lead, Lead oxide, Mercury, Nitric acid, Nitrogen trifluoride

nitrogen sulfide. Organic compounds. Oxidizing agents. Oxygen difluoride. Rubber. Sodium. (and moisture). Water

Hazardous decomposition products : Thermal decomposition may produce : Sulfur. Hydrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) : Inhalation:gas: FATAL IF INHALED.

Hydrogen sulfide (\f)7783-06-4		
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)	
LC50 inhalation rat (ppm)	356 ppm/4h	
ATE CA (gases)	356.00000000 ppmv/4h	
ATE CA (vapours)	0.99000000 mg/l/4h	
ATE CA (dust,mist)	0.99000000 mg/l/4h	

Skin corrosion/irritation : Not classified

pH: Not applicable.

Not classified
pH: Not applicable.

Not classified

Not classified

Not classified

Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : MAY CAUSE RESPIRATORY IRRITATION.

Specific target organ toxicity (repeated

Serious eye damage/irritation

Germ cell mutagenicity
Carcinogenicity

Respiratory or skin sensitization

exposure)

: Not classified

Aspiration hazard : Not classified

SECTION 12:	Ecolo	vaioal ir	aformation
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12.1. Toxicity

Ecology - general : VERY TOXIC TO AQUATIC LIFE.

Hydrogen sulfide (7783-06-4)		
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])	
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	

12.2. Persistence and degradability

Hydrogen sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.

12.3. Bioaccumulative potential

Hydrogen sulfide (7783-06-4)		
BCF fish 1	(no bioaccumulation expected)	
Log Pow	Not applicable.	
Log Kow	Not applicable.	
Bioaccumulative potential	No data available.	

12.4. Mobility in soil

Hydrogen sulfide (7783-06-4)		
Mobility in soil	No data available.	
Log Pow	Not applicable.	
Log Kow	Not applicable.	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	

12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on the ozone layer : None

Effect on global warming : No known effects from this product

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EN (English) SDS ID : E-4611 7/9

Permian Resources Corporation H₂S Contingency Plan Eddy County, New Mexico Pinkie Pie 22-21 Fed Com 113H, 114H, 123H, 124H, 133H, 134H



Hydrogen sulfide

Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

SECTION 13: Disposal considerations

Disposal methods

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information

Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN1053

TDG Primary Hazard Classes : 2.3 - Class 2.3 - Toxic Gas.

: 2.1 TDG Subsidiary Classes

: HYDROGEN SULPHIDE Proper shipping name

ERAP Index : 500 Explosive Limit and Limited Quantity Index : 0 Passenger Carrying Ship Index : Forbidden Passenger Carrying Road Vehicle or Passenger : Forbidden

Carrying Railway Vehicle Index

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1053

Proper Shipping Name (IMDG) : HYDROGEN SULPHIDE

Class (IMDG) : 2 - Gases MFAG-No : 117

UN-No. (IATA) : 1053 Proper Shipping Name (IATA) : Hydrogen sulphide

Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Hydrogen sulfide (7783-06-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican national Inventory of Chemical Substances)

SECTION 16: Other information Date of issue

: 15/10/1979 Revision date : 10/08/2016 Supersedes : 15/10/2013

Indication of changes:

Training advice : Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.

Ensure operators understand the flammability hazard.

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EN (English) SDS ID : E-4611 8/9 Permian Resources Corporation H₂S Contingency Plan Eddy County, New Mexico Pinkie Pie 22-21 Fed Com 113H, 114H, 123H, 124H, 133H, 134H

PRAXAIR Safety Data Sheet E-4611

Hydrogen sulfide

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety

The opinions expressed herein are those of qualified experts within Praxair Canada Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair Canada Inc. it is the user's obligation to determine the conditions of safe use of the product. Praxair Canada Inc, SDSs are furnished on sale or delivery by Praxair Canada Inc, or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.ca. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write Praxair Canada Inc, (Phone: 1-888-257-5149; Address: Praxair Canada Inc, 1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2).

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NFPA health hazard

: 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was

NFPA fire hazard

: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn

readily.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Flammability

Physical

: 2 Moderate Hazard - Temporary or minor injury may occur

: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

SDS Canada (GHS) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Permian Resources Corporation	H₂S Contingency Plan	Eddy County, New Mexico
	Pinkie Pie 22-21 Fed Com 113H, 114H,	
	123H, 124H, 133H, 134H	

Appendix B SO₂SDS



Safety Data Sheet

Material Name: SULFUR DIOXIDE **SDS ID: MAT22290**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SULFUR DIOXIDE

Synonyms

MTG MSDS 80; SULFUROUS ACID ANHYDRIDE; SULFUROUS OXIDE; SULPHUR DIOXIDE; SULFUROUS ANHYDRIDE; FERMENTICIDE LIQUID; SULFUR DIOXIDE(SO2); SULFUR OXIDE; SULFUR OXIDE(SO2)

Chemical Family

inorganic, gas

Product Description

Classification determined in accordance with Compressed Gas Association standards.

Product Use

Industrial and Specialty Gas Applications.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

MATHESON TRI-GAS, INC.

3 Mountainview Road

Warren, NJ 07059

General Information: 1-800-416-2505 Emergency #: 1-800-424-9300 (CHEMTREC) Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Gases Under Pressure - Liquefied gas

Acute Toxicity - Inhalation - Gas - Category 3

Skin Corrosion/Irritation - Category 1B

Serious Eye Damage/Eye Irritation - Category 1

Simple Asphyxiant

GHS Label Elements









Signal Word

Danger

Hazard Statement(s)

Contains gas under pressure; may explode if heated.

Toxic if inhaled.

Causes severe skin burns and eye damage.

May displace oxygen and cause rapid suffocation.

Precautionary Statement(s)

Prevention

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

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Permian Resources Corporation	H₂S Contingency Plan	Eddy County, New Mexico
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	123Н, 124Н, 133Н, 134Н	



Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290

Wash thoroughly after handling. Do not breathe dusts or mists.

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

Contact with liquified gas may cause frostbite.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS		
CAS	Component Name	Percent
7446-09-5	Sulfur dioxide	100.0
Section 4 - FIRST AID MEASURES		

Inhalation

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention.

Skin

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). If warm water is not available, gently wrap affected parts in blankets. DO NOT induce vomiting. Get immediate medical attention.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical attention.

Most Important Symptoms/Effects

Acute

Toxic if inhaled, frostbite, suffocation, respiratory tract burns, skin burns, eye burns

Delayed

No information on significant adverse effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Note to Physicians

For inhalation, consider oxygen.

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Permian Resources Corporation	H ₂ S Contingency Plan	Eddy County, New Mexico
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	123H, 124H, 133H, 134H	



Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

carbon dioxide, regular dry chemical, Large fires: Use regular foam or flood with fine water spray.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire hazard.

Hazardous Combustion Products

sulfur oxides

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water directly on material.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin, or on clothing. Do not breathe gas, fumes, vapor, or spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Keep only in original container. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight.

Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Keep separated from incompatible substances.

Incompatible Materials

bases, combustible materials, halogens, metal carbide, metal oxides, metals, oxidizing materials, peroxides, reducing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits	
Sulfur dioxide	7446-09-5
ACGIH:	0.25 ppm STEL

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Material Name: SULFUR DIOXIDE

NIOSH:	2 ppm TWA; 5 mg/m3 TWA
	5 ppm STEL; 13 mg/m3 STEL
	100 ppm IDLH
OSHA (US):	5 ppm TWA; 13 mg/m3 TWA
Mexico:	0.25 ppm STEL [PPT-CT]

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. Wear chemical resistant clothing to prevent skin contact.

Respiratory Protection

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	colorless gas	Physical State	gas
Odor	irritating odor	Color	colorless
Odor Threshold	3 - 5 ppm	рН	(Acidic in solution)
Melting Point	-73 °C (-99 °F)	Boiling Point	-10 °C (14 °F)
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	>1 (Butyl acetate = 1)	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	(Not flammable)
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	2432 mmHg @ 20 °C
Vapor Density (air=1)	2.26	Specific Gravity (water=1)	1.462 at -10 °C

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Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290

Water Solubility	22.8 % (@ 0 °C)	Partition coefficient: n- octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	Not available
Physical Form	liquified gas	Molecular Formula	S-O2
Molecular Weight	64.06		

Solvent Solubility

Soluble

alcohol, acetic acid, sulfuric acid, ether, chloroform, Benzene, sulfuryl chloride, nitrobenzenes, Toluene, acetone

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Minimize contact with material. Containers may rupture or explode if exposed to heat.

Incompatible Materials

bases, combustible materials, halogens, metal carbide, metal oxides, metals, oxidizing materials, peroxides, reducing agents

Hazardous decomposition products

oxides of sulfur

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Toxic if inhaled. Causes damage to respiratory system, burns, difficulty breathing

Skin Contact

skin burns

Eye Contact

eye burns

Ingestion

burns, nausea, vomiting, diarrhea, stomach pain

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Sulfur dioxide (7446-09-5)

Inhalation LC50 Rat 965 - 1168 ppm 4 h

Product Toxicity Data

Acute Toxicity Estimate

No data available.

Immediate Effects

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	123H, 124H, 133H, 134H	



Safety Data Sheet

Material Name: SULFUR DIOXIDE

Toxic if inhaled, frostbite, suffocation, respiratory tract burns, skin burns, eye burns

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

respiratory tract burns, skin burns, eye burns

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Sulfur dioxide	7446-09-5	
ACGIH:	A4 - Not Classifiable as a Human Carcinogen	
IARC:	Monograph 54 [1992] (Group 3 (not classifiable))	

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

Not applicable.

Medical Conditions Aggravated by Exposure

respiratory disorders

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: SULFUR DIOXIDE

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Permian Resources Corporation	H₂S Contingency Plan	Eddy County, New Mexico
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	123H, 124H, 133H, 134H	



Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290

Hazard Class: 2.3 UN/NA #: UN1079 Required Label(s): 2.3

IMDG Information:

Shipping Name: SULPHUR DIOXIDE

Hazard Class: 2.3 UN#: UN1079 Required Label(s): 2.3

TDG Information:

Shipping Name: SULFUR DIOXIDE

Hazard Class: 2.3 UN#: UN1079 Required Label(s): 2.3

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Sulfur dioxide	7446-09-5				
SARA 302:	500 lb TPQ				
OSHA (safety):	1000 lb TQ (Liquid)				
SARA 304:	500 lb EPCRA RQ				

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Gas Under Pressure; Acute toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Simple Asphyxiant

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Sulfur dioxide	7446-09-5	Yes	Yes	Yes	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)



This product can expose you to chemicals including Sulfur dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290

Sulfur dioxide	7446-09-5
Repro/Dev. Tox	developmental toxicity, 7/29/2011

Component Analysis - Inventory

Sulfur dioxide (7446-09-5)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 3 Fire: 0 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes SDS update: 02/10/2016

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA -Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH -Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP -National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA -Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit;

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NEW MEXICO

(SP) EDDY
PINKIE PIE 22-21 FED COM
PINKIE PIE 22-21 FED COM 124H

OWB

Plan: PWP0

Standard Planning Report - Geographic

09 May, 2023



Planning Report - Geographic

Database: Compass
Company: NEW MEXICO
Project: (SP) EDDY

Site: PINKIE PIE 22-21 FED COM
Well: PINKIE PIE 22-21 FED COM 124H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

Grid

Minimum Curvature

Project (SP) EDDY

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site PINKIE PIE 22-21 FED COM

632,247.27 usft Northing: Site Position: Latitude: 32° 44' 13.764 N 689,740.60 usft 103° 51' 2.507 W Мар Easting: From: Longitude: Position Uncertainty: Slot Radius: 13-3/16 " 0.26 0.0 usft **Grid Convergence:**

Well PINKIE PIE 22-21 FED COM 124H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 629,354.05 usft
 Latitude:
 32° 43' 45.124 N

 +E/-W
 0.0 usft
 Easting:
 690,002.96 usft
 Longitude:
 103° 50' 59.590 W

 Position Uncertainty
 0.0 usft
 Wellhead Elevation:
 Ground Level:
 3,654.8 usft

OWB Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 60.66 49,064.73138421 IGRF200510 12/31/2009 7.92

PWP0 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 266.28

Plan Survey Tool Program Date 5/9/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

0.0 18,869.6 PWP0 (OWB) MWD+IFR1+MS

OWSG_Rev2_ MWD + IFR1 +

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,800.0	6.00	156.10	2,799.5	-14.3	6.4	2.00	2.00	0.00	156.10	
8,236.0	6.00	156.10	8,205.7	-533.8	236.6	0.00	0.00	0.00	0.00	
9,005.2	90.00	268.60	8,700.0	-593.5	-239.3	12.00	10.92	14.62	112.39	
9,056.9	90.00	269.63	8,700.0	-594.3	-291.0	2.00	0.00	2.00	90.00	
18,869.6	90.00	269.63	8,700.0	-656.9	-10,103.4	0.00	0.00	0.00	0.00	PINKIE PIE 22-21 FE



Planning Report - Geographic

Database: Compass

 Company:
 NEW MEXICO

 Project:
 (SP) EDDY

 Site:
 PINKIE PIE 22-21 FED COM

Well: PINKIE PIE 22-21 FED COM 124H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

Grid

Design:	FVVF								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
100.0	0.00	0.00	100.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
200.0	0.00	0.00	200.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
300.0	0.00	0.00	300.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
400.0	0.00	0.00	400.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
500.0	0.00	0.00	500.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
600.0	0.00	0.00	600.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
700.0	0.00	0.00	700.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
800.0	0.00	0.00	800.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
900.0	0.00	0.00	900.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	629,354.05	690,002.96	32° 43' 45.124 N	103° 50' 59.590 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	629,354.05	690,002.96	32° 43′ 45.124 N	103° 50' 59.590 W
2,600.0	2.00	156.10	2,600.0	-1.6	0.7	629,352.46	690,003.66	32° 43′ 45.108 N	103° 50' 59.581 W
2,700.0	4.00	156.10	2,699.8	-6.4	2.8	629,347.67	690,005.78	32° 43′ 45.061 N	103° 50' 59.557 W
2,800.0	6.00	156.10	2,799.5	-14.3	6.4	629,339.71	690,009.31	32° 43′ 44.982 N	103° 50' 59.516 W
2,900.0	6.00	156.10	2,898.9	-23.9	10.6	629,330.15	690,013.55	32° 43' 44.887 N	103° 50' 59.467 W
3,000.0	6.00	156.10	2,998.4	-33.5	14.8	629,320.59	690,017.78	32° 43' 44.792 N	103° 50' 59.418 W
3,100.0	6.00	156.10	3,097.8	-43.0	19.1	629,311.04	690,022.02	32° 43' 44.697 N	103° 50' 59.369 W
3,200.0	6.00	156.10	3,197.3	-52.6	23.3	629,301.48	690,026.25	32° 43' 44.603 N	103° 50' 59.320 W
3,300.0	6.00	156.10	3,296.7	-62.1	27.5	629,291.92	690,030.49	32° 43' 44.508 N	103° 50' 59.271 W
3,400.0	6.00	156.10	3,396.2	-71.7	31.8	629,282.37	690,034.72	32° 43' 44.413 N	103° 50' 59.222 W
3,500.0	6.00	156.10	3,495.6	-81.2	36.0	629,272.81	690,038.96	32° 43' 44.318 N	103° 50' 59.173 W
3,600.0	6.00	156.10	3,595.1	-90.8	40.2	629,263.25	690,043.19	32° 43' 44.224 N	103° 50' 59.123 W
3,700.0	6.00	156.10	3,694.5	-100.4	44.5	629,253.70	690,047.43	32° 43' 44.129 N	103° 50' 59.074 W
3,800.0	6.00	156.10	3,794.0	-109.9	48.7	629,244.14	690,051.66	32° 43' 44.034 N	103° 50' 59.025 W
3,900.0	6.00	156.10	3,893.4	-119.5	52.9	629,234.58	690,055.90	32° 43' 43.939 N	103° 50' 58.976 W
4,000.0	6.00	156.10	3,992.9	-129.0	57.2	629,225.03	690,060.13	32° 43' 43.845 N	103° 50' 58.927 W
4,100.0	6.00	156.10	4,092.3	-138.6	61.4	629,215.47	690,064.37	32° 43' 43.750 N	103° 50' 58.878 W
4,200.0	6.00	156.10	4,191.8	-148.1	65.6	629,205.91	690,068.60	32° 43' 43.655 N	103° 50' 58.829 W
4,300.0	6.00	156.10	4,291.2	-157.7	69.9	629,196.36	690,072.84	32° 43' 43.560 N	103° 50' 58.780 W
4,400.0	6.00	156.10	4,390.7	-167.3	74.1	629,186.80	690,077.07	32° 43' 43.466 N	103° 50' 58.731 W
4,500.0	6.00	156.10	4,490.1	-176.8	78.4	629,177.24	690,081.31	32° 43' 43.371 N	103° 50' 58.682 W
4,600.0	6.00	156.10	4,589.6	-186.4	82.6	629,167.69	690,085.54	32° 43' 43.276 N	103° 50' 58.633 W
4,700.0	6.00	156.10	4,689.0	-195.9	86.8	629,158.13	690,089.78	32° 43' 43.181 N	103° 50' 58.584 W
4,800.0	6.00	156.10	4,788.5	-205.5	91.1	629,148.57	690,094.01	32° 43' 43.087 N	103° 50' 58.535 W
4,900.0	6.00	156.10	4,887.9	-215.0	95.3	629,139.02	690,098.25	32° 43' 42.992 N	103° 50' 58.486 W
5,000.0	6.00	156.10	4,987.4	-224.6	99.5	629,129.46	690,102.48	32° 43′ 42.897 N	103° 50' 58.437 W
5,100.0	6.00	156.10	5,086.9	-234.1	103.8	629,119.91	690,106.72	32° 43' 42.802 N	103° 50' 58.387 W
5,200.0	6.00	156.10	5,186.3	-243.7	108.0	629,110.35	690,110.95	32° 43' 42.708 N	103° 50' 58.338 W
5,300.0	6.00	156.10	5,285.8	-253.3	112.2	629,100.79	690,115.19	32° 43' 42.613 N	103° 50' 58.289 W
5,400.0	6.00	156.10	5,385.2	-262.8	116.5	629,091.24	690,119.42	32° 43' 42.518 N	103° 50' 58.240 W



Planning Report - Geographic

Database: Compass

Company: NEW MEXICO Project: (SP) EDDY

Site: PINKIE PIE 22-21 FED COM
Well: PINKIE PIE 22-21 FED COM 124H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

Grid

Design:	PWP								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,500.0	6.00	156.10	5,484.7	-272.4	120.7	629,081.68	690,123.66	32° 43′ 42.423 N	103° 50' 58.191 W
5,600.0	6.00	156.10	5,584.1	-281.9	124.9	629,072.12	690,127.89	32° 43′ 42.329 N	103° 50' 58.142 W
5,700.0	6.00	156.10	5,683.6	-291.5	129.2	629,062.57	690,132.13	32° 43′ 42.234 N	103° 50' 58.093 W
5,800.0	6.00	156.10	5,783.0	-301.0	133.4	629,053.01	690,136.36	32° 43' 42.139 N	103° 50' 58.044 W
5,900.0	6.00	156.10	5,882.5	-310.6	137.6	629,043.45	690,140.59	32° 43' 42.044 N	103° 50' 57.995 W
6,000.0	6.00	156.10	5,981.9	-320.2	141.9	629,033.90	690,144.83	32° 43' 41.950 N	103° 50' 57.946 W
6,100.0	6.00	156.10	6,081.4	-329.7	146.1	629,024.34	690,149.06	32° 43' 41.855 N	103° 50' 57.897 W
6,200.0	6.00	156.10	6,180.8	-339.3	150.3	629,014.78	690,153.30	32° 43' 41.760 N	103° 50' 57.848 W
6,300.0	6.00	156.10	6,280.3	-348.8	154.6	629,005.23	690,157.53	32° 43' 41.665 N	103° 50' 57.799 W
6,400.0	6.00	156.10	6,379.7	-358.4 -367.9	158.8	628,995.67	690,161.77	32° 43' 41.571 N	103° 50' 57.750 W
6,500.0 6,600.0	6.00 6.00	156.10 156.10	6,479.2 6,578.6	-367.9 -377.5	163.0 167.3	628,986.11 628,976.56	690,166.00 690,170.24	32° 43' 41.476 N 32° 43' 41.381 N	103° 50' 57.701 W 103° 50' 57.652 W
6,700.0	6.00	156.10	6,678.1	-387.1	171.5	628,967.00	690,174.47	32° 43' 41.286 N	103° 50' 57.602 W
6,800.0	6.00	156.10	6,777.5	-396.6	175.8	628,957.44	690,178.71	32° 43' 41.192 N	103° 50' 57.553 W
6,900.0	6.00	156.10	6,877.0	-406.2	180.0	628,947.89	690,182.94	32° 43' 41.097 N	103° 50' 57.504 W
7,000.0	6.00	156.10	6,976.4	-415.7	184.2	628,938.33	690,187.18	32° 43' 41.002 N	103° 50' 57.455 W
7,100.0	6.00	156.10	7,075.9	-425.3	188.5	628,928.77	690,191.41	32° 43' 40.907 N	103° 50' 57.406 W
7,200.0	6.00	156.10	7,175.3	-434.8	192.7	628,919.22	690,195.65	32° 43' 40.813 N	103° 50' 57.357 W
7,300.0	6.00	156.10	7,274.8	-444.4	196.9	628,909.66	690,199.88	32° 43′ 40.718 N	103° 50' 57.308 W
7,400.0	6.00	156.10	7,374.3	-453.9	201.2	628,900.10	690,204.12	32° 43′ 40.623 N	103° 50' 57.259 W
7,500.0	6.00	156.10	7,473.7	-463.5	205.4	628,890.55	690,208.35	32° 43′ 40.528 N	103° 50' 57.210 W
7,600.0	6.00	156.10	7,573.2	-473.1	209.6	628,880.99	690,212.59	32° 43′ 40.434 N	103° 50' 57.161 W
7,700.0	6.00	156.10	7,672.6	-482.6	213.9	628,871.43	690,216.82	32° 43′ 40.339 N	103° 50' 57.112 W
7,800.0	6.00	156.10	7,772.1	-492.2	218.1	628,861.88	690,221.06	32° 43′ 40.244 N	103° 50' 57.063 W
7,900.0	6.00	156.10	7,871.5	-501.7	222.3	628,852.32	690,225.29	32° 43′ 40.149 N	103° 50' 57.014 W
8,000.0	6.00	156.10	7,971.0	-511.3	226.6	628,842.77	690,229.53	32° 43' 40.055 N	103° 50' 56.965 W
8,100.0	6.00	156.10	8,070.4	-520.8	230.8	628,833.21	690,233.76	32° 43′ 39.960 N	103° 50' 56.916 W
8,200.0	6.00	156.10	8,169.9	-530.4	235.0	628,823.65	690,238.00	32° 43' 39.865 N	103° 50' 56.866 W
8,236.0	6.00	156.10	8,205.7	-533.8	236.6	628,820.21	690,239.52	32° 43' 39.831 N	103° 50' 56.849 W
8,300.0	7.73	222.89	8,269.3	-540.1	235.0	628,813.99	690,237.95	32° 43′ 39.770 N	103° 50' 56.868 W
8,400.0 8,500.0	18.22 29.85	251.44 258.86	8,366.7	-550.0 -559.8	215.5 176.1	628,804.06 628,794.24	690,218.48	32° 43' 39.672 N 32° 43' 39.577 N	103° 50' 57.096 W 103° 50' 57.558 W
8,600.0	41.68	262.34	8,457.9 8,538.9	-559.6 -569.1	118.6	628,784.96	690,179.09 690,121.51	32° 43' 39.488 N	103° 50' 58.232 W
8,608.8	42.73	262.57	8,545.4	-569.9	112.7	628,784.19	690,115.65	32° 43′ 39.480 N	103° 50' 58.301 W
	72.75 PIE 22-21 FED			-505.5	112.7	020,704.19	030,113.03	32 43 33.400 N	103 30 30.301 44
8,700.0	53.58	264.49	8,606.2	-577.4	45.3	628,776.64	690,048.24	32° 43′ 39.408 N	103° 50' 59.090 W
8,800.0	65.50	266.06	8,656.8	-584.4	-40.5	628,769.62	689,962.49	32° 43' 39.343 N	103° 51' 0.095 W
8,900.0	77.43	267.36	8,688.5	-589.8	-135.0	628,764.23	689,868.00	32° 43' 39.294 N	103° 51' 1.201 W
9,000.0	89.37	268.54	8,700.0	-593.4	-234.0	628,760.70	689,768.91	32° 43' 39.263 N	103° 51' 2.361 W
9,005.0	89.97	268.60	8,700.0	-593.5	-239.0	628,760.57	689,763.91	32° 43' 39.262 N	103° 51' 2.420 W
EOC/FTP									
9,005.2	90.00	268.60	8,700.0	-593.5	-239.3	628,760.57	689,763.67	32° 43′ 39.262 N	103° 51' 2.422 W
9,056.9	90.00	269.63	8,700.0	-594.3	-291.0	628,759.77	689,711.97	32° 43' 39.257 N	103° 51' 3.028 W
9,100.0	90.00	269.63	8,700.0	-594.6	-334.0	628,759.50	689,668.92	32° 43′ 39.256 N	103° 51' 3.532 W
9,200.0	90.00	269.63	8,700.0	-595.2	-434.0	628,758.86	689,568.92	32° 43′ 39.254 N	103° 51' 4.702 W
9,300.0	90.00	269.63	8,700.0	-595.8	-534.0	628,758.22	689,468.92	32° 43′ 39.252 N	103° 51' 5.873 W
9,400.0	90.00	269.63	8,700.0	-596.5	-634.0	628,757.58	689,368.92	32° 43′ 39.250 N	103° 51' 7.044 W
9,500.0	90.00	269.63	8,700.0	-597.1	-734.0	628,756.94	689,268.93	32° 43′ 39.249 N	103° 51' 8.214 W
9,600.0	90.00	269.63	8,700.0	-597.8	-834.0	628,756.30	689,168.93	32° 43′ 39.247 N	103° 51' 9.385 W
9,700.0	90.00	269.63	8,700.0	-598.4	-934.0	628,755.66	689,068.93	32° 43' 39.245 N	103° 51' 10.556 W
9,800.0	90.00	269.63	8,700.0	-599.0	-1,034.0	628,755.02	688,968.93	32° 43' 39.243 N	103° 51' 11.726 W
9,900.0	90.00	269.63	8,700.0	-599.7	-1,134.0	628,754.39	688,868.93	32° 43' 39.241 N	103° 51' 12.897 W
10,000.0	90.00	269.63	8,700.0	-600.3	-1,234.0	628,753.75	688,768.94	32° 43′ 39.239 N	103° 51' 14.068 W
10,100.0	90.00	269.63	8,700.0	-600.9	-1,334.0	628,753.11	688,668.94	32° 43' 39.238 N	103° 51' 15.238 W

Received by OCD: 4/4/2024 8:25:47 AM RESOURCES

Permian Resources

Planning Report - Geographic

Database: Compass Company: **NEW MEXICO**

(SP) EDDY PINKIE PIE 22-21 FED COM Site: Well: PINKIE PIE 22-21 FED COM 124H

Wellbore: OWB Design: PWP0

Project:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

Grid

Design.		U							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,200.0	90.00	269.63	8,700.0	-601.6	-1,434.0	628,752.47	688,568.94	32° 43' 39.236 N	103° 51' 16.409 W
10,300.0	90.00	269.63	8,700.0	-602.2	-1,534.0	628,751.83	688,468.94	32° 43' 39.234 N	103° 51' 17.579 W
10,400.0	90.00	269.63	8,700.0	-602.9	-1,634.0	628,751.19	688,368.94	32° 43′ 39.232 N	103° 51' 18.750 W
10,500.0	90.00	269.63	8,700.0	-603.5	-1,734.0	628,750.55	688,268.95	32° 43′ 39.230 N	103° 51' 19.921 W
10,600.0	90.00	269.63	8,700.0	-604.1	-1,834.0	628,749.92	688,168.95	32° 43' 39.228 N	103° 51' 21.091 W
10,700.0	90.00	269.63	8,700.0	-604.8	-1,934.0	628,749.28	688,068.95	32° 43' 39.227 N	103° 51' 22.262 W
10,800.0	90.00	269.63	8,700.0	-605.4	-2,034.0	628,748.64	687,968.95	32° 43′ 39.225 N	103° 51' 23.433 W
10,900.0	90.00	269.63	8,700.0	-606.1	-2,134.0	628,748.00	687,868.95	32° 43′ 39.223 N	103° 51' 24.603 W
11,000.0	90.00	269.63	8,700.0	-606.7	-2,234.0	628,747.36	687,768.96	32° 43′ 39.221 N	103° 51' 25.774 W
11,100.0	90.00	269.63	8,700.0	-607.3	-2,334.0	628,746.72	687,668.96	32° 43′ 39.219 N	103° 51' 26.945 W
11,200.0	90.00	269.63	8,700.0	-608.0	-2,434.0	628,746.08	687,568.96	32° 43′ 39.217 N	103° 51' 28.115 W
11,300.0	90.00	269.63	8,700.0	-608.6	-2,534.0	628,745.45	687,468.96	32° 43′ 39.215 N	103° 51' 29.286 W
11,400.0	90.00	269.63	8,700.0	-609.2	-2,634.0	628,744.81	687,368.96	32° 43′ 39.213 N	103° 51' 30.457 W
11,500.0	90.00	269.63	8,700.0	-609.9	-2,734.0	628,744.17	687,268.97	32° 43′ 39.212 N	103° 51' 31.627 W
11,600.0	90.00	269.63	8,700.0	-610.5	-2,834.0	628,743.53	687,168.97	32° 43′ 39.210 N	103° 51' 32.798 W
11,700.0	90.00	269.63	8,700.0	-611.2	-2,934.0	628,742.89	687,068.97	32° 43′ 39.208 N	103° 51' 33.968 W
11,800.0	90.00	269.63	8,700.0	-611.8	-3,034.0	628,742.25	686,968.97	32° 43′ 39.206 N	103° 51' 35.139 W
11,900.0	90.00	269.63	8,700.0	-612.4	-3,134.0	628,741.61	686,868.98	32° 43′ 39.204 N	103° 51' 36.310 W
12,000.0	90.00	269.63	8,700.0	-613.1	-3,234.0	628,740.98	686,768.98	32° 43′ 39.202 N	103° 51' 37.480 W
12,100.0	90.00	269.63	8,700.0	-613.7	-3,334.0	628,740.34	686,668.98	32° 43′ 39.200 N	103° 51' 38.651 W
12,200.0	90.00	269.63	8,700.0	-614.4	-3,434.0	628,739.70	686,568.98	32° 43' 39.198 N	103° 51' 39.822 W
12,300.0	90.00	269.63	8,700.0	-615.0	-3,534.0	628,739.06	686,468.98	32° 43' 39.196 N	103° 51' 40.992 W
12,400.0	90.00	269.63	8,700.0	-615.6	-3,634.0	628,738.42	686,368.99	32° 43' 39.194 N	103° 51' 42.163 W
12,500.0	90.00	269.63	8,700.0	-616.3	-3,734.0	628,737.78	686,268.99	32° 43' 39.192 N	103° 51' 43.334 W
12,600.0 12,700.0	90.00	269.63 269.63	8,700.0 8,700.0	-616.9 -617.5	-3,834.0 -3,934.0	628,737.14	686,168.99	32° 43′ 39.191 N	103° 51' 44.504 W 103° 51' 45.675 W
	90.00		8,700.0	-617.5 -618.2		628,736.50	686,068.99	32° 43′ 39.189 N	
12,800.0 12,900.0	90.00 90.00	269.63 269.63	8,700.0	-618.8	-4,034.0 -4,134.0	628,735.87 628,735.23	685,968.99 685,869.00	32° 43' 39.187 N 32° 43' 39.185 N	103° 51' 46.846 W 103° 51' 48.016 W
13,000.0	90.00	269.63	8,700.0	-619.5	-4,134.0 -4,234.0	628,734.59	685,769.00	32° 43' 39.183 N	103° 51' 49.187 W
13,100.0	90.00	269.63	8,700.0	-620.1	-4,234.0	628,733.95	685,669.00	32° 43' 39.181 N	103° 51' 50.357 W
13,200.0	90.00	269.63	8,700.0	-620.7	-4,434.0	628,733.31	685,569.00	32° 43' 39.179 N	103° 51' 51.528 W
13,300.0	90.00	269.63	8,700.0	-621.4	-4,534.0	628,732.67	685,469.00	32° 43' 39.177 N	103° 51' 52.699 W
13,400.0	90.00	269.63	8,700.0	-622.0	-4,633.9	628,732.03	685,369.01	32° 43' 39.175 N	103° 51' 53.869 W
13,500.0	90.00	269.63	8,700.0	-622.7	-4,733.9	628,731.40	685,269.01	32° 43' 39.173 N	103° 51' 55.040 W
13,600.0	90.00	269.63	8,700.0	-623.3	-4,833.9	628,730.76	685,169.01	32° 43' 39.171 N	103° 51' 56.211 W
13,687.0	90.00	269.63	8,700.0	-623.9	-4,920.9	628,730.20	685,082.01	32° 43' 39.169 N	103° 51' 57.229 W
LPP 1	00.00	200.00	0,. 00.0	020.0	.,020.0	020,7 00.20	000,002.0.	02 10 00.10011	
13,700.0	90.00	269.63	8,700.0	-623.9	-4,933.9	628,730.12	685,069.01	32° 43′ 39.169 N	103° 51' 57.381 W
13,800.0	90.00	269.63	8,700.0	-624.6	-5,033.9	628,729.48	684,969.01	32° 43' 39.167 N	103° 51' 58.552 W
13,900.0	90.00	269.63	8,700.0	-625.2	-5,133.9	628,728.84	684,869.02	32° 43' 39.165 N	103° 51' 59.723 W
14,000.0	90.00	269.63	8,700.0	-625.9	-5,233.9	628,728.20	684,769.02	32° 43' 39.163 N	103° 52' 0.893 W
14,100.0	90.00	269.63	8,700.0	-626.5	-5,333.9	628,727.56	684,669.02	32° 43' 39.161 N	103° 52' 2.064 W
14,200.0	90.00	269.63	8,700.0	-627.1	-5,433.9	628,726.93	684,569.02	32° 43' 39.159 N	103° 52' 3.235 W
14,300.0	90.00	269.63	8,700.0	-627.8	-5,533.9	628,726.29	684,469.02	32° 43' 39.157 N	103° 52' 4.405 W
14,400.0	90.00	269.63	8,700.0	-628.4	-5,633.9	628,725.65	684,369.03	32° 43' 39.155 N	103° 52' 5.576 W
14,500.0	90.00	269.63	8,700.0	-629.0	-5,733.9	628,725.01	684,269.03	32° 43' 39.153 N	103° 52' 6.746 W
14,600.0	90.00	269.63	8,700.0	-629.7	-5,833.9	628,724.37	684,169.03	32° 43′ 39.152 N	103° 52' 7.917 W
14,700.0	90.00	269.63	8,700.0	-630.3	-5,933.9	628,723.73	684,069.03	32° 43′ 39.150 N	103° 52' 9.088 W
14,800.0	90.00	269.63	8,700.0	-631.0	-6,033.9	628,723.09	683,969.03	32° 43′ 39.148 N	103° 52' 10.258 W
14,900.0	90.00	269.63	8,700.0	-631.6	-6,133.9	628,722.45	683,869.04	32° 43′ 39.146 N	103° 52' 11.429 W
15,000.0	90.00	269.63	8,700.0	-632.2	-6,233.9	628,721.82	683,769.04	32° 43′ 39.144 N	103° 52' 12.600 W
15,100.0	90.00	269.63	8,700.0	-632.9	-6,333.9	628,721.18	683,669.04	32° 43′ 39.142 N	103° 52' 13.770 W
15,200.0	90.00	269.63	8,700.0	-633.5	-6,433.9	628,720.54	683,569.04	32° 43′ 39.140 N	103° 52' 14.941 W
15,300.0	90.00	269.63	8,700.0	-634.2	-6,533.9	628,719.90	683,469.04	32° 43′ 39.138 N	103° 52' 16.112 W



Planning Report - Geographic

Database: Compass Company: **NEW MEXICO**

(SP) EDDY PINKIE PIE 22-21 FED COM Site: Well: PINKIE PIE 22-21 FED COM 124H

Wellbore: OWB Design: PWP0

Project:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

Grid

easured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)		
	(°)	(°)		(usft)	(usft)			Latitude	Longitude
15,400.0	90.00	269.63	8,700.0	-634.8	-6,633.9	628,719.26	683,369.05	32° 43′ 39.136 N	103° 52' 17.2
15,500.0	90.00	269.63	8,700.0	-635.4	-6,733.9	628,718.62	683,269.05	32° 43′ 39.134 N	103° 52' 18.4
15,600.0	90.00	269.63	8,700.0	-636.1	-6,833.9	628,717.98	683,169.05	32° 43′ 39.132 N	103° 52' 19.6
15,700.0	90.00	269.63	8,700.0	-636.7	-6,933.9	628,717.35	683,069.05	32° 43′ 39.130 N	103° 52' 20.7
15,800.0	90.00	269.63	8,700.0	-637.3	-7,033.9	628,716.71	682,969.05	32° 43′ 39.127 N	103° 52' 21.9
15,900.0	90.00	269.63	8,700.0	-638.0	-7,133.9	628,716.07	682,869.06	32° 43′ 39.125 N	103° 52' 23.1
16,000.0	90.00	269.63	8,700.0	-638.6	-7,233.9	628,715.43	682,769.06	32° 43′ 39.123 N	103° 52' 24.3
16,100.0	90.00	269.63	8,700.0	-639.3	-7,333.9	628,714.79	682,669.06	32° 43′ 39.121 N	103° 52' 25.4
16,200.0	90.00	269.63	8,700.0	-639.9	-7,433.9	628,714.15	682,569.06	32° 43′ 39.119 N	103° 52' 26.6
16,300.0	90.00	269.63	8,700.0	-640.5	-7,533.9	628,713.51	682,469.06	32° 43′ 39.117 N	103° 52' 27.8
16,328.0	90.00	269.63	8,700.0	-640.7	-7,561.9	628,713.34	682,441.07	32° 43′ 39.117 N	103° 52' 28.1
LPP 2									
16,400.0	90.00	269.63	8,700.0	-641.2	-7,633.9	628,712.88	682,369.07	32° 43′ 39.115 N	103° 52' 28.9
16,500.0	90.00	269.63	8,700.0	-641.8	-7,733.9	628,712.24	682,269.07	32° 43' 39.113 N	103° 52' 30.1
16,600.0	90.00	269.63	8,700.0	-642.5	-7,833.9	628,711.60	682,169.07	32° 43' 39.111 N	103° 52' 31.3
16,700.0	90.00	269.63	8,700.0	-643.1	-7,933.9	628,710.96	682,069.07	32° 43′ 39.109 N	103° 52' 32.5
16,800.0	90.00	269.63	8,700.0	-643.7	-8,033.9	628,710.32	681,969.07	32° 43′ 39.107 N	103° 52' 33.6
16,900.0	90.00	269.63	8,700.0	-644.4	-8,133.9	628,709.68	681,869.08	32° 43′ 39.105 N	103° 52' 34.8
17,000.0	90.00	269.63	8,700.0	-645.0	-8,233.9	628,709.04	681,769.08	32° 43′ 39.103 N	103° 52' 36.0
17,100.0	90.00	269.63	8,700.0	-645.6	-8,333.9	628,708.41	681,669.08	32° 43′ 39.101 N	103° 52' 37.1
17,200.0	90.00	269.63	8,700.0	-646.3	-8,433.9	628,707.77	681,569.08	32° 43′ 39.099 N	103° 52' 38.3
17,300.0	90.00	269.63	8,700.0	-646.9	-8,533.9	628,707.13	681,469.09	32° 43′ 39.097 N	103° 52' 39.5
17,400.0	90.00	269.63	8,700.0	-647.6	-8,633.9	628,706.49	681,369.09	32° 43' 39.095 N	103° 52' 40.6
17,500.0	90.00	269.63	8,700.0	-648.2	-8,733.9	628,705.85	681,269.09	32° 43' 39.093 N	103° 52' 41.8
17,600.0	90.00	269.63	8,700.0	-648.8	-8,833.9	628,705.21	681,169.09	32° 43' 39.091 N	103° 52' 43.0
17,649.0	90.00	269.63	8,700.0	-649.2	-8,882.9	628,704.90	681,120.09	32° 43′ 39.090 N	103° 52' 43.6
LPP 3			-,		-,	,	,		
17,700.0	90.00	269.63	8,700.0	-649.5	-8,933.9	628,704.57	681,069.09	32° 43′ 39.089 N	103° 52' 44.2
17,700.0	90.00	269.63	8,700.0	-650.1	-9,033.9	628,703.93	680,969.10	32° 43' 39.087 N	103° 52' 45.3
17,900.0	90.00	269.63	8,700.0	-650.8	-9,133.9	628,703.30	680,869.10	32° 43' 39.084 N	103° 52' 46.5
18,000.0	90.00	269.63	8,700.0	-651.4	-9,233.9	628,702.66	680,769.10	32° 43' 39.082 N	103° 52' 47.7
18,100.0	90.00	269.63	8,700.0	-652.0	-9,333.9	628,702.02	680,669.10	32° 43' 39.080 N	103° 52' 48.8
18,200.0	90.00	269.63	8,700.0	-652.7	-9,333.9 -9,433.9	628,701.38	680,569.10	32° 43' 39.078 N	103° 52' 48.0
18,300.0	90.00	269.63	8,700.0	-653.3	-9,433.9 -9,533.8	628,700.74	680,469.11	32° 43' 39.076 N	103° 52' 51.2
18,400.0	90.00	269.63	8,700.0	-654.0	-9,533.8 -9,633.8	628,700.10	680,369.11	32° 43' 39.074 N	103° 52' 52.4
18,500.0	90.00	269.63	8,700.0	-654.6	-9,033.8 -9,733.8	628,699.46	680,269.11	32° 43' 39.074 N	103° 52' 53.5
18,600.0	90.00	269.63	8,700.0	-655.2	-9,733.6 -9,833.8	628,698.83	680,169.11	32° 43' 39.070 N	103° 52' 54.7
18,700.0	90.00	269.63	8,700.0	-655.9	-9,833.8 -9,933.8	628,698.19	680,069.11	32° 43′ 39.068 N	103 52 54.7 103° 52' 55.9
18,700.0	90.00	269.63	8,700.0	-656.5	-9,933.8 -10,033.8	628,697.55	679,969.11	32° 43' 39.066 N	103 52 55.9 103° 52' 57.0
18,869.6	90.00	269.63	8,700.0	-656.9	-10,033.8	628,697.10	679,969.12	32° 43′ 39.066 N	
	90.00 - PINKIE PIE				-10,103.4	020,097.10	019,099.02	32 43 39.004 N	103° 52' 57.8



Planning Report - Geographic

Database: Compass

Design:

Company: **NEW MEXICO** Project: (SP) EDDY PINKIE PIE 22-21 FED COM Site:

Well: PINKIE PIE 22-21 FED COM 124H Wellbore: OWB PWP0

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference:

GL @ 3654.8usft GL @ 3654.8usft

Well PINKIE PIE 22-21 FED COM 124H

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PINKIE PIE 22-21 FED (- plan hits target cen - Point	0.00 ter	0.00	8,700.0	-656.9	-10,103.4	628,697.10	679,899.52	32° 43' 39.064 N	103° 52' 57.899 W
PINKIE PIE 22-21 FED (- plan misses target - Point	0.00 center by 212	0.00 .4usft at 860	8,700.0 8.8usft MD (-590.1 8545.4 TVD, -	256.9 -569.9 N, 112.7	628,763.93 7 E)	690,259.88	32° 43' 39.273 N	103° 50' 56.614 W

Plan Annota	tions				
	Measured	Vertical	Local Coord	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(usft)	(usft)	(usft)	(usft)	Comment
	9,005.0	8,700.0	-593.5	-239.0	EOC/FTP
	13,687.0	8,700.0	-623.9	-4,920.9	LPP 1
	16,328.0	8,700.0	-640.7	-7,561.9	LPP 2
	17,649.0	8,700.0	-649.2	-8,882.9	LPP 3
	18,869.6	8,700.0	-656.9	-10,103.4	LTP/BHL



NEW MEXICO

(SP) EDDY
PINKIE PIE 22-21 FED COM
PINKIE PIE 22-21 FED COM 124H

OWB PWP0

Anticollision Summary Report

09 May, 2023

PERMIAN RESOURCES

Permian Resources

Anticollision Summary Report

TVD Reference:

MD Reference:

Company: **NEW MEXICO** Project: (SP) EDDY

PINKIE PIE 22-21 FED COM Reference Site:

Site Error: 0.0 usft

Reference Well: PINKIE PIE 22-21 FED COM 124H

Well Error: 0.0 usft Reference Wellbore **OWB** Reference Design: PWP0

Local Co-ordinate Reference:

Well PINKIE PIE 22-21 FED COM 124H

GL @ 3654.8usft GL @ 3654.8usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at Database:

Offset TVD Reference:

2.00 sigma Compass Offset Datum

Reference PWP0

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Survey (Wellbore)

Interpolation Method: Stations Error Model: **ISCWSA**

Depth Range: Unlimited Scan Method: Closest Approach 3D Results Limited by: Maximum centre distance of 1,000.0usft Error Surface: Pedal Curve Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

5/9/2023 **Survey Tool Program** Date

(usft)

From То

(usft)

Tool Name Description

18,869.6 PWP0 (OWB) MWD+IFR1+MS 0.0 OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
PINKIE PIE 22-21 FED COM						
PINKIE PIE 22-21 FED COM 113H - OWB - PWP0	2,423.6	2,424.2	10.6	-6.8	0.609 Le	evel 3, CC, ES, SF
PINKIE PIE 22-21 FED COM 114H - OWB - PWP0	7,488.5	7,479.6	50.6	-2.3	0.956 Le	evel 3, CC, ES, SF
PINKIE PIE 22-21 FED COM 123H - OWB - PWP0	2,416.6	2,416.7	33.0	15.7	1.904 C	С
PINKIE PIE 22-21 FED COM 123H - OWB - PWP0	2,500.0	2,500.0	33.0	15.1	1.841 E	S, SF
PINKIE PIE 22-21 FED COM 133H - OWB - PWP0	2,500.0	2,499.0	99.0	81.1	5.524 C	C, ES
PINKIE PIE 22-21 FED COM 133H - OWB - PWP0	2,600.0	2,599.0	100.6	82.0	5.402 S	F
PINKIE PIE 22-21 FED COM 134H - OWB - PWP0	2,500.0	2,499.7	66.0	48.1	3.682 C	C, ES
PINKIE PIE 22-21 FED COM 134H - OWB - PWP0	8,350.0	8,357.6	118.7	59.6	2.007 S	F
SHUGART FED 22 1 - OWB - AWP	10,059.0	8,700.8	0.1	-263.0	0.000 Le	evel 3, CC, ES, SF

PERMIAN RESOURCES

Permian Resources

Anticollision Summary Report

Company: NEW MEXICO Project: (SP) EDDY

Reference Site: PINKIE PIE 22-21 FED COM

Site Error: 0.0 usft

Reference Well: PINKIE PIE 22-21 FED COM 124H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: GL @ 3654.8usft MD Reference: GL @ 3654.8usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

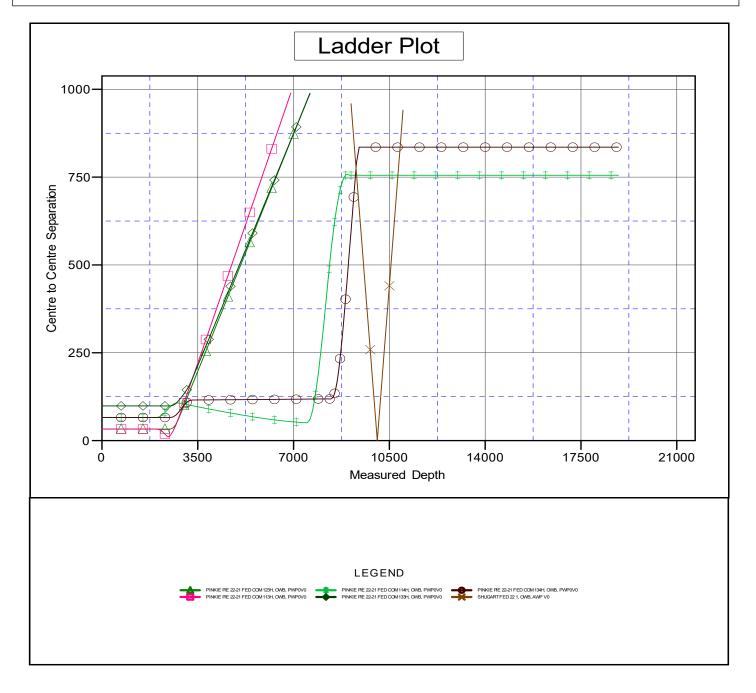
Output errors are at 2.00 sigma
Database: Compass
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL @ 3654.8usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: PINKIE PIE 22-21 FED COM 124H Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Well PINKIE PIE 22-21 FED COM 124H

Grid Convergence at Surface is: 0.26°



PERMIAN

Permian Resources

Anticollision Summary Report

NEW MEXICO Company: Project: (SP) EDDY

Offset Depths are relative to Offset Datum

PINKIE PIE 22-21 FED COM Reference Site:

Site Error: 0.0 usft

Reference Well: PINKIE PIE 22-21 FED COM 124H

Well Error: 0.0 usft Reference Wellbore **OWB** Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: GL @ 3654.8usft GL @ 3654.8usft MD Reference:

Well PINKIE PIE 22-21 FED COM 124H

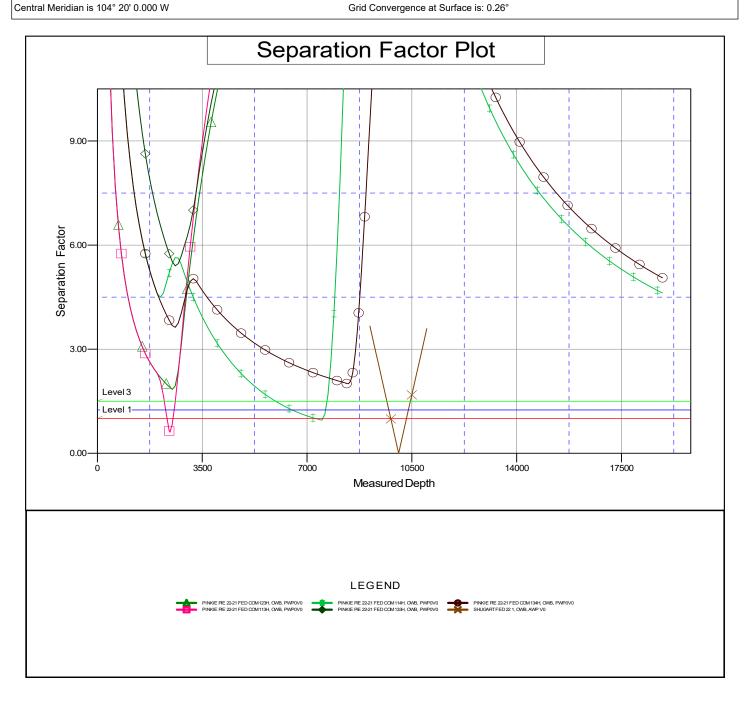
North Reference:

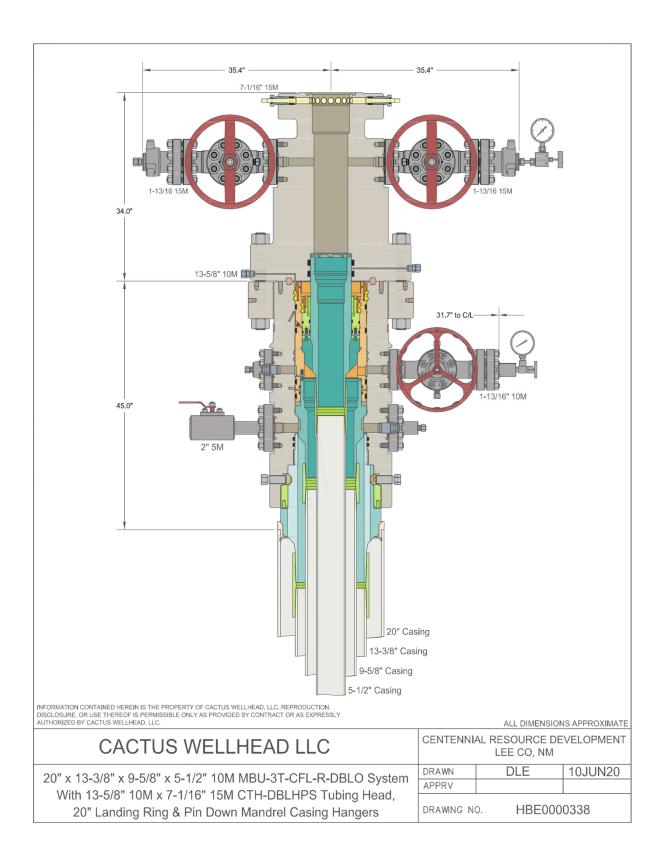
Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma

Database: Compass Offset TVD Reference: Offset Datum

Coordinates are relative to: PINKIE PIE 22-21 FED COM 124H Reference Depths are relative to GL @ 3654.8usft Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.26°





Permian Resources Multi-Well Pad Batch Drilling Procedure

<u>Surface Casing</u> - PR intends to Batch set all 13-3/8" casing to a depth approved in the APD. 17-1/2" Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

- 1. Drill 17-1/2" Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run and land 13-3/8" 54.5# J55 BTC casing see Illustration 1-1 Below to depth approved in APD.
- 3. Set packoff and test to 5k psi
- 4. Offline Cement
- 5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
- 6. Skid Rig to adjacent well to drill Surface hole.
- 7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is

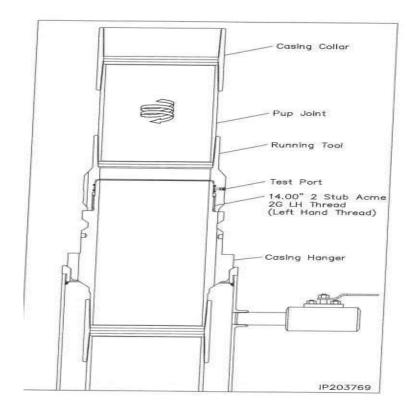
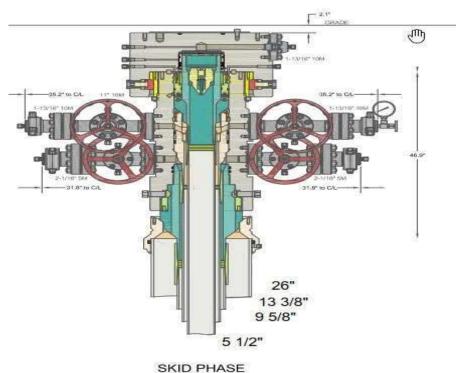


Illustration 1-1

<u>Intermediate Casing</u> – PR intends to Batch set all intermediate casing strings to a depth approved in the APD, typically set into Lamar. 12-1/4" Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test
- 3. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
- 4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
- 5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
- 6. Cement casing to surface with floats holding.
- 7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
- 8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
- 9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 10. Install nightcap skid rig to adjacent well to drill Intermediate hole.

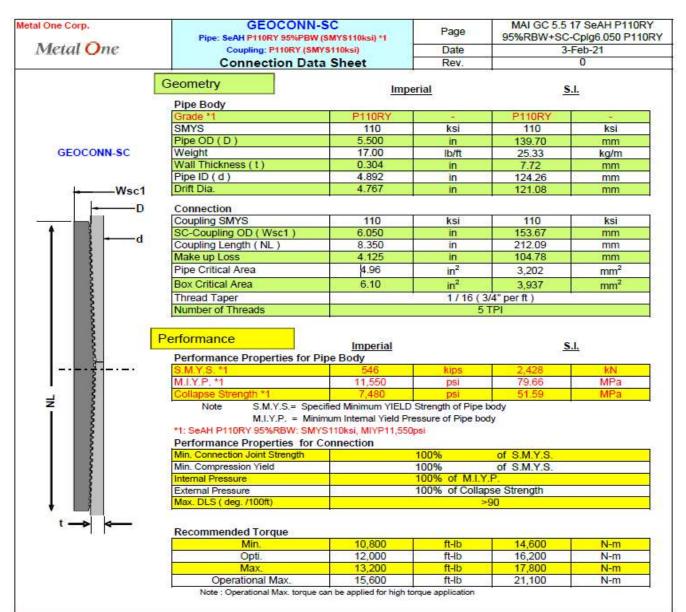


SKID FINSE

Illustration 2-2

<u>Production Casing</u> – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

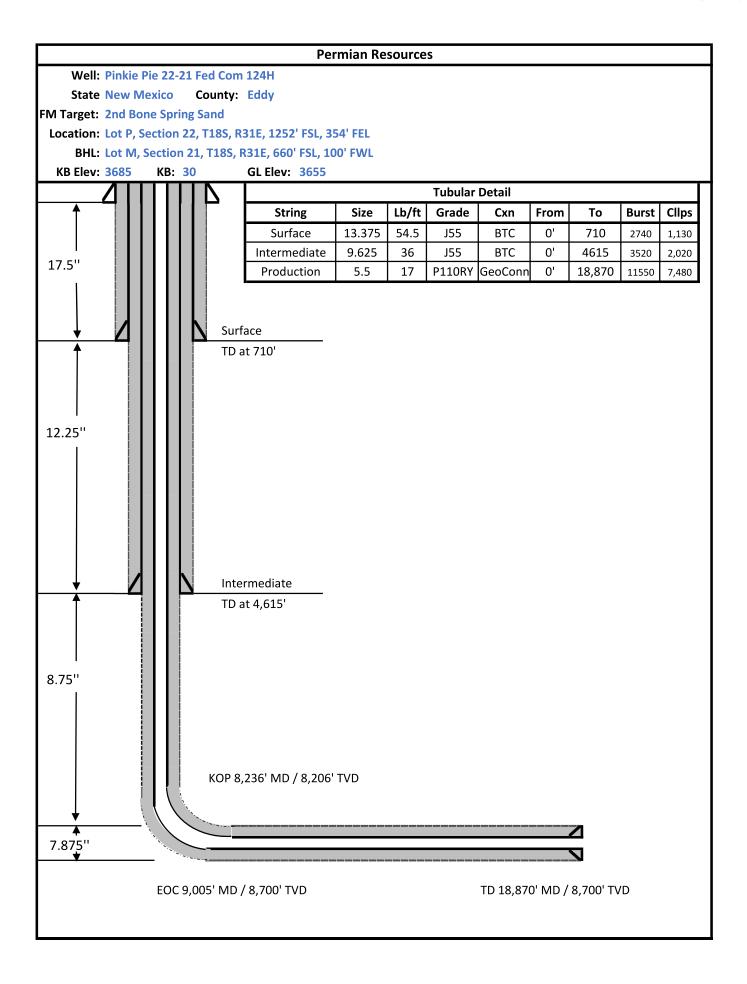
- 1. Big Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run 51/2" Production Casing.
- 6. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
- 7. Cement 5-1/2" Production string with floats holding.
- 8. Run in with wash tool and wash wellhead area install pack-off and test void to 5,000psi for 15 minutes.
- 9. Install BPV in 5-1/2" mandrel hanger Nipple down BOPE and install nightcap.
- 10. Test nightcap void to 5,000psi for 30 minutes per illustration 2-2
- 11. Skid rig to adjacent well on pad to drill production hole.



Legal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mito.co.jp/mo-con/ Inages/fop/Website Terms. Active 20333287 1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

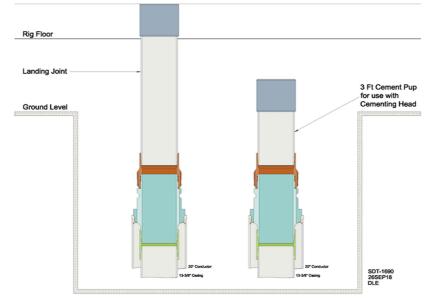


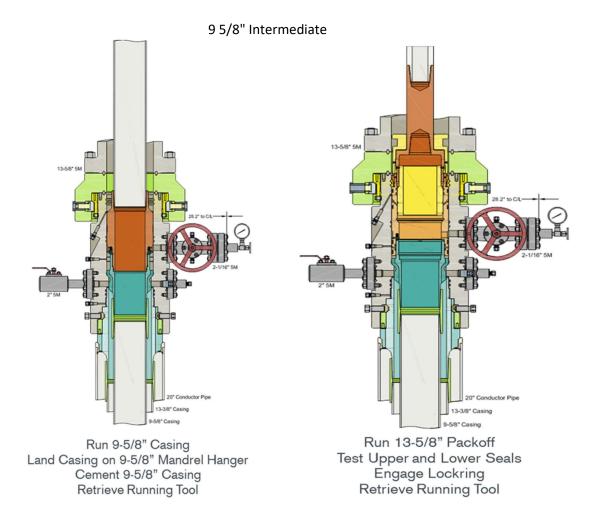
Permian Resources Offline Cementing Procedure 13-3/8" & 9-5/8" Casing

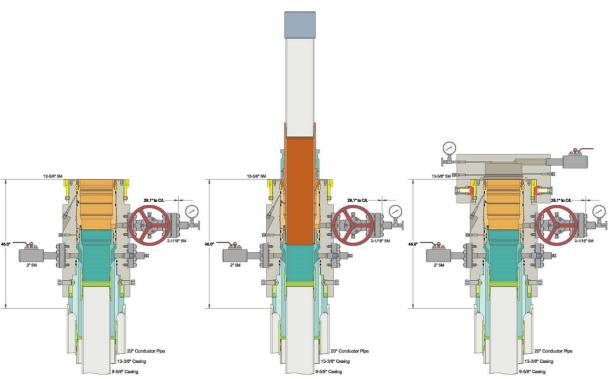
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple down BOP and install cap flange.
- 8. Skid rig to next well on pad
- 9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 10. Install offline cement tool.
- 11. Rig up cementers.
- 12. Circulate bottoms up with cement truck
- 13. Commence planned cement job, take returns through the annulus wellhead valve
- 14. After plug is bumped confirm floats hold and well is static
- 15. Rig down cementers and equipment
- 16. Install night cap with pressure gauge to monitor.

13 3/8" Surface

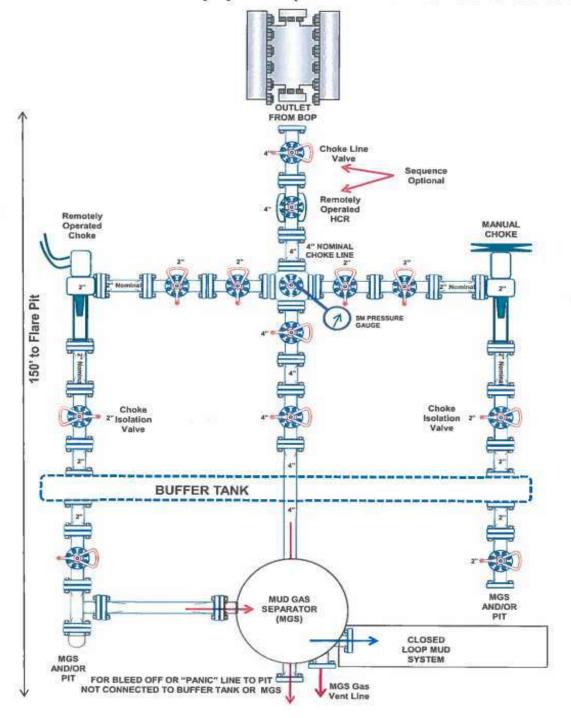
CFL Off-Line Cementing Tool







5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)





CONTITECH RUBBER No:QC-DB- 210/ 2014 Industrial Kft. Page: 9 / 113

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE						N°	504	
PURCHASER:	ASER: ContiTech Oil & Marine Corp.						450040965	59
CONTITECH RUBBER	order Nº: 538236	HOSE TYPE:	3*	ID		Choke an	d Kill Hose	
HOSE SERIAL Nº	87255	NOMINAL / ACT	TUAL LE	ENGTH:		10,67 n	n / 10,77 m	
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ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No. 501, 504, 505

Page: 1./1

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

APD ID: 10400092402 **Submission Date:** 05/22/2023

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

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:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

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: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

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

APD ID: 10400092402 **Submission Date:** 05/22/2023

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: PINKIE PIE 22-21 FED COM Well Number: 124H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number:

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

Date: 4/2/2024

State of New Mexico Energy, Minerals and Natural Resources Department

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: PERMIAN RESOURCES OPERATING, LLC OGRID: 372165

I	I. Type: ⊠ Original □ Amendary for Other, please describe: II. Well(s): Provide the following roposed to be recompleted from	ng info	ormation for each	new or recompleted	well or set of	wells proposed	<u>.</u>
	Well Name	API	ULSTR	Footages	Anticipated Oil	Anticipated Gas	Anticipated Prod Water
	Pinkie Pie 22-21 Fed Com 111H		A-22-T18S-R31E	1134' FNL, 599' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 112H		A-22-T18S-R31E	1133' FNL, 566' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 113H		P-22-T18S-R31E	1219' FSL, 353' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 114H		P-22-T18S-R31E	1186' FSL, 353' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 121H		A-22-T18S-R31E	1133' FNL, 533' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 122H		A-22-T18S-R31E	1133' FNL, 500' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 123H		P-22-T18S-R31E	1285' FSL, 354' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 124H		P-22-T18S-R31E	1252' FSL, 354' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 131H		A-22-T18S-R31E	1133' FNL, 467' FEL	1400 BOPD	1700 MCFD	2000 BWPD
	Pinkie Pie 22-21 Fed Com 132H		A-22-T18S-R31E	1133' FNL, 434' FEL	1400 BOPD	1700 MCFD	2000 BWPD

IV. Central Delivery Point Name: TBD [See 19.15.27.9(D)(1) NMAC]

1351' FSL, 354' FEL

P-22-T18S-R31E | 1318' FSL, 354' FEL | 1400 BOPD

1400 BOPD

1700 MCFD

1700 MCFD

I-22-T18S-R31E

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or 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
Pinkie Pie 22-21 Fed Com 111H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 112H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 113H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 114H		TBD	TBD	TBD	TBD	TBD

1

2000 BWPD

2000 BWPD

Pinkie Pie 22-21 Fed Com 133H

Pinkie Pie 22-21 Fed Com 134H

1	ı	ı			1	1
Pinkie Pie 22-21 Fed Com 121H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 122H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 123H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 124H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 131H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 132H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 133H		TBD	TBD	TBD	TBD	TBD
Pinkie Pie 22-21 Fed Com 134H		TBD	TBD	TBD	TBD	TBD

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

VII. Operations 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	ent for the
applicable reporting area must complete this section.	

 \Box 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 Name	API	Anticipated Average Natural Gas Rate	Anticipated Volume of Natural Gas for the First Year

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Volume of Natural Gas for the First Year
TBD	TBD	TBD	TBD	TBD

XI. Map. \boxtimes 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 system(s) to which the well(s) will be connected.

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

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

XIV. Confidentiality: \boxtimes 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 attached 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. \Box 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, not 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 and update for each Natural Gas Management Plan until the Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
 - (c) OCD may deny or conditionally approve and APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify, 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:	Ashley Brown
Printed Name:	Ashley Brown
Title:	Regulatory Lead
Email Address:	ashley.brown@permianres.com
Date:	4/3/2024
Phone:	(432) 400-2972
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of App	



NATURAL GAS MANAGEMENT PLAN DESCRIPTIONS

VI. Separation Equipment:

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:

Drilling

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

- 1) Appropriately sized and designed to ensure proper combustion efficiency.
- 2) Equipped with an automatic ignitor or continuous pilot.
- 3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed loop systems
- Enclosed and properly sized tanks.
- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions.
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable.

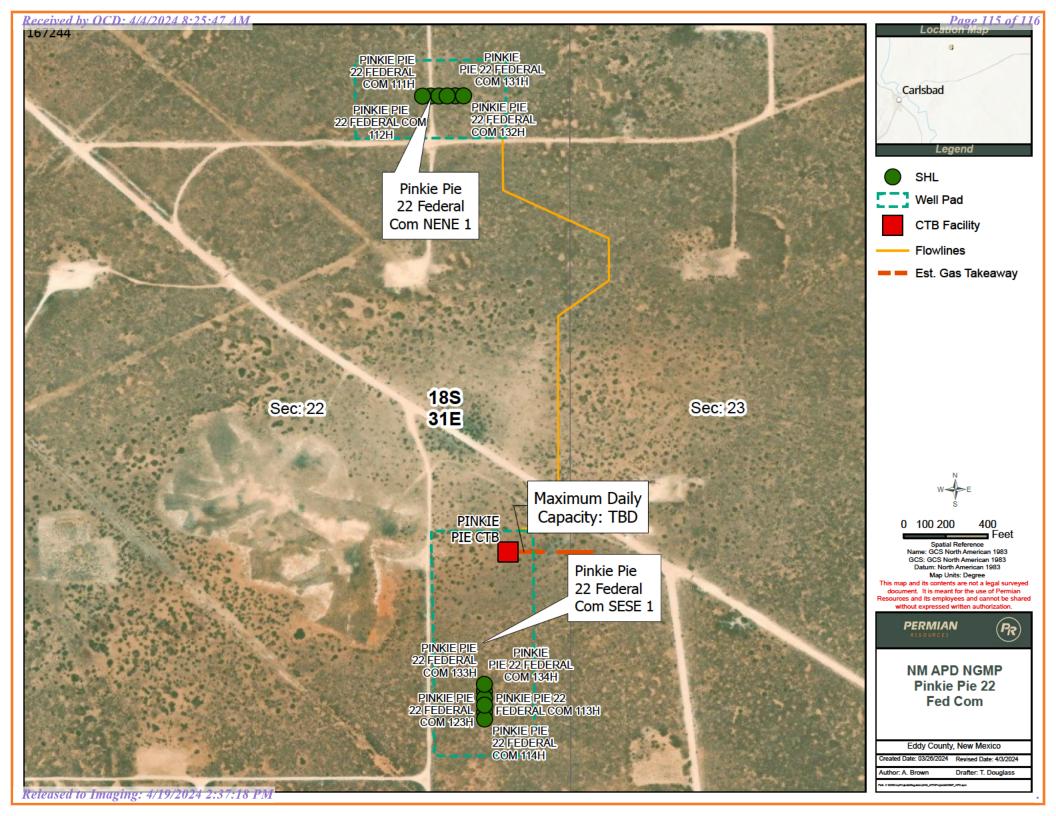
Measurement or Estimation

Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing, and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the NMOCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance, and repair operations.

VIII. Best Management Practices:

Permian utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors.
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable.
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions.
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary.



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

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

CONDITIONS

Action 329971

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	329971
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	4/19/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/19/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/19/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	4/19/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	4/19/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/19/2024