<u>District I</u> 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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101 August 1, 2011

Permit 374155

| APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE | | | | | |
|--|-----------------|--|--|--|--|
| 1. Operator Name and Address | 2. OGRID Number | | | | |
| Permian Resources Operating, LLC | 372165 | | | | |
| 300 N. Marienfeld St Ste 1000 | 3. API Number | | | | |
| Midland, TX 79701 | 30-025-53705 | | | | |

4. Property Code 5. Property Name 6. Well No. 322320 AIRSTREAM 24 STATE COM 304H

7 Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| 0 | 12 | 22S | 34E | 0 | 449 | S | 2553 | E | Lea |

8. Proposed Bottom Hole Location

| ſ | UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| ١ | Р | 25 | 22S | 34E | Р | 100 | S | 900 | E | Lea |

9. Pool Information

97293 OJO CHISO; BONE SPRING, SOUTH

Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|-----------------------|--------------------|--|----------------|-----------------------------------|
| New Well | OIL | | State | 3509 |
| 16. Multiple | 17. Proposed Depth | 18. Formation | 19. Contractor | 20. Spud Date |
| N | 20521 | 1st Bone Spring Sand | | 11/1/2024 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |
| | | | | |

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5 | 13.375 | 54.5 | 1822 | 1380 | 0 |
| Int1 | 12.25 | 9.625 | 40 | 5948 | 1570 | 0 |
| Prod | 8.75 | 5.5 | 20 | 20521 | 1400 | 9419 |
| Prod | 8.75 | 5.5 | 20 | 9419 | 570 | 5448 |

Casing/Cement Program: Additional Comments

ADDITIONAL CASING INFORMATION ATTACHED

22. Proposed Blowout Prevention Program

| Туре | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular | 2500 | 2500 | |
| Double Ram | 5000 | 5000 | |
| Pipe | 5000 | 5000 | |
| Blind | 5000 | 5000 | |

| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☑ and/or 19.15.14.9 (B) NMAC ☑, if applicable. Signature: | | | | OIL CONSI | ERVATION DIVISION |
|---|-----------------------------------|-------------------|-----------------|--------------|-----------------------------|
| Printed Name: | Electronically filed by Stephanie | Rabadue | Approved By: | Paul F Kautz | |
| Title: | Regulatory Manager | | Title: | Geologist | |
| Email Address: | stephanie.rabadue@permianres.com | | Approved Date: | 10/12/2024 | Expiration Date: 10/12/2026 |
| Date: | 10/3/2024 | Conditions of App | oroval Attached | <u>.</u> | |

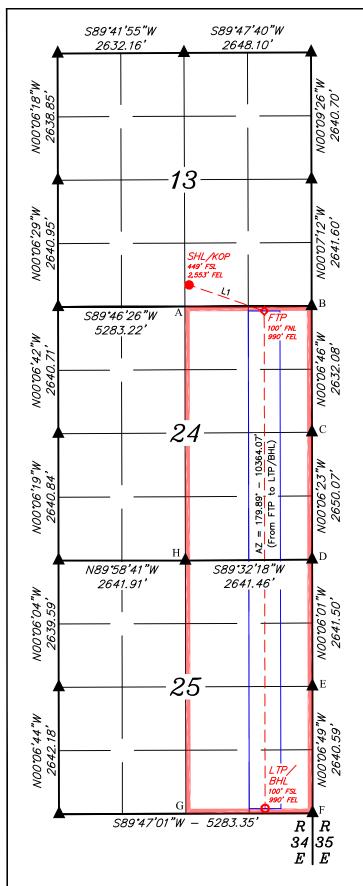
| ceived l | by OCD: 1 | 0/3/2024 3: | 5 <i>7:33 PM</i> | | | | | | | Page |
|-------------|-------------------------------------|--|-------------------|----------------|--|---|-------------------|----------------|--------------------------|--------------------|
| <u>C-10</u> | <u>)2</u> | | Fn | erov Mii | State of New nerals & Natura | w Mexico al Resources Departr | ment | | Revis | sed July 9, 2024 |
| Submi | t Electronical | ly | | | | TION DIVISION | nem | | | |
| Via OC | D Permitting | • | | | | | | Submittal | ☐ Initial Submit | |
| | | | | | | | | Туре: | ☐ Amended Rep | port |
| | | | | | WELLLOCAT | TION INFORMATION | | | ☐ As Drilled | |
| API N | umber | | Pool Code | | | Pool Name | | | | |
| | | | | 9729 | 3 | | iso; Bone | Spring | | |
| Proper | ty Code | | Property N | ame | AIRSTREA | M 24 STATE COM | | | Well Number 304 | 4H |
| OGRII | O No. 372165 | 5 | Operator N | ame P | ERMIAN RESOU | JRCES OPERATING, L | LC | | Ground Level El | |
| Surfac | | State □ Fee □ | Tribal 🗆 Fed | deral | | Mineral Owner: 🔽 | State Fee [| ☐ Tribal ☐ | | |
| | | | | | a . | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude (N. | AD 83) I | ongitude (NAD 83) | County |
| O | 13 | 22S | 34E | Lot | 449 SOUTH | 2553 EAST | 32.3856 | | -103.423357° | LEA |
| | | | | | Bottom | Hole Location | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude (N. | · I | Longitude (NAD 83) | |
| Р | 25 | 22S | 34E | | 100 SOUTH | 990 EAST | 32.3556 | 591° | -103.418382° | LEA |
| Dadia | stad Aamaa | Infill on Dofi | nina Wall | Dofining | Wall ADI | Overlannina Specino | Their (V/N) | Compolido | tion Codo | |
| Dedica | ited Acres 640 | Infill or Defi | ning weii | 1 | g Well API | Overlapping Spacing N | g Umit (Y/N) | Consolida | non Code | |
| Order | Numbers. | | | 1 30-0 | 25-45780 | Well setbacks are un | der Common (| Ownership: | Yes □No | |
| | | | | | Kiak O | ff Point (KOP) | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude (N. | AD 83) L | ongitude (NAD 83) | County |
| О | 13 | 22S | 34E | | 449 SOUTH | 2553 EAST | 32.3856 | I . | -103.423357° | LEA |
| | | | | | First Ta | ke Point (FTP) | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude (N. | | Longitude (NAD 83) | 1 * |
| A | 24 | 22S | 34E | | 100 NORTH | 990 EAST | 32.3841 | ./3" | -103.418299° | LEA |
| UL | Section | Township | Range | Lot | Last Ta Ft. from N/S | ke Point (LTP) Ft. from E/W | Latitude (N. | AD 92) I | Longitude (NAD 83) | County |
| P | 25 | 22S | 34E | Lot | 100 SOUTH | 990 EAST | 32.3556 | | -103.418382° | LEA |
| | | | | | | | 1 | | | |
| Unitiz | ed Area or A | rea of Uniform | nterest | Spacing | Unit Type 🙀 Horiz | contal Vertical | Groun | nd Floor Ele | evation: | |
| | | | | | | | | | | |
| OPER | ATOR CERT | TIFICATIONS | | | | SURVEYOR CERTIFI | CATIONS | | | |
| | | | | | plete to the best of | I hereby certify that the we | | | | |
| organiz | ation either ow | ief , and, if the we ns a working inter | est or unleased | mineral inter | est in the land | surveys made by me or und my belief. | ter my supervisio | n, and that th | ne same is true and corr | ect to the best of |
| location | pursuant to a | | wner of a work | ing interest o | r unleased mineral | | | | IL BUG | CHE |
| | , or to a volunt by the division | | пент от а сотрі | usory pooung | g order heretofore | | | | QF IN MEX | 10 |
| If this w | vell is a horizon | ntal well, I further | certify that this | organization | has received the | | | | | 6 |
| in each | track (in the tai | r g et pool or førma | tion) in which a | ny part of the | sed mineral interest well's completed | | | (| 23/82 |) AE |
| interval | PM N I | for obtained a con | nipusory poolin | ′ | | | | | 09-25- | -24 |
| Signatu | re / | | Date | /10/3/ | 2024 | Signature and Seal of Profes | ssional Surveyor | | 100 | SUF |
| Jer | nnifer El | rod | | | | 23782 | September | 19 2024 | ONAL | |
| Printed | | | | | | Certificate Number | Date of Surve | | | |

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

Email Address

jennifer.elrod@permianres.com

Property Name
AIRSTREAM 24 STATE COM
Well Number
JDrawn By
J.B.S. 01-28-19
Revised By
REV. 3 E.C. 09-25-24 (HSU COORDINATES CHANGES)



NOTE:

- Distances referenced on plat to section lines are perpendicular.
- section lines are perpendicular.

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

| | HSU COORDINATES | | | | | | |
|-------|-----------------|-----------|-----------|-----------|--|--|--|
| | NAD 27 N. | M. STATE | NAD 83 N. | M. STATE | | | |
| | PLANE, EA | ST ZONE | PLANE, E | AST ZONE | | | |
| POINT | NORTHING | EASTING | NORTHING | EASTING | | | |
| A | 504727.73 | 780967.92 | 504788.39 | 822151.37 | | | |
| В | 504749.25 | 783608.96 | 504809.92 | 824792.48 | | | |
| С | 502117.70 | 783625.16 | 502178.30 | 824808.74 | | | |
| D | 499468.17 | 783641.17 | 499528.70 | 824824.80 | | | |
| Е | 496827.19 | 783656.86 | 496887.65 | 824840.54 | | | |
| F | 494187.14 | 783673.13 | 494247.52 | 824856.87 | | | |
| G | 494166.08 | 781032.03 | 494226.45 | 822215.69 | | | |
| Н | 499435.80 | 781000.39 | 499496.31 | 822183.95 | | | |



| NAD 83 (SHL/KOP) | FOOTAGE |
|---|-----------|
| LATITUDE = 32°23'08.46" (32.385685°) | 449' FSL |
| LONGITUDE = -103°25'24.08" (-103.423357°) | 2553' FEL |
| NAD 27 (SHL/KOP) | |
| LATITUDE = 32°23'08.02" (32.385560°) | |
| LONGITUDE = -103°25'22.36" (-103.422879°) | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 505238.38' E: 822237.24' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N: 505177.70' E: 781053.80' | |

| NAD 83 (FIRST TAKE POINT) | FOOTAGE |
|---|----------|
| LATITUDE = 32°23'03.02" (32.384173°) | 100' FNL |
| LONGITUDE = -103°25'05.88" (-103.418299°) | 990' FEL |
| NAD 27 (FIRST TAKE POINT) | |
| LATITUDE = 32°23'02.58" (32.384049°) | |
| LONGITUDE = -103°25'04.16" (-103.417821°) | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 504701.87' E: 823803.29' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N: 504641.20' E: 782619.79' | |

| NAD 83 (LTP/BHL) | FOOTAGE |
|---|----------|
| LATITUDE = 32°21'20.49" (32.355691°) | 100' FSL |
| LONGITUDE = -103°25'06.17" (-103.418382°) | 990' FEL |
| NAD 27 (LTP/BHL) | |
| LATITUDE = 32°21'20.04" (32.355567°) | |
| LONGITUDE = -103°25'04.46" (-103.417904°) | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 494339.61' E: 823866.43' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N: 494279.23' E: 782682.73' | |

- SURFACE HOLE LOCATION/ KICK OFF POINT
- ♦ = FIRST TAKE POINT
- O = LAST TAKE POINT/
 - BOTTOM HOLE LOCATION
- \triangle = SECTION CORNER LOCATED
- = HORIZONTAL SPACING UNIT
- -= 330' BUFFER FROM WELLBORE

| WEL | WELLBORE - LINE TABLE | | | | | | | | | |
|------|-----------------------|----------|--|--|--|--|--|--|--|--|
| LINE | DIRECTION | LENGTH | | | | | | | | |
| L1 | AZ = 109.15° | 1655.65' | | | | | | | | |

Sheet 2 of 2

Form APD Conditions

Permit 374155

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|---|------------------------------|
| Permian Resources Operating, LLC [372165] | 30-025-53705 |
| 300 N. Marienfeld St Ste 1000 | Well: |
| Midland, TX 79701 | AIRSTREAM 24 STATE COM #304H |

| OCD Reviewer | Condition |
|-----------------|--|
| pkautz | Notify OCD 24 hours prior to casing & cement |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 |
| pkautz | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string |
| pkautz | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing |
| pkautz | If cement does not circulate on any string, a CBL is required for that string of casing |
| pkautz | The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud |

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

| NATURAL GAS MANAGEMENT PLAN | | | | | | | | | | | |
|--|---------------------|--------------------|--------------------|----------------------------|-----------------------|------------------------|---------|--|--|--|--|
| This Natural Gas Manag | gement Plan m | ust be submitted w | ith each Applicat | ion for Permit to I | Orill (Al | PD) for a ne | ew or i | recompleted well. | | | |
| Section 1 – Plan Description <u>Effective May 25, 2021</u> | | | | | | | | | | | |
| I. Operator: Permian Resources Operating, LLCogrid: 372165 Date: 08 / 30 / 2024 | | | | | | | | | | | |
| II. Type: ★ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. | | | | | | | | | | | |
| If Other, please describe | :: | | | | | | | | | | |
| III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. | | | | | | | | | | | |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | | | Anticipated Produced Water BBL/D | | | |
| SEE ATTACHE |) WELL LIS | \$T | | | | | | | | | |
| | | | | | | | | | | | |
| IV. Central Delivery P | oint Name: <u>A</u> | IRSTREAM 1 | 3 CTB 2 | | | [See 19. | .15.27. | 9(D)(1) NMAC] | | | |
| V. Anticipated Schedul proposed to be recomple | | | | | ell or so | et of wells p | propos | ed to be drilled or | | | |
| Well Name | API | Spud Date | TD Reached Date | Completion Commencement | | Initial Flo Back Da | | First Production Date | | | |
| SEE ATTACHED |) WELL LIS | T | | | | | | | | | |
| VI. Separation Equipm | | | ntion of how One | erator will size sen | aration | equinment | to onti | mize vas canture | | | |
| , it separation Equipm | 7 111101 | ra complete aeseri | peron or now ope | orator will size sep | aracron. | oquipinoni | to opti | mize gas captare. | | | |
| VII. Operational Practices: XI 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 during active and planner | | | ete description of | Operator's best m | nanagen | nent practic | es to | minimize venting | | | |
| | | | | | | | | | | | |

Page 7

Section 3 - Certifications Effective May 25, 2021

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

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

Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC: or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) power generation for grid; (b) compression on lease; (c)

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

Section 4 - Notices

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

Released to Imaging: 10/12/2024 4:08:18 PM

Page 8

| and Gas Act. |
|---|
| Signature: |
| Printed Name: JENNIFER ELROD |
| Title: SR. REGULATORY ANALYST |
| E-mail Address: JENNIFER.ELROD@PERMIANRES.COM |
| Date: 9/26/2024 |
| Phone: 950-452-6214 |
| |
| OIL CONSERVATION DIVISION |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) |
| |
| (Only applicable when submitted as a standalone form) |
| (Only applicable when submitted as a standalone form) Approved By: |
| (Only applicable when submitted as a standalone form) Approved By: Title: |
| (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date: |
| (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date: |

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

Permian Resources Operating, LLC (372165)

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

Permian Resources Operating, LLC (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 effciency.
- 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

Permian Resources Operating, LLC (372165)

- 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 OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

VIII. Best Management Practices:

Permian Resources 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

Enhanced Natural Gas Management Plan

Operator's Plan to Manage Production in Response to Increased Line Pressure

Permian Resources Operating, LLC (Permian) anticipates that its existing wells connected to the same portion of the natural gas gathering system will continue to meet anticipated increases in line pressure caused by the new wells. Permian will actively monitor line pressure throughout the field and will make necessary adjustments to existing production separators' pressures to send gas to sales. Permian also plans to implement automated alarms on all flare meters to alert of flaring events as they occur. The alarms will send notifications to field operations and engineering staff via text message and email at every occurrence of flaring. In addition, Permian plans to implement automated alarms on all flare meters to alert of any continuous flaring event that has continued for at least 4 hours. The alarms will send notifications to field operations and engineering management. Permian personnel will promptly respond to these alarms, communicate with midstream partners, and take the appropriate action to reduce flaring caused by high line pressure from new well production.

NEW MEXICO

(SP) LEA AIRSTREAM 24 ST COM PROJECT AIRSTREAM 24 ST COM 304H

OWB

Plan: PWP0

Standard Planning Report - Geographic

25 September, 2024

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT
Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

Minimum Curvature

Project (SP) LEA

Map System: Geo Datum: Map Zone: US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone System Datum:

Mean Sea Level

Site AIRSTREAM 24 ST COM PROJECT

 Site Position:
 Northing:
 504,366.27 usft
 Latitude:
 32° 22′ 59.965 N

 From:
 Map
 Easting:
 820,691.99 usft
 Longitude:
 103° 25′ 42.190 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well AIRSTREAM 24 ST COM 304H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 505,238.38 usfl
 Latitude:
 32° 23′ 8.465 N

 +E/-W
 0.0 usft
 Easting:
 822,237.24 usfl
 Longitude:
 103° 25′ 24.085 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Wellhead Elevation:

Usft

Ground Level:

3,510.0 usft

3,510.0 usft

Grid Convergence: 0.49 °

Wellbore OWB

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

 IGRF200510
 12/31/2009
 7.69
 60.42
 48,906.84007134

Design PWP0

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (°)

 0.0
 0.0
 0.0
 171.50

Plan Survey Tool Program Date 9/25/2024

Depth From Depth To

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

1 0.0 20,521.4 PWP0 (OWB) MWD

OWSG Rev2 MWD - Star

| Plan Section | ıs | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|----------------|
| 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 | |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,750.0 | 15.00 | 92.56 | 2,741.5 | -4.4 | 97.5 | 2.00 | 2.00 | 0.00 | 92.56 | |
| 8,040.7 | 7 15.00 | 92.56 | 7,851.9 | -65.6 | 1,465.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,790.7 | 7 0.00 | 0.00 | 8,593.4 | -70.0 | 1,563.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 9,419.9 | 0.00 | 0.00 | 9,222.5 | -70.0 | 1,563.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,169.9 | 90.00 | 179.65 | 9,700.0 | -547.5 | 1,565.9 | 12.00 | 12.00 | 23.95 | 179.65 | |
| 20,521.4 | 90.00 | 179.65 | 9,700.0 | -10,898.8 | 1,629.2 | 0.00 | 0.00 | 0.00 | 0.00 E | HL-AIRSTREAM 2 |

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT
Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:
MD Reference:
North Reference:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

| Planned Surve | ey | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------------------------|--|
| 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 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,100.0 1,200.0 | 0.00 0.00 | 0.00 0.00 | 1,100.0 1,200.0 | 0.0 | 0.0 0.0 | 505,238.38 505,238.38 | 822,237.24 822,237.24 | 32° 23' 8.465 N 32° 23' 8.465 N | 103° 25' 24.085 W 103° 25' 24.085 W |
| 1,300.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 505,238.38 | 822,237.24 | 32° 23' 8.465 N | 103° 25' 24.085 W |
| 2,100.0 | 2.00 | 92.56 | 2,100.0 | -0.1 | 1.7 | 505,238.30 | 822,238.98 | 32° 23' 8.464 N | 103° 25' 24.064 W |
| 2,200.0 | 4.00 | 92.56 | 2,199.8 | -0.3 | 7.0 | 505,238.07 | 822,244.21 | 32° 23' 8.461 N | 103° 25' 24.003 W |
| 2,300.0 | 6.00 | 92.56 | 2,299.5 | -0.7 | 15.7 | 505,237.68 | 822,252.92 | 32° 23' 8.456 N | 103° 25' 23.902 W |
| 2,400.0 | 8.00 | 92.56 | 2,398.7 | -1.2 | 27.9 | 505,237.13 | 822,265.09 | 32° 23' 8.450 N | 103° 25' 23.760 W |
| 2,500.0 | 10.00 | 92.56 | 2,497.5 | -1.9 | 43.5 | 505,236.43 | 822,280.72 | 32° 23' 8.442 N | 103° 25' 23.578 W |
| 2,600.0 | 12.00 | 92.56 | 2,595.6 | -2.8 | 62.5 | 505,235.58 | 822,299.78 | 32° 23′ 8.432 N | 103° 25' 23.356 W |
| 2,700.0 | 14.00 | 92.56 | 2,693.1 | -3.8 | 85.0 | 505,234.57 | 822,322.25 | 32° 23' 8.420 N | 103° 25' 23.094 W |
| 2,750.0 | 15.00 | 92.56 | 2,741.5 | -4.4 | 97.5 | 505,234.01 | 822,334.76 | 32° 23' 8.413 N | 103° 25' 22.948 W |
| 2,800.0 | 15.00 | 92.56 | 2,789.8 | -4.9 | 110.4 | 505,233.43 | 822,347.68 | 32° 23' 8.406 N | 103° 25' 22.797 W |
| 2,900.0 | 15.00 | 92.56 | 2,886.4 | -6.1 | 136.3 | 505,232.28 | 822,373.54 | 32° 23' 8.393 N | 103° 25' 22.496 W |
| 3,000.0 | 15.00 | 92.56 | 2,982.9 | -7.3 | 162.2 | 505,231.12 | 822,399.40 | 32° 23' 8.379 N | 103° 25' 22.194 W |
| 3,100.0 | 15.00 | 92.56 | 3,079.5 | -8.4 | 188.0 | 505,229.96 | 822,425.25 | 32° 23' 8.365 N | 103° 25' 21.893 W |
| 3,200.0 | 15.00 | 92.56 92.56 | 3,176.1 | -9.6 | 213.9 239.7 | 505,228.80 | 822,451.11 | 32° 23' 8.352 N 32° 23' 8.338 N | 103° 25' 21.592 W |
| 3,300.0 3,400.0 | 15.00 | 92.56 | 3,272.7 3,369.3 | -10.7 -11.9 | 239.7 265.6 | 505,227.65 505,226.49 | 822,476.96 822,502.82 | 32° 23' 8.325 N | 103° 25' 21.290 W 103° 25' 20.989 W |
| 3,500.0 | 15.00 15.00 | 92.56 | 3,465.9 | -11.9 | 291.4 | 505,225.33 | 822,528.68 | 32° 23' 8.311 N | 103° 25' 20.688 W |
| 3,600.0 | 15.00 | 92.56 | 3,562.5 | -14.2 | 317.3 | 505,224.17 | 822,554.53 | 32° 23' 8.297 N | 103° 25' 20.386 W |
| 3,700.0 | 15.00 | 92.56 | 3,659.1 | -15.4 | 343.1 | 505,223.01 | 822,580.39 | 32° 23' 8.284 N | 103° 25' 20.085 W |
| 3,800.0 | 15.00 | 92.56 | 3,755.7 | -16.5 | 369.0 | 505,221.86 | 822,606.24 | 32° 23' 8.270 N | 103° 25' 19.783 W |
| 3,900.0 | 15.00 | 92.56 | 3,852.3 | -17.7 | 394.9 | 505,220.70 | 822,632.10 | 32° 23' 8.256 N | 103° 25' 19.482 W |
| 4,000.0 | 15.00 | 92.56 | 3,948.9 | -18.8 | 420.7 | 505,219.54 | 822,657.96 | 32° 23' 8.243 N | 103° 25' 19.181 W |
| 4,100.0 | 15.00 | 92.56 | 4,045.5 | -20.0 | 446.6 | 505,218.38 | 822,683.81 | 32° 23' 8.229 N | 103° 25' 18.879 W |
| 4,200.0 | 15.00 | 92.56 | 4,142.1 | -21.2 | 472.4 | 505,217.22 | 822,709.67 | 32° 23' 8.215 N | 103° 25' 18.578 W |
| 4,300.0 | 15.00 | 92.56 | 4,238.6 | -22.3 | 498.3 | 505,216.07 | 822,735.52 | 32° 23' 8.202 N | 103° 25' 18.276 W |
| 4,400.0 | 15.00 | 92.56 | 4,335.2 | -23.5 | 524.1 | 505,214.91 | 822,761.38 | 32° 23' 8.188 N | 103° 25' 17.975 W |
| 4,500.0 | 15.00 | 92.56 | 4,431.8 | -24.6 | 550.0 | 505,213.75 | 822,787.24 | 32° 23′ 8.175 N | 103° 25' 17.674 W |
| 4,600.0 | 15.00 | 92.56 | 4,528.4 | -25.8 | 575.9 | 505,212.59 | 822,813.09 | 32° 23′ 8.161 N | 103° 25' 17.372 W |
| 4,700.0 | 15.00 | 92.56 | 4,625.0 | -26.9 | 601.7 | 505,211.43 | 822,838.95 | 32° 23' 8.147 N | 103° 25' 17.071 W |
| 4,800.0 | 15.00 | 92.56 | 4,721.6 | -28.1 | 627.6 | 505,210.28 | 822,864.80 | 32° 23' 8.134 N | 103° 25' 16.769 W |
| 4,900.0 | 15.00 | 92.56 | 4,818.2 | -29.3 | 653.4 | 505,209.12 | 822,890.66 | 32° 23′ 8.120 N | 103° 25' 16.468 W |
| 5,000.0 | 15.00 | 92.56 | 4,914.8 | -30.4 | 679.3 | 505,207.96 | 822,916.52 | 32° 23' 8.106 N | 103° 25' 16.167 W |
| 5,100.0 | 15.00 | 92.56 | 5,011.4 | -31.6 | 705.1 | 505,206.80 | 822,942.37 | 32° 23' 8.093 N | 103° 25' 15.865 W |
| 5,200.0 | 15.00 | 92.56 | 5,108.0 | -32.7 | 731.0 | 505,205.64 | 822,968.23 | 32° 23' 8.079 N | 103° 25' 15.564 W |
| 5,300.0 | 15.00 | 92.56 | 5,204.6 | -33.9 | 756.8 | 505,204.49 | 822,994.08 | 32° 23' 8.065 N | 103° 25' 15.263 W |

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

| Measured Dopth Inclination Azimuth Cyrtical Cust) Loghth Latitude Longitude Cust) Loghth Cyrtical Cust) Loghth Loghth Cust) Loghth Loghth Cust) Loghth Loghth Cust) Loghth Loghth Cust) Loghth C | Planned Surv | ⁄ey | | | | | | | | |
|--|--------------|-------|--------|---------|--------|---------|------------|------------|-----------------|-------------------|
| Control Cont | | | | | | | | | | |
| 5,600.0 15.00 92.56 5,397.8 3-62 808.6 505,202.17 823,045.80 32°23°8.024 N 103°25°14.660 W 5,500.0 15.00 92.56 5,590.9 38.5 860.3 505,199.85 823,097.51 32°23°8.024 N 103°25°14.057 W 5,800.0 15.00 92.56 5,590.9 38.5 860.3 505,199.85 823,097.51 32°23°8.024 N 103°25°14.057 W 5,800.0 15.00 92.56 5,886.7 - 40.8 912.0 505,197.54 823,149.22 32°23°,1997 N 103°25°13.756 W 6,000.0 15.00 92.56 5,880.7 - 42.0 997.8 505,195.22 823,200.93 32°23°,7997 N 103°25°13.458 W 6,200.0 15.00 92.56 6,073.9 -44.3 963.7 505,195.22 823,200.93 32°23°,7997 N 103°25°13.158 W 6,200.0 15.00 92.56 6,073.9 -44.5 968.5 505,195.22 823,200.93 32°23°,7997 N 103°25°12.550 W 6,300.0 15.00 92.56 6,670.5 -46.6 10.13 505,192.91 823,252.64 32°23°,7994 N 103°25°12.550 W 6,400.0 15.00 92.56 6,670.5 -46.5 10.154.5 505,192.91 823,252.64 32°23°,7995 N 103°25°12.550 W 6,600.0 15.00 92.56 6,660.3 -48.9 10.067.1 505,190.99 823,304.36 32°23°,7915 N 103°25°11.947 W 6,500.0 15.00 92.56 6,660.3 -48.9 10.093.0 505,190.59 823,304.36 32°23°,7915 N 103°25°11.947 W 6,600.0 15.00 92.56 6,555.9 5.01 1,118.8 505,189.43 823,355.07 32°23°,788 N 103°25°11.044 W 6,800.0 15.00 92.56 6,555.9 5.51 31,144.7 505,189.43 823,355.07 32°23°,7891 N 103°25°11.044 W 6,800.0 15.00 92.56 6,665.5 5.51 31,144.7 505,189.43 823,355.07 32°23°,7881 N 103°25°11.044 W 7,000.0 15.00 92.56 6,645.5 5.51 31,144.7 505,189.43 823,355.07 32°23°,7891 N 103°25°11.044 W 7,000.0 15.00 92.56 6,645.5 5.51 31,144.7 505,189.43 823,355.07 32°23°,7891 N 103°25°10.742 W 7,000.0 15.00 92.56 6,545.2 5.47 1,222.3 505,189.48 823,459.49 32°23°,7891 N 103°25°10.742 W 7,000.0 15.00 92.56 6,545.2 5.47 1,222.3 505,189.48 823,459.49 32°23°,7891 N 103°25°10.742 W 7,000.0 15.00 92.56 6,545.2 5.47 1,222.3 505,189.48 823,459.49 32°23°,7891 N 103°25°10.742 W 7,000.0 15.00 92.56 6,545.2 5.47 1,222.3 505,189.48 823,459.49 32°23°,7891 N 103°25°,7891 N 103°25° | | | | | | | | | Latitude | Longitude |
| 6,600.0 15,00 92.66 5,494.4 37.4 834.4 505,201.01 823,071.65 32°23°24°1.05°11 100°2°25′1.4358°W 5,800.0 15,00 92.56 5,599.9 38.5 886.1 505,198.70 823,123.36 32°23°7.998 N 103°2°25′13,756 W 6,000.0 15,00 92.56 5,784.1 -40.8 912.0 506,198.70 823,123.36 32°23°7.998 N 103°2°25′13,456 W 6,000.0 15,00 92.56 5,890.7 -42.0 937.8 506,196.38 823,175.08 32°23°7.996 N 103°2°25′13,456 W 6,200.0 15,00 92.56 6,073.9 -44.3 999.5 506,194.06 823,226.79 32°23°7.996 N 103°2°25′12.851 W 6,400.0 15,00 92.56 6,267.1 -46.6 1,041.3 506,194.06 823,226.79 32°23°7.991 N 103°2°25′1.1851 W 6,500.0 15,00 92.56 6,585.5 -50.1 1,041.3 506,194.06 823,226.79 32°2°3°7.995 N 103°2°25′1.1851 W 6,500.0 15,00 | 5,400.0 | 15.00 | 92.56 | 5,301.2 | -35.1 | | 505,203.33 | 823,019.94 | 32° 23' 8.052 N | 103° 25' 14.961 W |
| 5,700.0 15.00 92.66 6,867.5 3-97.8 886.1 505,199.85 823,097.51 32°23°8.011 N 103°25°14,057 W 5,900.0 15.00 92.66 6,807.4 20 937.8 505,198.70 823,143.80 22°23°7.997 N 103°25°13,756 W 6,000.0 15.00 92.66 6,807.4 20 937.8 505,196.38 823,149.22 32°23°7.997 N 103°25°13,158 W 6,100.0 15.00 92.66 6,977.3 43.2 983.7 505,195.22 823,200.93 32°23°7.996 N 103°25°13,158 W 6,000.0 15.00 92.66 6,770.9 44.3 989.5 505,194.06 823,226.79 32°23°7.997 N 103°25°13,158 W 6,000.0 15.00 92.66 6,770.5 45.5 1,015.4 505,194.06 823,226.79 32°23°7.997 N 103°25°12,281 W 6,500.0 15.00 92.66 6,363.7 47.8 1,067.1 505,194.06 823,278.50 22°23°7.995 N 103°25°12,289 W 6,500.0 15.00 92.66 6,363.7 47.8 1,067.1 505,194.06 823,302.1 62°23°7.995 N 103°25°11,146 W 6,500.0 15.00 92.66 6,565.9 50.1 1,118.8 506,189.43 823,302.1 62°23°7.986 N 103°25°11,146 W 6,800.0 15.00 92.66 6,565.69 50.1 1,118.8 506,189.43 823,302.1 62°23°7.986 N 103°25°11,144 W 6,900.0 15.00 92.66 6,656.6 5.56 6,750.1 1,118.8 506,189.43 823,302.1 62°23°7.861 N 103°25°11,144 W 6,900.0 15.00 92.66 6,656.6 5.56 6,750.1 5.24 1,170.5 505,185.6 823,407.78 32°23°7.881 N 103°25°10,140 W 7,000.0 15.00 92.66 6,943.2 56°7.1 1,164.6 50.1 1,164.6 50.1 1,164.6 50.1 1,164.6 50.1 1,164.5 50.1 1,164. | 5,500.0 | | | | | | | , | 32° 23′ 8.038 N | 103° 25' 14.660 W |
| 5,800.0 15.00 92.56 5,687.5 3.97.7 886.1 505,198.70 823,143.23 32° 23° 7.994 N 103° 25° 13,756 W 6,000.0 15.00 92.56 5,880.7 42.0 937.8 505,196.38 823,175.08 32° 23° 7.996 N 103° 25° 13,153 W 6,000.0 15.00 92.56 5,977.3 43.2 998.7 505,196.29 832,200.93 32° 23° 7.996 N 103° 25° 12,555 W 6,300.0 15.00 92.56 6,077.9 44.3 999.5 505,194.00 823,226.79 32° 23° 7.999 N 103° 25° 12,255 W 6,500.0 15.00 92.56 6,267.1 46.6 1,041.3 505,191.76 823,278.60 32° 23° 7.992 N 103° 25° 11,494 W 6,600.0 15.00 92.56 6,868.3 48.9 1,093.0 605,195.9 323,304.36 32° 23° 7.894 N 103° 25° 11,494 W 6,600.0 15.00 92.56 6,653.5 5-13 1,144.7 505,187.12 823,386.07 32° 23° 7.894 N 103° 25° 11,444 W 6,690.0 15. | | | | | | | | 823,071.65 | | |
| 6,900.0 15,00 92,56 5,874.1 40,8 912.0 505,197.54 823,149.22 32° 23° 7,990.N 103° 25° 13,158 W 6,100.0 15,00 92,56 5,977.3 43,2 963.7 505,196.38 823,175.08 32° 23° 7,990.N 103° 25° 12,851 W 6,200.0 15,00 92,56 6,770.3 43,2 963.7 505,196.28 823,200.93 32° 23° 7,994.N 103° 25° 12,851 W 6,400.0 15,00 92,56 6,677.1 45,5 1,015.4 505,192.91 823,226.79 32° 23° 7,916 N 103° 25° 12,249 W 6,500.0 15,00 92,56 6,636.3 48.9 1,067.1 505,190.59 823,240.30 32° 23° 7,916 N 103° 25° 11,146 W 6,600.0 15,00 92,56 6,656.5 -50.1 1,118.8 505,185.06 823,302.1 32° 23° 7,814 N 103° 25° 11,144 W 6,800.0 15,00 92,56 6,659.5 -50.1 1,148.5 505,185.06 823,407.78 32° 23° 7,814 N 103° 25° 10,144 W 92° 27° 7,818 N 103° 25° 10, | | | | | | | | | | |
| 6,000.0 15.00 92.56 5,880.7 42.0 993.7 505,196.38 823,175.08 32' 23' 7,970 N 103' 25' 13,153 W 6,200.0 15.00 92.56 6,073.9 44.3 999.5 505,194.06 823,262.67 9 32' 23' 7,960 N 103' 25' 12.561 W 6,200.0 15.00 92.56 6,107.5 45.5 1,015.4 505,192.91 823,276.50 32' 23' 7,920 N 103' 25' 12.560 W 6,400.0 15.00 92.56 6,267.1 46.6 1,041.3 505,191.75 823,276.50 32' 23' 7,920 N 103' 25' 12.49 W 6,400.0 15.00 92.56 6,363.7 47.8 1,067.1 505,190.59 823,276.50 32' 23' 7,920 N 103' 25' 11.464 W 6,600.0 15.00 92.56 6,403.3 48.9 1,093.0 505,199.43 823,304.36 32' 23' 7,920 N 103' 25' 11.464 W 6,600.0 15.00 92.56 6,663.5 -13.3 1,144.7 505,191.72 823,379.2 32' 37' 80 N 103' 25' 11.464 W 6,600.0 15.00 92.56 6,663.5 -13.3 1,144.7 505,191.72 823,381.92 32' 23' 7,680 N 103' 25' 11.344 W 6,800.0 15.00 92.56 6,760.1 52.4 1,170.5 505,185.96 823,407.78 23' 7,730 N 103' 25' 11.344 W 7,700.0 15.00 92.56 6,846.6 -53.6 1,196.4 505,185.97 823,273 823,500 72' 23' 7,680 N 103' 25' 10.490 W 7,700.0 15.00 92.56 6,703.9 8 -55.9 1,248.1 505,185.9 823,407.78 823,273 7,800 N 103' 25' 95.38 W 7,200.0 15.00 92.56 6,723.0 -55.9 1,248.1 505,185.9 823,407.78 823,273 7,800 N 103' 25' 95.38 W 7,200.0 15.00 92.56 7,233.0 -58.2 1,299.8 505,180.17 823,537.06 822' 23' 7,760 N 103' 25' 95.38 W 7,200.0 15.00 92.56 7,233.0 -58.2 1,299.8 505,180.17 823,537.06 32' 23' 7,770 N 103' 25' 9.538 W 7,500.0 15.00 92.56 7,240.6 -53.6 1,196.4 505,181.3 823,511.20 23' 23' 7,760 N 103' 25' 9.538 W 7,500.0 15.00 92.56 7,240.6 -50.5 1,351.5 505,177.85 823,540.4 822' 23' 7,750 N 103' 25' 9.538 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,540.4 822' 23' 7,750 N 103' 25' 8,832 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,540.4 822' 23' 7,750 N 103' 25' 8,832 W 7,500.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,177.85 823,540.4 822' 23' 7,760 N 103' 25' 7,728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,177.85 823,540.4 822' 23' 7,760 N 103' 25' 5,863 W 7,500.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,177.5 9 823,570.9 823,773.9 N 103' 25' 5,863 W 9,200.0 0.00 0.0 | | | | | | | | · · | | |
| 6,100.0 15.00 92.56 6,977.3 43.2 963.7 505,194.06 232,267.93 32°23′7,956 N 103°25′12,261 W 6,300.0 15.00 92.56 6,170.5 45.5 1,015.4 505,194.06 232,267.93 23′7,943 N 103°25′12,249 W 6,400.0 15.00 92.56 6,267.1 46.6 1,041.3 505,194.76 282,276.50 32°23′7,950 N 103°25′12,249 W 6,500.0 15.00 92.56 6,363.7 47.8 1,067.1 505,190.59 823,304.36 32°23′7,902 N 103°25′11,344 W 6,700.0 15.00 92.56 6,680.3 4.99 1,093.0 505,189.43 823,302.1 32°37′8,88 N 103°25′11,344 W 6,700.0 15.00 92.56 6,565.9 -50.1 1,118.8 505,188.27 823,365.07 32°23′7,874 N 103°25′11,044 W 7,000.0 15.00 92.56 6,565.9 -50.1 1,118.8 505,188.27 823,316.07 32°23′7,874 N 103°25′11,044 W 7,000.0 15.00 92.56 6,686.3 -51.3 1,144.7 505,187.12 823,381.92 32°37′8,74 N 103°25′10,42 W 7,000.0 15.00 92.56 6,686.3 -53.6 1,196.4 505,184.90 822,343.84 N 103°25′10,440 W 7,000.0 15.00 92.56 6,943.2 -54.7 1,222.3 505,183.04 822,343.84 9 32°23′7,820 N 103°25′10,440 W 7,000.0 15.00 92.56 6,943.2 -54.7 1,222.3 505,183.04 822,343.84 9 32°23′7,820 N 103°25′9,838 W 7,200.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,511.20 32°23′7,780 N 103°25′9,838 W 7,200.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,511.20 32°23′7,780 N 103°25′9,938 W 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,187.0 1 823,587.0 6 32°23′7,780 N 103°25′9,938 W 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,187.0 1 823,587.0 6 32°23′7,780 N 103°25′8,933 W 7,500.0 15.00 92.56 7,426.2 +05.5 1,351.5 505,177.8 5 823,587.0 1 823,5 | | | | | | | | | 32° 23' 7.984 N | |
| 6,200.0 15.00 92.56 6,073.9 -44.3 999.5 505,194.06 823,256.79 32*23*7,929 N 103*25*12,550 W 6,400.0 15.00 92.56 6,267.1 -46.6 1,041.3 505,191.75 823,278.50 32*23*7,929 N 103*25*11,945 W 6,500.0 15.00 92.56 6,363.7 -47.8 1,067.1 505,190.59 823,278.50 32*23*7,928 N 103*25*11,945 W 6,600.0 15.00 92.56 6,460.3 -48.9 1,093.0 505,189.43 823,304.30 21 32*23*7,828 N 103*25*11,945 W 6,600.0 15.00 92.56 6,665.69 -50.1 1,118.8 505,189.27 823,356.07 22*23*7,888 N 103*25*11,945 W 6,600.0 15.00 92.56 6,665.69 -50.1 1,118.8 6,600.0 15.00 92.56 6,665.5 -51.3 1,144.7 505,187.12 823,358.07 22*23*7,878 N 103*25*11,043 W 7,000.0 15.00 92.56 6,665.3 -51.3 1,144.7 505,187.12 823,358.07 22*23*7,878 N 103*25*10,430 W 7,000.0 15.00 92.56 6,943.2 -54.7 1,702.2 355,618.59 823,407.8 22*23*7,886 N 103*25*10,430 W 7,000.0 15.00 92.56 6,943.2 -54.7 1,222.3 505,183.64 823,459.49 32*23*7,880 N 103*25*9,838 W 7,200.0 15.00 92.56 7,103.8 -55.9 1,248.11 505,162.48 823,459.49 32*23*7,880 N 103*25*9,838 W 7,200.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,4511.20 32*23*7,789 N 103*25*9,338 W 7,200.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,4511.20 32*23*7,789 N 103*25*9,338 W 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,187.90 823,552.9 32*23*7,775 N 103*25*9,338 W 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,177.80 823,552.9 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.8 823,557.0 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.49 823,560.3 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.49 823,560.3 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.49 823,560.2 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.49 823,560.2 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.38 823,660.3 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,746.0 -64.0 1,429.1 505,177.38 823,660.3 32*23*7,775 N 103*25*8,333 W 7,500.0 15.00 92.56 7,851.9 4,860.0 1,460.0 1,46 | | | | | | | | | | |
| 6,300.0 15.00 92.56 6,170.5 45.5 1,015.4 505,192.91 823,252.64 32*23*7,292 N 103*25*11,244 W 6,500.0 15.00 92.56 6,363.7 47.8 1,067.1 505,190.59 823,304.36 32*23*7,915 N 103*25*11,344 W 6,700.0 15.00 92.56 6,460.3 4.9 1,093.0 505,189.43 823,302.1 32*37*158 N 103*25*11,344 W 6,700.0 15.00 92.56 6,565.9 -50.1 1,118.8 505,188.27 823,356.07 32*23*7,847 N 103*25*11,043 W 6,900.0 15.00 92.56 6,565.9 -50.1 1,118.8 505,188.27 823,356.07 32*23*7,847 N 103*25*11,043 W 7,000.0 15.00 92.56 6,863.5 -51.3 1,144.7 505,185.96 823,407.78 32*23*7,847 N 103*25*10,440 W 7,000.0 15.00 92.56 6,846.5 -53.6 1,196.4 505,185.96 823,407.78 32*23*7,847 N 103*25*10,139 W 7,100.0 15.00 92.56 6,843.2 -44.7 1,222.3 505,185.96 823,407.78 32*23*7,820 N 103*25*10,139 W 7,200.0 15.00 92.56 7,039.8 -55.9 1,248.1 505,185.49 823,485.35 32*23*7,820 N 103*25*9,338 W 7,200.0 15.00 92.56 7,331.64 -57.1 1,274.0 505,181.33 22.511.20 32*3*7,820 N 103*25*9,338 W 7,200.0 15.00 92.56 7,233.0 -582.2 1,299.8 505,180.17 823,537.06 32*23*7,730 N 103*25*9,338 W 7,500.0 15.00 92.56 7,233.0 -582.2 1,299.8 505,180.17 823,537.06 32*23*7,779 N 103*25*9,338 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,730 N 103*25*9,338 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,730 N 103*25*9,338 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7,779 N 103*25*8,332 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,586.2 W 32*37*7,48 N 103*25*8,332 | | | | | | | , | | | |
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| 6,500.0 15.00 92.56 6,363.7 -47.8 1,067.1 505.190.59 23.304.36 32° 23° 7.902 N 103° 25° 11.646 W 16,700.0 15.00 92.56 6,556.9 -50.1 1,118.8 505.188.27 823,361.67 32° 23° 7.874 N 103° 25° 11.043 W 6,800.0 15.00 92.56 6,556.9 -50.1 1,118.8 505.188.27 823,361.67 32° 23° 7.874 N 103° 25° 11.043 W 6,000.0 15.00 92.56 6,750.1 -52.4 1,170.5 505.180.50 823,407.78 32° 23° 7.874 N 103° 25° 10.742 W 7,700.0 15.00 92.56 6,846.6 -53.6 1,194.5 505.188.60 823,407.78 32° 23° 7.833 N 103° 25° 10.440 W 7,700.0 15.00 92.56 6,846.2 -44.7 1,222.3 505.183.64 823,435.49 32° 23° 7.803 N 103° 25° 10.430 W 7,700.0 15.00 92.56 7,038.8 -55.9 1,248.1 505.182.46 823,435.49 32° 23° 7.800 N 103° 25° 9.838 W 7,200.0 15.00 92.56 7,038.8 -55.9 1,248.1 505.182.46 823,435.49 32° 23° 7.800 N 103° 25° 9.838 W 7,200.0 15.00 92.56 7,233.0 -58.2 1,229.8 505.180.17 823,550.2 32° 23° 7.780 N 103° 25° 9.838 W 7,200.0 15.00 92.56 7,233.0 -58.2 1,229.8 505.180.17 823,550.2 32° 23° 7.779 N 103° 25° 9.838 W 7,500.0 15.00 92.56 7,232.6 -59.4 1,325° 505.179.01 823,550.2 32° 23° 7.775 N 103° 25° 8.832 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.85 823,587.77 32° 23° 7.775 N 103° 25° 8.832 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.85 823,687.7 32° 23° 7.775 N 103° 25° 8.831 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.85 823,687.7 32° 23° 7.775 N 103° 25° 8.831 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.85 823,687.7 32° 23° 7.755 N 103° 25° 8.831 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.55 4823,640.8 32° 23° 7.755 N 103° 25° 8.831 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.55 4823,640.8 32° 23° 7.755 N 103° 25° 8.632 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.55 4823,640.8 32° 23° 7.765 N 103° 25° 8.632 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.55 4823,640.8 32° 23° 7.765 N 103° 25° 8.632 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.5 80.2 32.3 7.744 N 103° 25° 7.726 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505.177.5 802.3 100° 22° 23° 7.760 N 103° 25° 7.726 W 7,500.0 15.00 92.56 7 | | | | | | | , | | | |
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| 6,700.0 15.00 92.56 6,556.9 -50.1 1,118.8 505,188.27 823,356.07 32°23°7.874 N 103°25°1.0742 W 6,900.0 15.00 92.56 6,750.1 -52.4 1,170.5 505,185.96 823,407.78 22°23°7.837 N 103°25°1.0742 W 7,700.0 15.00 92.56 6,943.2 -54.7 1,222.3 505,183.64 823,459.49 32°23°7.837 N 103°25°1.0139 W 7,700.0 15.00 92.56 7,059.8 -55.9 1,248.1 505,182.48 823,459.49 32°23°7.820 N 103°25°1.039 W 7,700.0 15.00 92.56 7,059.8 -55.9 1,248.1 505,182.48 823,459.49 32°23°7.820 N 103°25°1.039 W 7,700.0 15.00 92.56 7,736.4 -57.1 1,274.0 505,181.33 823,511.20 32°23°7.730 N 103°25°1.938 W 7,700.0 15.00 92.56 7,233.0 -58.2 1,299.8 505,180.17 823,537.06 32°23°7.759 N 103°25°1.938 W 7,7500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,170.0 182,565.9 22°23°7.750 N 103°25°1.033 W 7,7500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,580.9 22°23°7.750 N 103°25°1.833 W 7,7500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,580.9 22°23°7.750 N 103°25°1.833 W 7,7500.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,175.54 823,640.48 32°23°7.750 N 103°25°1.728 W 7,800.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,175.54 823,640.48 32°23°7.750 N 103°25°7.728 W 7,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.5 823,002.7 22°23°7.750 N 103°25°7.728 W 7,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.72 823,002.7 22°23°7.750 N 103°25°7.728 W 7,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.75 823,002.7 22°23°7.750 N 103°25°7.728 W 8,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.75 823,002.7 22°23°7.750 N 103°25°7.728 W 8,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.75 823,002.7 22°23°7.750 N 103°25°7.728 W 8,800.0 15.00 92.56 7,812.9 -66.5 1,465.5 505,172.75 823,002.7 22°23°7.750 N 103°25°7.728 W 8,800.0 13.81 92.56 8,800.0 8,800.0 9,80 | | | | | | | | | | |
| 6,800.0 15.00 92.56 6,653.5 -51.3 1,144.7 505,187.12 823,381.92 32.237.861 N 103° 25° 10.440 W 7,000.0 15.00 92.56 6,684.6 -53.6 1,106.4 505,184.80 823,433.64 32° 23′ 7.831 N 103° 25° 10.440 W 7,000.0 15.00 92.56 6,846.6 -53.6 1,106.4 505,184.80 823,433.64 32° 23′ 7.833 N 103° 25° 10.39 W 7,200.0 15.00 92.56 7,039.8 -55.9 1,248.1 505,182.48 823,485.45 32° 23′ 7.833 N 103° 25° 10.83 W 7,300.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,511.20 32° 23′ 7.769 N 103° 25° 9.838 W 7,300.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,179.01 823,562.92 32° 23′ 7.769 N 103° 25° 8.938 W 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,179.01 823,562.92 32° 23′ 7.769 N 103° 25° 8.938 W 7,700.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,179.01 823,562.92 32° 23′ 7.769 N 103° 25° 8.938 W 7,700.0 15.00 92.56 7,522.8 -61.7 1,377.4 505,178.5 823,588.77 32° 23′ 7.752 N 103° 25° 8.938 W 7,700.0 15.00 92.56 7,522.8 -61.7 1,377.4 505,178.6 823,588.77 32° 23′ 7.752 N 103° 25° 8.938 W 7,800.0 15.00 92.56 7,619.4 62.8 1,403.2 505,178.5 823,640.48 32° 23′ 7.738 N 103° 25° 7.728 W 7,900.0 15.00 92.56 7,812.6 62.8 1,403.2 505,178.5 823,640.48 32° 23′ 7.738 N 103° 25° 7.728 W 7,900.0 15.00 92.56 7,812.6 62.8 1,403.2 505,178.5 823,640.48 32° 23′ 7.764 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 63.0 1,429.1 505,174.38 823,662.4 32° 23′ 7.761 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,640.48 32° 23′ 7.761 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,640.48 32° 23′ 7.761 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,640.48 32° 23′ 7.761 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,700.2 32° 23′ 7.661 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,700.72 32° 23′ 7.661 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,700.0 32° 23′ 7.761 N 103° 25′ 7.728 W 7,900.0 15.00 92.56 7,812.6 65.2 1,455.5 505,172.75 823,700.0 32° 23′ 7.691 N 103° 25′ 7.868 W 7,900.0 13.81 92.56 8,000.8 6- | | | | | | | | | | |
| 6,900.0 15.00 92.56 6,750.1 52.4 1,170.5 505,185.96 823,407.78 32° 23° 7,837 N 103° 25° 10.440 W 7,100.0 15.00 92.56 6,846.6 53.6 1,164.4 505,181.80 823,433.64 32° 23° 7,837 N 103° 25° 10.440 W 7,200.0 15.00 92.56 7,039.8 -55.9 1,248.1 505,182.48 823,459.43 32° 23° 7,820 N 103° 25° 9.338 W 7,300.0 15.00 92.56 7,136.4 -57.1 1,274.0 505,181.33 823,551.20 32° 23° 7,789 N 103° 25° 9.338 W 7,500.0 15.00 92.56 7,233.0 -58.2 1,299.8 505,180.17 823,537.06 32° 23° 7,779 N 103° 25° 8.933 W 7,500.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.90 125,562.92 32° 23° 7,765 N 103° 25° 8.934 7,700.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32° 23° 7,738 N 103° 25° 8.331 W 7,900.0 15.00 92.56 7,619.4 -82.8 1,403.2 505,175.48 823,641.68 32° 23° 7,738 N 103° 25° 8.331 W 7,900.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,666.34 32° 23° 7,714 N 103° 25° 7,728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,602.20 32° 23° 7,746.0 N 103° 25° 7,022 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,602.20 32° 23° 7,748 N 103° 25° 7,022 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,602.20 32° 23° 7,768 N 103° 25° 7,022 W 8,000.0 13.81 92.56 8,006.8 -67.3 1,502.4 505,171.70 823,739.61 32° 23° 7,684 N 103° 25° 7,022 W 8,000.0 13.81 92.56 8,006.8 -67.3 1,502.4 505,171.10 823,759.63 32° 23° 7,684 N 103° 25° 6,854 W 8,000.0 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23° 7,684 N 103° 25° 5,864 W 8,000.0 5,81 92.56 8,006.8 -67.3 1,502.4 505,168.38 823,800.24 32° 23° 7,640 N 103° 25° 5,866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23° 7,640 N 103° 25° 5,866 W 9,000.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.2 | | | | | | | | | | |
| 7,000 | | | | | | • | | , | | |
| 7,100.0 15.00 92.56 6,943.2 -54.7 1,222.3 505,183.64 823,459.49 32° 23° 7,80° N 103° 25° 9.38 W 7,300.0 15.00 92.56 7,339.6 -55.9 1,248.1 505,182.48 823,463.45 32° 23° 7,80° N 103° 25° 9.35 W 7,300.0 15.00 92.56 7,339.6 -58.2 1,299.8 505,180.17 823,537.06 32° 23° 7,779 N 103° 25° 8.83 W 7,500.0 15.00 92.56 7,329.6 -60.5 1,351.5 505,177.91 823,537.06 32° 23° 7,779 N 103° 25° 8.83 W 7,700.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,582.7 32° 23° 7,755 N 103° 25° 8.83 W 7,700.0 15.00 92.56 7,426.2 -60.5 1,351.7 505,177.85 823,582.7 32° 23° 7,755 N 103° 25° 8.83 W 7,800.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,175.54 823,640.48 32° 23° 7,738 N 103° 25° 8.03 W 7,800.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,175.44 823,640.48 32° 23° 7,738 N 103° 25° 8.03 W 7,900.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,175.43 823,640.48 32° 23° 7,714 N 103° 25° 7,728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,640.48 32° 23° 7,714 N 103° 25° 7,728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.20 823,640.48 32° 23° 7,714 N 103° 25° 7,728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.20 823,640.43 22° 23° 7,769 N 103° 25° 8,038 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.20 823,640.43 22° 23° 7,691 N 103° 25° 7,022 W 8,000.0 13.81 92.56 8,806.8 -67.3 1,502.4 505,171.00 823,739.61 32° 23° 7,691 N 103° 25° 7,002 W 8,000.0 13.81 92.56 8,806.8 -67.3 1,502.4 505,171.00 823,739.63 32° 23° 7,662 N 103° 25° 6,572 W 8,500.0 5.81 92.56 8,800.8 8,000.0 9.81 92.56 8,006.8 -67.3 1,502.4 505,171.00 823,739.60 32° 23° 7,662 N 103° 25° 6,572 W 8,500.0 5.81 92.56 8,006.8 -67.3 1,506.4 505,170.20 823,739.60 32° 23° 7,662 N 103° 25° 6,572 W 8,500.0 5.81 92.56 8,006.8 -67.3 1,506.4 505,170.20 823,739.60 32° 23° 7,662 N 103° 25° 6,572 W 8,500.0 5.81 92.56 8,006.8 -67.3 1,506.4 505,170.20 823,739.6 32° 23° 7,662 N 103° 25° 5,657 W 8,500.0 5.81 92.56 8,006.8 -67.3 1,506.4 505,170.20 823,739.6 32° 23° 7,662 N 103° 25° 5,657 W 8,500.0 5.81 92.56 8,006.8 -67.3 1,506.4 505,170.20 823,739.6 32° 23° 7,662 N 103° 25° 5,650 W 8 | | | | | | | · | | | |
| 7,200.0 15,00 92,56 7,038,8 -55,9 1,248,1 505,182,138 823,485,35 32°,23°,7866 N 103°,25°,936 W 7,400.0 15,00 92,56 7,233,0 -58,2 1,299,8 505,180,17 823,537,06 32°,23°,7779 N 103°,25°,833 W 7,500.0 15,00 92,56 7,232,6 -58,4 1,325,7 505,179,10 823,568,27 22°,23°,7756 N 103°,25°,833 W 7,600.0 15,00 92,56 7,252,8 -61,7 1,377,4 505,176,69 823,614,63 32°,23°,7738 N 103°,25°,833 W 7,700.0 15,00 92,56 7,522,8 -61,7 1,377,4 505,176,69 823,614,63 32°,23°,7738 N 103°,25°,833 W 7,900.0 15,00 92,56 7,716,0 -64,0 1,493,1 505,176,348 823,664,48 32°,23°,7738 N 103°,25°,728 W 7,900.0 15,00 92,56 7,812,6 -65,2 1,455,0 505,174,38 823,702,72 32°,27°,768 N 103°,25°,728 W 8,000.0 1,403,2 505,172,75 505,172,29 823,702,72< | | | | | | | · | | | |
| 7,300.0 15.00 92.56 7,334.6 -57.1 1,274.0 505,181.33 823,511.20 32° 23' 7,783 N 103° 25' 8,933 W 7,500.0 15.00 92.56 7,233.0 -58.2 1,299.8 505,180.17 823,562.92 32' 37.776 N 103° 25' 8,632 W 7,600.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32° 23' 7,752 N 103° 25' 8,632 W 7,700.0 15.00 92.56 7,522.8 -61.7 1,377.4 505,176.58 823,588.77 32° 23' 7,752 N 103° 25' 8,832 W 7,800.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,176.58 823,588.77 32° 23' 7,752 N 103° 25' 8,802 W 7,900.0 15.00 92.56 7,716.0 -64.0 1,429.1 505,174.38 823,666.34 32° 23' 7,724 N 103° 25' 7,246 W 8,000.0 15.00 92.56 7,815.6 -66.2 1,455.0 505,173.22 823,662.34 32° 23' 7,769 N 103° 25' 7,246 W 8,000.0 15.00 92.56 7,815.9 -65.6 1,465.5 505,172.09 82,366.34 32° 23' 7,697 N 103° 25' 7,125 W 8,040.7 15.00 92.56 7,851.9 -65.6 1,465.5 505,172.05 823,702.72 32° 23' 7,691 N 103° 25' 7,125 W 8,200.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.0 823,739.61 32° 23' 7,694 N 103° 25' 6,534 W 8,200.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.0 823,739.61 32° 23' 7,664 N 103° 25' 6,545 W 8,400.0 7.81 92.56 8,203.9 -68.1 1,536.4 505,170.26 823,773.66 32° 23' 7,664 N 103° 25' 6,354 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23' 7,664 N 103° 25' 6,354 W 8,500.0 3.81 92.56 8,402.8 -69.7 1,561.0 505,168.67 823,793.90 32° 23' 7,664 N 103° 25' 6,354 W 8,500.0 3.81 92.56 8,402.8 -69.7 1,561.0 505,168.68 823,793.90 32° 23' 7,648 N 103° 25' 5,364 W 8,700.0 1.81 92.56 8,402.8 -69.7 1,561.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 8,900.0 0.00 0.00 8,502.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 9,000.0 0.00 0.00 8,502.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 9,400.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7,640 N 103° 25' 5,866 W 9,400.0 3.62 179.65 9,227.6 -7 | | | 92.56 | | -55.9 | | | 823,485.35 | | |
| 7,500.0 15.00 92.56 7,329.6 -59.4 1,325.7 505,179.01 823,582.92 32*23*7.765 N 103*25*8.632 W 7,600.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,588.77 32*23*7.752 N 103*25*8.331 W 7,700.0 15.00 92.56 7,522.8 -61.7 1,377.4 505,176.58 823,614.63 32*23*7.738 N 103*25*8.632 W 7,900.0 15.00 92.56 7,619.4 -62.8 1,403.2 505,175.54 823,640.48 32*23*7.724 N 103*25*7.728 W 8,000.0 15.00 92.56 7,716.0 -64.0 1,429.1 505,174.38 823,666.34 32*23*7.724 N 103*25*7.428 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,666.34 32*23*7.691 N 103*25*7.125 W 8,040.7 15.00 92.56 7,812.6 -65.6 1,465.5 505,173.22 823,692.20 32*23*7.691 N 103*25*7.125 W 8,000.0 13.81 92.56 7,993.3 -66.3 1,480.2 505,172.75 823,702.72 32*23*7.691 N 103*25*7.002 W 8,100.0 13.81 92.56 8,006.8 -67.3 1,502.4 505,171.0 823,793.61 32*23*7.694 N 103*25*6.831 W 8,200.0 11.81 92.56 8,006.8 -66.1 1,521.1 505,170.20 823,717.46 32*23*7.692 N 103*25*6.572 W 8,400.0 7.81 92.56 8,203.9 -68.8 1,1536.4 505,172.09 823,713.66 32*23*7.664 N 103*25*6.572 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,785.56 32*23*7.648 N 103*25*6.037 W 8,500.0 3.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,785.50 32*23*7.648 N 103*25*6.037 W 8,500.0 3.81 92.56 8,502.7 -69.9 1,561.6 505,168.45 823,783.80 32*23*7.648 N 103*25*5.940 W 8,700.0 1.81 92.56 8,502.7 -69.9 1,561.6 505,168.45 823,789.80 32*23*7.641 N 103*25*5.866 W 8,900.0 0.00 8,593.4 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,000.0 0.00 8,593.4 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,100.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,400.0 0.00 0.00 9,222.5 -70.0 1,563.0 505,168.38 823,800.24 32*23*7.640 N 103*25*5.866 W 9,450.0 362 179.65 9,252.6 -7 | 7,300.0 | 15.00 | 92.56 | | -57.1 | 1,274.0 | 505,181.33 | 823,511.20 | 32° 23' 7.793 N | 103° 25' 9.235 W |
| 7,600.0 15.00 92.56 7,426.2 -60.5 1,351.5 505,177.85 823,687.7 32°23°7.752 N 103°25′8.831 W 7,700.0 15.00 92.56 7,519.4 -62.8 1,403.2 505,175.69 823,614.63 32°23°7.738 N 103°25′8.029 W 7,900.0 15.00 92.56 7,716.0 -64.0 1,429.1 505,174.38 823,660.34 32°23°7.71 N 103°25′7.728 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.38 823,660.34 32°23°7.71 N 103°25′7.728 W 8,040.7 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.8 823,002.0 32°23°7.71 N 103°25′7.426 W 8,040.7 15.00 92.56 7,851.9 -65.6 1,465.5 505,172.75 823,702.72 32°23°7.691 N 103°25′7.25 W 8,100.0 13.81 92.56 8,006.8 -67.3 1,800.2 505,171.0 823,739.61 32°23°7.694 N 103°25′7.002 W 8,200.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.0 823,739.61 32°23°7.662 N 103°25′6.572 W 8,300.0 9.81 92.56 8,105.0 -68.1 1,521.1 505,170.26 823,758.36 32°23°7.662 N 103°25′6.354 W 8,400.0 7.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32°23°7.664 N 103°25′6.075 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32°23°7.644 N 103°25′6.075 W 8,500.0 5.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,785.5 23°23°7.644 N 103°25′5.940 W 8,700.0 1.81 92.56 8,602.7 -69.9 1,556.6 505,168.38 823,800.24 32°23°7.640 N 103°25′5.940 W 8,700.0 1.81 92.56 8,602.7 -69.9 1,556.6 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 8,900.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,200.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,450.0 3.62 179.65 9,225.6 -71.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,450.0 3.62 179.65 9,225.6 -71.0 1,563.0 505,168.38 823,800.24 32°23°7.640 N 103°25′5.866 W 9,550.0 12.62 179.65 9,225.6 | 7,400.0 | 15.00 | 92.56 | 7,233.0 | -58.2 | 1,299.8 | 505,180.17 | 823,537.06 | | |
| 7,700.0 | 7,500.0 | 15.00 | 92.56 | 7,329.6 | -59.4 | 1,325.7 | 505,179.01 | 823,562.92 | 32° 23′ 7.765 N | 103° 25' 8.632 W |
| 7,800.0 | | | | | | | · | | | |
| 7,900.0 15.00 92.56 7,716.0 -64.0 1,429.1 505,174.38 823,666.34 32° 23° 7.711 N 103° 25° 7.426 W 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,692.20 32° 23° 7.697 N 103° 25° 7.125 W 8,000.0 13.81 92.56 7,891.9 -66.6 1,465.5 505,172.09 823,717.46 32° 23° 7.684 N 103° 25° 7.002 W 8,000.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.0 823,773.66 32° 23° 7.684 N 103° 25° 6.572 W 8,300.0 9.81 92.56 8,105.0 -68.1 1,502.4 505,171.0 823,773.66 32° 23° 7.662 N 103° 25° 6.572 W 8,400.0 7.81 92.56 8,003.1 -69.3 1,548.3 505,169.57 823,773.66 32° 23° 7.654 N 103° 25° 6.574 W 8,600.0 3.81 92.56 8,002.1 -69.9 1,561.6 505,169.57 823,773.66 32° 23° 7.644 N 103° 25° 5.940 W 8,700.0 1.81 92.56 8,402.8 -69.7 1,563.0 505,168.45 | | | | | | | · | , | | |
| 8,000.0 15.00 92.56 7,812.6 -65.2 1,455.0 505,173.22 823,692.20 32° 23′ 7.697 N 103° 25′ 7.125 W 8,040.7 15.00 92.56 7,999.3 -65.6 1,465.5 505,172.75 823,702.72 32° 23′ 7.691 N 103° 25′ 7.020 W 8,000.0 13.81 92.56 8,006.8 -67.3 1,502.4 505,171.10 823,717.46 32° 23′ 7.684 N 103° 25′ 6.831 W 8,200.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.10 823,739.61 32° 23′ 7.662 N 103° 25′ 6.572 W 8,300.0 9.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23′ 7.662 N 103° 25′ 6.572 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23′ 7.662 N 103° 25′ 6.475 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23′ 7.648 N 103° 25′ 6.475 W 8,500.0 3.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,773.66 32° 23′ 7.648 N 103° 25′ 6.037 W 8,600.0 3.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,773.69 32° 23′ 7.648 N 103° 25′ 5.862 W 8,790.7 0.00 0.00 8,593.4 -70.0 1,563.0 505,168.36 823,800.24 32° 23′ 7.640 N 103° 25′ 5.882 W 8,790.7 0.00 0.00 8,602.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,100.0 0.00 0.00 8,902.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,300.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,405.0 0.62 179.65 9,252.6 -71.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 162 179.65 9,252.6 -71.0 1,5 | | | | | | | · | • | | |
| 8,040.7 15.00 92.56 7,851.9 -65.6 1,465.5 505,172.75 823,702.72 32° 23′ 7,691 N 103° 25′ 7,002 W 8,100.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.10 823,739.61 32° 23′ 7,672 N 103° 25′ 6,6572 W 8,300.0 9,81 92.56 8,105.0 -68.1 1,521.1 505,170.26 823,739.61 32° 23′ 7,662 N 103° 25′ 6,6572 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23′ 7,662 N 103° 25′ 6,354 W 8,500.0 5.81 92.56 8,303.1 -69.3 1,548.3 505,169.57 823,773.66 32° 23′ 7,648 N 103° 25′ 6,354 W 8,500.0 5.81 92.56 8,402.8 -69.7 1,556.7 505,168.04 823,785.52 32° 23′ 7,648 N 103° 25′ 6,037 W 8,700.0 1.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,793.90 32° 23′ 7,644 N 103° 25′ 5,940 W 8,700.0 1.81 92.56 8,502.7 -69.9 1,561.6 505,168.45 823,798.80 32° 23′ 7,644 N 103° 25′ 5,940 W 8,700.0 0.00 8,593.4 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,000.0 0.00 8,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,100.0 0.00 0.00 8,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,200.0 0.00 0.00 8,902.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,400.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,450.0 3,62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,450.0 3,62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,450.0 3,62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,450.0 3,62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7,640 N 103° 25′ 5,866 W 9,450.0 3,62 179.65 9,227.6 -70.0 1,563.0 | | | | | | • | · | • | | |
| 8,100.0 | | | | | | | | | | |
| 8,200.0 11.81 92.56 8,006.8 -67.3 1,502.4 505,171.10 823,739.61 32° 23' 7.672 N 103° 25' 6.572 W 8,400.0 7.81 92.56 8,105.0 -68.1 1,521.1 505,170.26 823,758.36 32° 23' 7.662 N 103° 25' 6.354 W 8,500.0 5.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,778.62 32° 23' 7.664 N 103° 25' 6.037 W 8,600.0 3.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,778.90 32° 23' 7.643 N 103° 25' 6.037 W 8,790.7 0.00 1.81 92.56 8,502.7 -69.9 1,561.6 505,168.67 823,793.90 32° 23' 7.641 N 103° 25' 5.866 W 8,800.0 0.00 0.00 8,593.4 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7.640 N 103° 25' 5.866 W 8,900.0 0.00 0.00 8,702.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23' 7.640 N 103° 25' 5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38< | | | | | | | | | | |
| 8,300.0 9.81 92.56 8,105.0 -68.1 1,521.1 505,170.26 823,758.36 32° 23′ 7.662 N 103° 25′ 6.354 W 8,400.0 7.81 92.56 8,203.9 -68.8 1,536.4 505,169.57 823,773.66 32° 23′ 7.664 N 103° 25′ 6.375 W 8,500.0 5.81 92.56 8,402.8 -69.7 1,556.7 505,168.67 823,773.66 32° 23′ 7.644 N 103° 25′ 5.940 W 8,600.0 3.81 92.56 8,502.7 -69.9 1,561.6 505,168.67 823,798.90 32° 23′ 7.641 N 103° 25′ 5.940 W 8,700.0 1.81 92.56 8,502.7 -69.9 1,561.6 505,168.45 823,798.80 32° 23′ 7.641 N 103° 25′ 5.862 W 8,790.7 0.00 0.00 8,593.4 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 8,800.0 0.00 0.00 8,602.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,000.0 0.00 0.00 8,802.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 8,902.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,200.0 0.00 0.00 9,002.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,400.0 0.00 0.00 9,202.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,450.0 3.62 179.65 9,227.6 -70.0 1,563.0 505,168.38 823,800.24 32° 23′ 7.640 N 103° 25′ 5.866 W 9,555.0 12.62 179.65 9,351.0 -86.5 | | | | | | • | · | • | | |
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| 9,575.0 18.62 179.65 9,374.9 -95.0 1,563.2 505,143.40 823,800.39 32° 23' 7.393 N 103° 25' 5.866 W 9,600.0 21.62 179.65 9,398.4 -103.6 1,563.2 505,134.80 823,800.44 32° 23' 7.308 N 103° 25' 5.867 W 9,625.0 24.62 179.65 9,421.4 -113.4 1,563.3 505,124.98 823,800.50 32° 23' 7.211 N 103° 25' 5.867 W 9,650.0 27.62 179.65 9,443.8 -124.4 1,563.3 505,113.98 823,800.57 32° 23' 7.102 N 103° 25' 5.867 W | | | | | | | • | • | | |
| 9,600.0 21.62 179.65 9,398.4 -103.6 1,563.2 505,134.80 823,800.44 32° 23' 7.308 N 103° 25' 5.867 W 9,625.0 24.62 179.65 9,421.4 -113.4 1,563.3 505,124.98 823,800.50 32° 23' 7.211 N 103° 25' 5.867 W 9,650.0 27.62 179.65 9,443.8 -124.4 1,563.3 505,113.98 823,800.57 32° 23' 7.102 N 103° 25' 5.867 W | , | | | • | | , | • | • | | |
| 9,625.0 24.62 179.65 9,421.4 -113.4 1,563.3 505,124.98 823,800.50 32° 23' 7.211 N 103° 25' 5.867 W 9,650.0 27.62 179.65 9,443.8 -124.4 1,563.3 505,113.98 823,800.57 32° 23' 7.102 N 103° 25' 5.867 W | | | | | | | | | | |
| 9,650.0 27.62 179.65 9,443.8 -124.4 1,563.3 505,113.98 823,800.57 32° 23' 7.102 N 103° 25' 5.867 W | | | | | | | · | • | | |
| | | | | | | | • | • | | |
| 5,5.5.5 55.5E 115.55 5,165.1 165.5 1,655.1 000,101.0E 0E0,000.00 0E E0 0.00114 100 E0 0.000 W | 9,675.0 | | 179.65 | 9,465.7 | -136.6 | 1,563.4 | 505,101.82 | 823,800.65 | 32° 23' 6.981 N | 103° 25' 5.868 W |

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT
Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

| Planned Surv | ⁄ey | | | | | | | | |
|----------------------|-----------------|------------------|--------------------|----------------------|--------------------|--------------------------|--------------------------|--------------------------------------|--------------------------------------|
| Measured | | | Vertical | | | Мар | Мар | | |
| Depth (usft) | Inclination (°) | Azimuth (°) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 9,700.0 | | 179.65 | 9,486.8 | -149.9 | 1,563.5 | 505,088.53 | 823,800.73 | 32° 23' 6.850 N | 103° 25' 5.868 W |
| 9,700.0 | | 179.65 | 9,507.3 | -149.9 | 1,563.6 | 505,066.55 | 823,800.73 | 32° 23' 6.708 N | 103° 25' 5.868 W |
| 9,750.0 | | 179.65 | 9,527.0 | -179.7 | 1,563.7 | 505,058.72 | 823,800.91 | 32° 23' 6.555 N | 103° 25' 5.869 W |
| 9,775.0 | | 179.65 | 9,545.8 | -196.1 | 1,563.8 | 505,042.28 | 823,801.01 | 32° 23' 6.392 N | 103° 25' 5.869 W |
| 9,800.0 | | 179.65 | 9,563.7 | -213.5 | 1,563.9 | 505,024.88 | 823,801.12 | 32° 23' 6.220 N | 103° 25' 5.870 W |
| 9,825.0 | | | 9,580.7 | -231.8 | 1,564.0 | 505,006.56 | 823,801.23 | 32° 23' 6.039 N | 103° 25' 5.870 W |
| 9,850.0 | 51.62 | 179.65 | 9,596.8 | -251.0 | 1,564.1 | 504,987.38 | 823,801.34 | 32° 23′ 5.849 N | 103° 25' 5.871 W |
| 9,875.0 | | 179.65 | 9,611.8 | -271.0 | 1,564.2 | 504,967.39 | 823,801.47 | 32° 23′ 5.651 N | 103° 25' 5.871 W |
| 9,900.0 | | | 9,625.7 | -291.7 | 1,564.4 | 504,946.63 | 823,801.59 | 32° 23′ 5.446 N | 103° 25' 5.872 W |
| 9,925.0 | | | 9,638.5 | -313.2 | 1,564.5 | 504,925.18 | 823,801.72 | 32° 23' 5.234 N | 103° 25' 5.873 W |
| 9,950.0 | | | 9,650.2 | -335.3 | 1,564.6 | 504,903.09 | 823,801.86 | 32° 23' 5.015 N | 103° 25' 5.873 W |
| 9,975.0 | | | 9,660.8 | -358.0 | 1,564.8 | 504,880.41 | 823,802.00 | 32° 23' 4.791 N | 103° 25' 5.874 W |
| 10,000.0 10,025.0 | | | 9,670.1 9,678.2 | -381.2 -404.8 | 1,564.9 1,565.0 | 504,857.22 504,833.56 | 823,802.14 823,802.28 | 32° 23' 4.561 N 32° 23' 4.327 N | 103° 25' 5.874 W 103° 25' 5.875 W |
| 10,025.0 | | | 9,685.0 | -404.8 -428.9 | 1,565.0 | 504,809.52 | 823,802.43 | 32° 23' 4.089 N | 103° 25' 5.876 W |
| 10,030.0 | | | 9,690.6 | -453.2 | 1,565.3 | 504,785.15 | 823,802.58 | 32° 23' 3.848 N | 103° 25' 5.877 W |
| 10,100.0 | | | 9,694.9 | -477.9 | 1,565.5 | 504,760.53 | 823,802.73 | 32° 23' 3.604 N | 103° 25' 5.877 W |
| 10,125.0 | | 179.65 | 9,697.9 | -502.7 | 1,565.6 | 504,735.71 | 823,802.88 | 32° 23' 3.359 N | 103° 25' 5.878 W |
| 10,150.0 | | 179.65 | 9,699.6 | -527.6 | 1,565.8 | 504,710.77 | 823,803.04 | 32° 23' 3.112 N | 103° 25' 5.879 W |
| 10,169.9 | 90.00 | 179.65 | 9,700.0 | -547.5 | 1,565.9 | 504,690.93 | 823,803.16 | 32° 23′ 2.916 N | 103° 25' 5.879 W |
| 10,200.0 | | 179.65 | 9,700.0 | -577.6 | 1,566.1 | 504,660.78 | 823,803.34 | 32° 23' 2.617 N | 103° 25' 5.880 W |
| 10,300.0 | | 179.65 | 9,700.0 | -677.6 | 1,566.7 | 504,560.78 | 823,803.95 | 32° 23' 1.628 N | 103° 25' 5.883 W |
| 10,400.0 | | 179.65 | 9,700.0 | -777.6 | 1,567.3 | 504,460.78 | 823,804.56 | 32° 23' 0.638 N | 103° 25' 5.886 W |
| 10,500.0 | | 179.65 | 9,700.0 | -877.6 | 1,567.9 | 504,360.78 | 823,805.17 | 32° 22′ 59.649 N | 103° 25' 5.889 W |
| 10,600.0 10,700.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -977.6 -1,077.6 | 1,568.5 1,569.2 | 504,260.79 504,160.79 | 823,805.79 823,806.40 | 32° 22' 58.659 N 32° 22' 57.670 N | 103° 25' 5.891 W 103° 25' 5.894 W |
| 10,800.0 | | 179.65 | 9,700.0 | -1,077.6 -1,177.6 | 1,569.8 | 504,060.79 | 823,807.01 | 32° 22' 56.680 N | 103° 25' 5.897 W |
| 10,900.0 | | 179.65 | 9,700.0 | -1,277.6 | 1,570.4 | 503,960.79 | 823,807.62 | 32° 22' 55.691 N | 103° 25' 5.900 W |
| 11,000.0 | | 179.65 | 9,700.0 | -1,377.6 | 1,571.0 | 503,860.79 | 823,808.23 | 32° 22' 54.701 N | 103° 25' 5.903 W |
| 11,100.0 | | 179.65 | 9,700.0 | -1,477.6 | 1,571.6 | 503,760.80 | 823,808.84 | 32° 22' 53.712 N | 103° 25' 5.906 W |
| 11,200.0 | 90.00 | 179.65 | 9,700.0 | -1,577.6 | 1,572.2 | 503,660.80 | 823,809.45 | 32° 22′ 52.722 N | 103° 25' 5.909 W |
| 11,300.0 | | 179.65 | 9,700.0 | -1,677.6 | 1,572.8 | 503,560.80 | 823,810.06 | 32° 22' 51.733 N | 103° 25' 5.911 W |
| 11,400.0 | | 179.65 | 9,700.0 | -1,777.6 | 1,573.4 | 503,460.80 | 823,810.68 | 32° 22′ 50.743 N | 103° 25' 5.914 W |
| 11,500.0 | | 179.65 | 9,700.0 | -1,877.6 | 1,574.0 | 503,360.80 | 823,811.29 | 32° 22' 49.754 N | 103° 25' 5.917 W |
| 11,600.0 | | 179.65 | 9,700.0 | -1,977.6 | 1,574.7 | 503,260.80 | 823,811.90 | 32° 22' 48.764 N | 103° 25' 5.920 W |
| 11,700.0 | | 179.65 | 9,700.0 | -2,077.6 -2,177.6 | 1,575.3 | 503,160.81 | 823,812.51 | 32° 22' 47.775 N | 103° 25' 5.923 W 103° 25' 5.926 W |
| 11,800.0 11,900.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -2,177.6 -2,277.6 | 1,575.9 1,576.5 | 503,060.81 502,960.81 | 823,813.12 823,813.73 | 32° 22' 46.785 N 32° 22' 45.796 N | 103 25 5.926 W 103° 25' 5.928 W |
| 12,000.0 | | 179.65 | 9,700.0 | -2,377.6 | 1,577.1 | 502,860.81 | 823,814.34 | 32° 22' 44.806 N | 103° 25' 5.931 W |
| 12,100.0 | | 179.65 | 9,700.0 | -2,477.6 | 1,577.7 | 502,760.81 | 823,814.95 | 32° 22' 43.817 N | 103° 25' 5.934 W |
| 12,200.0 | | 179.65 | 9,700.0 | -2,577.6 | 1,578.3 | 502,660.82 | 823,815.57 | 32° 22' 42.827 N | 103° 25' 5.937 W |
| 12,300.0 | 90.00 | 179.65 | 9,700.0 | -2,677.6 | 1,578.9 | 502,560.82 | 823,816.18 | 32° 22' 41.838 N | 103° 25' 5.940 W |
| 12,400.0 | 90.00 | 179.65 | 9,700.0 | -2,777.6 | 1,579.5 | 502,460.82 | 823,816.79 | 32° 22′ 40.849 N | 103° 25' 5.943 W |
| 12,500.0 | | 179.65 | 9,700.0 | -2,877.6 | 1,580.2 | 502,360.82 | 823,817.40 | 32° 22' 39.859 N | 103° 25' 5.946 W |
| 12,600.0 | | 179.65 | 9,700.0 | -2,977.6 | 1,580.8 | 502,260.82 | 823,818.01 | 32° 22' 38.870 N | 103° 25' 5.948 W |
| 12,700.0 | | 179.65 | 9,700.0 | -3,077.6 | 1,581.4 | 502,160.83 | 823,818.62 | 32° 22' 37.880 N | 103° 25' 5.951 W |
| 12,800.0 | | 179.65 | 9,700.0 | -3,177.6 | 1,582.0 | 502,060.83 | 823,819.23 | 32° 22′ 36.891 N | 103° 25' 5.954 W |
| 12,900.0 13,000.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -3,277.6 -3,377.6 | 1,582.6 1,583.2 | 501,960.83 501,860.83 | 823,819.84 823,820.46 | 32° 22' 35.901 N 32° 22' 34.912 N | 103° 25' 5.957 W 103° 25' 5.960 W |
| 13,100.0 | | 179.65 | 9,700.0 | -3,477.5 | 1,583.8 | 501,760.83 | 823,821.07 | 32° 22' 33.922 N | 103° 25' 5.963 W |
| 13,200.0 | | 179.65 | 9,700.0 | -3,577.5 | 1,584.4 | 501,660.83 | 823,821.68 | 32° 22' 32.933 N | 103° 25' 5.965 W |
| 13,300.0 | | 179.65 | 9,700.0 | -3,677.5 | 1,585.1 | 501,560.84 | 823,822.29 | 32° 22' 31.943 N | 103° 25' 5.968 W |
| 13,400.0 | | 179.65 | 9,700.0 | -3,777.5 | 1,585.7 | 501,460.84 | 823,822.90 | 32° 22' 30.954 N | 103° 25' 5.971 W |
| 13,500.0 | | 179.65 | 9,700.0 | -3,877.5 | 1,586.3 | 501,360.84 | 823,823.51 | 32° 22' 29.964 N | 103° 25' 5.974 W |
| 13,600.0 | 90.00 | 179.65 | 9,700.0 | -3,977.5 | 1,586.9 | 501,260.84 | 823,824.12 | 32° 22' 28.975 N | 103° 25' 5.977 W |

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

| Planned Surv | rey | | | | | | | | |
|-----------------------------|--------------------|------------------|-----------------------------|----------------------|--------------------|---------------------------|--------------------------|--------------------------------------|--------------------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 13,700.0 | | 179.65 | 9,700.0 | -4,077.5 | 1,587.5 | 501,160.84 | 823,824.73 | 32° 22' 27.985 N | 103° 25' 5.980 W |
| 13,800.0 | | 179.65 | 9,700.0 | -4,177.5 | 1,588.1 | 501,060.85 | 823,825.35 | 32° 22' 26.996 N | 103° 25' 5.983 W |
| 13,900.0 | | 179.65 | 9,700.0 | -4,277.5 | 1,588.7 | 500,960.85 | 823,825.96 | 32° 22' 26.006 N | 103° 25' 5.985 W |
| 14,000.0 | | 179.65 | 9,700.0 | -4,377.5 | 1,589.3 | 500,860.85 | 823,826.57 | 32° 22' 25.017 N | 103° 25' 5.988 W |
| 14,100.0 | | 179.65 | 9,700.0 | -4,477.5 | 1,589.9 | 500,760.85 | 823,827.18 | 32° 22' 24.027 N | 103° 25' 5.991 W |
| 14,200.0 | | 179.65 | 9,700.0 | -4,577.5 | 1,590.6 | 500,660.85 | 823,827.79 | 32° 22′ 23.038 N | 103° 25' 5.994 W 103° 25' 5.997 W |
| 14,300.0 14,400.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -4,677.5 -4,777.5 | 1,591.2 1,591.8 | 500,560.86 500,460.86 | 823,828.40 823,829.01 | 32° 22' 22.048 N 32° 22' 21.059 N | 103 25 5.997 W 103° 25' 6.000 W |
| 14,500.0 | | 179.65 | 9,700.0 | -4,777.5 -4,877.5 | 1,592.4 | 500,360.86 | 823,829.62 | 32° 22' 20.069 N | 103° 25' 6.002 W |
| 14,600.0 | | 179.65 | 9,700.0 | -4,977.5 | 1,593.0 | 500,260.86 | 823,830.24 | 32° 22' 19.080 N | 103° 25' 6.005 W |
| 14,700.0 | | 179.65 | 9,700.0 | -5,077.5 | 1,593.6 | 500,160.86 | 823,830.85 | 32° 22' 18.090 N | 103° 25' 6.008 W |
| 14,800.0 | | 179.65 | 9,700.0 | -5,177.5 | 1,594.2 | 500,060.86 | 823,831.46 | 32° 22' 17.101 N | 103° 25' 6.011 W |
| 14,900.0 | 90.00 | 179.65 | 9,700.0 | -5,277.5 | 1,594.8 | 499,960.87 | 823,832.07 | 32° 22' 16.111 N | 103° 25' 6.014 W |
| 15,000.0 | | 179.65 | 9,700.0 | -5,377.5 | 1,595.4 | 499,860.87 | 823,832.68 | 32° 22' 15.122 N | 103° 25' 6.017 W |
| 15,100.0 | | 179.65 | 9,700.0 | -5,477.5 | 1,596.1 | 499,760.87 | 823,833.29 | 32° 22' 14.132 N | 103° 25' 6.019 W |
| 15,200.0 | | 179.65 | 9,700.0 | -5,577.5 | 1,596.7 | 499,660.87 | 823,833.90 | 32° 22' 13.143 N | 103° 25' 6.022 W |
| 15,300.0 | | 179.65 | 9,700.0 | -5,677.5 | 1,597.3 | 499,560.87 | 823,834.51 | 32° 22′ 12.153 N | 103° 25' 6.025 W |
| 15,400.0 15,500.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -5,777.5 -5,877.5 | 1,597.9 1,598.5 | 499,460.88 499,360.88 | 823,835.13 823,835.74 | 32° 22' 11.164 N 32° 22' 10.174 N | 103° 25' 6.028 W 103° 25' 6.031 W |
| 15,600.0 | | 179.65 | 9,700.0 | -5,677.5 -5,977.5 | 1,599.1 | 499,260.88 | 823,836.35 | 32° 22' 9.185 N | 103° 25' 6.034 W |
| 15,700.0 | | 179.65 | 9,700.0 | -6,077.5 | 1,599.7 | 499,160.88 | 823,836.96 | 32° 22' 8.195 N | 103° 25' 6.037 W |
| 15,800.0 | | 179.65 | 9,700.0 | -6,177.5 | 1,600.3 | 499,060.88 | 823,837.57 | 32° 22' 7.206 N | 103° 25' 6.039 W |
| 15,900.0 | | 179.65 | 9,700.0 | -6,277.5 | 1,600.9 | 498,960.88 | 823,838.18 | 32° 22' 6.216 N | 103° 25' 6.042 W |
| 16,000.0 | | 179.65 | 9,700.0 | -6,377.5 | 1,601.6 | 498,860.89 | 823,838.79 | 32° 22' 5.227 N | 103° 25' 6.045 W |
| 16,100.0 | 90.00 | 179.65 | 9,700.0 | -6,477.5 | 1,602.2 | 498,760.89 | 823,839.40 | 32° 22' 4.237 N | 103° 25' 6.048 W |
| 16,200.0 | | 179.65 | 9,700.0 | -6,577.5 | 1,602.8 | 498,660.89 | 823,840.01 | 32° 22′ 3.248 N | 103° 25' 6.051 W |
| 16,300.0 | | 179.65 | 9,700.0 | -6,677.5 | 1,603.4 | 498,560.89 | 823,840.63 | 32° 22' 2.258 N | 103° 25' 6.054 W |
| 16,400.0 | | 179.65 | 9,700.0 | -6,777.5 | 1,604.0 | 498,460.89 | 823,841.24 | 32° 22' 1.269 N | 103° 25' 6.056 W |
| 16,500.0 | | 179.65 | 9,700.0 | -6,877.5 | 1,604.6 | 498,360.90 | 823,841.85 | 32° 22' 0.279 N | 103° 25' 6.059 W |
| 16,600.0 16,700.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -6,977.5 -7,077.5 | 1,605.2 1,605.8 | 498,260.90 498,160.90 | 823,842.46 823,843.07 | 32° 21' 59.290 N 32° 21' 58.300 N | 103° 25' 6.062 W 103° 25' 6.065 W |
| 16,800.0 | | 179.65 | 9,700.0 | -7,077.5 -7,177.5 | 1,606.4 | 498,060.90 | 823,843.68 | 32° 21' 57.311 N | 103° 25' 6.068 W |
| 16,900.0 | | 179.65 | 9,700.0 | - 7,277.5 | 1,607.1 | 497,960.90 | 823,844.29 | 32° 21' 56.321 N | 103° 25' 6.071 W |
| 17,000.0 | | 179.65 | 9,700.0 | -7,377.5 | 1,607.7 | 497,860.91 | 823,844.90 | 32° 21' 55.332 N | 103° 25' 6.073 W |
| 17,100.0 | 90.00 | 179.65 | 9,700.0 | -7,477.5 | 1,608.3 | 497,760.91 | 823,845.52 | 32° 21' 54.342 N | 103° 25' 6.076 W |
| 17,200.0 | 90.00 | 179.65 | 9,700.0 | -7,577.5 | 1,608.9 | 497,660.91 | 823,846.13 | 32° 21' 53.353 N | 103° 25' 6.079 W |
| 17,300.0 | | 179.65 | 9,700.0 | -7,677.5 | 1,609.5 | 497,560.91 | 823,846.74 | 32° 21' 52.364 N | 103° 25' 6.082 W |
| 17,400.0 | | 179.65 | 9,700.0 | -7,777.5 | 1,610.1 | 497,460.91 | 823,847.35 | 32° 21' 51.374 N | 103° 25' 6.085 W |
| 17,500.0 | | 179.65 | 9,700.0 | -7,877.5 | 1,610.7 | 497,360.91 | 823,847.96 | 32° 21' 50.385 N | 103° 25' 6.088 W |
| 17,600.0 | | 179.65 | 9,700.0 9,700.0 | -7,977.5 | 1,611.3 | 497,260.92 | 823,848.57 823,849.18 | 32° 21' 49.395 N 32° 21' 48.406 N | 103° 25' 6.091 W 103° 25' 6.093 W |
| 17,700.0 17,800.0 | | 179.65 179.65 | 9,700.0 | -8,077.5 -8,177.5 | 1,611.9 1,612.6 | 497,160.92 497,060.92 | 823,849.79 | 32° 21' 47.416 N | 103° 25' 6.096 W |
| 17,900.0 | | 179.65 | 9,700.0 | -8,277.5 | 1,613.2 | 496,960.92 | 823,850.41 | 32° 21' 46.427 N | 103° 25' 6.099 W |
| 18,000.0 | | 179.65 | 9,700.0 | -8,377.5 | 1,613.8 | 496,860.92 | 823,851.02 | 32° 21' 45.437 N | 103° 25' 6.102 W |
| 18,100.0 | | 179.65 | 9,700.0 | -8,477.5 | 1,614.4 | 496,760.93 | 823,851.63 | 32° 21' 44.448 N | 103° 25' 6.105 W |
| 18,200.0 | | 179.65 | 9,700.0 | -8,577.5 | 1,615.0 | 496,660.93 | 823,852.24 | 32° 21' 43.458 N | 103° 25' 6.108 W |
| 18,300.0 | 90.00 | 179.65 | 9,700.0 | -8,677.5 | 1,615.6 | 496,560.93 | 823,852.85 | 32° 21' 42.469 N | 103° 25' 6.110 W |
| 18,400.0 | | 179.65 | 9,700.0 | -8,777.4 | 1,616.2 | 496,460.93 | 823,853.46 | 32° 21' 41.479 N | 103° 25' 6.113 W |
| 18,500.0 | | 179.65 | 9,700.0 | -8,877.4 | 1,616.8 | 496,360.93 | 823,854.07 | 32° 21' 40.490 N | 103° 25' 6.116 W |
| 18,600.0 | | 179.65 | 9,700.0 | -8,977.4 | 1,617.4 | 496,260.94 | 823,854.68 | 32° 21' 39.500 N | 103° 25' 6.119 W |
| 18,700.0 | | 179.65 | 9,700.0 | -9,077.4 0.177.4 | 1,618.1 | 496,160.94 | 823,855.30 | 32° 21' 38.511 N | 103° 25' 6.122 W |
| 18,800.0 18,900.0 | | 179.65 179.65 | 9,700.0 9,700.0 | -9,177.4 -9,277.4 | 1,618.7 1,619.3 | 496,060.94 495,960.94 | 823,855.91 823,856.52 | 32° 21' 37.521 N 32° 21' 36.532 N | 103° 25' 6.125 W 103° 25' 6.127 W |
| 19,000.0 | | 179.65 | 9,700.0 | -9,277.4 -9,377.4 | 1,619.3 | 495,860.94 | 823,857.13 | 32° 21' 35.542 N | 103° 25' 6.130 W |
| 19,100.0 | | 179.65 | 9,700.0 | -9,477.4 -9,477.4 | 1,620.5 | 495,760.94 | 823,857.74 | 32° 21' 34.553 N | 103° 25' 6.133 W |
| .0,100.0 | 00.00 | 0.00 | 5,700.0 | ٠, | .,020.0 | | 0_0,001.14 | == =: 51.00014 | .00 _0 0.100 W |

Database: Compass_17
Company: NEW MEXICO
Project: (SP) LEA

Site: AIRSTREAM 24 ST COM PROJECT Well: AIRSTREAM 24 ST COM 304H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well AIRSTREAM 24 ST COM 304H

KB @ 3540.0usft KB @ 3540.0usft

Grid

| Planned Surv | еу | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|------------------|-----------------|---------------------------|--------------------------|------------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 19,200.0 | 90.00 | 179.65 | 9,700.0 | -9,577.4 | 1,621.1 | 495,660.95 | 823,858.35 | 32° 21' 33.563 N | 103° 25' 6.136 W |
| 19,300.0 | 90.00 | 179.65 | 9,700.0 | -9,677.4 | 1,621.7 | 495,560.95 | 823,858.96 | 32° 21' 32.574 N | 103° 25' 6.139 W |
| 19,400.0 | 90.00 | 179.65 | 9,700.0 | - 9,777.4 | 1,622.3 | 495,460.95 | 823,859.57 | 32° 21' 31.584 N | 103° 25' 6.142 W |
| 19,500.0 | 90.00 | 179.65 | 9,700.0 | -9,877.4 | 1,622.9 | 495,360.95 | 823,860.19 | 32° 21' 30.595 N | 103° 25' 6.144 W |
| 19,600.0 | 90.00 | 179.65 | 9,700.0 | -9,977.4 | 1,623.6 | 495,260.95 | 823,860.80 | 32° 21' 29.605 N | 103° 25' 6.147 W |
| 19,700.0 | 90.00 | 179.65 | 9,700.0 | -10,077.4 | 1,624.2 | 495,160.96 | 823,861.41 | 32° 21' 28.616 N | 103° 25' 6.150 W |
| 19,800.0 | 90.00 | 179.65 | 9,700.0 | -10,177.4 | 1,624.8 | 495,060.96 | 823,862.02 | 32° 21' 27.626 N | 103° 25' 6.153 W |
| 19,900.0 | 90.00 | 179.65 | 9,700.0 | -10,277.4 | 1,625.4 | 494,960.96 | 823,862.63 | 32° 21' 26.637 N | 103° 25' 6.156 W |
| 20,000.0 | 90.00 | 179.65 | 9,700.0 | -10,377.4 | 1,626.0 | 494,860.96 | 823,863.24 | 32° 21' 25.647 N | 103° 25' 6.159 W |
| 20,100.0 | 90.00 | 179.65 | 9,700.0 | -10,477.4 | 1,626.6 | 494,760.96 | 823,863.85 | 32° 21' 24.658 N | 103° 25' 6.162 W |
| 20,200.0 | 90.00 | 179.65 | 9,700.0 | -10,577.4 | 1,627.2 | 494,660.97 | 823,864.46 | 32° 21' 23.668 N | 103° 25' 6.164 W |
| 20,300.0 | 90.00 | 179.65 | 9,700.0 | -10,677.4 | 1,627.8 | 494,560.97 | 823,865.08 | 32° 21' 22.679 N | 103° 25' 6.167 W |
| 20,400.0 | 90.00 | 179.65 | 9,700.0 | -10,777.4 | 1,628.4 | 494,460.97 | 823,865.69 | 32° 21' 21.689 N | 103° 25' 6.170 W |
| 20,500.0 | 90.00 | 179.65 | 9,700.0 | -10,877.4 | 1,629.1 | 494,360.97 | 823,866.30 | 32° 21' 20.700 N | 103° 25' 6.173 W |
| 20,521.4 | 90.00 | 179.65 | 9,700.0 | -10,898.8 | 1,629.2 | 494,339.61 | 823,866.43 | 32° 21' 20.488 N | 103° 25' 6.173 W |

| 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 |
| BHL-AIRSTREAM 24 - plan hits target of Point | 0.00 enter | 0.00 | 9,700.0 | -10,898.8 | 1,629.2 | 494,339.61 | 823,866.43 | 32° 21' 20.488 N | 103° 25' 6.173 W |
| FTP-AIRSTREAM 24 - plan misses targe - Point | 0.00 et center by | 0.00 0.3usft at 1 | 9,700.0 0158.9usft | -536.5 MD (9699.8 | 1,566.0 TVD, -536.5 | 504,701.87 N, 1565.9 E) | 823,803.29 | 32° 23' 3.024 N | 103° 25' 5.877 W |

| Plan Annot | ations | | | | |
|------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|----------------------------------|
| | Measured Depth (usft) | Vertical Depth (usft) | Local Coor +N/-S (usft) | rdinates +E/-W (usft) | Comment |
| | 2,000.0 | 2,000.0 | 0.0 | 0.0 | Start Build 2.00 |
| | 2,750.0 | 2,741.5 | -4.4 | 97.5 | Start 5290.7 hold at 2750.0 MD |
| | 8,040.7 | 7,851.9 | -65.6 | 1,465.5 | Start Drop -2.00 |
| | 8,790.7 | 8,593.4 | -70.0 | 1,563.0 | Start 629.1 hold at 8790.7 MD |
| | 9,419.9 | 9,222.5 | -70.0 | 1,563.0 | Start DLS 12.00 TFO 179.65 |
| | 10,169.9 | 9,700.0 | -547.5 | 1,565.9 | Start 10351.5 hold at 10169.9 MD |
| | 20,521.4 | 9,700.0 | -10,898.8 | 1,629.2 | TD at 20521.4 |

Permian Resources - Airstream 24 State Com 304H

1. Geologic Formations

| Formation | Elevation | TVD | Target |
|----------------------|-----------|-------|--------|
| Rustler | 1742 | 1797 | No |
| Top of Salt | 826 | 2713 | No |
| Yates | -390 | 3929 | No |
| Capitan | -831 | 4370 | No |
| Cherry Canyon | -2459 | 5998 | No |
| Brushy Canyon | -3676 | 7215 | No |
| Bone Spring Lime | -5037 | 8576 | No |
| 1st Bone Spring Sand | -6111 | 9650 | Yes |
| 2nd Bone Spring Sand | -6623 | 10162 | No |
| 3rd Bone Spring Sand | -7464 | 11003 | No |
| Wolfcamp | -7804 | 11343 | No |

2. Blowout Prevention

| BOP installed and tested before drilling | Size? | Min. Required WP | Туре | | x | Tested to: |
|--|---------|------------------------|------------|-------|---|------------|
| | | | Ann | nular | Х | 2500 psi |
| | | | Blind Ram | | Х | 5000 psi |
| 12.25 | 13-5/8" | 5M | Pipe Ram | | Х | |
| | | | Double Ram | | | |
| | | | Other* | | | |
| | 13-5/8" | | Annular | | Х | 2500 psi |
| | | | Blind Ram | | Х | 5000 poi |
| 8.75 | | 5M | Pipe Ram | | Х | |
| | | | Double Ram | | | 5000 psi |
| | | | Other* | | | |

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 (variablebore 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 Attachemnt: 5 M Choe Manifold BOP Diagram Attachment: BOP Schematic

3. Casing

| String | Hole Size | Casing Size | Тор | Bottom | Тор ТУБ | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|--------------|-----------|-------------|------|--------|---------|------------|--------|----------|---------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface | 17.5 | 13.375 | 0 | 1822 | 0 | 1822 | 1822 | J55 | 54.5 | BTC | 1.26 | 1.29 | Dry | 4.56 | Dry | 4.28 |
| Intermediate | 12.25 | 9.625 | 0 | 5948 | 0 | 5948 | 5948 | J55 | 40 | BTC | 2.43 | 1.51 | Dry | 2.11 | Dry | 1.86 |
| Production | 8.75 | 5.5 | 0 | 9419 | 0 | 9700 | 9419 | VA-SS-95 | 20 | VARN | 2.23 | 2.32 | Dry | 1.98 | Dry | 1.98 |
| Production | 7.875 | 5.5 | 9419 | 20521 | 9700 | 9700 | 11102 | P110RY | 20 | GeoConn | 2.10 | 2.32 | Dry | 2.18 | Dry | 2.18 |
| | | | | | | | | BLM M | in Safe | ety Factor | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

4. Cement

| String | Lead/Tail | Top MD | Bottom MD | Quanity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives |
|------------------------|-----------|--------|-----------|--------------|-------|---------|-------|----------|-------------|--|
| Surface | lead | 0 | 1450 | 1080 | 1.88 | 12.9 | 2020 | 100% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Surface | Tail | 1450 | 1822 | 300 | 1.34 | 14.8 | 390 | 50% | Class C | Accelerator |
| Intermediate | Lead | 3954 | 4750 | 210 | 1.88 | 12.9 | 380 | 50% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Intermediate | Tail | 4750 | 5948 | 430 | 1.34 | 14.8 | 570 | 50% | Class C | Retarder |
| Stage Tool Depth | | 3954 | | | | | | | | |
| Intermediate 2nd Stage | Lead | 0 | 3454 | 770 | 1.88 | 12.9 | 1430 | 50% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Intermediate 2nd Stage | Tail | 3454 | 3954 | 160 | 1.33 | 14.8 | 200 | 25% | Class C | Salt |
| Production | Lead | 5448 | 9419 | 570 | 2.41 | 11.5 | 1360 | 40% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production | Tail | 9419 | 20521 | 1400 | 1.73 | 12.5 | 2410 | 25% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate oter 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

Cuttings Volume: 11630 Cu Ft

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight | Max Weight |
|-----------|--------------|-----------------|------------|------------|
| 0 | 1822 | Spud Mud | 8.6 | 9.5 |
| 1822 | 5948 | Water Based Mud | 10 | 10 |
| 5948 | 9419 | Water Based Mud | 9 | 10.5 |
| 9419 | 20521 | OBM | 9 | 10.5 |

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

7. Pressure

| Anticipated Bottom Hole Pressure | 5300 | psi |
|---|------|-----|
| Anticipated Surface Pressure | 3162 | psi |
| Anticipated Bottom Hole Temperature | 153 | °F |
| Anticipated Abnormal pressure, temp, or geo hazards | No | |

8. Waste Management

| Waste Type: | Drilling |
|-------------------------------|--|
| Waste content description: | Fresh water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Weekly (after drilling all surfaces) |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Grey Water & Human Waste |
| Waste content description: | Grey Water/Human Waste |
| Amount of waste: | 5000 gallons |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Approved waste storage tanks with containment |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Garbage |
| Waste content description: | General trash/garbage |
| Amount of waste: | 5000 lbs |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Enclosed trash trailer |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Drill Cuttings |
| Amount of waste: | 11630 Cu Ft |
| Waste disposal frequency: | Per well |
| Safe containment description: | Steel tanks |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Brine water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Monthly |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |

9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached

WBD: attached
Flex Hose Specs: attached
Offline Cementing Procedure Attached:

PERMIAN RESOURCES

H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation
Airstream 24 State Com 303H, 304H
Lea County, New Mexico

08-28-2024
This plan is subject to updating

Permian Resources Corporation H₂S Contingency Plan
Airstream 24 State Com 303H, 304H

Lea County, New Mexico

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| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

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 H_2S 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 H_2S gas, or SO^2 , 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 H_2S , there are several hazardous conditions that are presented both to employees, the general public, and emergency responders. These specific hazardous conditions are identified in the tables below.

Permian Resources Corporation H₂S Contingency Plan Lea County, New Mexico
Airstream 24 State Com 303H, 304H

| H2S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER | ✓ |
|--|----|
| H ₂ S CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH -> WARNING SIGGREEN | GN |
| H₂S 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_2S 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_2S 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 | |
| <u>If trained and safe to do so</u> 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 | 0 |
| 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. | |
| | |
| | |

Permian Resources Corporation H₂S Contingency Plan Lea County, New Mexico Airstream 24 State Com 303H, 304H

| H₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED | |
|---|---|
| $> 30 \ ppm \ H_2S$ 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. | ٥ |
| 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. | ٥ |
| 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 | |
| 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. | |

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

| 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 H_2S 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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
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Section 5.0 - Emergency Contact List

| EMERGENCY CONTACT LIST | | | | |
|---|-------------------|--------------|----------------|-----------|
| PERMIAN RESOURCES CORPORATION. | | | | |
| POSITION | NAME | OFFICE | CELL | ALT PHONE |
| | Opera | tions | | |
| Production Superintendent | Rick Lawson | | 432.530.3188 | |
| TX Production Superintendent | Josh Graham | 432.940.3191 | 432.940.3191 | |
| NM Production Superintendent | Manual Mata | 432.664.0278 | 575.408.0216 | |
| Drilling Manager | Jason Fitzgerald | 432.315.0146 | 318.347.3916 | |
| Drilling Engineer | Parker Simmons | 432.400.1038 | 281.536.9813 | |
| 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 | Stephanie Rabadue | | 432.260.4388 | |
| Environmental Manager | Montgomery Floyd | 432-315-0123 | 432-425-8321 | |
| HSE Consultant | Blake Wisdom | | 918-323-2343 | |
| l | ocal, State, & F | ederal Agend | cies | |
| Lea County Sheriff | | 575-396-3611 | | 911 |
| New Mexico State Highway Patrol | | 505-757-2297 | | 911 |
| Eunice Fire / EMS | | 575-394-3258 | | 911 |
| Lea County Hospital | | 575-492-5000 | | |
| 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 | | 575-706-2779 | | |
| Lea County PET Inspector | | 575-689-5981 | | |
| 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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
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2. Wind Indicators

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

3. Danger Signs

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. <u>Safety Trailer</u>

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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
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| | Airstream 24 State Com 303H, 304H | |

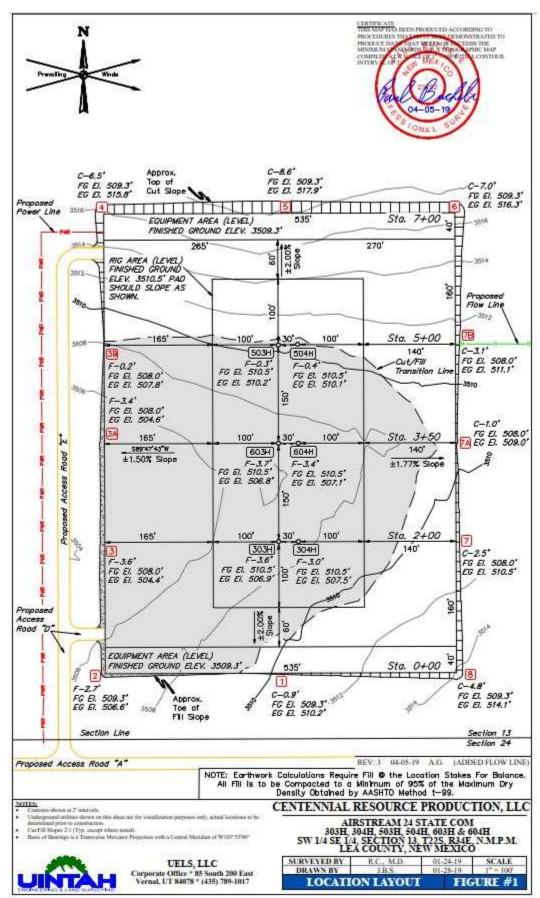
II. Directions to Location

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 20.6 MILES TO THE JUNCTION OF THIS ROAD AND DELAWARE BASIN ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY. THEN EASTERLY DIRECTION APPROXIMATELY 12.2 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 32 TO THE NORTH: TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN A EASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE EXISTING CHISO 14 STATE 8711 #3H & #4H WELL PAD AND AN EXISTING ROAD TO THE SOUTH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 57' TO THE BEGINNING OF THE ACCESS ROAD FOR THE AIRSTREAM 24 STATE COM 501H & 502H TO THE EAST; PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2,267' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 922' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "D" TO THE NORTH; FOLLOW ROAD FLAGS IN NORTHERLY. THEN EASTERLY APPROXIMATELY 260' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.9 MILES.

Permian Resources Corporation H₂S Contingency Plan Lea County, New Mexico
Airstream 24 State Com 303H, 304H

Plat of Location



| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

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.

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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: 32.385272, Long: -103.423454
- 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 Highway 32, which is 4850' from the location.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
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| | Airstream 24 State Com 303H, 304H | |

Section 7.0 - Hazard Communication

I. Physical Characteristics of Hydrogen Sulfide Gas

Hydrogen sulfide (H_2S) 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

| 14416 71-114-4146 61 1641616 | | |
|------------------------------|------------------|--|
| Concentration | Symptoms/Effects | |
| (ppm) | | |

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

| 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 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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

| SULFUR DIOXIDE TOXICITY | | | |
|--|---|--|--|
| Concentration | | Effects | |
| %SO ₂ PPM | | | |
| 0.0005 3 to 5 Pungent odor-normally a person can detect SO ₂ in this range. | | 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 So irritating that it can only be endured for a few minutes. | | So irritating that it can only be endured for a few minutes. | |
| 0.05 | 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

| 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 H_2S contingency plan for sites where the H_2S concentrations are as follows.

Table 8.1. Calculating H₂S Radius of Exposure

| H₂S 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 |
| 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) |

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
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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'
 - o 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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

| NMAC 19.15.11 & BLM COMPLIANCE REQUIREMENTS - DRILLING & PRODUCTION | | | DUCTION |
|---|--------|--------|---------|
| 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 H_2S and SO_2 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.
- 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.

| Permian Resources Corporation | H₂S Contingency Plan | Lea County, New Mexico |
|-------------------------------|-----------------------------------|------------------------|
| | Airstream 24 State Com 303H, 304H | |

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.
- 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



Hydrogen sulfide

Safety Data Sheet E-4611

n (February 11, 2015)

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

SECTION 1: Identification

1.1. Product identifier

Product form Substance Name Hydrogen sulfide CAS No 7783-06-4 HZS Formula

Other means of identification Hydrogen sulfide Core Products Product group

1.2. Recommended use and restrictions on use

Industrial use Recommended uses and restrictions 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

2.1. Classification of the substance or mixture

GHS-CA classification

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

GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms

Precautionary statements







Signal word : DANGER

Hazard statements

EXTREMELY FLAMMABLE GAS
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED FATAL IF INHALED

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

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PRAXAIR

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

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 protection

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

2.3. Other hazards

Other hazards not contributing to the classification : Contact with liquid may cause cold burns/frostbite.

2.4. 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 | 100 | Hydrogen sulfide (H2S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide |

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. 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 eyebalis 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.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3, 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

5.1. Suitable extinguishing media

Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

No additional information available

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Hydrogen sulfide

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

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5.3. 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-lighters

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

fighters.

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. 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.

6.3. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Leak-check system with scapy 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 50, 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.

| Hydrogen sulfide (7783-06-4 | l) | | |
|-----------------------------|---------------------------------|----------------------|--|
| 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/m²) | 21 mg/m³ | |
| Canada (Quebec) | VECD (ppm) | 15 ppm | |
| Canada (Quebec) | VEMP (mg/m²) | 14 mg/m³ | |
| Canada (Quebec) | VEMP (ppm) | 10 ppm | |
| Alberta | OEL Ceiling (mg/m³) | 21 mg/m ^a | |
| Alberta | OEL Ceiling (ppm) | 15 ppm | |
| Alberta | OEL TWA (mg/m²) | 14 mg/m³ | |
| Alberta British Columbia | OEL TWA (ppm) OEL Ceiling (ppm) | 10 ppm 10 ppm | |
| Manitoba | | | |
| (Cost) Indias | 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/m²) | 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/m²) | 28 mg/m² | |
| Nunavut | OEL Ceiling (ppm) | 20 ppm | |
| Nunavut | OEL STEL (mg/m²) | 21 mg/m³ | |
| Nunavut | OEL STEL (ppm) | 15 ppm | |
| Nunavut | OEL TWA (mg/m²) | 14 mg/m³ | |
| Nunavut | OEL TWA (ppm) | 10 ppm | |
| Northwest Territories | OEL STEL (ppm) | 15 ppm | |

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Hydrogen sulfide

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| Hydrogen sulfide (7783-0 | 16-4) | | |
|--------------------------|------------------|----------|--|
| 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/m²) | 21 mg/m³ | |
| Québec | VECD (ppm) | 15 ppm | |
| Québec | VEMP (mg/m²) | 14 mg/m³ | |
| Québec | VEMP (ppm) | 10 ppm | |
| Saskatchewan | OEL STEL (ppm) | 15 ppm | |
| Saskatchewan | OEL TWA (ppm) | 10 ppm | |
| Yukon | OEL STEL (mg/m²) | 27 mg/m³ | |
| Yukon | OEL STEL (ppm) | 15 ppm | |
| Yukon | OEL TWA (mg/m²) | 15 mg/m³ | |
| Yukan | OEL TWA (ppm) | 10 ppm | |

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.

B.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. 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 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

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 a/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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pH : Not applicable. pH solution : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : Not applicable. Melting point : -86 °C : -82.9 °C Freezing point Boiling point : -60.3 °C Flash point : Not applicable. Critical temperature : 100.4 °C : 260 °C Auto-ignition temperature Decomposition temperature : No data available : 1880 kPa Vapour pressure Vapour pressure at 50 °C : No data available : 8940 kPa Critical pressure Relative vapour density at 20 °C 2.00

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

Relative gas density : 1.2

Solubility : Water: 3980 mg/l Log Pow : Not applicable. : Not applicable. Log Kow Viscosity, kinematic : Not applicable. : Not applicable. Viscosity, dynamic Viscosity, kinematic (calculated value) (40 °C) : No data available Explosive properties Not applicable. Oxidizing properties : None. Flammability (solid, gas)

4.3 - 46 vol %

9.2. Other information

Gas group : Liquefied gas

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

ground level

SECTION 10: Stability and reactivity

Reactivity

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

Chemical stability : Stable under normal conditions : May react violently with oxidants. Can form explosive mixture with air.

Possibility of hazardous reactions

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

: 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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H₂S Contingency Plan **Permian Resources Corporation** Lea County, New Mexico Airstream 24 State Com 303H, 304H



Hydrogen sulfide

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

| 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 ppmw/4h | |
| ATE CA (vapours) | 0.99000000 mg/V4h | |
| ATE CA (dust,mist) | 0.99000000 mg/l/4h | |

Skin corrosion/irritation : Not classified pH: Not applicable. : Not classified

Serious eye damage/irritation pH: Not applicable.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

| SECTION 12: Ecological information |
|------------------------------------|
|------------------------------------|

| 12.1 | 1 | Toxi | city |
|------|---|------|------|
| | | | - |

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 prometas [flow-through]) |

12.2. Persistence and degradability

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

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 (7783-96-4) | | |
|------------------------------|---|--|
| 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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SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN1053

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

TDG Subsidiary Classes : 2.1

Proper shipping name : HYDROGEN SULPHIDE

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

Carrying Railway Vehicle Index

14.3. Air and sea transport

UN-No. (IMDG) : 1053

Proper Shipping Name (IMDG) : HYDROGEN SULPHIDE

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

IATA

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

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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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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 information

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NFPA health hazard

NEPA fire hazard

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

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

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



HMIS III Rating

NFPA reactivity

Health

Flammability

: 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)

Physical

: 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 constitued as guaranteeing any specific property of the product.

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g/g

EN (English)

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

inorganie, 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

3 Mountainview N

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

GHS Laber Elemen

Symbol(s)



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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SDS ID: MAT22290

Permian Resources Corporation H₂S Contingency Plan Lea County, New Mexico
Airstream 24 State Com 303H, 304H



Safety Data Sheet

Material Name: SULFUR DIOXIDE

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 | | | |
| 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.

Eves

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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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

| Sulfur dioxide | | |
|----------------|---------------|--|
| ACGIH: | 0.25 ppm STEL | |

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Safety Data Sheet

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.

| Sect | ion 9 - PHYSICAL A | AND CHEMICAL PROPERT | ΓIES |
|-----------------------------|----------------------------|----------------------------|-----------------------|
| Appearance | colorless gas | Physical State | gas |
| Odor | irritating odor | Color | colorless |
| Odor Threshold | 3 - 5 ppm | pH | (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℃) | 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

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

Hazardous decomposition products

oxides of sulfur

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

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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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.

Component Carcinogenicity

| 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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Safety Data Sheet

Material Name: SULFUR DIOXIDE

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 bulk.

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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