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

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

District III

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

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

Page 1 of 60

Form C-101 August 1, 2011 Permit 374130

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Nan	ne and Address nian Resources (Operating 11 C							2. OGF	RID Number 372165		
	N. Marienfeld St								2 4 01	Number		
	and, TX 79701	518 1000							3. API	30-025-53702	2	
4. Property Cod			5. Property Nar	ne					6. Well		-	
3223				STREAM 24	STATE COM				0. Wei	301H		
					7 Surfac	ce Location						
UL - Lot	Section	Township	Range	•		Feet From	N/S Line	Feet From		E/W Line	County	
M	13	22		34E	M	400	S		240	W	obuility	Lea
	ł				9 Bronocod Bot	tom Hole Locatio	n			1		
UL - Lot	Section	Township	Rang	e	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
M	36		2S	34E	M	100	S		330	W	county	Lea
					9. Pool l	nformation						
OJO CHISO;E	BONE SPRING, S	OUTH								97293		
					A -1 -1/4/ 1 \A	/- 11 Jac 6 - mar - 4 ¹ - m						
11. Work Type		12. Well Type		13. Cable/R		lell Information	14. Lease T	vpe	15. Gro	und Level Elevation	1	
	Well	OIL		io. oubiont	otary			State	10. 0.0	3497		
16. Multiple		17. Proposed De	epth	18. Formation	on		19. Contract	tor	20. Spu	d Date		
N		2609	93		st Bone Spring Sa					11/1/2024		
Depth to Ground	d water			Distance fro	m nearest fresh water	well			Distance	e to nearest surface	water	
X We will be u	sing a closed-loo	on system in lie	ou of lined nite	2								
Tune	Hole Size	Casing	. Size		. Proposed Casing ng Weight/ft	g and Cement Pro Setting De		Sacks of	Comont		Estimated 1	100
Type Surf	17.5	Casing 13.3			54.5	1822	ptn	5acks of 138			Estimated I	00
Int1	12.25	9.6			40	5948		150			0	
Prod	8.75	5.			20	26093	1	307			9318	
Prod	8.75	5.	5		20	9318		56	0		5448	
				Casi	ng/Cement Progra	m: Additional Co	mments					
Additional Ca	sing information	attached.			<u></u>							
				22	. Proposed Blowo	ut Prevention Pro	aram					
	Туре				g Pressure		Test Press	sure		Manu	ufacturer	
	Annular			2	500		2500					
	Double Ram			5	000		5000					
	Pipe			5	000		5000					
	Blind			5	000		5000					
	ertify that the info	rmation given a	bove is true ar	nd complete	to the best of my			OIL CONSER\	ATION [DIVISION		
knowledge ar												
I further certi		d with 19.15.14	1.9 (A) NMAC	X and/or 19	0.15.14.9 (B) NMAC	;						
Signature:												
Printed Name:	Electronica	ally filed by Step	hanie Rabad	ue		Approved By:	Paul F Kau	tz				
Title:	Regulatory	, , ,				Title:	Geologist					
Email Address:		rabadue@perr	nianres.com			Approved Date:	10/12/2024	1	Fx	piration Date: 10/1	2/2026	

Conditions of Approval Attached

9/26/2024

Date:

Phone: 432-260-4388

<u>C-102</u>	Energy, Minerals & Natu	ew Mexico Iral Resources Department ATION DIVISION		Revised July 9, 2024
Submit Electronically Via OCD Permitting	OIL CONSERVA	ATION DIVISION		🖌 Initial Submittal
			Submittal Type:	Amended Report
			-) [As Drilled
	WELL LOCA	ATION INFORMATION		
API Number	Pool Code 97293	Pool Name Oio Chiso: Bo	ne Spring	South

API Number	Pool Code 97293	Pool Name Ojo Chiso; Bone Spring	, South
Property Code	Property Name AIRSTRE	CAM 24 STATE COM	Well Number 301H
OGRID No. 372165	Operator Name PERMIAN RES	DURCES OPERATING, LLC	Ground Level Elevation 3497.3'
Surface Owner: 🙀 State 🗆 Fee 🗆	Tribal 🗖 Federal	Mineral Owner: 🙀 State 🗆 Fee 🗖 Tribal 🗖 F	Federal

					Surface	Location			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	13	22S	34E		400 SOUTH	1240 WEST	32.385550°	-103.428183°	LEA
					Bottom H	ole Location	I	Į	ļ
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	36	22S	34E		100 SOUTH	330 WEST	32.341183°	-103.431250°	LEA

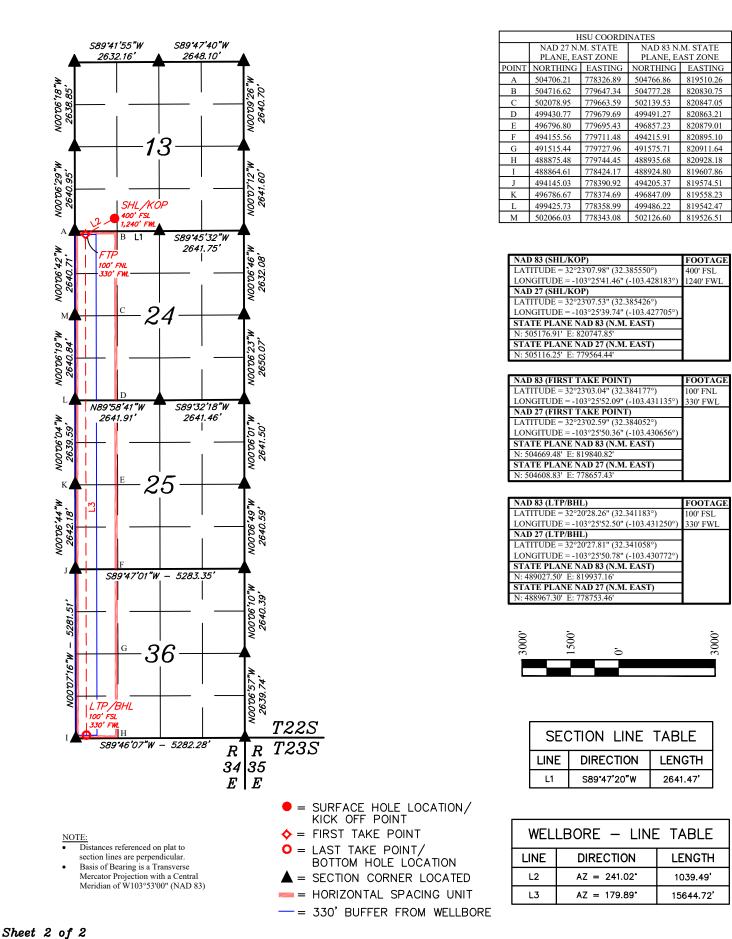
Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480	Defining		Y	
Order Numbers.	•		Well setbacks are under Common	Ownership: ₩Yes □No

					Kick Off	Point (KOP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	13	228	34E		400 SOUTH	1240 WEST	32.385550°	-103.428183°	LEA
					First Take	Point (FTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	24	22S	34E		100 NORTH	330 WEST	32.384177°	-103.431135°	LEA
					Last Take	Point (LTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	36	22S	34E		100 SOUTH	330 WEST	32.341183°	-103.431250°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type 🖌 Horiz	contal 🔲 Vertical	Ground Floor Elevatio	^{on:} 3527'
OPERATOR CERTIFICATIONS		SURVEYOR CERTIFI	CATIONS	
I hereby certify that the information contained herein is a my knowledge and belief, and, if the well is a vertical or organization either owns a working interest or unleased including the proposed bottom hole location or has a rig location pursuant to a contract with an owner of a worki interest, or to a voluntary pooling agreement or a compu- entered by the division. If this well is a horizontal well, I further certify that this consent of at least one lessee or owner of a working inter in even tract (in the target pool or formation) in which a interval will be located or obtained a compulsory pooling	directional well, that this mineral interest in the land ht to drill this well at this ng interest or unleased mineral lsory pooling order heretofore organization has received the rest or unleased mineral interest y part of the well's completed		ll location shown on this plat was pl ler my supervision, and that the sam	the is true and correct to the best of $U \subset H_{\mathcal{F}}$
Signature		Signature and Seal of Profes	ssional Surveyor	ONAL SUT
Jennifer Elrod		23782	September 19, 2024	
Printed Name		Certificate Number	Date of Survey	
jennifer.elrod@permianres.co Email Address	m			

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.

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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

PERMIT COMMENTS

Operator Name and	Address:	API Number:	
Permia	n Resources Operating, LLC [372165]	30-025-53702	
300 N.	Marienfeld St Ste 1000	Well:	
Midland	, TX 79701	AIRSTREAM 24 STATE COM	#301H
		*	
Created By	Comment		Comment Date
jelrod32	WELLBORE IS 3 MILES INCLUDES W2/W2 SECTION 24, 25, & 36 (480 ACRES)		9/26/2024

.

Form APD Comments

Permit 374130

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

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

PERMIT CONDITIONS OF APPROVAL

Operator	Name and Address: Permian Resources Operating, LLC [372165]	API Number: 30-025-53702
	300 N. Marienfeld St Ste 1000	Well:
	Midland, TX 79701	AIRSTREAM 24 STATE COM #301H
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 surf water zone or zones and shall immediately set in cement the water protection string	ace, the operator shall drill without interruption through the fresh
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from t drilling fluids and solids must be contained in a steel closed loop system	he oil or diesel. This includes synthetic oils. Oil based mud,
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	

Permit 374130

Page 5 of 60

	Er	ergy, Minerals a Oil Co 1220 S	e of New Mex nd Natural Resonance Inservation Di South St. France ta Fe, NM 875	ources Departme vision vis Dr.	ent		Submit Electronically Via E-permitting
	N	ATURAL GA	AS MANA(GEMENT PI	LAN		
This Natural Gas Manag	ement Plan mu	ist be submitted wi	th each Applicat	ion for Permit to I	Drill (Al	PD) for a ne	w or recompleted well.
			<u>1 – Plan De</u> fective May 25,				
I. Operator: <u>Permiar</u>	n Resource:	s Operating, L	LCOGRID:	372165			<u>30 / 202</u> 4
II. Type: X Original							ier.
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a since the second secon					wells pr	oposed to be	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHEL	D WELL LIS	T					
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the	following informat	tion for each new		/ell or se		15.27.9(D)(1) NMAC] roposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Dat	
SEE ATTACHED	WELL LIS	Т					
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	ti ces: X] Attacl of 19.15.27.8 f at Practices: X	n a complete descr NMAC.] Attach a complet	iption of the act	ions Operator wil	l take to	o comply wi	th the requirements of
-							

•

Page 7

<u>Section 3 - Certifications</u> Effective May 25, 2021

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

 \mathbf{X} 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

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

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

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

Section 4 - Notices

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

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

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, 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.

Page 8

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

Signature:
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
(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:
(Only applicable when submitted as a standalone form) Approved By:
(Only applicable when submitted as a standalone form) Approved By:

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

- 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.

Relea						Recei
sed to Imaging: 10	VOESTAIPINE					ived by OCD: 9/26/
)/12/					%	202 Min. Torque on Shoulder:
/20.				23,760 Nm	17,520 ft.lb	4 3. Maximum Torque:
24	27,000 Nm	19,910 fLlb	Yield Torque:	21,600 Nm	15,930 ft.lb	
4:0	111.00 mm	4.370 in	Make-Up Loss:	19,440 Nm	14,340 ft.lb	Minimum Torque:
)9:2	Metric	US Customary		Metric	US Customary	3 P)
 24 P 1					actor = 1.0):	Field Make Up (Friction Factor = 1.0):
М				2,530 KN	569 kib	Load on Coupling Face:
	11.57 Vm	0.932 gal/ft	Production:	86.00 Mpa	12,470 psi	Internal Yield Pressure:
	15.40 Vm	1.240 gal/ft	Displacement:	81.40 Mpa	11,810 psi	Collapse Resistance:.
		> 100.0 %	Tension Efficiency:	2,590 kN	582 klb	Joint Strength:
	Metric	US Customary		Metric	US Customary	I
I					(Uniaxial Load):	Connection Performance
				228.00 mm	8.976 in	Length:
				121.00 mm	4.764 in	ID:
		5 Threads	Threads per inch:	160.02 mm	6.300 in	OD:
				Metric	US Customary	1
						Connection:
				3,759.99 mm ²	5.828 in ²	Pipe Cross Section:
	2,590 kN	583 klb	Pipe Body Yield Strength:	30.07 kg/m	20.00 lb/ft	Nominal Weight:
	118.19 mm	4.653 in	Standard Drift:	121.36 mm	4.778 in	Nominal ID:
	9.17 mm	0.361 in	Wall Thickness:	139.70 mm	5.500 in	Nominal OD:
	Metric	US Customary		Metric	US Customary	1
						Pipe:
	724 Mpa	105,000 psi	Tensile Strength Min.			
	758 Mpa	110,000 psi	Yield Strength Max.			Bevel: standard
	689 Mpa	100,000 psi	Yield Strength Min.			Drift standard
I	Metric	US Customary	Material:			Size: 5 1/2 in X 20.00 lb/ft
			Grade: VA-SS-95-XP		C	Connection: VAroughneckAC
			DATA SHEET	TECHNICAL DATA SH		Page
						. 2 of 60

NEW MEXICO

(SP) LEA AIRSTREAM 24 ST COM PROJECT AIRSTREAM 24 ST COM 301H

OWB

Plan: PWP0

Standard Planning Report - Geographic

25 September, 2024

Database:	Comr	bass 17			Local Co	o-ordinate R	eference:	Well AIRSTRE	AM 24 ST C	OM 301H	
Company:	NEW	NEW MEXICO				TVD Reference:			KB=26 @ 3524.0usft		
Project: Site:	· · ·	(SP) LEA AIRSTREAM 24 ST COM PROJECT				MD Reference: KB=26 @ 3524.0usft North Reference: Grid					
Well:		TREAM 24 S				Calculation N	lethod:	Minimum Curv	/ature		
Wellbore:	OWB				,						
Design:	PWP	0									
Project	(SP) L	EA									
Map System: Geo Datum: Map Zone:	North A	US State Plane 1983 System Datum: Mean Sea Level North American Datum 1983 New Mexico Eastern Zone									
Site	AIRST	REAM 24 ST	COM PROJ	ECT							
Site Position:			North	ning:	504,3	366.27 usft	Latitude:			32° 22' 59.965 N	
From:	Ма	•	Easti	•	,	691.99 usft	Longitude:			103° 25' 42.190 W	
Position Uncerta	ainty:	0.0	usft Slot	Radius:	1	3-3/16 "					
Well	AIRST	REAM 24 ST	COM 301H								
Well Position	+N/-S			orthing:		505,176.91		titude:		32° 23' 7.981 N	
Desitient	+E/-W			asting:		820,747.85		ngitude:		103° 25' 41.458 W	
Position Uncerta			.0 usft W 18 °	ellhead Elev	ation:		usfi Gr	ound Level:		3,498.0 usfl	
Grid Convergent			+0								
Wellbore	OWB										
Magnetics	Мо	del Name	Sampl	e Date	Declina			Angle		Strength	
		IGRF200510	1.	2/31/2009	(°)	7.70	(°) 60.42	•	n T))6.34826927	
		IGRF200310		2/31/2009		7.70		00.42	40,90	0.34020927	
Design	PWP0)									
Audit Notes:											
Version:			Phas		PROTOTYPE		e On Depth:		0.0		
Vertical Section:	:	De	epth From (T (usft)	VD)	+N/-S (usft)		:/-W sft)		ection (°)		
			0.0		0.0).0		32.87		
Plan Survey Too			9/25/2024								
Depth From (usft)	Depti (us		(Wellbore)		Tool Name		Remarks				
1 0.	•	.093.9 PWP0			MWD						
1 0.	o 20,		(0112)			/2_ MWD - Si	tar				
Plan Sections						_	_				
Measured Depth Inc (usft)	lination (°)	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		
2,000.0	0.00	0.00	2,000.0	0.0 22 7	0.0	0.00	0.00		0.00		
2,600.0 6,391.7	12.00 12.00	291.21 291.21	2,595.6 6,304.4	22.7 307.9	-58.4 -793.3	2.00 0.00	2.00 0.00		291.21 0.00		
7,591.7	0.00	0.00	7,495.7	353.2	-910.0	1.00	-1.00		180.00		
9,318.5	0.00	0.00	9,222.5	353.2	-910.0	0.00	0.00		0.00		
10,068.5	90.00	179.66	9,700.0	-124.3	-907.1	12.00	12.00		179.66		
26,093.9	90.00	179.66	9,700.0	-16,149.4	-810.7	0.00	0.00	0.00	0.00	BHL-AIRSTREAM 2	

9/25/2024 11:21:34AM

Database:	Compass_17	Local Co-ordinate Reference:	Well AIRSTREAM24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

0.0 0.00 0.00 0.0 505,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.00 0.00 0.00 0.00 0.00 505,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.00 0.00 2000 0.00 0.00 505,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.00 0.00 400,0 0.0 0.00 565,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.00 0.00 500,0 0.0 0.00 565,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.00 0.00 500,0 0.0 0.00 565,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 0.000 0.00 0.00 0.00 0.00 565,176,91 820,747,85 32°,237,981 N 103°,254,1458 W 1,000,0 0.00 0.00 0.00 0.00 0.00 1.000,0 0.00 1.000,0 0.00 1.000,0 1.000 0.00 1.00	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1,500.0	0.00	0.00	1,500.0		0.0	505,176.91	820,747.85	32° 23' 7.981 N	103° 25' 41.458 W
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1,600.0	0.00	0.00	1,600.0	0.0	0.0	505,176.91	820,747.85		
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2,000.0 0.00 2,000.0 0.0 505,177.51 820,747.85 32° 23° 7,981 N 103° 25° 41.468 W 2,100.0 4.00 291.21 2,199.8 2.5 5.7 -14.6 505,177.54 820,741.34 32° 23° 8.007 N 103° 25° 41.53 W 2,400.0 6.00 291.21 2,999.5 5.7 -14.6 505,182.59 820,733.22 32° 23° 8.007 N 103° 25° 41.63 W 2,400.0 8.00 291.21 2,497.5 15.7 -40.6 505,192.66 820,707.27 32° 38.141 N 103° 25° 41.930 W 2,600.0 12.00 291.21 2,696.6 22.7 -564.4 505,192.66 820,670.11 32° 23° 8.26N 103° 25° 42.362 W 2,600.0 12.00 291.21 2,696.9 52.7 -135.5 505,222.16 820,671.13 32° 23° 8.63N 103° 25° 42.362 W 2,800.0 12.00 291.21 2,986.9 52.7 -135.9 505,229.16 820,671.13 32° 23° 8.63N 103° 25° 43.388 W 3,000.0 12.00 291.21 3,986.9 52.7 -	1,800.0	0.00	0.00	1,800.0	0.0	0.0	505,176.91	820,747.85	32° 23' 7.981 N	103° 25' 41.458 W
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4,700.0 12.00 291.21 4,649.7 180.6 -465.4 505,357.54 820,282.46 32° 23' 9.808 N 103° 25' 46.868 W 4,800.0 12.00 291.21 4,747.5 188.2 -484.8 505,365.07 820,263.07 32° 23' 9.808 N 103° 25' 47.093 W 4,900.0 12.00 291.21 4,845.4 195.7 -504.2 505,372.59 820,243.69 32° 23' 9.808 N 103° 25' 47.093 W 5,000.0 12.00 291.21 4,845.4 195.7 -504.2 505,372.59 820,243.69 32° 23' 9.960 N 103° 25' 47.318 W 5,000.0 12.00 291.21 4,943.2 203.2 -523.5 505,380.11 820,224.31 32° 23' 10.036 N 103° 25' 47.543 W 5,100.0 12.00 291.21 5,041.0 210.7 -542.9 505,387.64 820,204.93 32° 23' 10.112 N 103° 25' 47.769 W 5,200.0 12.00 291.21 5,138.8 218.2 -562.3 505,395.16 820,185.54 32° 23' 10.188 N 103° 25' 47.994 W 5,300.0 <td></td>										
4,800.0 12.00 291.21 4,747.5 188.2 -484.8 505,365.07 820,263.07 32° 23' 9.884 N 103° 25' 47.093 W 4,900.0 12.00 291.21 4,845.4 195.7 -504.2 505,372.59 820,243.69 32° 23' 9.864 N 103° 25' 47.093 W 5,000.0 12.00 291.21 4,943.2 203.2 -523.5 505,380.11 820,224.31 32° 23' 10.036 N 103° 25' 47.543 W 5,100.0 12.00 291.21 5,041.0 210.7 -542.9 505,387.64 820,204.93 32° 23' 10.112 N 103° 25' 47.769 W 5,200.0 12.00 291.21 5,138.8 218.2 -562.3 505,395.16 820,185.54 32° 23' 10.112 N 103° 25' 47.994 W 5,300.0 12.00 291.21 5,236.6 225.8 -581.7 505,402.68 820,166.16 32° 23' 10.264 N 103° 25' 48.219 W							,			
4,900.0 12.00 291.21 4,845.4 195.7 -504.2 505,372.59 820,243.69 32° 23' 9.960 N 103° 25' 47.318 W 5,000.0 12.00 291.21 4,943.2 203.2 -523.5 505,380.11 820,224.31 32° 23' 10.036 N 103° 25' 47.543 W 5,100.0 12.00 291.21 5,041.0 210.7 -542.9 505,387.64 820,204.93 32° 23' 10.112 N 103° 25' 47.769 W 5,200.0 12.00 291.21 5,138.8 218.2 -562.3 505,395.16 820,185.54 32° 23' 10.188 N 103° 25' 47.994 W 5,300.0 12.00 291.21 5,236.6 225.8 -581.7 505,402.68 820,166.16 32° 23' 10.264 N 103° 25' 48.219 W								820,263.07	32° 23' 9.884 N	
5,000.0 12.00 291.21 4,943.2 203.2 -523.5 505,380.11 820,224.31 32° 23' 10.036 N 103° 25' 47.543 W 5,100.0 12.00 291.21 5,041.0 210.7 -542.9 505,387.64 820,204.93 32° 23' 10.112 N 103° 25' 47.769 W 5,200.0 12.00 291.21 5,138.8 218.2 -562.3 505,395.16 820,185.54 32° 23' 10.188 N 103° 25' 47.994 W 5,300.0 12.00 291.21 5,236.6 225.8 -581.7 505,402.68 820,166.16 32° 23' 10.264 N 103° 25' 48.219 W							,	,		
5,100.0 12.00 291.21 5,041.0 210.7 -542.9 505,387.64 820,204.93 32° 23' 10.112 N 103° 25' 47.769 W 5,200.0 12.00 291.21 5,138.8 218.2 -562.3 505,395.16 820,185.54 32° 23' 10.118 N 103° 25' 47.994 W 5,300.0 12.00 291.21 5,236.6 225.8 -581.7 505,402.68 820,166.16 32° 23' 10.264 N 103° 25' 48.219 W										
5,200.012.00291.215,138.8218.2-562.3505,395.16820,185.5432° 23' 10.188 N103° 25' 47.994 W5,300.012.00291.215,236.6225.8-581.7505,402.68820,166.1632° 23' 10.264 N103° 25' 48.219 W										
5,300.0 12.00 291.21 5,236.6 225.8 -581.7 505,402.68 820,166.16 32° 23' 10.264 N 103° 25' 48.219 W	5,200.0) 12.00	291.21		218.2	-562.3	505,395.16	820,185.54	32° 23' 10.188 N	103° 25' 47.994 W
5 400 0 12 00 291 21 5 334 4 233 3 -601 1 505 410 21 820 146 78 32° 23' 10 340 N 102° 25' 48 445 W	5,300.0) 12.00	291.21	5,236.6		-581.7	505,402.68	820,166.16		103° 25' 48.219 W
0,700.0 12.00 201.21 0,007.7 200.0 -001.1 000,410.21 020,140.70 02 20 10.040 N 103 20 40.440 W	5,400.0) 12.00	291.21	5,334.4	233.3	-601.1	505,410.21	820,146.78	32° 23' 10.340 N	103° 25' 48.445 W

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COMPASS 5000.17 Build 03

Database:	Compass_17	Local Co-ordinate Reference:	Well AIRSTREAM 24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
. ,						. ,	· · ·		•
5,500.0		291.21	5,432.3	240.8	-620.5	505,417.73 505,425.25	820,127.40	32° 23' 10.416 N 32° 23' 10.492 N	103° 25' 48.670 W
5,600.0 5,700.0		291.21 291.21	5,530.1 5,627.9	248.3 255.9	-639.8 -659.2	505,425.25	820,108.02 820,088.63	32°23' 10.492 N 32°23' 10.568 N	103° 25' 48.895 W 103° 25' 49.120 W
5,800.0		291.21	5,725.7	255.9 263.4	-039.2 -678.6	505,440.30	820,088.03	32° 23' 10.568 N 32° 23' 10.644 N	103° 25' 49.120 W
5,900.0		291.21	5,823.5	270.9	-698.0	505,447.82	820,049.87	32° 23' 10.720 N	103° 25' 49.571 W
6,000.0		291.21	5,921.3	278.4	-717.4	505,455.34	820,030.49	32° 23' 10.796 N	103° 25' 49.796 W
6,100.0		291.21	6,019.1	286.0	-736.7	505,462.87	820,011.10	32° 23' 10.872 N	103° 25' 50.021 W
6,200.0		291.21	6,117.0	293.5	-756.1	505,470.39	819,991.72	32° 23' 10.948 N	103° 25' 50.247 W
6,300.0		291.21	6,214.8	301.0	-775.5	505,477.91	819,972.34	32° 23' 11.025 N	103° 25' 50.472 W
6,391.7	12.00	291.21	6,304.4	307.9	-793.3	505,484.81	819,954.57	32° 23' 11.094 N	103° 25' 50.679 W
6,400.0	11.92	291.21	6,312.6	308.5	-794.9	505,485.43	819,952.96	32° 23' 11.101 N	103° 25' 50.697 W
6,500.0	10.92	291.21	6,410.6	315.7	-813.3	505,492.59	819,934.51	32° 23' 11.173 N	103° 25' 50.912 W
6,600.0		291.21	6,509.0	322.2	-830.2	505,499.14	819,917.65	32° 23' 11.239 N	103° 25' 51.108 W
6,700.0		291.21	6,607.6	328.1	-845.4	505,505.06	819,902.40	32° 23' 11.299 N	103° 25' 51.285 W
6,800.0		291.21	6,706.5	333.4	-859.1	505,510.35	819,888.76	32° 23' 11.352 N	103° 25' 51.444 W
6,900.0			6,805.7	338.1	-871.1	505,515.02	819,876.72	32° 23' 11.400 N	103° 25' 51.583 W
7,000.0		291.21	6,905.1	342.2	-881.5	505,519.07	819,866.30	32° 23' 11.441 N	103° 25' 51.704 W
7,100.0		291.21	7,004.6	345.6	-890.3	505,522.48	819,857.50	32° 23' 11.475 N	103° 25' 51.807 W
7,200.0		291.21	7,104.3	348.4	-897.5	505,525.27	819,850.32	32° 23' 11.503 N	103° 25' 51.890 W
7,300.0 7,400.0		291.21 291.21	7,204.1 7,304.0	350.5 352.0	-903.1 -907.0	505,527.43 505,528.95	819,844.77 819,840.84	32° 23' 11.525 N 32° 23' 11.541 N	103° 25' 51.955 W 103° 25' 52.000 W
7,500.0		291.21	7,304.0	352.0	-907.0	505,528.95	819,838.53	32° 23' 11.541 N 32° 23' 11.550 N	103° 25' 52.000 W 103° 25' 52.027 W
7,591.7		0.00	7,404.0	353.2	-909.3	505,529.05	819,837.85	32° 23' 11.552 N	103° 25' 52.027 W
7,600.0		0.00	7,504.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
7,700.0		0.00	7,604.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
7,800.0		0.00	7,704.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
7,900.0		0.00	7,804.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,000.0		0.00	7,904.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,100.0	0.00	0.00	8,004.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,200.0	0.00	0.00	8,104.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,300.0		0.00	8,204.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,400.0		0.00	8,304.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,500.0		0.00	8,404.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,600.0		0.00	8,504.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,700.0		0.00	8,604.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
8,800.0		0.00	8,704.0	353.2	-910.0	505,530.11	819,837.85 819,837.85	32° 23' 11.552 N 32° 23' 11.552 N	103° 25' 52.035 W
8,900.0 9,000.0		0.00 0.00	8,804.0 8,904.0	353.2 353.2	-910.0 -910.0	505,530.11 505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W 103° 25' 52.035 W
9,100.0		0.00	9,004.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
9,200.0		0.00	9,104.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
9,300.0		0.00	9,204.0	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
9,318.5		0.00	9,222.5	353.2	-910.0	505,530.11	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
9,325.0		179.66	9,229.0	353.2	-910.0	505,530.07	819,837.85	32° 23' 11.552 N	103° 25' 52.035 W
9,350.0		179.66	9,254.0	352.2	-910.0	505,529.07	819,837.85	32° 23' 11.542 N	103° 25' 52.035 W
9,375.0		179.66	9,278.9	349.9	-910.0	505,526.77	819,837.87	32° 23' 11.519 N	103° 25' 52.035 W
9,400.0	9.78	179.66	9,303.6	346.3	-910.0	505,523.17	819,837.89	32° 23' 11.484 N	103° 25' 52.035 W
9,425.0		179.66	9,328.1	341.4	-909.9	505,518.28	819,837.92	32° 23' 11.435 N	103° 25' 52.036 W
9,450.0		179.66	9,352.4	335.2	-909.9	505,512.11	819,837.96	32° 23' 11.374 N	103° 25' 52.036 W
9,475.0		179.66	9,376.2	327.8	-909.8	505,504.69	819,838.00	32° 23' 11.301 N	103° 25' 52.036 W
9,500.0		179.66	9,399.7	319.1	-909.8	505,496.02	819,838.05	32° 23' 11.215 N	103° 25' 52.036 W
9,525.0		179.66	9,422.6	309.2	-909.7	505,486.14	819,838.11	32° 23' 11.117 N	103° 25' 52.036 W
9,550.0		179.66	9,445.0	298.2	-909.7	505,475.08	819,838.18	32° 23' 11.008 N	103° 25' 52.037 W
9,575.0		179.66	9,466.8	285.9	-909.6	505,462.85	819,838.25	32° 23' 10.887 N	103° 25' 52.037 W
9,600.0		179.66	9,488.0	272.6	-909.5	505,449.50	819,838.33	32° 23' 10.755 N	103° 25' 52.037 W
9,625.0	36.78	179.66	9,508.4	258.2	-909.4	505,435.06	819,838.42	32° 23' 10.612 N	103° 25' 52.038 W

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COMPASS 5000.17 Build 03

Database:	Compass_17	Local Co-ordinate Reference:	Well AIRSTREAM24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
						. ,		32° 23' 10.458 N	103° 25' 52.038 W
9,650.0 9,675.0		179.66 179.66	9,528.0 9,546.8	242.7 226.2	-909.3 -909.2	505,419.58 505,403.08	819,838.51 819,838.61	32°23'10.458 N 32°23' 10.295 N	103°25′52.038 W 103°25′52.039 W
9,700.0		179.66	9,540.8 9,564.7	208.7	-909.2	505,385.63	819,838.72	32° 23' 10.123 N	103° 25' 52.039 W
9,725.0		179.66	9,581.6	190.4	-909.0	505,367.27	819,838.83	32° 23' 9.941 N	103° 25' 52.040 W
9,750.0		179.66	9,597.6	171.1	-908.9	505,348.04	819,838.94	32° 23' 9.751 N	103° 25' 52.040 W
9,775.0		179.66	9,612.6	151.1	-908.8	505,328.00	819,839.06	32° 23' 9.552 N	103° 25' 52.041 W
9,800.0		179.66	9,626.4	130.3	-908.7	505,307.21	819,839.19	32° 23' 9.347 N	103° 25' 52.041 W
9,825.0	60.78	179.66	9,639.2	108.8	-908.5	505,285.72	819,839.32	32° 23' 9.134 N	103° 25' 52.042 W
9,850.0	63.78	179.66	9,650.8	86.7	-908.4	505,263.59	819,839.45	32° 23' 8.915 N	103° 25' 52.043 W
9,875.0		179.66	9,661.3	64.0	-908.3	505,240.89	819,839.59	32° 23' 8.690 N	103° 25' 52.043 W
9,900.0		179.66	9,670.5	40.8	-908.1	505,217.66	819,839.73	32° 23' 8.461 N	103° 25' 52.044 W
9,925.0		179.66	9,678.6	17.1	-908.0	505,193.99	819,839.87	32° 23' 8.226 N	103° 25' 52.045 W
9,950.0		179.66	9,685.3	-7.0	-907.8	505,169.93	819,840.02	32° 23' 7.988 N	103° 25' 52.045 W
9,975.0		179.66	9,690.8	-31.4	-907.7	505,145.54	819,840.16	32° 23' 7.747 N	103° 25' 52.046 W
10,000.0		179.66	9,695.1	-56.0	-907.5	505,120.91	819,840.31	32° 23' 7.503 N	103° 25' 52.047 W
10,025.0		179.66	9,698.0	-80.8	-907.4 -907.2	505,096.08	819,840.46	32° 23' 7.257 N	103° 25' 52.047 W
10,050.0 10,068.5		179.66 179.66	9,699.6 9,700.0	-105.8 -124.3	-907.2 -907.1	505,071.14 505,052.66	819,840.61 819,840.72	32° 23' 7.011 N 32° 23' 6.828 N	103° 25' 52.048 W 103° 25' 52.049 W
10,008.5		179.66	9,700.0 9,700.0	-124.3	-907.1	505,052.00	819,840.72	32° 23' 6.516 N	103° 25' 52.049 W
10,100.0		179.66	9,700.0	-255.8	-906.3	504,921.15	819,841.51	32° 23' 5.526 N	103° 25' 52.050 W
10,300.0		179.66	9,700.0	-355.8	-905.7	504,821.15	819,842.11	32° 23' 4.537 N	103° 25' 52.055 W
10,400.0		179.66	9,700.0	-455.8	-905.1	504,721.15	819,842.72	32° 23' 3.547 N	103° 25' 52.058 W
10,500.0		179.66	9,700.0	-555.8	-904.5	504,621.15	819,843.32	32° 23' 2.558 N	103° 25' 52.061 W
10,600.0		179.66	9,700.0	-655.8	-903.9	504,521.15	819,843.92	32° 23' 1.569 N	103° 25' 52.064 W
10,700.0		179.66	9,700.0	-755.8	-903.3	504,421.15	819,844.52	32° 23' 0.579 N	103° 25' 52.066 W
10,800.0	90.00	179.66	9,700.0	-855.8	-902.7	504,321.16	819,845.12	32° 22' 59.590 N	103° 25' 52.069 W
10,900.0	90.00	179.66	9,700.0	-955.8	-902.1	504,221.16	819,845.73	32° 22' 58.600 N	103° 25' 52.072 W
11,000.0		179.66	9,700.0	-1,055.8	-901.5	504,121.16	819,846.33	32° 22' 57.611 N	103° 25' 52.075 W
11,100.0		179.66	9,700.0	-1,155.7	-900.9	504,021.16	819,846.93	32° 22' 56.621 N	103° 25' 52.078 W
11,200.0		179.66	9,700.0	-1,255.7	-900.3	503,921.16	819,847.53	32° 22' 55.632 N	103° 25' 52.081 W
11,300.0		179.66	9,700.0	-1,355.7	-899.7	503,821.17	819,848.13	32° 22' 54.642 N	103° 25' 52.083 W
11,400.0		179.66	9,700.0	-1,455.7	-899.1	503,721.17	819,848.73	32° 22' 53.653 N	103° 25' 52.086 W
11,500.0		179.66	9,700.0	-1,555.7	-898.5	503,621.17	819,849.34	32° 22' 52.663 N	103° 25' 52.089 W
11,600.0		179.66	9,700.0	-1,655.7	-897.9	503,521.17	819,849.94	32° 22' 51.674 N	103° 25' 52.092 W 103° 25' 52.095 W
11,700.0 11,800.0		179.66 179.66	9,700.0 9,700.0	-1,755.7 -1,855.7	-897.3 -896.7	503,421.17 503,321.17	819,850.54 819,851.14	32° 22' 50.684 N 32° 22' 49.695 N	103° 25' 52.095 W
11,900.0		179.66	9,700.0 9,700.0	-1,855.7	-896.1	503,221.17	819,851.74	32° 22' 49.095 N 32° 22' 48.705 N	103° 25' 52.100 W
12,000.0		179.66	9,700.0	-2,055.7	-895.5	503,121.18	819,852.34	32° 22' 40.705 N 32° 22' 47.716 N	103° 25' 52.100 W
12,100.0		179.66	9,700.0	-2,155.7	-894.9	503,021.18	819,852.95	32° 22' 46.726 N	103° 25' 52.106 W
12,200.0		179.66	9,700.0	-2,255.7	-894.3	502,921.18	819,853.55	32° 22' 45.737 N	103° 25' 52.109 W
12,300.0		179.66	9,700.0	-2,355.7	-893.7	502,821.18	819,854.15	32° 22' 44.747 N	103° 25' 52.112 W
12,400.0		179.66	9,700.0	-2,455.7	-893.1	502,721.19	819,854.75	32° 22' 43.758 N	103° 25' 52.114 W
12,500.0	90.00	179.66	9,700.0	-2,555.7	-892.5	502,621.19	819,855.35	32° 22' 42.768 N	103° 25' 52.117 W
12,600.0	90.00	179.66	9,700.0	-2,655.7	-891.9	502,521.19	819,855.96	32° 22' 41.779 N	103° 25' 52.120 W
12,700.0	90.00	179.66	9,700.0	-2,755.7	-891.3	502,421.19	819,856.56	32° 22' 40.789 N	103° 25' 52.123 W
12,800.0		179.66	9,700.0	-2,855.7	-890.7	502,321.19	819,857.16	32° 22' 39.800 N	103° 25' 52.126 W
12,900.0		179.66	9,700.0	-2,955.7	-890.1	502,221.19	819,857.76	32° 22' 38.810 N	103° 25' 52.128 W
13,000.0		179.66	9,700.0	-3,055.7	-889.5	502,121.20	819,858.36	32° 22' 37.821 N	103° 25' 52.131 W
13,100.0		179.66	9,700.0	-3,155.7	-888.9	502,021.20	819,858.96	32° 22' 36.831 N	103° 25' 52.134 W
13,200.0		179.66	9,700.0	-3,255.7	-888.3	501,921.20	819,859.57	32° 22' 35.842 N	103° 25' 52.137 W
13,300.0		179.66	9,700.0	-3,355.7	-887.7	501,821.20	819,860.17	32° 22' 34.852 N	103° 25' 52.140 W
13,400.0		179.66	9,700.0	-3,455.7	-887.1	501,721.20	819,860.77	32° 22' 33.863 N	103° 25' 52.143 W
13,500.0		179.66	9,700.0	-3,555.7	-886.5	501,621.20	819,861.37	32° 22' 32.873 N	103° 25' 52.145 W
13,600.0		179.66	9,700.0	-3,655.7	-885.9	501,521.21	819,861.97 819,862.58	32° 22' 31.884 N 32° 22' 30.894 N	103° 25' 52.148 W 103° 25' 52.151 W
13,700.0	90.00	179.66	9,700.0	-3,755.7	-885.3	501,421.21	019,002.00	52 22 30.094 N	100 20 02.101 00

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COMPASS 5000.17 Build 03

Database:	Compass_17	Local Co-ordinate Reference:	Well AIRSTREAM 24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,800.0		179.66	9,700.0	-3,855.7	-884.7	501,321.21	819,863.18	32° 22' 29.905 N	103° 25' 52.154 W
13,900.0		179.66	9,700.0	-3,955.7	-884.1	501,221.21	819,863.78	32° 22' 28.915 N	103° 25' 52.154 W
14,000.0		179.66	9,700.0	-4,055.7	-883.5	501,121.21	819,864.38	32° 22' 27.926 N	103° 25' 52.159 W
14,100.0		179.66	9,700.0	-4,155.7	-882.9	501,021.22	819,864.98	32° 22' 26.936 N	103° 25' 52.162 W
14,200.0		179.66	9,700.0	-4,255.7	-882.3	500,921.22	819,865.58	32° 22' 25.947 N	103° 25' 52.165 W
14,300.0		179.66	9,700.0	-4,355.7	-881.7	500,821.22	819,866.19	32° 22' 24.957 N	103° 25' 52.168 W
14,400.0		179.66	9,700.0	-4,455.7	-881.1	500,721.22	819,866.79	32° 22' 23.968 N	103° 25' 52.171 W
14,500.0		179.66	9,700.0	-4,555.7	-880.5	500,621.22	819,867.39	32° 22' 22.978 N	103° 25' 52.173 W
14,600.0		179.66	9,700.0	-4,655.7	-879.9	500,521.22	819,867.99	32° 22' 21.989 N	103° 25' 52.176 W
14,700.0		179.66	9,700.0	-4,755.7	-879.3	500,421.23	819,868.59	32° 22' 20.999 N	103° 25' 52.179 W
14,800.0	90.00	179.66	9,700.0	-4,855.7	-878.7	500,321.23	819,869.19	32° 22' 20.010 N	103° 25' 52.182 W
14,900.0	90.00	179.66	9,700.0	-4,955.7	-878.1	500,221.23	819,869.80	32° 22' 19.020 N	103° 25' 52.185 W
15,000.0	90.00	179.66	9,700.0	-5,055.7	-877.5	500,121.23	819,870.40	32° 22' 18.031 N	103° 25' 52.188 W
15,100.0	90.00	179.66	9,700.0	-5,155.7	-876.8	500,021.23	819,871.00	32° 22' 17.041 N	103° 25' 52.190 W
15,200.0		179.66	9,700.0	-5,255.7	-876.2	499,921.24	819,871.60	32° 22' 16.052 N	103° 25' 52.193 W
15,300.0		179.66	9,700.0	-5,355.7	-875.6	499,821.24	819,872.20	32° 22' 15.062 N	103° 25' 52.196 W
15,400.0		179.66	9,700.0	-5,455.7	-875.0	499,721.24	819,872.81	32° 22' 14.073 N	103° 25' 52.199 W
15,500.0		179.66	9,700.0	-5,555.7	-874.4	499,621.24	819,873.41	32° 22' 13.083 N	103° 25' 52.202 W
15,600.0		179.66	9,700.0	-5,655.7	-873.8	499,521.24	819,874.01	32° 22' 12.094 N	103° 25' 52.204 W
15,700.0		179.66	9,700.0	-5,755.7	-873.2	499,421.24	819,874.61	32° 22' 11.104 N	103° 25' 52.207 W
15,800.0		179.66	9,700.0	-5,855.7	-872.6	499,321.25	819,875.21	32° 22' 10.115 N	103° 25' 52.210 W
15,900.0		179.66	9,700.0	-5,955.7	-872.0	499,221.25	819,875.81	32° 22' 9.125 N	103° 25' 52.213 W
16,000.0		179.66	9,700.0	-6,055.7	-871.4	499,121.25	819,876.42	32° 22' 8.136 N	103° 25' 52.216 W
16,100.0		179.66	9,700.0 9,700.0	-6,155.7	-870.8	499,021.25 498,921.25	819,877.02	32° 22' 7.146 N	103° 25' 52.218 W
16,200.0 16,300.0		179.66 179.66	9,700.0 9,700.0	-6,255.7 -6,355.7	-870.2 -869.6	498,821.25	819,877.62 819,878.22	32° 22' 6.157 N 32° 22' 5.167 N	103° 25' 52.221 W 103° 25' 52.224 W
16,400.0		179.66	9,700.0	-6,455.7	-869.0	498,721.26	819,878.82	32° 22' 4.178 N	103° 25' 52.224 W
16,500.0		179.66	9,700.0	-6,555.7	-868.4	498,621.26	819,879.42	32° 22' 3.188 N	103° 25' 52.230 W
16,600.0		179.66	9,700.0	-6,655.7	-867.8	498,521.26	819,880.03	32° 22' 2.199 N	103° 25' 52.233 W
16,700.0		179.66	9,700.0	-6,755.6	-867.2	498,421.26	819,880.63	32° 22' 1.209 N	103° 25' 52.235 W
16,800.0		179.66	9,700.0	-6,855.6	-866.6	498,321.26	819,881.23	32° 22' 0.220 N	103° 25' 52.238 W
16,900.0		179.66	9,700.0	-6,955.6	-866.0	498,221.27	819,881.83	32° 21' 59.231 N	103° 25' 52.241 W
17,000.0	90.00	179.66	9,700.0	-7,055.6	-865.4	498,121.27	819,882.43	32° 21' 58.241 N	103° 25' 52.244 W
17,100.0	90.00	179.66	9,700.0	-7,155.6	-864.8	498,021.27	819,883.04	32° 21' 57.252 N	103° 25' 52.247 W
17,200.0	90.00	179.66	9,700.0	-7,255.6	-864.2	497,921.27	819,883.64	32° 21' 56.262 N	103° 25' 52.249 W
17,300.0		179.66	9,700.0	-7,355.6	-863.6	497,821.27	819,884.24	32° 21' 55.273 N	103° 25' 52.252 W
17,400.0		179.66	9,700.0	-7,455.6	-863.0	497,721.28	819,884.84	32° 21' 54.283 N	103° 25' 52.255 W
17,500.0		179.66	9,700.0	-7,555.6	-862.4	497,621.28	819,885.44	32° 21' 53.294 N	103° 25' 52.258 W
17,600.0		179.66	9,700.0	-7,655.6	-861.8	497,521.28	819,886.04	32° 21' 52.304 N	103° 25' 52.261 W
17,700.0		179.66	9,700.0	-7,755.6	-861.2	497,421.28	819,886.65	32° 21' 51.315 N	103° 25' 52.263 W
17,800.0		179.66	9,700.0	-7,855.6	-860.6	497,321.28	819,887.25	32° 21' 50.325 N	103° 25' 52.266 W
17,900.0		179.66	9,700.0	-7,955.6	-860.0	497,221.28	819,887.85	32° 21' 49.336 N	103° 25' 52.269 W
18,000.0		179.66 179.66	9,700.0	-8,055.6	-859.4	497,121.29	819,888.45	32° 21' 48.346 N	103° 25' 52.272 W
18,100.0			9,700.0 9,700.0	-8,155.6	-858.8	497,021.29	819,889.05 819,889.65	32° 21' 47.357 N 32° 21' 46.367 N	103° 25' 52.275 W 103° 25' 52.278 W
18,200.0 18,300.0		179.66 179.66	9,700.0 9,700.0	-8,255.6 -8,355.6	-858.2 -857.6	496,921.29 496,821.29	819,889.05	32° 21' 45.378 N	103° 25' 52.278 W
18,400.0		179.66	9,700.0	-8,455.6	-857.0	496,721.29	819,890.86	32° 21' 44.388 N	103° 25' 52.283 W
18,500.0		179.66	9,700.0	-8,555.6	-856.4	496,621.30	819,891.46	32° 21' 43.399 N	103° 25' 52.285 W
18,600.0		179.66	9,700.0	-8,655.6	-855.8	496,521.30	819,892.06	32° 21' 43.399 N 32° 21' 42.409 N	103° 25' 52.289 W
18,700.0		179.66	9,700.0	-8,755.6	-855.2	496,421.30	819,892.66	32° 21' 41.420 N	103° 25' 52.292 W
18,800.0		179.66	9,700.0	-8,855.6	-854.6	496,321.30	819,893.27	32° 21' 40.430 N	103° 25' 52.294 W
18,900.0		179.66	9,700.0	-8,955.6	-854.0	496,221.30	819,893.87	32° 21' 39.441 N	103° 25' 52.297 W
19,000.0		179.66	9,700.0	-9,055.6	-853.4	496,121.30	819,894.47	32° 21' 38.451 N	103° 25' 52.300 W
19,100.0		179.66	9,700.0	-9,155.6	-852.8	496,021.31	819,895.07	32° 21' 37.462 N	103° 25' 52.303 W
19,200.0		179.66	9,700.0	-9,255.6	-852.2	495,921.31	819,895.67	32° 21' 36.472 N	103° 25' 52.306 W

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COMPASS 5000.17 Build 03

Database:	Compass_17	Local Co-ordinate Reference:	Well AIRSTREAM 24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,300.0		179.66	9,700.0	-9,355.6	-851.6	495,821.31	819,896.27	32° 21' 35.483 N	103° 25' 52.308 W
19,400.0		179.66	9,700.0	-9,455.6	-851.0	495,721.31	819,896.88	32° 21' 34.493 N	103° 25' 52.311 W
19,500.0		179.66	9,700.0	-9,555.6	-850.4	495,621.31	819,897.48	32° 21' 33.504 N	103° 25' 52.314 W
19,600.0		179.66	9,700.0	-9,655.6	-849.8	495,521.32	819,898.08	32° 21' 32.514 N	103° 25' 52.317 W
19,700.0		179.66	9,700.0	-9,755.6	-849.2	495,421.32	819,898.68	32° 21' 31.525 N	103° 25' 52.320 W
19,800.0	90.00	179.66	9,700.0	-9,855.6	-848.6	495,321.32	819,899.28	32° 21' 30.535 N	103° 25' 52.322 W
19,900.0		179.66	9,700.0	-9,955.6	-848.0	495,221.32	819,899.88	32° 21' 29.546 N	103° 25' 52.325 W
20,000.0		179.66	9,700.0	-10,055.6	-847.4	495,121.32	819,900.49	32° 21' 28.556 N	103° 25' 52.328 W
20,100.0		179.66	9,700.0	-10,155.6	-846.8	495,021.32	819,901.09	32° 21' 27.567 N	103° 25' 52.331 W
20,200.0		179.66	9,700.0	-10,255.6	-846.2	494,921.33	819,901.69	32° 21' 26.577 N	103° 25' 52.334 W
20,300.0		179.66	9,700.0	-10,355.6	-845.6	494,821.33	819,902.29	32° 21' 25.588 N	103° 25' 52.337 W
20,400.0 20,500.0		179.66 179.66	9,700.0 9,700.0	-10,455.6 -10,555.6	-845.0 -844.4	494,721.33 494,621.33	819,902.89 819,903.50	32° 21' 24.598 N 32° 21' 23.609 N	103° 25' 52.339 W 103° 25' 52.342 W
20,500.0		179.66	9,700.0	-10,555.6	-843.8	494,521.33	819,903.50	32° 21' 23.609 N 32° 21' 22.619 N	103° 25' 52.342 W
20,000.0		179.66	9,700.0	-10,755.6	-843.1	494,421.34	819,904.70	32° 21' 21.630 N	103° 25' 52.348 W
20,800.0		179.66	9,700.0	-10,855.6	-842.5	494,321.34	819,905.30	32° 21' 20.640 N	103° 25' 52.351 W
20,900.0		179.66	9,700.0	-10,955.6	-841.9	494,221.34	819,905.90	32° 21' 19.651 N	103° 25' 52.353 W
21,000.0		179.66	9,700.0	-11,055.6	-841.3	494,121.34	819,906.50	32° 21' 18.661 N	103° 25' 52.356 W
21,100.0		179.66	9,700.0	-11,155.6	-840.7	494,021.34	819,907.11	32° 21' 17.672 N	103° 25' 52.359 W
21,200.0	90.00	179.66	9,700.0	-11,255.6	-840.1	493,921.34	819,907.71	32° 21' 16.682 N	103° 25' 52.362 W
21,300.0		179.66	9,700.0	-11,355.6	-839.5	493,821.35	819,908.31	32° 21' 15.693 N	103° 25' 52.365 W
21,400.0		179.66	9,700.0	-11,455.6	-838.9	493,721.35	819,908.91	32° 21' 14.703 N	103° 25' 52.367 W
21,500.0		179.66	9,700.0	-11,555.6	-838.3	493,621.35	819,909.51	32° 21' 13.714 N	103° 25' 52.370 W
21,600.0		179.66	9,700.0	-11,655.6	-837.7	493,521.35	819,910.12	32° 21' 12.724 N	103° 25' 52.373 W
21,700.0		179.66	9,700.0	-11,755.6	-837.1	493,421.35	819,910.72	32° 21' 11.735 N	103° 25' 52.376 W
21,800.0 21,900.0		179.66 179.66	9,700.0 9,700.0	-11,855.6 -11,955.6	-836.5 -835.9	493,321.36 493,221.36	819,911.32 819,911.92	32° 21' 10.745 N 32° 21' 9.756 N	103° 25' 52.379 W 103° 25' 52.381 W
22,000.0		179.66	9,700.0	-12,055.6	-835.3	493,121.36	819,912.52	32° 21' 9.756 N 32° 21' 8.766 N	103° 25' 52.384 W
22,000.0		179.66	9,700.0	-12,055.6	-834.7	493,021.36	819,913.12	32° 21' 7.777 N	103° 25' 52.387 W
22,200.0		179.66	9,700.0	-12,255.5	-834.1	492,921.36	819,913.73	32° 21' 6.787 N	103° 25' 52.390 W
22,300.0		179.66	9,700.0	-12,355.5	-833.5	492,821.36	819,914.33	32° 21' 5.798 N	103° 25' 52.393 W
22,400.0		179.66	9,700.0	-12,455.5	-832.9	492,721.37	819,914.93	32° 21' 4.808 N	103° 25' 52.396 W
22,500.0	90.00	179.66	9,700.0	-12,555.5	-832.3	492,621.37	819,915.53	32° 21' 3.819 N	103° 25' 52.398 W
22,600.0	90.00	179.66	9,700.0	-12,655.5	-831.7	492,521.37	819,916.13	32° 21' 2.829 N	103° 25' 52.401 W
22,700.0		179.66	9,700.0	-12,755.5	-831.1	492,421.37	819,916.73	32° 21' 1.840 N	103° 25' 52.404 W
22,800.0		179.66	9,700.0	-12,855.5	-830.5	492,321.37	819,917.34	32° 21' 0.850 N	103° 25' 52.407 W
22,900.0		179.66	9,700.0	-12,955.5	-829.9	492,221.37	819,917.94	32° 20' 59.861 N	103° 25' 52.410 W
23,000.0		179.66	9,700.0	-13,055.5	-829.3	492,121.38	819,918.54	32° 20' 58.871 N	103° 25' 52.412 W
23,100.0 23,200.0		179.66 179.66	9,700.0 9,700.0	-13,155.5 -13,255.5	-828.7 -828.1	492,021.38 491,921.38	819,919.14 819,919.74	32° 20' 57.882 N 32° 20' 56.892 N	103° 25' 52.415 W 103° 25' 52.418 W
23,200.0		179.66	9,700.0	-13,255.5	-827.5	491,821.38	819,920.35	32° 20' 55.903 N	103° 25' 52.418 W
23,400.0		179.66	9,700.0	-13,455.5	-826.9	491,721.38	819,920.95	32° 20' 54.913 N	103° 25' 52.424 W
23,500.0		179.66	9,700.0	-13,555.5	-826.3	491,621.39	819,921.55	32° 20' 53.924 N	103° 25' 52.426 W
23,600.0		179.66	9,700.0	-13,655.5	-825.7	491,521.39	819,922.15	32° 20' 52.934 N	103° 25' 52.429 W
23,700.0		179.66	9,700.0	-13,755.5	-825.1	491,421.39	819,922.75	32° 20' 51.945 N	103° 25' 52.432 W
23,800.0		179.66	9,700.0	-13,855.5	-824.5	491,321.39	819,923.35	32° 20' 50.955 N	103° 25' 52.435 W
23,900.0	90.00	179.66	9,700.0	-13,955.5	-823.9	491,221.39	819,923.96	32° 20' 49.966 N	103° 25' 52.438 W
24,000.0		179.66	9,700.0	-14,055.5	-823.3	491,121.39	819,924.56	32° 20' 48.976 N	103° 25' 52.440 W
24,100.0		179.66	9,700.0	-14,155.5	-822.7	491,021.40	819,925.16	32° 20' 47.987 N	103° 25' 52.443 W
24,200.0		179.66	9,700.0	-14,255.5	-822.1	490,921.40	819,925.76	32° 20' 46.997 N	103° 25' 52.446 W
24,300.0		179.66	9,700.0	-14,355.5	-821.5	490,821.40	819,926.36	32° 20' 46.008 N	103° 25' 52.449 W
24,400.0 24,500.0		179.66	9,700.0	-14,455.5	-820.9	490,721.40	819,926.96	32° 20' 45.018 N	103° 25' 52.452 W
		179.66 179.66	9,700.0 9,700.0	-14,555.5	-820.3 -819.7	490,621.40	819,927.57	32° 20' 44.029 N 32° 20' 43.039 N	103° 25' 52.454 W 103° 25' 52.457 W
24,600.0 24,700.0		179.66	9,700.0 9,700.0	-14,655.5 -14,755.5	-819.7 -819.1	490,521.41 490,421.41	819,928.17 819,928.77	32° 20' 43.039 N 32° 20' 42.050 N	103° 25' 52.460 W
24,100.0	00.00		0,700.0	1,100.0	510.1	100,721.71	010,020.11	32 20 72.000 N	

9/25/2024 11:21:34AM

COMPASS 5000.17 Build 03

Database:	Compass 17	Local Co-ordinate Reference:	Well AIRSTREAM 24 ST COM 301H
Company:	NEW MEXICO	TVD Reference:	KB=26 @ 3524.0usft
Project:	(SP) LEA	MD Reference:	KB=26 @ 3524.0usft
Site:	AIRSTREAM 24 ST COM PROJECT	North Reference:	Grid
Well:	AIRSTREAM 24 ST COM 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
24,800.0	90.00	179.66	9,700.0	-14,855.5	-818.5	490,321.41	819,929.37	32° 20' 41.060 N	103° 25' 52.463 W
24,900.0	90.00	179.66	9,700.0	-14,955.5	-817.9	490,221.41	819,929.97	32° 20' 40.071 N	103° 25' 52.466 W
25,000.0	90.00	179.66	9,700.0	-15,055.5	-817.3	490,121.41	819,930.58	32° 20' 39.081 N	103° 25' 52.468 W
25,100.0	90.00	179.66	9,700.0	-15,155.5	-816.7	490,021.41	819,931.18	32° 20' 38.092 N	103° 25' 52.471 W
25,200.0	90.00	179.66	9,700.0	-15,255.5	-816.1	489,921.42	819,931.78	32° 20' 37.102 N	103° 25' 52.474 W
25,300.0	90.00	179.66	9,700.0	-15,355.5	-815.5	489,821.42	819,932.38	32° 20' 36.113 N	103° 25' 52.477 W
25,400.0	90.00	179.66	9,700.0	-15,455.5	-814.9	489,721.42	819,932.98	32° 20' 35.123 N	103° 25' 52.480 W
25,500.0	90.00	179.66	9,700.0	-15,555.5	-814.3	489,621.42	819,933.58	32° 20' 34.134 N	103° 25' 52.482 W
25,600.0	90.00	179.66	9,700.0	-15,655.5	-813.7	489,521.42	819,934.19	32° 20' 33.144 N	103° 25' 52.485 W
25,700.0	90.00	179.66	9,700.0	-15,755.5	-813.1	489,421.43	819,934.79	32° 20' 32.155 N	103° 25' 52.488 W
25,800.0	90.00	179.66	9,700.0	-15,855.5	-812.5	489,321.43	819,935.39	32° 20' 31.165 N	103° 25' 52.491 W
25,900.0	90.00	179.66	9,700.0	-15,955.5	-811.9	489,221.43	819,935.99	32° 20' 30.176 N	103° 25' 52.494 W
26,000.0	90.00	179.66	9,700.0	-16,055.5	-811.3	489,121.43	819,936.59	32° 20' 29.186 N	103° 25' 52.496 W
26,093.9	90.00	179.66	9,700.0	-16,149.4	-810.7	489,027.50	819,937.16	32° 20' 28.257 N	103° 25' 52.499 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
FTP-AIRSTREAM 24 - plan misses targe - Point	0.00 et center by 2	0.00 2.2usft at 10	9,700.0 0451.7usft	-507.4 MD (9700.0	-907.0 TVD, -507.4	504,669.48 N, -904.8 E)	819,840.82	32° 23' 3.036 N	103° 25' 52.085 W
BHL-AIRSTREAM 24 - plan hits target ce - Point	0.00 enter	0.00	9,700.0	-16,149.4	-810.7	489,027.50	819,937.16	32° 20' 28.257 N	103° 25' 52.499 W

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,600.0	2,595.6	22.7	-58.4	Start 3791.7 hold at 2600.0 MD
6,391.7	6,304.4	307.9	-793.3	Start Drop -1.00
7,591.7	7,495.7	353.2	-910.0	Start 1726.8 hold at 7591.7 MD
9,318.5	9,222.5	353.2	-910.0	Start DLS 12.00 TFO 179.66
10,068.5	9,700.0	-124.3	-907.1	Start 16025.4 hold at 10068.5 MD
26,093.9	9,700.0	-16,149.4	-810.7	TD at 26093.9

Permian Resources - Airstream 24 State Com 301H

1. Geologic Formations

Formation	Elevation	TVD	Target
Rustler	1730	1797	No
Top of Salt	814	2713	No
Yates	-402	3929	No
Capitan	-843	4370	No
Cherry Canyon	-2471	5998	No
Brushy Canyon	-3688	7215	No
Bone Spring Lime	-5049	8576	No
1st Bone Spring Sand	-6123	9650	Yes
2nd Bone Spring Sand	-6635	10162	No
3rd Bone Spring Sand	-7476	11003	No
Wolfcamp	-7816	11343	No

2. Blowout Prevention

BOP installed and tested before drilling	Size?	Min. Required WP	Туре		x	Tested to:	
			Anr	nular	х	2500 psi	
		5M	Blind	Ram	Х		
12.25	13-5/8"		Pipe Ram		х	5000 psi	
			Double Ram				
			Other*				
			Anr	nular	Х	2500 psi	
			Blind Ram Pipe Ram Double Ram		х	5000 psi	
8.75	13-5/8"	5M			Х		
			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	Top	Bottom	Top TVD	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	9318	0	9700	9318	VA-SS-95	20	VARN	2.23	2.32	Dry	1.98	Dry	1.98
Production	8.75	5.5	9318	26093	9700	9700	16775	P110RY	20	GeoConn	2.10	2.32	Dry	2.18	Dry	2.18
								BLM Mi	n Safe	ty 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	9318	560	2.41	11.5	1330	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	9318	26093	3070	1.73	12.5	5300	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: 14840 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	9318	Water Based Mud	9	10.5
9318	26093	OBM	9	10.5

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

Athenatesegenormalaisere	53003005 psi
Atificipatedegutaraceressuare	3162 625 psi
Athlicitated boom and the sense fuller	15353 °F
Anticipated Andronal argests are report degeoralizards	NoNo

8. Waste Management

waste Management	
Waste Type:	Drilling
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Waste Type:	Grey Water & Human Waste
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Waste Type:	Drilling
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9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached WBD: attached Flex Hose Specs: attached Offline Cementing Procedure Attached:



H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation Airstream 24 State Com 301H, 302H Lea County, New Mexico

> 09-26-2024 This plan is subject to updating

Permian Resources Corporation	H ₂ S Contingency Plan Airstream 24 State Com 301H, 302H	Lea County, New Mexico

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1.	Appendix A – H₂S SDS

II. Appendix B – SO₂ SDS

Section 1.0 – Introduction

I. Purpose

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

II. Scope & Applicability

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

Section 2.0 - Plan Implementation

I. Activation Requirements

In accordance with the requirements of Bureau of Land Management Onshore Order #6 and NMAC 19.15.11, this Plan shall be activated in advance of any authorized, planned, unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of 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 H₂S, 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.

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Permian Resources Corporation	H ₂ S Contingency Plan	Lea County, New Mexico
	Airstream 24 State Com 301H, 302H	

H2S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER	√
H ₂ S CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH -> WARNING ST GREEN	IGN
H ₂ S concentration <10 ppm detected by location monitors	
General Actions During Condition 1	
Notify Site Supervisor / Permian Resources Person-in-Charge (PIC) of any observed increase in ambient H ₂ S concentrations	
All personnel check safety equipment is in adequate working order & store in accessible location	
Sensitize crews with safety meetings.	
Limit visitors and non-essential personnel on location	
Continuously monitor H ₂ S concentrations and check calibration of sensors	
Ensure H_2S scavenger is on location.	
H₂S CONDITION 2: MODERATE DANGER TO LIFE AND HEALTH → WARNING SIGN YELLOW	
H ₂ S concentration >10 ppm and < 30 ppm in atmosphere detected by location monitors:	
General Actions During Condition 2	
Sound H ₂ S alarm and/or display yellow flag.	
Account for on-site personnel	
Upon sounding of an area or personal H_2S 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	
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

Lea County, New Mexico

Airstream 24 State Com 301H, 302H H₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED > 30 ppm H₂S concentration in air detected by location monitors: Extreme danger to life **General Actions During Condition 3** Sound H₂S alarm and/or display red flag. Account for on-site personnel Move away from H₂S source and get out of the affected area. Proceed to designated safe briefing area; alert other affected personnel. Account for personnel at safe briefing area. If trained and safe to do so undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation. Notify vehicles or situation and divert all traffic away from location. Permian Resources Peron-in-Charge will make appropriate community notifications. Red warning flag must be on display until the situation has been corrected and the Permian Resources Person-in-Charge determines it is safe to resume operations under Condition 1. Notify management of the condition and action taken. If H₂S 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_2S Contingency Plan. If well control at the surface is lost, determine if situation warrants igniting the well. If uncontrolled flow at the surface occurs, the Permian Resources PIC, with approval, if possible, from those coordinating the emergency (as specified in the site-specific H_2S **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 H₂S will be converted to sulfur dioxide (SO₂), 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 SO₂ 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 H₂S 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.

H₂S Contingency Plan

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Permian Resources Corporation	H ₂ S Contingency Plan Airstream 24 State Com 301H, 302H	Lea County,	New Mexico
Make recommendations to pr appropriate.	ublic officials regarding evacuating the public a	nd assist as	
Monitor ambient air in the ar	ea of exposure (after following abatement meas	sures) to	

Section 4.0 - Notification of H₂S Release Event

determine when it is safe for re-entry.

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 H₂S 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 H₂S gas or any associated byproducts of combustion, notify local law enforcement agencies and ask for their assistance in alerting the general public and limiting access to any public roads that may be impacted by such a release.

III. New Mexico Oil Conservation Division

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

IV. New Mexico Environment Department

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

V. Bureau of Land Management

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

Permian Resour	rces Corporation	H ₂ S 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	ations		
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 & Re	gulatory		
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 Agen	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		

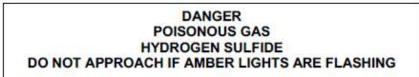
Section 6.0 – Drilling Location Information

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.

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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.



4. <u>H₂S Detectors and Alarms</u>

- a. Continuous monitoring type H_2S detectors, capable of sensing a minimum of 5ppm H_2S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO_2 detector will also be located at the combustor. The automatic H_2S alarm/flashing light will be located at the site entrance and in front of tank battery.
- 5. Safety Trailer
 - a. A safety trailer equipped with an emergency cascade breathing air system with 2 ea. Work/escape packs, a stretcher, 2 OSHA approved full body harnesses, and a 20# Class ABC fire extinguisher shall be available at the site in close proximity to the safe briefing area. The cascade system shall be able to be deployed to the drill floor when needed to provide safe breathing air to the workers as needed.
- 6. Well Control Equipment
 - a. The location shall have a flare line to a remote automatic ignitor and back up flare gun, placed 150' from the wellhead.
 - b. The location shall be equipped with a remotely operated choke system and a mud gas separator.

7. Mud Program

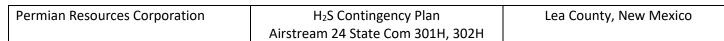
- a. Company shall have a mud program that contains sufficient weight and additives to control H_2S .
- 8. Metallurgy
 - a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure.
- 9. Communication
 - a. The location shall be equipped with a means of effective communication such as a cell phones, intercoms, satellite phones or landlines.

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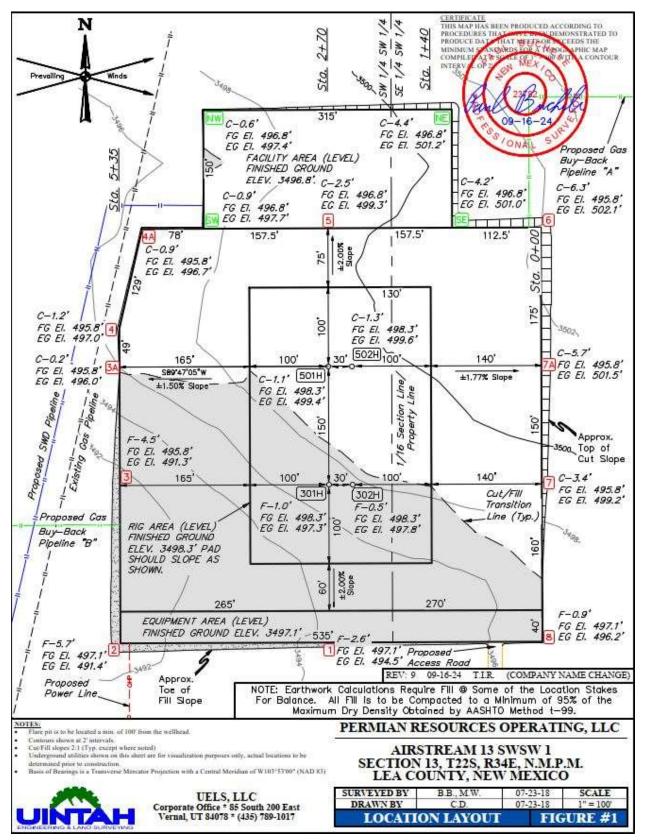
II. Directions to Location

BEGINNING AT THE INTERSECTION OF AVENUE O AND STATE HIGHWAY 207 IN EUNICE, NEW MEXICO, PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 207 APPROXIMATELY 3.0 MILES TO THE JUNCTION OF THIS ROAD AND DELAWARE BASIN ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHERLY, THEN WESTERLY, THEN SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 20.3 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 32 TO THE NORTH; TURN RIGHT 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 AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN AN SOUTHERLY DIRECTION APPROXIMATELY 192' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM INTERSECTION OF AVENUE O AND STATE HIGHWAY 207 IN EUNICE, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 28.0 MILES.

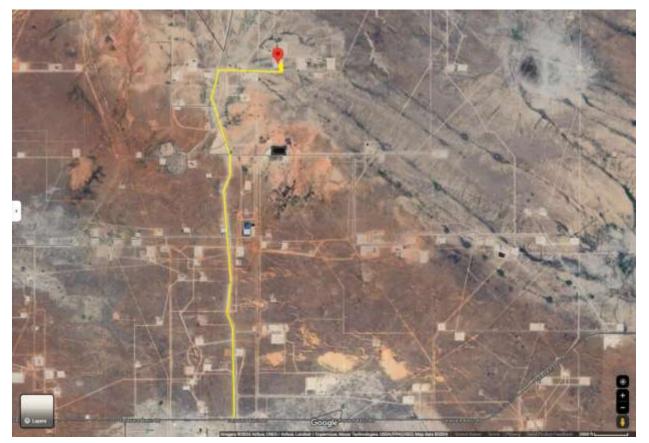


Plat of Location



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1. Routes of Ingress & Egress (MAP)



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

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

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

Enter H ₂ S 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: 32.385781, Long: -103.428228*
- 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 3475' from the location.

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Section 7.0 – Hazard Communication

I. Physical Characteristics of Hydrogen Sulfide Gas

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

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

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

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

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.

Table 7.0. Physical Properties of H₂S

Although H₂S 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

Concentration	Symptoms/Effects
(ppm)	

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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

H₂S and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide SO₂ is produced as a constituent of flaring H₂S Gas and can present hazards associated, which are similar to H₂S. Although SO₂ 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.

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

Section 8.0 - Regulatory Information

I. OSHA & NIOSH Information

II. Table 8.0. OSHA & NIOSH H₂S Information

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.

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)

Calculating H₂S Radius of Exposure

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The ROE of an H₂S release is calculated to determine if a potentially hazardous volume of H₂S gas at 100 or 500 parts per million (ppm) is within a regulated distance requiring further action. If information about the concentration of H₂S 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 **<u>100 ppm ROE</u>**:

 $x = [(1.589) \text{ (mole fraction H}_2S)(Q)]^{(.6258)}$.

To determine the extent of the **<u>500 ppm ROE</u>**:

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

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 (ft ³ /d) normalized to standard temperature and pressure, 60°F and 14.65 psia
Mole fraction H ₂ S =	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**.
 - **CASE 1** -100 ppm ROE < 50'
 - **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.

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Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

NMAC 19.15.11 & BLM COMPLIANCE REQUIREMENTS	5 - DRILLI	ING & PRO	DUCTION
PROVISION	CASE 1	CASE 2	CASE 3
H ₂ S Concentration Test	Х	X	Х
H-9	Х	X	Х
Training	Х	Х	X
District Office Notification	Х	X	Х
Drill Stem Tests Restricted	X*	X*	Х
BOP Test	X*	X*	Х
Materials		Х	X
Warning and Marker		X	Х
Security		X	Х
Contingency Plan			Х
Control and Equipment Safety			Х
Monitors		X**	X**
Mud (ph Control or Scavenger)			X*
Wind Indicators		X**	X
Protective Breathing Equipment		X**	Х
Choke Manifold, Secondary Remote Control, and Mud-Gas Separator			Х
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 H₂S as part of routine or maintenance work.

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

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Locations of safe briefing areas.

Refresher training will be conducted annually.

Section 10.0 - Personal Protective Equipment

I. <u>Personal H₂S Monitors</u>

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
- 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. <u>Respiratory Protection</u>

111.

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.

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Appendix A

H₂S SDS

	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 CAS No	: Hydrogen sulfide : 7783-06-4
Formula	: H2S
Other means of identification	: Hydrogen sulfide
Product group	: Core Products
1.2. Recommended use and	restrictions on use
Recommended uses and restriction	
1.3. Supplier	
Praxai: Canada inc. 1200 - 1 City Centre Drive Mississauga - Canada LSB 1M2 T 1-905-803-1600 - F 1-905-803-16 www.praxair.ca	582
1.4. Emergency telephone n	tumber
Emergency number	: 1-800-383-0042 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.
2/1. Classification of the sul	ostance of mixture
Flam. Gas 1 H2 LiqueSed gas H2 Acute Tox. 2 (Inhalation: gas) H3	220 280 330 335
Flam. Gas 1 H2 Liquefied gas H2 Acute Tox. 2 (Inhalation: gas) H3 STOT SE 3 H3	280 330
Liquefied gas H2 Acute Tox. 2 (Inhalation: gas) H3 STOT SE 3 H3	180 130 136
Flam. Gas 1 H2 LiqueRied gas H2 Acute Tox. 2 (Inhalation: gas) H3 STOT SE 3 H3 Z.2. GHS Label elements, in GHS-CA labelling	iso 1335 Including precautionary statements
Flam. Gas 1 H2 Liquefied gas H2 Acute Tox. 2 (Inhalation: gas) H3 STOT SE 3 H3 2.2. GH5 Label elements, in	180 130 136
Flam. Gas 1 H2 LiqueField gas H2 Acute Tox. 2 (Inhalation: gas) H3 STOT SE 3 H3 2.2. GHS Label elements, in GHS-CA labelling Hazard pictograms	280 130 135 including precautionary statements

EN (English)

SDS ID . E-4611

1/9

Permian Resources Corporation		H ₂ S (Contingency	Plan	Lea County, New Mexic
	·	Airstream 24			
	PRAXAIR	Date of issue: 10-15-1979 Do not breath Use and store Avoid release Wear protection Leaking gas 1 In case of lea Store locked	et E-4611 roducts Regulation (F Revision date: 08 e gas c only outdoors or in to the environment ve gloves, protectiv ire: Do not extinguis kage, eliminate all i up	-10-2016 Supersede a well-ventilated area e clothing, eye protection sh, unless leak can be st gnition sources	
	2.3 Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS	Protect from a Close valve a Do not open When returnin Do not depen	sunlight when ambie fler each use and w valve until connecte ng cylinder, install le	Int temperature exceeds when empty d to equipment prepared ask tight valve outlet cap at the presence of gas	l for use
	No data available				
	SECTION 3: Composition/infor	mation on ingredie	ints		
	SECTION 3: Composition/infor 3.1. Substances	mation on ingredie	nts		
	3.1. Substances Name	CAS No.	% (Vol.)	Common Name (s	A Stream of the Contract of the second that and a second
	3.1. Substances			Hydrogen sulfide (H2)	synonyms) S) / Hydrogen sulphide / Sulfur hydride / Dhydrogen sulphide / Hydrogensulfide
	3.1. Substances Name Hydrogen suffide (Main constituent)	CAS No.	% (Vol.)	Hydrogen sulfide (H2)	S) / Hydrogen sulphide / Sulfur hydride /
	3.1. Substances Name Hydrogen sulfide	CAS No.	% (Vol.)	Hydrogen sulfide (H2)	S) / Hydrogen sulphide / Sulfur hydride /
	3.1. Substances Name Hydrogen sulfide (Main constituent) 3.2. Mixtures Not applicable	CAS No. (CAS No) 7783-06-4	% (Vol.)	Hydrogen sulfide (H2)	S) / Hydrogen sulphide / Sulfur hydride /
	Name Hydrogen sulfide (Main constituent) 3.2 Mixtures	CAS No. CAS No: 7783-06-4	% (Vol.)	Hydrogen sulfide (H2)	S) / Hydrogen sulphide / Sulfur hydride /
	3.1. Substances Name Hydrogen suffice (Man construent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures	CAS No. (CAS No) 7783-06-4 (CAS No) 7783-06-4 (CAS No) 7783-06-4 (CAS No) 7783-06-4 (CAS No) 7783-06-4 (CAS No) 7783-06-4	% (Vol.) 100	Hydrogen sulfide (H2 Sulfureted hydrogen /	S) / Hydrogen sulphide / Sulfur hydride /
	3.1. Substances Name Hydrogen suffice (Main constituent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures 4.1. Description of first aid measures	CAS No. ICAS No: 7783-06-4 ICAS No: 7783-06-4 S ICAS No: 7783-06-4 ICAS NO: 7780-7 ICAS NO: 778	* (Vol.) 100 esh air and keep at respiration. If breath y cause frostbite. Fo to exceed 105°F n skin warming for a e affected area. In 6	Hydrogen sulfide (H2: Sulfureted hydrogen / rest in a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat I least 15 minutes or un	S) / Hydrogen sulphide / Suffur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, resonnel should give oxygen. Call a mediately warm frostbile area with tim ormal coloring and sensation have e, remove clothing while showering
	3.1. Substances Name Hydrogen suffice (Main constituent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures after inhalation	CAS No. ICAS No; 7783-06-4 ICAS No; 7783-06-4 ICAS No; 7783-06-4 ICAS No; 7783-06-4 ICAS No; 7783-06-4 ICAS No; ICAS NO;	% (Vol.) 100 esh air and keep at respiration. If breath y cause frostbite. Fr ot to exceed 105°F n skin warming for a e affected area. In o ter. Seek medical e lush eyes thorough	Hydrogen sulfide (H2: Sulfureted hydrogen / ing is a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat it least 15 minutes or un valuation and treatment ly with water for at least	S) / Hydrogen sulphide / Suffur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, resonnel should give oxygen. Call a mediately warm frostbile area with tim ormal coloring and sensation have e, remove clothing while showering
	3.1. Substances Name Hydrogen suffice (Man construent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact	CAS No. ICAS No; 7783-06-4 ICAS	% (Vol.) 100 ssh air and keep at respiration. If breath y cause frostbite. Fr ot to exceed 105°F n skin warming for a e affected area. In o ter. Seek medical e lush eyes thoroughl e eyeballs to ensure ist immediately.	Hydrogen sulfide (H2: Sulfureted hydrogen / ing is a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat it least 15 minutes or un valuation and treatment ly with water for at least	 S) / Hydrogen sulphide / Sulfur hydride / Dihydrogen sulphide / Hydrogensulfide Ibhydrogen sulphide / Hydrogensulfide Itable for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal ill normal coloring and sensation have e, remove clothing while showering as soon as possible. Ib minutes. Hold the eyelids open and
	Substances Name Hydrogen suffice (Main constituent) 3.2 Mixtures Not applicable SECTION 4: First-aid measures 4.1 Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	CAS No. (CAS No) 7783-06-4 (CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No. CAS No	% (Vol.) 100 100 esh air and keep at respiration. If breath y cause frostbite. Frot to exceed 105°F n skin warming for a e affected area. In o ter. Seek medical e lush eyes thorough e eyeballs to ensure ist immediately. ot considered a potential of the set of the s	Hydrogen sulfide (H2: Sulfureted hydrogen / rest in a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat it least 15 minutes or un case of massive exposur valuation and treatment ly with water for at least that all surfaces are flue	 S) / Hydrogen sulphide / Sulfur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal ill normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes. Hold the eyelids open and
	Substances Name Hydrogen sulfide (Man construent) 3.2 Mixtures Not applicable SECTION 4: First-aid measures 4.1 Description of first aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion	CAS No. (CAS No) 7783-06-4 (CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No. CAS No	% (Vol.) 100 100 esh air and keep at respiration. If breath y cause frostbite. Frot to exceed 105°F n skin warming for a e affected area. In o ter. Seek medical e lush eyes thorough e eyeballs to ensure ist immediately. ot considered a potential of the set of the s	Hydrogen sulfide (H2: Sulfureted hydrogen / rest in a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat it least 15 minutes or un case of massive exposur valuation and treatment ly with water for at least that all surfaces are flue	 S) / Hydrogen sulphide / Sulfur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal ill normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes. Hold the eyelids open and
	3.1. Substances Name Hydrogen suffice (Main constituent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures SECTION 4: First-aid measures First-aid measures after inhafation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms are Mixtures after symptoms are	CAS No. ICAS No! 7783-06-4 ICAS No! 7783-06-4 CAS No! 7783-06-4 CAS No! 7783-06-4 CAS No! 7783-06-4 CAS No. CAS N	% (Vol.) 100 100 too considered a pote sin considered a pote tayed)	Hydrogen sulfide (H2: Sulfureted hydrogen / rest in a position comfort ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat it least 15 minutes or un case of massive exposur valuation and treatment ly with water for at least that all surfaces are flue	 S) / Hydrogen sulphide / Sulfur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal ill normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes. Hold the eyelids open and
	Substances Name Hydrogen sulfide (Man construent) 3.2 Maxtures Not applicable SECTION 4: First-aid measures 4.1 Description of first aid measures First-aid measures after inhalation First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion 4.2 Most important symptoms ar No additional information available	CAS No. (CAS No) 7783-06-4 (CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No) 7783-06-4 CAS No. CAS No	** (Vol.) 100 100 100 too constant and keep at respiration. If breath y cause frostbite. F ot to exceed 105°F n skin warming for a e affected area. In o tor. Seek medical e lush eyes thorough e eyeballs to ensure ist immediately. ot considered a pote fayed) If necessary	Hydrogen sulfide (H2: Sulfureted hydrogen / Sulfureted hydrogen / ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat at least 15 minutes or un case of massive exposur valuation and treatment by with water for at least that all surfaces are flus ential route of exposure.	 S) / Hydrogen sulphide / Sulfur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal ill normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes. Hold the eyelids open and
	3.1. Substances Name Hydrogen sulfide (Man construent) 3.2. Mixtures Not applicable SECTION 4: First-aid measures SECTION 4: First-aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms ar No additional information available 4.3.	CAS No. ICAS No: 7783-06-4 ICAS No: 7783-06-4 S UNES : Remove to fin give artificial physician. : The liquid ma warm water in skin. Maintai returned to th with warm water is immediately fi away from the ophthalmologi : Ingestion is in ind effects (acute and definition) : Obtain medic	** (Vol.) 100 100 100 too constant and keep at respiration. If breath y cause frostbite. F ot to exceed 105°F n skin warming for a e affected area. In o tor. Seek medical e lush eyes thorough e eyeballs to ensure ist immediately. ot considered a pote fayed) If necessary	Hydrogen sulfide (H2: Sulfureted hydrogen / Sulfureted hydrogen / ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat at least 15 minutes or un case of massive exposur valuation and treatment by with water for at least that all surfaces are flus ential route of exposure.	S) / Hydrogen sulphide / Suffur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal til normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes, Hold the eyelids open and shed thoroughly. Contact an
	3.1. Substances Name Hydrogen suffice (Man construent) 3.2. Maxtures Not applicable SECTION 4: First-aid measures SECTION 4: First-aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms ar No additional information available 4.3. Immediate medical attention Other medical advice or treatment	CAS No. ICAS No: 7783-06-4 ICAS No: 7783-06-4 S UNES : Remove to fin give artificial physician. : The liquid ma warm water in skin. Maintai returned to th with warm water interface to th with warm water is immediately f away from the ophthalmologi : Ingestion is in and effects (acute and defined and special treatment, : Obtain medic	** (Vol.) 100 100 100 too constant and keep at respiration. If breath y cause frostbite. F ot to exceed 105°F n skin warming for a e affected area. In o tor. Seek medical e lush eyes thorough e eyeballs to ensure ist immediately. ot considered a pote fayed) If necessary	Hydrogen sulfide (H2: Sulfureted hydrogen / Sulfureted hydrogen / ing is difficult, trained pe or exposure to liquid, imm (41°C). Water temperat at least 15 minutes or un case of massive exposur valuation and treatment by with water for at least that all surfaces are flus ential route of exposure.	S) / Hydrogen sulphide / Suffur hydride / Dihydrogen sulphide / Hydrogensulfide table for breathing. If not breathing, irsonnel should give oxygen. Call a mediately warm frostbile area with ture should be tolerable to normal til normal coloring and sensation have e, remove clothing while showering as soon as possible. 15 minutes, Hold the eyelids open and shed thoroughly. Contact an

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K	Safety Data Shee according to the Hazardous P		(February 11, 2	2015)	
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5.3. Specific hazards arising from the h	azardous 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 i	precautions for fire-fighters
Firefighting instructions	: DANGER! Toxic, flammable liquefied gas
	Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.
Special protective equipment for fire fighters	Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Other information	: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective e	quipment 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 contain	ment 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: Ex	posure 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 fiame
	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 (trollay, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pr 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 store	ige, including any incompatibilities
Storag	e 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 file and/or explosion damage following appropriate codes and requirements (e.g. NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing ful 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.

SECTI	ON 8:	Exposu	re cont	rols/perso	onal pro	tection	l

Hydrogen sulfide (7783-06-	4)		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm	
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm	
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm	
Canada (Quebec)	VECD (mg/m ³)	21 mg/m ³	
Canada (Quebec)	VECD (ppm)	15 ppm	
Canada (Quebec)	VEMP (mg/m ^a)	14 mg/m ³	
Canada (Quebec)	VEMP (ppm)	10 ppm	
Alberta	OEL Celling (mg/m ³)	21 mg/m ^a	
Alberta	OEL Ceiling (ppm)	15 ppm	
Alberta	OEL TWA (mg/m ³)	14 mg/m ^a	
Alberta	OEL TWA (ppm)	10 ppm	
British Columbia	OEL Ceiling (ppm)	10 ppm	
Manitoba	OEL STEL (ppm)	5 ppm	
Manitoba	OEL TWA (ppm)	1 ppm	
New Brunswick	OEL STEL (mg/m ^a)	21 mg/m ²	
New Brunswick	OEL STEL (ppm)	15 ppm	
New Brunswick	OEL TWA (mg/m ^o)	14 mg/m ^a	
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/m ³)	28 mg/m*	
Nunavut	OEL Celling (ppm)	20 ppm	
Nunavut	OEL STEL (mg/m²)	21 mg/m ^a	
Nunavut	OEL STEL (ppm)	15 ppm	
Nunavut	OEL TWA (mg/m ³)	14 mg/m ^a	
Nunavut	OEL TWA (ppm)	10 ppm	
Northwest Territories	OEL STEL (ppm)	15 ppm	
		2000 L	

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Hydrogen sulfide (7783-0	6-4)		
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/m ²)	21 mg/m ^a	
Québec	VECD (ppm)	15 ppm	
Québec	VEMP (mg/m ^a)	14 mg/m ²	
Quebec	VEMP (ppm)	10 ppm	
Saskatchewan	OEL STEL (ppm)	15 ppm	
Saskatchewan	OEL TWA (ppm)	10 ppm	
Yukon	OEL STEL (mg/m²)	27 mg/m ³	
Yukon	OEL STEL (ppm)	15 ppm	
Yukon	OEL TWA (mg/m²)	15 mg/m ^a	
Yukon	OEL TWA (ppm)	10 ppm	

8.2. Appropriate engineering controls

Appropriate engineering controls

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

B.3. Individual protection measurements	es/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 byfaws 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 cher	nical properties
9.1. Information on basic physics	I and chemical properties
Physical state	: Gas
Appearance	Colorless gas, Colorless liquid at low temperature or under high pressure.

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

 Molecular mass
 : 34 g/mol

 Colour
 : Colourless.

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

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

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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
Freezing point	: -82.9 °C
Boiling point	: -60.3 °C
Flash point	: Not applicable.
Critical temperature	: 100.4 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: No data available
Vapour pressure	: 1880 kPa
Vapour pressure at 50 °C	: No data available
Critical pressure	: 8940 kPa
Relative vapour density at 20 °C	: >*
Relative density	: No data available
Relative density of saturated gas/air mixt	ure : No data available
Density	: No data available
Relative gas density	: 1.2
Solubility	: Water: 3980 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
viscosity, dynamic	: Not applicable.
Viscosity, kinematic (calculated value) (4	
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Flammability (solid, gas)	: 4.3 - 46 vol %
9.2. Other information	
Gas group	: Liquefied gas

	ground level
SECTION 10: Stability and read	tivity
10.1. Reactivity	
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: May react violently with oxidants. Can form explosive mixture with air.
Conditions to avoid	: Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces - No smoking.
Incompatible materials	: Ammonia. Bases. Bromine pentafluoride. Chlorine trifluoride. chromium trioxide. (and heat). 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 info 11.1. Information on foxicological	
11.1. Information on toxicological	energes
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified

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

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Additional information

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	ALCONTRACT AND ALCONTRACT			
Revision date:	08-10-2016	Supersedes:	10-15-2013	

Acute toxicity (inhalation)	: Inhalation:gas: FATAL IF INHALED.
Hydrogen sulfide (\f)7783-06-4	
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)
LC50 inhalation rat (ppm)	356 ppm/4h
ATE CA (gases)	356.0000000 ppmv/4h
ATE CA (vapours)	0.9900000 mg/V4h
ATE CA (dust,mist)	0.99000000 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: Not applicable.
Serious eye damage/irritation	: Not classified
	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 exposure)	: Not classified
Aspiration hazard	: Not classified

12.1. Toxicity	
Ecology - general	: VERY TOXIC TO AQUATIC LIFE.
Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
12.2. Persistence and degradabili	ty
Hydrogen sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.
12.3. Bioaccumulative potential	
Hydrogen sulfide (7783-06-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
Hydrogen sulfide (7783-06-4)	
Mobility in soil	No data available.
Log Pow	Not applicable.
Log Kow	Not applicable.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution
12.5. Other adverse effects	
Other adverse effects	: May cause pH changes in aqueous ecological systems.
Effect on the ozone layer	; None
Effect on global warming	: No known effects from this product

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Date of iss	ue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013
SECTION 13: Disposal consideration	5
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
Passenger Carrying Ship Index	Forbidden
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: Forbidden
14.3. Air and sea transport	
IMDG	
UN-No. (IMDG)	: 1053
Proper Shipping Name (IMDG)	: HYDROGEN SULPHIDE
Class (IMDG)	: 2 - Gases
MFAG-No	1117
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 Substan	ices List)
15.2. International regulations	
Hydrogen sulfide (7783-06-4)	
Listed on the AICS (Australian Inventory of Che Listed on IECSC (Inventory of Existing Chemica Listed on the EEC inventory EINECS (Europear Listed on the Japanese ENCS (Existing & New Listed on the Korean ECL (Existing Chemicals L Listed on NZIoC (New Zealand Inventory of Che Listed on PICCS (Philippines Inventory of Chem Listed on the United States TSCA (Toxic Substa Listed on INSQ (Mexican national Inventory of Chem	il Substances Produced or Imported in China) Inventory of Existing Commercial Chemical Substances) Chemical Substances) inventory Jist) imicals) incles and Chemical Substances) inces Control Act) inventory
SECTION 16: Other information	
Date of issue	: 15/10/1979
Revision date	: 10/08/2016
Supersedes	: 15/10/2013
Indication of changes:	
Training advice	: Users of breathing apparatus must be trained. Ensure operators understand the toxicity haz Ensure operators understand the flammability hazard.

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PRAXAIR	Hydrogen sulfide Safety Data Sheet E-4611 scoording to the Hazardous Products Regulation (February 11, 2015)	
	Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013	
Other Information	When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product	
	Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) as each purchaser to notify its employees and customers of the product hazards and safety information	
	The opinions expressed herein are those of qualified experts within Praxair Canada Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair Canada Inc, it is the user's obligation to determine the conditions of safe use of the product. Praxair Canada Inc, SDSs are furnished on sale or delivery by Praxair Canada Inc, or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.ca. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write Praxair Canada Inc. (Phone: 1-888-257-5149; Address: Praxair Canada Inc, 1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2)	
	PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxai Technology, Inc. in the United States and/or other countries.	
NFPA health hazard	: 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	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 a normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.	

SDS Canada (GHS) - Praxair

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

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SDS ID : E-4611

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 SO_2SDS



Safety Data Sheet

Material Name: SULFUR DIOXIDE SDS ID: MAT22290 Section 1 - PRODUCT AND COMPANY IDENTIFICATION Material Name SULFUR DIOXIDE Synonyms MTG MSDS 80; SULFUROUS ACID ANHYDRIDE; SULFUROUS OXIDE; SULPHUR DIOXIDE; SULFUROUS ANHYDRIDE; FERMENTICIDE LIQUID; SULFUR DIOXIDE(SO2); SULFUR OXIDE; SULFUR OXIDE(SO2) **Chemical Family** inorganic, gas **Product Description** Classification determined in accordance with Compressed Gas Association standards. **Product Use** Industrial and Specialty Gas Applications. **Restrictions on Use** None known. Details of the supplier of the safety data sheet MATHESON TRI-GAS, INC. 3 Mountainview Road Warren, NJ 07059 General Information: 1-800-416-2505 Emergency #: 1-800-424-9300 (CHEMTREC) Outside the US: 703-527-3887 (Call collect) Section 2 - HAZARDS IDENTIFICATION Classification in accordance with paragraph (d) of 29 CFR 1910.1200. Gases Under Pressure - Liquefied gas Acute Toxicity - Inhalation - Gas - Category 3 Skin Corrosion/Irritation - Category 1B Serious Eye Damage/Eye Irritation - Category 1 Simple Asphyxiant **GHS Label Elements** 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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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.

CAS	Component Name	Percent
7446-09-5	Sulfur dioxide	100.0

Inhalation

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

Skin

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

Eyes

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

Ingestion

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

Most Important Symptoms/Effects

Acute

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

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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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Material Name: SULFUR DIOXIDE SDS ID: MAT22290 Section 5 - FIRE FIGHTING MEASURES **Extinguishing Media** Suitable Extinguishing Media carbon dioxide, regular dry chemical, Large fires: Use regular foam or flood with fine water spray. **Unsuitable Extinguishing Media** None known. Special Hazards Arising from the Chemical Negligible fire hazard. **Hazardous Combustion Products** sulfur oxides Fire Fighting Measures Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry. Special Protective Equipment and Precautions for Firefighters Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. Section 6 - ACCIDENTAL RELEASE MEASURES Personal Precautions, Protective Equipment and Emergency Procedures Wear personal protective clothing and equipment, see Section 8. Methods and Materials for Containment and Cleaning Up Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water directly on material. **Environmental Precautions** Avoid release to the environment Section 7 - HANDLING AND STORAGE **Precautions for Safe Handling** Do not get in eyes, on skin, or on clothing. Do not breathe gas, fumes, vapor, or spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Keep only in original container. Avoid release to the environment, Conditions for Safe Storage, Including any Incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Keep separated from incompatible substances. **Incompatible Materials** bases, combustible materials, halogens, metal carbide, metal oxides, metals, oxidizing materials, peroxides, reducing agents Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION **Component Exposure Limits** Sulfur dioxide 7446-09-5 ACGIH: 0.25 ppm STEL

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Material Name: SULFUR DIOXIDE

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

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

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

Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

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

Skin Protection

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

Respiratory Protection

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

positive-pressure mode.

Glove Recommendations

Wear appropriate chemical resistant gloves.

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

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Water Solubility			
water Solubility	22.8 % (@ 0 °C) Partition coefficient: n- octanol/water		Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	Not available
Physical Form	liquified gas	Molecular Formula	S-02
Molecular Weight	64.06		
Solvent Solubility Soluble alcohol, acetic acid, sulf	uric acid, ether, chloroforn	n, Benzene, sulfuryl chloride, nitrob	enzenes, Toluene, acetone
	Section 10 - STAI	BILITY AND REACTIVIT	Y
Possibility of Hazardou	is Reactions		
Will not polymerize. Conditions to Avoid Minimize contact with n Incompatible Materials	naterial. Containers may ru s rials, halogens, metal carbi ion products	pture or explode if exposed to heat. ide, metal oxides, metals, oxidizing	materials, peroxides, reduci
Will not polymerize. Conditions to Avoid Minimize contact with n Incompatible Materials bases, combustible materials bases, combusti	naterial. Containers may ru s rials, halogens, metal carbi ion products Section 11 - TOXIC		materials, peroxides, reduci

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D: MAT22290

al Name: SULF		SDS
Toxic if inhaled	frostbite, suffocation, respiratory tract burns, skin burns, eye burns	
Delayed Effects		
	on significant adverse effects.	
Irritation/Corro		
	burns, skin burns, eye burns	
Respiratory Sen		
No data available		
Dermal Sensitiz	zation	
No data available	c.	
Component Car	rcinogenicity	
Sulfur dioxide	7446-09-5	
ACGIH:	A4 - Not Classifiable as a Human Carcinogen	
IARC:	Monograph 54 [1992] (Group 3 (not classifiable))	
No target organs Specific Target No target organs Aspiration haza Not applicable.	e. Organ Toxicity - Single Exposure identified. Organ Toxicity - Repeated Exposure identified. ard tions Aggravated by Exposure	
	alysis - Aquatic Toxicity icity data are available for this product's components.	
Persistence and		
No data available		
Rioscenmulativ		
Bioaccumulative No data available	C.	
No data available	e.	
	-	
No data available Mobility	c.	
No data available Mobility No data available	e. Section 13 - DISPOSAL CONSIDERATIONS	
No data available Mobility No data available Disposal Metho	e. Section 13 - DISPOSAL CONSIDERATIONS	142

Section 14 - TRANSPORT INFORMATION

US DOT Information: Shipping Name: SULFUR DIOXIDE

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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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	Safet	y Data Sheet	
Material Name: SULFUR	2007 (2001) - COSTON - C		SDS ID: MAT22290
Sulfur dioxide 744	6-09-5		
Repro/Dev. Tox dev	lopmental toxicity, 7/29/	/2011	
Component Analysis Sulfur dioxide (7446-			143
US CA AU C	EU JP - ENCS JI	P - ISHL KR KECI - Annex 1 KR K	ECI - Annex 2
Yes DSL Yes Y	s EIN Yes Y	Yes Yes No	
	MX NZ PH TH-TE		
No	Yes Yes Yes Yes	Yes Yes	
NFPA Ratings	Section 16 -	OTHER INFORMATION	
Health: 3 Fire: 0 Instal		rate 3 = Serious 4 = Severe	
Summary of Change	2012 - 1000 - 1000 - 1000 - 1000 - 1000 		
SDS update: 02/10/20 Key / Legend	6		
		al Industrial Hygienists; ADR - Europear	
		C - Celsius; CA - Canada; CA/MA/MN /Pennsylvania*; CAS - Chemical Abstra	
		ensation, and Liability Act; CFR - Code	
		iging; CN - China; CPR - Controlled Pro rtment of Transportation; DSD - Danger	
DSL - Domestic Subst	inces List; EC - European	n Commission; EEC - European Econom	nie Community; EIN -
		nemical Substances); EINECS - Europea n Existing and New Chemical Substance	
		an Union; F - Fahrenheit; F - Background	
		for Research on Cancer, IATA - Interna	
		n Organization; IDL - Ingredient Disclos OG - International Maritime Dangerous C	517982-21-6 C 10 C 1
		ernational Uniform Chemical Information	the second s
		ECI Annex 1 - Korea Existing Chemical nex 2 - Korea Existing Chemicals Invento	
		D50/LC50 - Lethal Dose/ Lethal Conce	
		Substances Chemical Control Act; LEL	
		^M - ChemADVISOR's Regulatory Datab daximum Exposure Limits; MX – Mexic	
- National Fire Protect	on Agency; NIOSH - Nat	tional Institute for Occupational Safety a	nd Health; NJTSR - New
		tive; NSL – Non-Domestic Substance Li ad; OSHA - Occupational Safety and Hea	
	offering the - new region	a, corra - occupational salety and He	
Permissible Exposure	.imit; PH - Philippines; R	CRA - Resource Conservation and Reco	overy Act, REACH-

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