Form 3160-3 (June 2015) UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO D	NTE AGE	MEN	T				-0137 31, 2018
1a. Type of work: ✓ DRILL R 1b. Type of Well: ✓ Oil Well Gas Well O 1c. Type of Completion: Hydraulic Fracturing ✓ S	7. If Unit or CA Ap 8. Lease Name and FOSTERS 16 FE	d Well No).				
Name of Operator PERMIAN RESOURCES OPERATING LLC 3a. Address	12h n	Dhona N	Vo Gualuda area and	(a)			5-57037
300 N MARIENFELD ST SUITE 1000, MIDLAND, TX 797 4. Location of Well (Report location clearly and in accordance of At surface NENE / 1126 FNL / 381 FEL / LAT 32.5777 At proposed prod. zone NENE / 990 FNL / 10 FEL / LAT	(432 with an 27 / L) 695-4 ny State ONG -	requirements.*) 104.192533		10. Field and Pool, AVALON/Bone S 11. Sec., T. R. M. o SEC 17/T20S/R20	pring, Ea	ast ad Survey or Area
14. Distance in miles and direction from nearest town or post offi					12. County or Paris	sh	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)			cres in lease	17. Spacir 320.0	17. Spacing Unit dedicated to this well 320.0		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 0 feet		CONTRACTOR IN THE CONTRACTOR IN CO.		/BIA Bond No. in file //B001841			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3269 feet	Same and the same of	pproxi 1/2024	mate date work will s	start*	23. Estimated duration 90 days		
	24.	Attac	hments				
The following, completed in accordance with the requirements of (as applicable)	Onsho	ore Oil	and Gas Order No. 1	, and the H	ydraulic Fracturing i	rule per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office) 		ls, the	Item 20 above). 5. Operator certifica	ation.	s unless covered by a	•	,
25. Signature (Electronic Submission)			(Printed/Typed) IE EVANS / Ph: (4	32) 695-42	222	Date 06/29/2	2024
Title Regulatory Specialist							
Approved by (Signature) (Electronic Submission)		CODY	(Printed/Typed) LAYTON / Ph: (57	5) 234-59	59	Date 01/24/2	2025
Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant	- 1		ad Field Office	nse rights i	the subject lease w	hich wor	ld entitle the
applicant to conduct operations thereon. Conditions of approval, if any, are attached.			7		- 200 dabject fease W	en nou	cimite ale
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements o	ake it a r repre	crime sentatio	for any person know ons as to any matter v	ingly and v vithin its ju	villfully to make to a risdiction.	ny depar	tment or agency
				OVO			

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: NENE / 1126 FNL / 381 FEL / TWSP: 20S / RANGE: 28E / SECTION: 17 / LAT: 32.577727 / LONG: -104.192533 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 990 FNL / 100 FWL / TWSP: 20S / RANGE: 28E / SECTION: 16 / LAT: 32.578106 / LONG: -104.19096 (TVD: 8910 feet, MD: 9400 feet)
BHL: NENE / 990 FNL / 10 FEL / TWSP: 20S / RANGE: 28E / SECTION: 16 / LAT: 32.578173 / LONG: -104.173993 (TVD: 8910 feet, MD: 14053 feet)

BLM Point of Contact

Name: JANET D ESTES Title: ADJUDICATOR Phone: (575) 234-6233

Email: JESTES@BLM.GOV

(Form 3160-3, page 3)

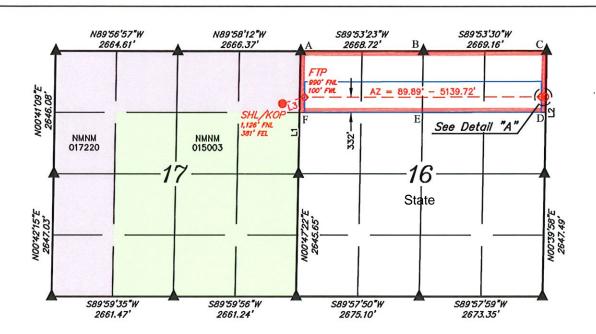
Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION Submit Electronically Via OCD Permitting Submit Type:			
Via OCD Permitting Submit	Submittal Submittal		
Warner of the control			
1	☐ Amended Re	☐ Amended Report	
	☐ As Drilled		
WELL LOCATION INFORMATION API Number Pool Code Pool Name Old Millman Ranch; E	one Spring (Assoc)	
API Number 30-015-57037 Pool Code 3713 48035 Pool Name Old Williman Ranch, E Avalon; Bone Spring	g, East		
Property Code Property Name FOSTERS 16 FED COM	Well Number	1H	
OGRID No. 372165 Operator Name PERMIAN RESOURCES OPERATING, LLC	Ground Level E 326		
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☒ State ☐ Fee ☐ Tribal			
X X			
Surface Location	* ': 1 011 D 00	I a	
UL Section Township Range Lot Ft. from N/S Ft. from E/W Latitude (NAD 83) A 17 20S 28E 1,126 NORTH 381 EAST 32.577727°	Longitude (NAD 83) -104.192533°	County EDDY	
Bottom Hole Location			
UL Section Township Range Lot Ft. from N/S Ft. from E/W Latitude (NAD 83)	Longitude (NAD 83)	County	
A 16 20S 28E 990 NORTH 10 EAST 32.578173°	-104.173993°	EDDY	
Dedicated Acres	lation Code		
160 Infill 015-56118 Y	С		
Order Numbers. Pending Well setbacks are under Common Ownershi	o: XYes □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	
A 17 20S 28E 1,126 NORTH 381 EAST 32.577727°	-104.192533°	EDDY	
First Take Point (FTP)			
UL Section Township Range Lot Ft. from N/S Ft. from E/W Latitude (NAD 83)	Longitude (NAD 83)		
D 16 20S 28E 990 NORTH 100 WEST 32.578106°	-104.190967°	EDDY	
Last Take Point (LTP)			
The state of the s	Longitude (NAD 83)		
A 16 20S 28E 990 NORTH 100 EAST 32.578172°	-104.174285°	EDDY	
Unitized Area or Area of Uniform Interest Spacing Unit Type Horizontal Vertical Ground Floor F	levation:		
OPERATOR CERTIFICATIONS SURVEYOR CERTIFICATIONS			
I hereby certify that the information contained herein is true and complete to the best of I hereby certify that the well location shown on this play.	t was plotted from the fie	ld notes of actual	
my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land my belief.	the same is true and corr	ect to the best of	
including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral	UL BUCH		
interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	OF MEY	EL	
	A MANAGER	3/. /	
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest	23/19/2	No.	
in-each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.	tan Da	AR	
6/19/2025	01-09-2	5/54/	
Signature Signature and Seal of Professional Surveyor	10NAL S		
Jennifer Elrod 23782 January 03, 2024			
Printed Name Certificate Number Date of Survey			
jelrod@ntglobal.com			

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.



- NOTE:

 Distances referenced on plat to section
- lines are perpendicular.
 Basis of Bearings is a Transverse
 Mercator Projection with a Central
 Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.
- = SURFACE HOLE LOCATION/ KICK OFF POINT
- FIRST TAKE POINT/ LAST TAKE POINT
- LEASE PENETRATION POINT
- = BOTTOM HOLE LOCATION
- SECTION CORNER LOCATED
- HORIZONTAL SPACING UNIT
- 330' BUFFER FROM WELLBORE



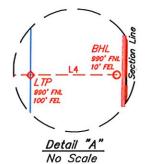
NAD 83 (SHL/KOP)	FOOTAGE
LATITUDE = 32°34'39.82" (32.577727°)	1,126' FNL
LONGITUDE = -104°11'33.12" (-104.192533°)	381' FEL
NAD 27 (SHL/KOP)	
LATITUDE = 32°34'39.39" (32.577610°)	1
LONGITUDE = -104°11'31.29" (-104.192025°)	l
STATE PLANE NAD 83 (N.M. EAST)	l
N: 573936.45' E: 584708.12'	l
STATE PLANE NAD 27 (N.M. EAST)	l
N: 573875.10' E: 543527.88'	

NAD 83 (FIRST TAKE POINT)	FOOTAGES
LATITUDE = 32°34'41.18" (32.578106°)	990' FNL
LONGITUDE = -104°11'27.48" (-104.190967°)	100' FWL
NAD 27 (FIRST TAKE POINT)	
LATITUDE = 32°34'40.76" (32.577988°)	1
LONGITUDE = -104°11'25.66" (-104.190460°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 574074.86' E: 585190.13'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 574013.50' E: 544009.90'	

SEC	TION - LINE	TABLE
LINE	DIRECTION	LENGTH
L1	N00'47'06"E	2643.44'
L2	N00'40'38"E	2648.37'

WELL	BORE - LINE	TABLE
LINE	DIRECTION	LENGTH
L3	AZ = 74.22°	501.61'
L4	AZ = 89.89°	90.01'

	ŀ	ISU COORDI	NATES	
	NAD 27 N.M. STAT		NAD 83 N.M. STATE	
	PLANE, EAST ZONE		PLANE, EAST ZONE	
POINT	NORTHING	EASTING	NORTHING	EASTING
Α	575002.71	543919.30	575064.09	585099.51
В	575019.11	546587.35	575080.51	587767.57
С	575035.41	549255.84	575096.84	590436.07
D	573711.60	549245.77	573772.99	590426.02
E	573696.52	546576.36	573757.89	587756.60
F	573681.39	543906.77	573742.74	585087.00



NAD 83 (LAST TAKE POINT)	FOOTAGES
LATITUDE = 32°34'41.42" (32.578172°)	990' FNL
LONGITUDE = -104°10'27.43" (-104.174285°)	100' FEL
NAD 27 (LAST TAKE POINT)	
LATITUDE = 32°34'41.00" (32.578055°)	l
LONGITUDE = -104°10'25.60" (-104.173779°)	l
STATE PLANE NAD 83 (N.M. EAST)	l
N: 574106.39' E: 590328.57'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 574044.99' E: 549148.32'	

NAD 83 (BOTTOM HOLE LOCATION)	FOOTAGES
LATITUDE = 32°34'41.42" (32.578173°)	990' FNL
LONGITUDE = -104°10'26.38" (-104.173993°)	10' FEL
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°34'41.00" (32.578056°)	l
LONGITUDE = -104°10'24.55" (-104.173487°)	1
STATE PLANE NAD 83 (N.M. EAST)	
N: 574106.94' E: 590418.56'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 574045.54' E: 549238.31'	

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 - Plan Description Effective May 25, 2021

I. Operator: Permian Resources Operating, LLC	_OGRID:	372165	Date: 06/25/ <u>2024</u>
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a)) NMAC □ 19.	15.27.9.D(6)(b) NMAC □	Other.
If Other, please describe:			

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

Well Name	API	ULSTR	Footages	Anticipat	Anticipated	Anticipated
]	1 111	ed Oil	Gas	Produced
		ĺ		BBL/D	MCF/D	Water BBL/D
ESKY 17 Fed Com 134H	TBD	M-16-20S-28E	901' FSL, 225' FWL	1100	2200	2800
ESKY 17 Fed Com 133H	TBD	L-16-20S-28E	1946' FSL, 230' FWL	1100	2200	2800
ESKY 17 Fed Com 132H	TBD	A-17-20S-28E	1245' FNL, 491' FEL	1100	2200	2800
ESKY 17 Fed Com 131H	TBD	A-17-20S-28E	1123' FNL, 414' FEL	1100	2200	2800
ESKY 17 Fed Com 124H	TBD	M-16-20S-28E	934' FSL, 225' FWL	1100	2200	2800
ESKY 17 Fed Com 123H	TBD	L-16-20S-28E	1979' FSL, 230' FWL	1100	2200	2800
ESKY 17 Fed Com 122H	TBD	A-17-20S-28E	1242' FNL, 524' FEL	1100	2200	2800
ESKY 17 Fed Com 121H	TBD	A-17-20S-28E	1119' FNL, 447' FEL	1100	2200	2800
Foster 16-15 Fed Com 134H	TBD	M-16-20S-28E	868' FSL, 225' FWL	1100	2200	2800
Foster 16-15 Fed Com 133H	TBD	L-16-20S-28E	1913' FSL, 230' FWL	1100	2200	2800
Foster 16-15 Fed Com 132H	TBD	A-17-20S-28E	1249' FNL, 459' FEL	1100	2200	2800
Foster 16 Fed Com 131H	TBD	A-17-20S-28E	1126' FNL, 381' FEL	1100	2200	2800

IV. Central Delivery Point Name: ESKY-FOSTER 17 FED COM CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement	Back Date	Date
				Date		
ESKY 17 Fed Com 134H	TBD		TBD	TBD	<u>TBD</u>	TBD
ESKY 17 Fed Com 133H	TBD		TBD	TBD	<u>TBD</u>	TBD
ESKY 17 Fed Com 132H	TBD		TBD	TBD	<u>TBD</u>	<u>TBD</u>
ESKY 17 Fed Com 131H	TBD		TBD	TBD	<u>TBD</u>	<u>TBD</u>
ESKY 17 Fed Com 124H	TBD		TBD	TBD	TBD	TBD
ESKY 17 Fed Com 123H	TBD		TBD	TBD	<u>TBD</u>	TBD
ESKY 17 Fed Com 122H	TBD		TBD	TBD	<u>TBD</u>	TBD
ESKY 17 Fed Com 121H	TBD		TBD	<u>TBD</u>	TBD	TBD
Foster 16-15 Fed Com 134H	TBD		TBD	TBD	TBD_	TBD

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Foster 16-15 Fed Com 133H	TBD	TBD	TBD	TBD	TBD
Foster 16-15 Fed Com 132H	TBD	TBD	TBD	TBD	TBD
Foster 16 Fed Com 131H	TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment:

Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices:

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

VIII. Best Management Practices:

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
ESKY 17 Fed Com 134H	TBD	2200	442,060
ESKY 17 Fed Com 133H	TBD	2200	442,060
ESKY 17 Fed Com 132H	TBD	2200	442,060
ESKY 17 Fed Com 131H	TBD	2200	442,060
ESKY 17 Fed Com 124H	TBD	2200	442,060
ESKY 17 Fed Com 123H	TBD	2200	442,060
ESKY 17 Fed Com 122H	TBD	2200	442,060
ESKY 17 Fed Com 121H	TBD	2200	442,060
Foster 16-15 Fed Com 134H	TBD	2200	442,060
Foster 16-15 Fed Com 133H	TBD	2200	442,060
Foster 16-15 Fed Com 132H	TBD	2200	442,060
Foster 16 Fed Com 131H	TBD	2200	442,060

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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: Cosoù Ware-
Printed Name: Cassie Evans
Title: Regulatory Specialist
E-mail Address: Cassie.Evans@permianres.com
Date: 6/25/24
Phone: 432-313-1732
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



NATURAL GAS MANAGEMENT PLAN DESCRIPTIONS

VI. Separation Equipment:

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

VII. Operational Practices:

Drilling

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

Flowback

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

Production

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

Performance Standards

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

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

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

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

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

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

Closed loop systems

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Enclosed and properly sized tanks.

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

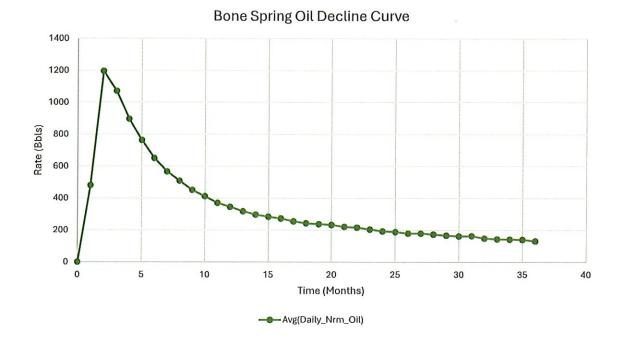
Measurement or Estimation

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

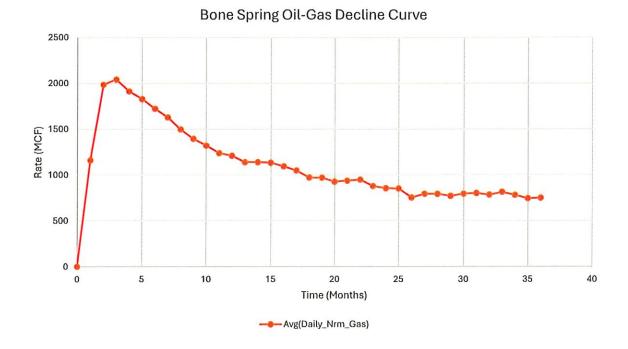
VIII. Best Management Practices:

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

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



- 1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
- 2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.



- 1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
- 2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.

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

Drilling Plan Data Report

APD ID: 10400098630 Submission Date: 06/29/2024

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: FOSTERS 16 FED COM

Well Number: 131H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies		Producing Formatio
14909623	QUATERNARY	3269	0	0	ALLUVIUM	USEABLE WATER	N
14909624	RUSTLER	3098	171	171	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14909625	TOP SALT	3018	251	251	SALT	NONE	N
14909626	TANSILL	2573	696	696	SANDSTONE	NONE	N
14909627	YATES	2468	801	801	ANHYDRITE, SHALE	NATURAL GAS, OIL, USEABLE WATER	N
14909628	SEVEN RIVERS	2118	1151	1151	LIMESTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909629	CAPITAN REEF	888	2381	2381	LIMESTONE	USEABLE WATER	N
14909630	DELAWARE SAND	298	2971	2971	SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909631	BRUSHY CANYON	-147	3416	3416	SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909632	BONE SPRING	-1642	4911	4911	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL, USEABLE WATER	N
14909634	WOLFCAMP	-5482	8751	8751	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 8559

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. 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 of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line flexhose) from the BOP to choke manifold.

Requesting Variance? YES

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Well Name: FOSTERS 16 FED COM Well Number: 131H

Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.

Testing Procedure: Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. 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 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachment:

Esky_Fosters_Fed_5M_Choke_20240626092715.pdf

BOP Diagram Attachment:

Esky_Fosters_Fed_5M_BOP_20240626092721.pdf

Section 3 - Casing

L Casing ID	String Type	Hole Size	Csg Size	S Condition	Standard	Z Tapered String	O Top Set MD	96 Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	G Calculated casing length MD	Grade	Weight 75	Joint Type	Collapse SF	9.05 Burst SF	Joint SF Type	S Joint SF	Body SF Type	7.71
	INTERMED										3247	2548				BUTT	7	4.72			DRY	7.83
10	INTERMED IATE	9.87 5	8.625	NEW	NON API	N	0	2921	0	2921	3247	348		P- 110		OTHER - MO-FXL	5.98	2.56	DRY	4.08	DRY	5.91
	PRODUCTI ON	7.87 5	5.5		non Api	N	0	13578	0	8559	3247	-5290		P- 110		OTHER - GeoConn	2.49	2.6	DRY	2.36	DRY	2.36

Casing Attachments

Well Name: FOSTERS 16 FED COM Well Number: 131H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fosters_16_Fed_Com_131H_csg_20240626072254.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fosters_16_Fed_Com_131H_csg_20240626072111.pdf

String

Casing ID: 3

INTERMEDIATE

Inspection Document:

Spec Document:

Esky_Fosters_Fed_Csg_Spec_MOFXL_20240507123256.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fosters_16_Fed_Com_131H_csg_20240626072227.pdf

Well Name: FOSTERS 16 FED COM Well Number: 131H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Esky_Fosters_Fed_Csg_Spec_GC_20240507123441.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fosters_16_Fed_Com_131H_csg_20240626072322.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	196	160	1.34	14.8	210	50	Class C	Accelerator

INTERMEDIATE	Lead	() 5	570	90	1.88	12.9	160	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	57	70 7	721	40	1.34	14.8	50	50	Class C	Retarder
INTERMEDIATE	Lead	() 2:	330	220	1.88	12.9	410	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	23	30 29	921	80	1.33	14.8	100	25	Class C	Salt
PRODUCTION	Lead	29	21 8	553	600	2.41	11.5	1430	40	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail	88		357 8	1360	1.73	12.5	2350	25	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
				and the second		0					Loss, Dispersant,
											Page 4 of 7

Well Name: FOSTERS 16 FED COM Well Number: 131H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	-	Additional Characteristics	
0	196	SPUD MUD	8.6	9.5									
196	721	SALT SATURATED	10	10									
721	2921	WATER-BASED MUD	8.6	9.5									
2921	8910	OTHER : Brine	9	10									
8910	1405 3	OIL-BASED MUD	9	10									

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Well Name: FOSTERS 16 FED COM Well Number: 131H

Section 6 - Test, Logging, Coring

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

A directional survey is planned for this well.

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

No coring operations are planned for this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4460

Anticipated Surface Pressure: 2499

Anticipated Bottom Hole Temperature(F): 143

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Foster_16_Fed_Com_131H_H2S_Plan_20240626082617.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fosters_16_Fed_Com_131H_DD_20240524111844.pdf

Other proposed operations facets description:

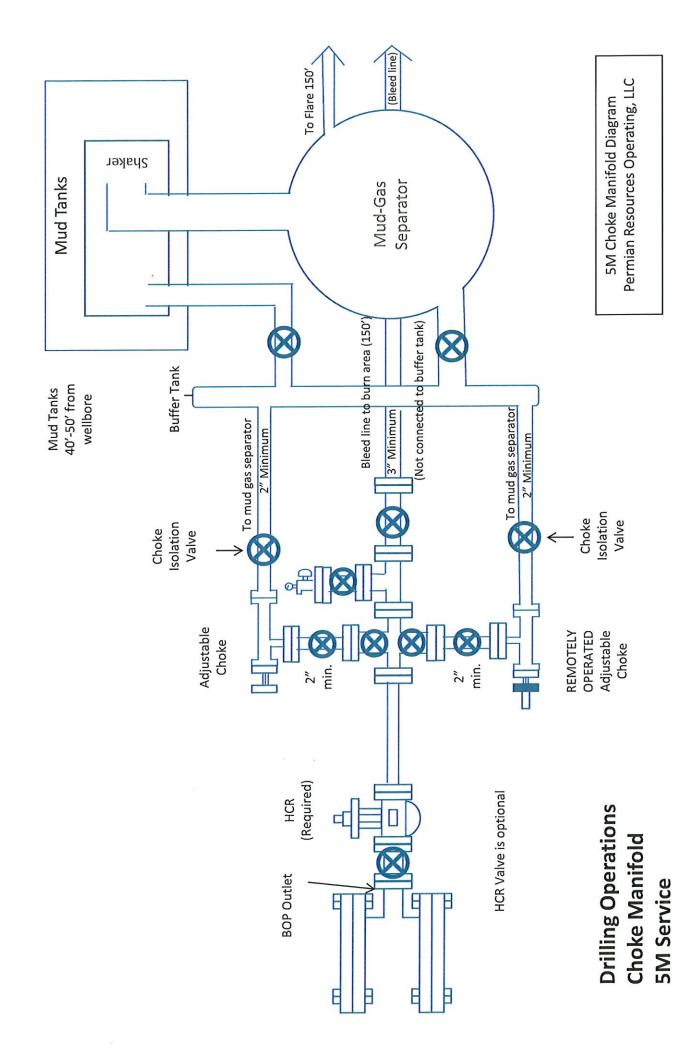
Other proposed operations facets attachment:

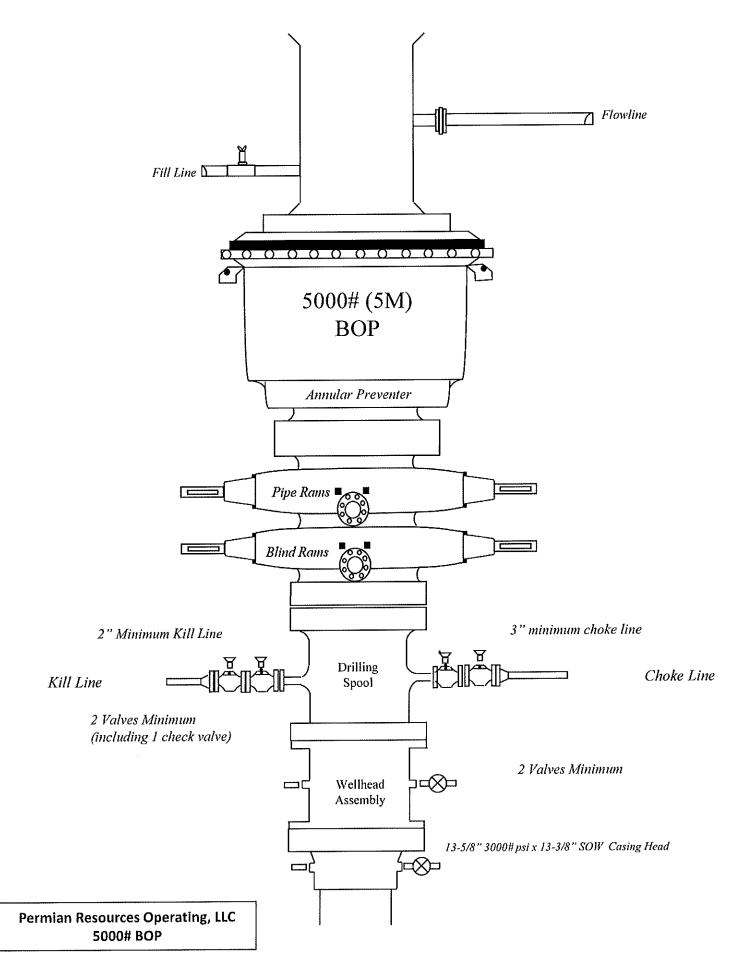
Esky_Fosters_Fed_NGMP_BS_with_Decline_curves_20240626083717.pdf

Other Variance attachment:

Esky_Fosters_Fed_
Esky_Fosters_Fed_
Esky_Fosters_Fed_
Esky_Fosters_Fed_
2022_FH_20240814 Esky Fosters Fed Batch 20240507124635.pdf Esky_Fosters_Fed_Break_20240507124643.pdf Esky_Fosters_Fed_MBS_20240507124701.pdf Esky Fosters Fed OLCV 20240507124711.pdf

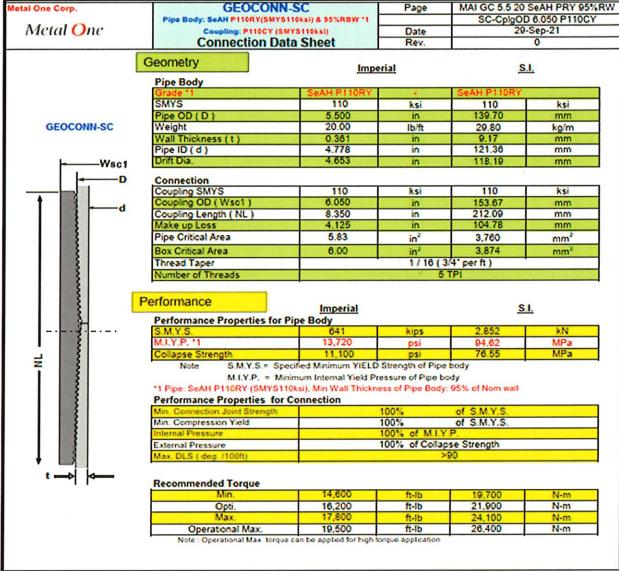
2022_FH_20240814180311.pdf





The second secon	MO-FXL			MO-FXL 8	
14.10			CDS#	MinYS	
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110HSC	Y MinYS125ksi	A BILLYOUNG	Min95	
	Min95%WT	C1	Data		
	Connection Data	Sheet	Date	8-Se	p-21
	Geometry	<u>Imperia</u>	1	<u>S.I.</u>	
	Pipe Body			5446110614	
	Grade *1	P110HSCY	luni.	P110HSCY	ksi
	MinYS *1	125	ksi	125	
***	Pipe OD (D)	8 5/8	in	219.08	mm
MO-FXL	Weight	32.00	lb/ft	47.68	kg/m
	Actual weight	31.10	-	46.34	kg/m
	Wall Thickness (t)	0.352	in	8.94	mm
	Pipe ID (d)	7.921	in	201.19	mm
	Pipe body cross section	9.149	in ²	5,902	mm ²
	Drift Dia.	7.796	in	198.02	mm
× ·	-	-	•	-	-
	Connection				
	Box OD (W)	8.625	in	219.08	mm
\uparrow	PIN ID	7.921	in	201.19	mm
	Make up Loss	3.847	in	97.71	mm
Box	Box Critical Area	5.853	in ²	3686	mm ²
eritica				69	
area area	Joint load efficiency	69	%	2" per ft)	%
	Thread Taper Number of Threads	1			
Make up	Performance				
	Performance Properties	for Pipe Body	ij.		
	o Petionilance Properties				
	S.M.Y.S. *1	1,144	kips	5,087	kN
loss				5,087 66.83	kN MPa
loss Pin	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1	1,144 9,690 4,300	kips psi psi	66.83 29.66	MPa MPa
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Pin critical	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: BMP P110HSCY: MinYS1	1,144 9,690 4,300 ied Minimum YIE um Internal Yiek 25ksi, Min95%V for Connectio 789 kips	kips psi psi ELD Stre d Pressu VT, Colla n	66.83 29.66 ngth of Pipe body pse Strength 4 of S.M.Y.S.	MPa MPa MPa xdy ,
Pin critical	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: BMP P110HSCY: MinYS1 Performance Properties	1,144 9,690 4,300 ied Minimum YIE um Internal Yiek 25ksi, Min95%V for Connectio 789 kips 789 kips	kips psi psi ELD Stre d Pressu VT, Colla n (69%	66.83 29.66 ngth of Pipe body pse Strength 4 of S.M.Y.S. of S.M.Y.S.	MPa MPa MPa sdy s,300psi
Pin critical	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: BMP P110HSCY: MinYS1 Performance Properties Tensile Yield load	1,144 9,690 4,300 ied Minimum YIE um Internal Yiek 25ksi, Min95%V for Connectio 789 kips 789 kips	kips psi psi d Pressu VT, Colla n (69% (70%	66.83 29.66 ngth of Pipe body pse Strength 4 of S.M.Y.S. of S.M.Y.S. of M.I.Y.P.	MPa MPa MPa sdy si,300psi
Pin critical	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: BMP P110HSCY: MinYS1 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure	1,144 9,690 4,300 ied Minimum YIE um Internal Yiek 25ksi, Min95%V for Connectio 789 kips 789 kips	kips psi psi ELD Stre d Pressu VT, Colla n (69% (70% 100% (66.83 29.66 Ingth of Pipe body Ipse Strength 4 Of S.M.Y.S. Of S.M.Y.S. Of M.I.Y.P. Of Collapse S	MPa MPa MPa sdy s,300psi
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Pin critical	S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1: BMP P110HSCY: MinYS1 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	1,144 9,690 4,300 ied Minimum Ylek 25ksi, Min95%V for Connectio 789 kips 789 kips 6,780 psi	kips psi psi Pressu VT, Collai n 69% 69% 70% 100% 2	66.83 29.66 Ingth of Pipe body spee Strength 4 of S.M.Y.S. of S.M.Y.S. of M.I.Y.P. of Collapse S 9 18,400 20,200 21,900 38,500	MPa MPa MPa dy ,300psi)) htrength N-m N-m N-m

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dements regarding the substitly of products for certain types of applicators are besed on Moté One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. duch statements are not binding statements about the autability of probute for a particular application. It is the contoner's responsibility to validate that a particular product with the properties described in the product
appointment is waitable for use in a particular application.

The products described in the Connection Data Shoot are not recommended for use in deep value of shore applications. For more information, please rathe to http://www.edu.com/inaqueshys/Metoda Terms Active 20013097 ** pure "the confering of which are incorporated by reference into the Connection Data Sheet

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	BodySF
Surface	17.5	13.375	0	196	0	196	196	J55	54.5	ВТС	11.67	9.05	Dry	8.21	Dry	7.71
Intermediate 1	12.25	10.75	0	721	0	721	721	J55	45.5	втс	12.87	4.72	Dry	8.00	Dry	7.83
Intermediate 2	9.875	8.625	0	2921	0	2921	2921	P110 HS	32	MO-FXL	5.77	2.52	Dry	4.08	Dry	5.91
Production	7.875	5.5	0	9160	0	8875	9160	P110RY	20	GeoConn	2.41	2.51	Dry	2.31	Dry	2.31
Production	7.875	5.5	9160	19227	8875	8875	10067	P110RY	20	GeoConn	2.41	2.51	Dry	2.31	Dry	2.31
	•						•	BLM Mi	n Safe	ety Factor	1.125	1		1.6		1.6

Permian Resources Multi-Well Pad Batch Drilling Procedure

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

- 1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
- 3. Set packoff and test to 5k psi
- 4. Offline Cement
- 5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
- 6. Skid Rig to adjacent well to drill Surface hole.
- 7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater not to exceed 70% casing burst.

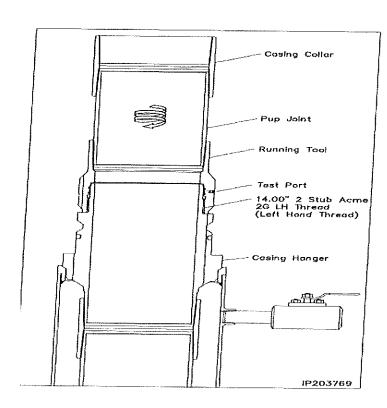


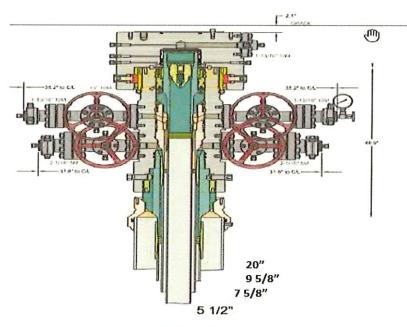
Illustration 1-1

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<u>Intermediate Casing</u> – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

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



SKID PHASE

Illustration 2-2

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

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

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Permian Resources BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

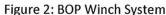
Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack







American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

52	API STANDARD 53
YA .	VLI 3 I WOWD 33

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure [™] psig (MPa)	Pressure Test—High Pressure**	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer	250 to 350 (1 72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ³²	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2 41)	RWP of side outlet valve or wellhead system, whichever is lower	ПЪ
Choke manifold—upstream of chokes*	250 to 350 (1 72 to 2 41)	RWP of rum preventers or wellhead system, whichever is lower	ПР
Choke manifold—downstream of chokes	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe salety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

Pressure lest evaluation periods shall be a minimum of five minutes.

No visible leads

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

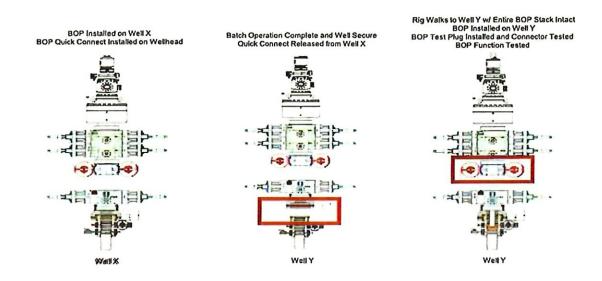
Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

- 1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a)A full BOP test will be conducted on the first well on the pad.
- b) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
- c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d) A full BOP test will be required prior to drilling any production hole.
- 3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a) Between the HCV valve and choke line connection
 - b)Between the BOP quick connect and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6) The connections mentioned in 3a and 3b will then be reconnected.
- 7) Install test plug into the wellhead using test joint or drill pipe.
- 8) A shell test is performed against the upper pipe rams testing the two breaks.
- 9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
- 11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

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Note: Picture below highlights BOP components that will be tested during batch operations



Summary

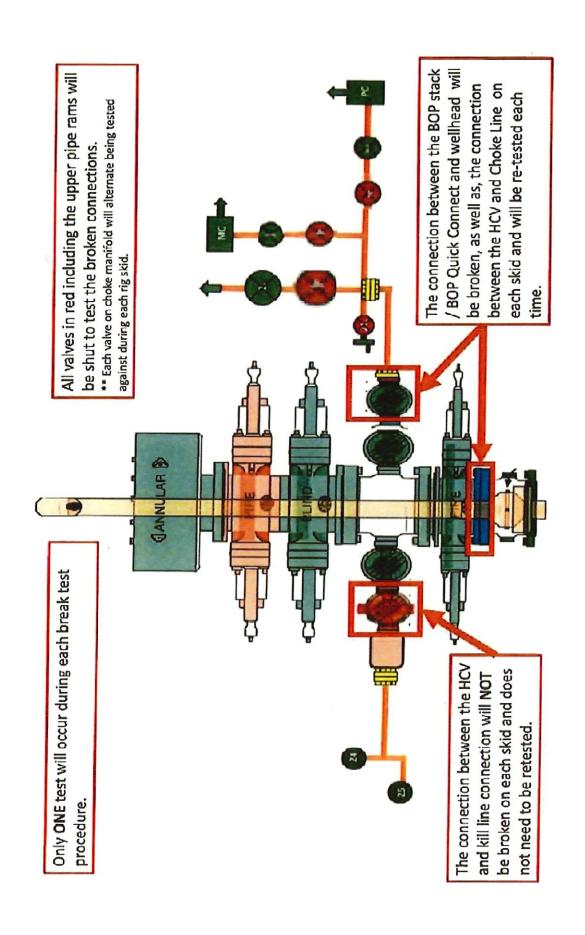
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

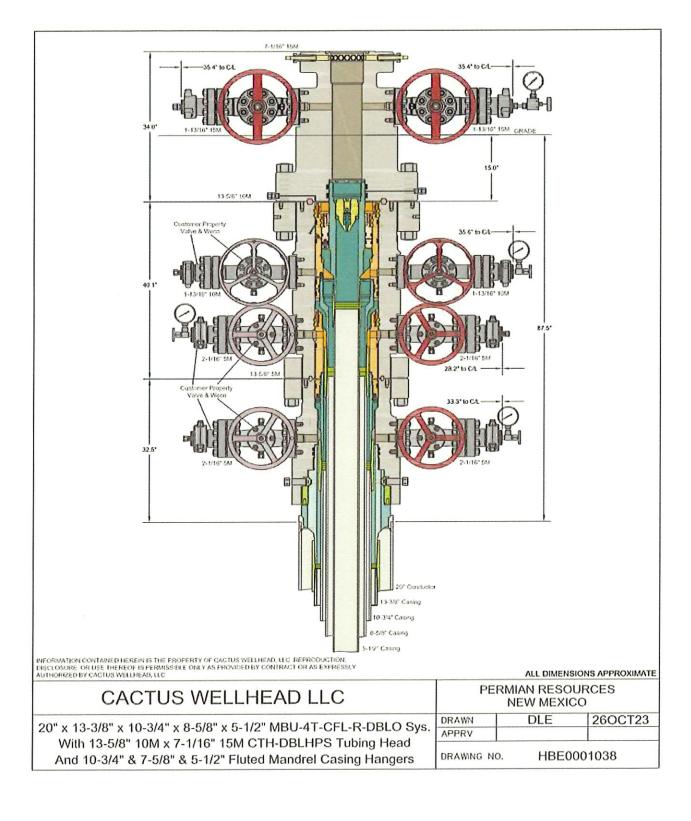
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

event occurs prior to the commencement of a BOPE Break Testing operation.

Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1) After a full BOP test is conducted on the first well on the pad.
- 2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
- 3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4) A full BOP test will be required prior to drilling the production hole.



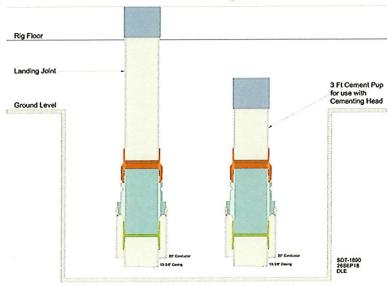


Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

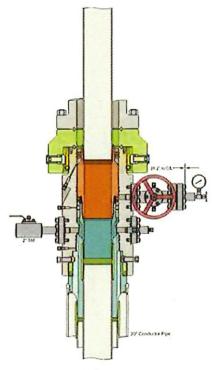
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple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

13 3/8" Surface

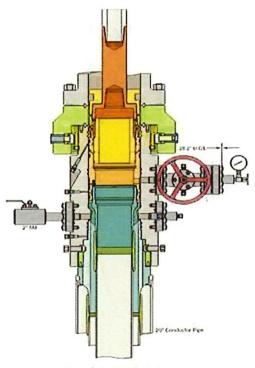
CFL Off-Line Cementing Tool



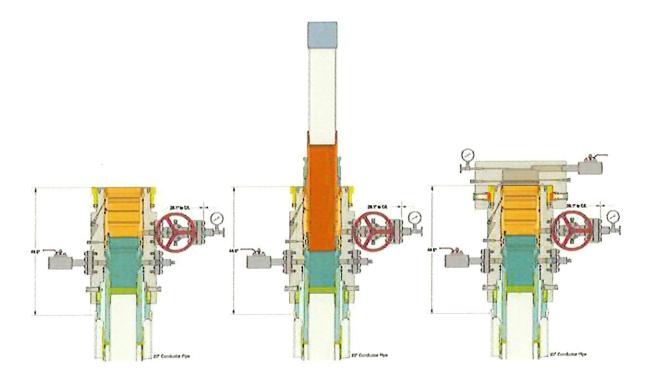
Intermediate



Run 7 5/8" Casing Land Casing on 7 5/8" Mandrel Hanger Cement 7 5/8" Casing Retrieve Running Tool



Run 9 5/8" Packoff Test Upper and Lower Seals Engage Lockring Retrieve Running Tool



production of the state of the Today Control Consess Andrew Services · mm

Property ...

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ContiTech Fluid Technology

ContiTech	Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX	Packing list / Delivery note
77041-69		Document No. 71461553
201101	ONE / Ohio to address:	Document Date 28.01.2022
CONSI	GNEE / Ship-to address:	Customer Number 11697
HELME	ERICH & PAYNE INT'L DRILLING CO	Customer VAT No.
	FLEX RIG WHSE - B-BAY	Supplier Number Purchase Order No. 740362040
210 MA	AGNOLIA DRIVE	Purchase Order No. 740362040 Purchase Order Date 18.01.2022
GALEN	IA PARK TX 77547	Sales Order Number 1388153
Buyer:		Sales Order Date 18.01.2022
	FRIGHT & DAVAGE INT'L DRILLING CO	
	ERICH & PAYNE INT'L DRILLING CO	Unloading Point
	TULSA	RAN-No.
,4110	.020.	
Conditi	ons	Page 1 of 2
Incoter	ms EXW Houston	Weights (Gross / Net)
incoter	Ex Works	Total Gross Weight 2,507.000 LB
		Total Net Weight 2,507.000 LB
Item	Material/Description	Quantity Net Weight Gross Weight
100111	Buyer: Jack Peebles	
	E-mail: Jackie.Peebles@hpinc.com	
	Tel: 832-782-6000	
	D's Miles S HOW	
20	Rig/Whse: HOW OORECERTIFY	(1 PC) 2,507.000 LB 2,507.000 LB
20	Recert of HP Hoses Serial# 67094	()
	Commodity Code:	\smile
	3" X 35 FT 10K Choke & Kill Hoses API 16C	
	End 1: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange	155 ring groove each end
	End 2: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX Standard: API Spec 16C - Monogrammed	
	Standard: AFT Spec 100 - Monogrammed	10
	Working Pressure: 10,000psi	240~
	Test Pressure 15,000psi	No.
		88000240-
	Inspection & Certification includes:	150
	External inspection of the hose & couplings	700
	Internal boroscopic inspection of hose liner Hydrostatic pressure test of hose assembly	
	Repair of any external damage to hose body and end connection	ons (limited Cation (106)
	to minor repairs).	SING
	Clean & protect end connections Inspection Report	1710
	Disposal of hose assembly if hose fails inspection and recertific	cation
	process	\ <u>\</u> \ <u>\</u>
	Please Flush Hoses before sending them to our Facility.	\(\frac{1}{2}\).
		() /

ContiTech Rubber Industrial Kft H-6728 Szeged Budapesti út 10 P. O. Box 152 Szeged H-6701 Phone (62)566-700, Fax (62)568-713 Tax Number: 11087209-2-06 EU Community VAT: HU11087209 Registration No. Cg. 0609-002502 Registration Congrád Megyei Cégbíróság COMMERZBANK ZRT (HUF)
H-1054 Budapest, Széchenyi rakpart 8.
H-1245 Budapest PO Box 1070
Account No :14220108-26830003
IBAN HUB3 1422 0108 2683 0003 0000 0000
SWIFT: COBA HU HXXXX

COMMERZBANK AG Hannover (EUR) 30159 Hannover, Theaterstr. 11-12 Account No : 3 056 156 00 Sort Code. 250 400 66 BIC: COBADEFF250 IBAN: DE41250400660306615600

Hydrostatic Test Certificate

ContiTech

Certificate Number H100122	COM Order Reference 1388153	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740362040	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Gerson Mejia-Lazo Signed: Date: 02/09/22	

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

Item	Part No.	Description	Qnty	Serial Number	Work Press. (psi)	Test Press. (psi)	Test Time (minutes)
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20 RECERTIFICATION

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

67094

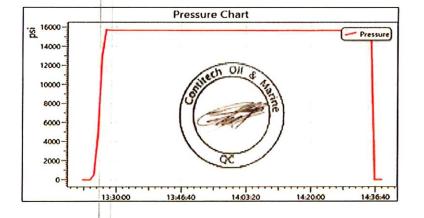
10,000

15,000

60

Record Information								
Start Time	1/27/2022 13:21:21							
End Time	1/27/2022 14:38:28							
Interval	00:01:00							
Number	78							
MaxValue	15849							
MinValue	-3							
AvgValue	14240							
RecordName	67094-sh							
RecordNumber	199							

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



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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Permian Resources Operating LLC

WELL NAME & NO.: Fosters 16 Fed Com 131H LOCATION: Sec 16-20S-28E-NMP

COUNTY: Eddy County, New Mexico

COA

H ₂ S	C	No	G	Yes	
Potash / WIPP	• None	C Secretary	€ R-111-Q	「 Open Annulus 「 WIPP	
Cave / Karst	C Low	← Medium	High	Critical	
Wellhead	Conventional	Multibowl	← Both	C Diverter	
Cementing	「 Primary Squeeze	「Cont. Squeeze	□ EchoMeter	□ DV Tool	
Special Req	Capitan Reef	厂 Water Disposal	▼ COM	「 Unit	
Waste Prev.	← Self-Certification	○ Waste Min. Plan	• APD Submitted p	prior to 06/10/2024	
Additional Language	✓ Flex Hose✓ Four-String	☐ Casing Clearance☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	✓ Break Testing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

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- 1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. Set depth adjusted per BLM geologist.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500</u> pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 10-3/4 inch intermediate casing (set at 1,110' per BLM geologist) is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
 - ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - Special Capitan Reef requirements: Ensure freshwater based mud is utilized across the Capitan Reef.
- 3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement should tie-back at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- 4. The minimum required fill of cement behind the 5-1/2 inch production easing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; BLM NM CFO DrillingNotifications@BLM.GOV; (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per 43 CFR 3172 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

Received by OCD: 6/19/2025 4:57:15 PM

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

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Released to Imaging: 7/24/2025 10:23:24 AM

NEW MEXICO

(SP) EDDY ESKY FOSTER PROJECT FOSTERS 16 FED COM 131H

OWB

Plan: PWP0

Standard Planning Report - Geographic

16 April, 2024

Planning Report - Geographic

Database: Company: Project:

Compass **NEW MEXICO** (SP) EDDY

Site: **ESKY FOSTER PROJECT** Well: FOSTERS 16 FED COM 131H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well FOSTERS 16 FED COM 131H

KB @ 3298.0usft KB @ 3298.0usft

Grid

Minimum Curvature

Project

(SP) EDDY

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

ESKY FOSTER PROJECT

Site Position: From:

Мар

+N/-S

+E/-W

PWP0

Northing: Easting:

571,756.04 usft 585,298.07 usft

Latitude: Longitude:

usfi

32° 34' 18.233 N

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16 "

104° 11' 26.257 W

Well

FOSTERS 16 FED COM 131H

Well Position

0.0 usft 0.0 usft Northing: Easting:

573,936.45 usft 584,708.12 usft Latitude: Longitude: **Ground Level:**

32° 34' 39.817 N 104° 11' 33.118 W

3,268.0 usfl

Position Uncertainty Grid Convergence:

0.0 usft

0.08°

Wellbore **OWB**

Magnetics

Model Name IGRF200510

Sample Date 12/31/2009

Wellhead Elevation:

Declination (°) 8.06 **Dip Angle** (°)

Field Strength (nT) 48,937.61348143

Design

Audit Notes:

Version:

Vertical Section:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Depth From (TVD) (usft) 0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°) 88.29

60.46

Plan Survey Tool Program

Date 4/12/2024

Depth From Depth To (usft) (usft)

Survey (Wellbore)

Tool Name

Remarks

0.0

13,578.1 PWP0 (OWB)

MWD

OWSG_Rev2_ MWD - Star

lan Section Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	10.00	75.42	2,497.5	11.0	42.1	2.00	2.00	0.00	75.42	
5,164.4	10.00	75.42	5,121.4	127.5	489.9	0.00	0.00	0.00	0.00	
5,664.4	0.00	0.00	5,618.8	138.4	532.0	2.00	-2.00	0.00	180.00	
8,127.0	0.00	0.00	8,081.5	138.4	532.0	0.00	0.00	0.00	0.00	
8,877.0	90.00	89.65	8,559.0	141.4	1,009.5	12.00	12.00	11.95	89.65	
13,578.1	90.00	89.65	8,559.0	170.5	5,710.4	0.00	0.00	0.00	0.00	BHL-FOSTERS 1

Received by OCD: 6/19/2025 4:57:15 PM

Planning Report - Geographic

Database: Company: Project:

Compass NEW MEXICO (SP) EDDY

ESKY FOSTER PROJECT Site: FOSTERS 16 FED COM 131H Well:

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well FOSTERS 16 FED COM 131H

KB @ 3298.0usft KB @ 3298.0usft

Grid

Minimum Curvature

nned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0		0.00	0.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
100.0		0.00	100.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
200.0		0.00	200.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
300.0		0.00	300.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
400.0	0.00	0.00	400.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
500.0	0.00	0.00	500.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
600.0		0.00	600.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
700.0		0.00	700.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
800.0		0.00	0.008	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
900.0	0.00	0.00	900.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,000.0	0.00	0.00	1,000.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,100.0	0.00	0.00	1,100.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,200.0	0.00	0.00	1,200.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,300.0	0.00	0.00	1,300.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,400.0	0.00	0.00	1,400.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,500.0	0.00	0.00	1,500.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,600.0	0.00	0.00	1,600.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,700.0	0.00	0.00	1,700.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,800.0	0.00	0.00	1,800.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
1,900.0	0.00	0.00	1,900.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
2,000.0	0.00	0.00	2,000.0	0.0	0.0	573,936.45	584,708.12	32° 34' 39.817 N	104° 11' 33.11
	uild 2.00								
2,100.0	2.00	75.42	2,100.0	0.4	1.7	573,936.89	584,709.81	32° 34' 39.821 N	104° 11' 33.09
2,200.0	4.00	75.42	2,199.8	1.8	6.8	573,938.21	584,714.88	32° 34' 39.834 N	104° 11' 33.03
2,300.0	6.00	75.42	2,299.5	4.0	15.2	573,940.40	584,723.31	32° 34' 39.856 N	104° 11' 32.94
2,400.0	8.00	75.42	2,398.7	7.0	27.0	573,943.47	584,735.10	32° 34' 39.886 N	104° 11' 32.80
2,500.0	10.00	75.42	2,497.5	11.0	42.1	573,947.41	584,750.24	32° 34' 39.925 N	104° 11' 32.62
	64.4 hold at	2500.0 MD							
2,600.0	10.00	75.42	2,595.9	15.3	58.9	573,951.78	584,767.05	32° 34' 39.968 N	104° 11' 32.42
2,700.0	10.00	75.42	2,694.4	19.7	75.7	573,956.16	584,783.85	32° 34' 40.011 N	104° 11' 32.23
2,800.0	10.00	75.42	2,792.9	24.1	92.5	573,960.53	584,800.66	32° 34' 40.054 N	104° 11' 32.03
2,900.0	10.00	75.42	2,891.4	28.4	109.3	573,964.90	584,817.46	32° 34' 40.097 N	104° 11' 31.84
3,000.0	10.00	75.42	2,989.9	32.8	126.1	573,969.27	584,834.27	32° 34' 40.140 N	104° 11' 31.64
3,100.0	10.00	75.42	3,088.3	37.2	143.0	573,973.64	584,851.08	32° 34' 40.183 N	104° 11' 31.44
3,200.0	10.00	75.42	3,186.8	41.6	159.8	573,978.02	584,867.88	32° 34' 40.226 N	104° 11' 31.25
3,300.0	10.00	75.42	3,285.3	45.9	176.6	573,982.39	584,884.69	32° 34' 40.269 N	104° 11' 31.05
3,400.0	10.00	75.42	3,383.8	50.3	193.4	573,986.76	584,901.49	32° 34' 40.312 N	104° 11' 30.85
3,500.0	10.00	75.42	3,482.3	54.7	210.2	573,991.13	584,918.30	32° 34' 40.355 N	104° 11' 30.66
3,600.0	10.00	75.42	3,580.8	59.1	227.0	573,995.51	584,935.10	32° 34' 40.398 N	104° 11' 30.46
3,700.0	10.00	75.42	3,679.2	63.4	243.8	573,999.88	584,951.91	32° 34' 40.441 N	104° 11' 30.26
3,800.0	10.00	75.42	3,777.7	67.8	260.6	574,004.25	584,968.71	32° 34' 40.484 N	104° 11' 30.07
3,900.0	10.00	75.42	3,876.2	72.2	277.4	574,008.62	584,985.52	32° 34' 40.527 N	104° 11' 29.87
4,000.0	10.00	75.42	3,974.7	76.5	294.2	574,012.99	585,002.32	32° 34' 40.571 N	104° 11' 29.67
4,100.0	10.00	75.42	4,073.2	80.9	311.0	574,017.37	585,019.13	32° 34' 40.614 N	104° 11' 29.48
4,200.0	10.00	75.42	4,171.6	85.3	327.8	574,021.74	585,035.93	32° 34' 40.657 N	104° 11' 29.28
4,300.0	10.00	75.42	4,270.1	89.7	344.6	574,026.11	585,052.74	32° 34' 40.700 N	104° 11' 29.08
4,400.0	10.00	75.42	4,368.6	94.0	361.4	574,030.48	585,069.55	32° 34' 40.743 N	104° 11' 28.89
4,500.0	10.00	75.42	4,467.1	98.4	378.2	574,034.86	585,086.35	32° 34' 40.786 N	104° 11' 28.69
4,521.0	10.00	75.42	4,487.8	99.3	381.8	574,035.77	585,089.88	32° 34' 40.795 N	104° 11' 28.65
	17220 Exit a			30.0		,	,		
4,600.0	10.00	75.42	4,565.6	102.8	395.0	574,039.23	585,103.16	32° 34' 40.829 N	104° 11' 28.50
4,700.0	10.00	75.42	4,664.0	107.1	411.8	574,043.60	585,119.96	32° 34' 40.872 N	104° 11' 28.30
4,800.0	10.00	75.42	4,762.5	111.5	428.6	574,047.97	585,136.77	32° 34' 40.915 N	104° 11' 28.10
4,900.0	10.00	75.42	4,861.0	115.9	445.4	574,052.34	585,153.57	32° 34' 40.958 N	104° 11' 27.910
1,000.0	.0.00	10.72	1,001.0	110.5	1.0.7	01 1,002.07	000,100.07	02 01 10.000 IV	.01 11 21.010

Planning Report - Geographic

Database: Company: Project: Compass NEW MEXICO

Project: (SP) EDDY
Site: ESKY FOSTER PROJECT
Well: FOSTERS 16 FED COM 131H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well FOSTERS 16 FED COM 131H

KB @ 3298.0usft KB @ 3298.0usft

Grid

Minimum Curvature

Planned Surv	rey								
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.0		75.42	4,959.5	120.3	462.3	574,056.72	585,170.38	32° 34' 41.001 N	104° 11' 27.714 W
5,100.0		75.42	5,058.0	124.6	479.1	574,061.09	585,187.18	32° 34′ 41.044 N	104° 11' 27.517 W
5,164.4		75.42	5,121.4	127.5	489.9	574,063.90	585,198.00	32° 34′ 41.072 N	104° 11' 27.391 W
	rop -2.00	75.40	F 450 F	400.0	40.5.5				
5,200.0		75.42	5,156.5	129.0	495.7	574,065.41	585,203.78	32° 34' 41.087 N	104° 11' 27.323 W
5,300.0 5,400.0		75.42 75.42	5,255.4 5,354.8	132.6	509.6	574,069.04	585,217.73	32° 34' 41.122 N	104° 11' 27.160 W
5,500.0		75.42	5,354.6	135.3 137.2	520.2 527.4	574,071.79 574,073.68	585,228.33 585,235.56	32° 34' 41.149 N 32° 34' 41.168 N	104° 11' 27.036 W 104° 11' 26.952 W
5,600.0		75.42	5,554.5	138.2	531.3	574,074.68	585,239.42	32° 34' 41.178 N	104° 11' 26.906 W
5,664.4		0.00	5,618.8	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
	162.7 hold at				002.0	0, 1,0, 1,00	000,210.12	02 01 11.10011	104 11 20.000 11
5,700.0		0.00	5,654.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
5,800.0		0.00	5,754.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
5,900.0	0.00	0.00	5,854.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,000.0		0.00	5,954.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,100.0	0.00	0.00	6,054.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,200.0	0.00	0.00	6,154.5	138.4	532.0	574,074.86	585,240.12	32° 34′ 41.180 N	104° 11' 26.898 W
6,300.0	0.00	0.00	6,254.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,400.0 6,500.0	0.00	0.00	6,354.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,600.0	0.00	0.00	6,454.5 6,554.5	138.4 138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
6,700.0	0.00	0.00	6,654.5	138.4	532.0 532.0	574,074.86 574,074.86	585,240.12 585,240.12	32° 34' 41.180 N 32° 34' 41.180 N	104° 11' 26.898 W
6,800.0	0.00	0.00	6,754.5	138.4	532.0	574,074.86	585,240.12	32° 34′ 41.180 N	104° 11' 26.898 W 104° 11' 26.898 W
6,900.0	0.00	0.00	6,854.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,000.0	0.00	0.00	6,954.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,100.0	0.00	0.00	7,054.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,200.0	0.00	0.00	7,154.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,300.0	0.00	0.00	7,254.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,400.0	0.00	0.00	7,354.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,500.0	0.00	0.00	7,454.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,600.0	0.00	0.00	7,554.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,700.0	0.00	0.00	7,654.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
7,800.0 7,900.0	0.00 0.00	0.00 0.00	7,754.5 7,854.5	138.4 138.4	532.0 532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
8,000.0	0.00	0.00	7,854.5	138.4	532.0	574,074.86 574,074.86	585,240.12 585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
8,100.0	0.00	0.00	8,054.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N 32° 34' 41.180 N	104° 11' 26.898 W 104° 11' 26.898 W
8,127.0	0.00	0.00	8,081.5	138.4	532.0	574,074.86	585,240.12	32° 34' 41.180 N	104° 11' 26.898 W
	S 12.00 TFC		-,		002.0	0. 1,0. 1.00	000,210.12	02 01 11110011	101 11 20.000 11
8,150.0	2.75	89.65	8,104.4	138.4	532.6	574,074.87	585,240.67	32° 34' 41.180 N	104° 11' 26.892 W
8,175.0	5.75	89.65	8,129.4	138.4	534.4	574,074.88	585,242.53	32° 34' 41.180 N	104° 11' 26.870 W
8,200.0	8.75	89.65	8,154.2	138.4	537.6	574,074.90	585,245.69	32° 34' 41.180 N	104° 11' 26.833 W
8,225.0	11.75	89.65	8,178.8	138.5	542.0	574,074.92	585,250.14	32° 34' 41.180 N	104° 11' 26.781 W
8,250.0	14.75	89.65	8,203.1	138.5	547.7	574,074.96	585,255.87	32° 34' 41.180 N	104° 11' 26.714 W
8,275.0	17.75	89.65	8,227.1	138.6	554.7	574,075.00	585,262.86	32° 34' 41.181 N	104° 11' 26.632 W
8,300.0	20.75	89.65	8,250.7	138.6	563.0	574,075.05	585,271.11	32° 34' 41.181 N	104° 11' 26.536 W
8,325.0	23.75	89.65	8,273.8	138.7	572.4	574,075.11	585,280.57	32° 34' 41.182 N	104° 11' 26.425 W
8,350.0 8,375.0	26.75 29.75	89.65 89.65	8,296.4	138.7	583.1	574,075.18	585,291.24	32° 34' 41.182 N	104° 11' 26.301 W
8,400.0	32.75	89.65	8,318.5 8,339.8	138.8 138.9	594.9 607.9	574,075.25 574,075.33	585,303.07 585,316.04	32° 34' 41.183 N 32° 34' 41.183 N	104° 11' 26.163 W 104° 11' 26.011 W
8,425.0	35.75	89.65	8,360.5	139.0	622.0	574,075.42	585,330.11	32° 34' 41.184 N	104° 11' 25.847 W
8,450.0	38.75	89.65	8,380.4	139.1	637.1	574,075.51	585,345.24	32° 34' 41.185 N	104° 11' 25.670 W
8,475.0	41.75	89.65	8,399.5	139.2	653.3	574,075.61	585,361.39	32° 34' 41.185 N	104° 11' 25.481 W
8,500.0	44.75	89.65	8,417.7	139.3	670.4	574,075.72	585,378.52	32° 34' 41.186 N	104° 11' 25.281 W
8,525.0	47.75	89.65	8,435.0	139.4	688.5	574,075.83	585,396.58	32° 34' 41.187 N	104° 11' 25.070 W
86			70						

Planning Report - Geographic

Database: Company: Project:

Compass NEW MEXICO (SP) EDDY

ESKY FOSTER PROJECT Site: FOSTERS 16 FED COM 131H Well:

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well FOSTERS 16 FED COM 131H

KB @ 3298.0usft KB @ 3298.0usft

Grid

Minimum Curvature

Measured Depth Incilination Azimuth Cyrtical Depth 4N/S (usft) (usft	Planned Surv	rey								
8.550.0 59.75 89.85 84.64.0 139.9 769.0 574,076.07 858.546.552 32.34.11.88.N 104.11.24.848 W 8.650.0 59.75 89.85 84.66.8 139.9 747.7 747.7 747.00 85.65.52 22.34.11.88.N 104.11.24.848 W 8.650.0 59.75 89.85 84.66.8 139.9 747.7 747.7 747.00 85.65.52 22.34.11.89.N 104.11.24.848 W 8.650.0 59.75 89.85 84.66.8 139.9 747.7 747.7 747.7 747.00 85.65.52 22.34.11.89.N 104.11.23.873 W 8.650.0 62.75 89.85 84.64.0 139.9 769.0 574.076.30 85.65.22 22.34.11.89.N 104.11.23.873 W 8.650.0 62.75 89.85 84.65 85.65.0 140.0 799.9 574.076.37 858.476.8 32.34.11.18.N 104.11.23.873 W 8.650.0 68.75 89.65 85.65.5 140.3 89.64 574.076.37 858.476.8 32.34.11.18.N 104.11.23.873 W 8.750.0 68.75 89.65 85.55.5 140.3 89.64 574.076.37 858.64.6 82.23 44.11.9 N 104.11.23.873 W 8.750.0 74.75 89.65 85.55.5 140.3 89.64 574.076.8 595.54.6 82.23 44.11.9 N 104.11.23.873 W 8.750.0 74.75 89.65 85.52.1 140.4 860.0 574.076.8 595.52.1 1 32.34.11.19.N 104.11.23.873 W 8.750.0 74.75 89.65 85.54.2 140.6 860.0 574.076.8 595.52.1 32.34.11.19.N 104.11.22.365 W 8.750.0 80.75 89.65 85.54.2 140.0 998.2 574.077.0 595.66.63.1 32.34.11.19.N 104.11.22.765 W 8.800.0 80.75 89.65 85.55.1 141.0 998.2 574.077.0 595.66.63.1 32.34.11.19.N 104.11.22.765 W 8.800.0 80.75 89.65 85.55.1 141.0 957.5 574.077.5 595.66.64.8 32.34.11.19.N 104.11.22.765 W 8.800.0 80.75 89.65 85.55.0 141.2 19.95.2 574.077.9 595.66.64.8 32.34.11.19.N 104.11.22.15 W 8.800.0 90.0 89.65 8.555.0 141.2 1,132.4 574.079.5 595.66.64.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 90.0 89.65 8.5550.0 142.1 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 89.65 8.5550.0 142.1 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 89.65 8.5550.0 143.4 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 89.65 8.5550.0 143.4 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 89.65 8.5550.0 143.4 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104.11.12.13.18 W 9.000.0 90.0 89.65 8.5550.0 143.4 1,132.4 574.079.8 595.64.05.3 32.34.11.20 N 104							Мар	Мар		
8,550.0 50.75 89.65 8,451.2 139.5 707.4 574,075.95 585,415.52 32°34'41.188 N 104'*11'24.848 W 8,575.0 53.75 89.65 8,468.6 139.6 727.2 574,076.20 585,435.28 32°34'41.188 N 104'*11'24.847 W 8,600.0 56,75 89.65 8,468.8 139.7 747.7 574,076.20 585,455.82 23°34'41.189 N 104'*11'24.347 W 8,600.0 56,75 89.65 8,468.8 139.7 747.7 574,076.20 585,477.08 32°34'41.189 N 104'*11'24.347 W 8,700.0 68,75 89.65 8,468.8 140.2 89.13 89.1									Latitude	Longitude
8,757.0 537.5 89.65 8,466.6 139.6 727.2 574,076.07 585,455.28 32" 34" 41.198 N 104" 11" 24.817 W 8,650.0 59.75 89.65 8,469.0 139.7 747.7 574,76.20 585,645.82 22" 34" 41.198 N 104" 11" 24.317 W 8,650.0 59.75 89.65 8,650.0 140.0 769.0 574,076.33 585,477.08 32" 34" 41.198 N 104" 11" 24.317 W 8,650.0 62.75 89.65 8,560.0 140.0 769.0 574,076.37 585,649.00 32" 34" 41.198 N 104" 11" 23.817 W 8,670.0 68.75 89.65 8,561.8 1 40.2 813.4 574,076.27 585,541.5 32" 34" 41.198 N 104" 11" 23.813 W 8,770.0 68.75 89.65 8,561.8 31 83.64 574,076.75 585,541.5 32" 34" 41.198 N 104" 11" 23.810 W 8,770.0 74.75 89.65 8,582.5 140.3 86.0 574,076.75 585,541.5 32" 34" 41.198 N 104" 11" 23.810 W 8,770.0 74.75 89.65 8,582.2 140.2 88.90 574,077.04 585,568.0 9 32" 34" 41.198 N 104" 11" 22.765 W 8,770.0 74.75 89.65 8,548.1 140.7 908.2 574,077.04 585,568.0 9 32" 34" 41.198 N 104" 11" 22.765 W 8,770.0 80.75 89.65 8,582.2 140.9 908.2 574,077.0 585,668.0 32" 34" 41.198 N 104" 11" 22.765 W 8,870.0 80.75 89.65 8,556.1 140.7 908.2 574,077.0 585,668.0 32" 34" 41.198 N 104" 11" 22.765 W 8,870.0 80.75 89.65 8,556.1 141.2 957.5 574,077.5 956,668.0 32" 34" 41.198 N 104" 11" 22.215 W 8,870.0 80.75 89.65 8,556.1 141.2 957.5 574,077.5 956,668.0 32" 34" 41.198 N 104" 11" 22.155 W 8,870.0 80.65 8,556.1 141.2 957.5 574,077.5 956,668.0 32" 34" 41.208 N 104" 11" 21.192 W 8,870.0 90.0 86.75 8,559.0 141.5 10.092.5 574,077.6 956,668.5 32" 34" 41.208 N 104" 11" 21.192 W 9,900.0 90.0 86.65 8,559.0 141.5 10.032 4 574,078.6 8 958,085.5 32" 34" 41.208 N 104" 11" 11.206 W 9,900.0 90.0 86.65 8,559.0 142.7 1,322.4 574,089.0 588,640.5 32" 34" 41.208 N 104" 11" 11.837 W 9,900.0 90.0 86.65 8,559.0 144.0 14.3 1,322.4 574,089.2 588,640.5 32" 34" 41.208 N 104" 11" 11.6375 W 9,900.0 90.0 86.65 8,559.0 146.5 1,322.4 574,089.2 588,640.5 32" 34" 41.208 N 104" 11" 11.6375 W 9,900.0 90.0 86.65 8,559.0 146.5 1,322.4 574,089.2 588,640.5 32" 34" 41.208 N 104" 11" 11.6375 W 9,900.0 90.0 86.65 8,559.0 146.5 1,322.4 574,089.2 588,640.5 32" 32" 41.208 N 104" 11" 11.6375 W 9,900.0 90.0 86.65 8,559	8.550.0			8.451.3						
8,680.0 56,75 89,65 84,80.8 139,7 747,7 574,076,32 585,455,82 32 34*41.191 N 104*11*24,137 W 8,680.0 62,75 89,65 8,650.0 140.0 790.9 574,076.3 585,470.8 32*34*41.191 N 104*11*23.170 W 8,700.0 68,75 89,65 8,650.8 140.2 813.4 574,076.6 15 585,541.5 13 2*34*41.192 N 104*11*23.873 W 8,750.0 68,75 89,65 8,552.6 140.3 836.4 574,076.8 15 585,541.5 13 2*34*41.191 N 104*11*23.065 W 8,750.0 74,75 89,65 8,552.6 140.4 883.9 574,076.8 15 585,641.5 13 2*34*41.191 N 104*11*23.065 W 8,750.0 74,75 89,65 8,542.2 140.8 883.9 574,077.0 89,559.0 32*34*41.191 N 104*11*23.065 W 8,750.0 74,75 89,65 8,542.2 140.8 883.9 574,077.0 585,590.0 32*34*41.191 N 104*11*22.165 W 8,800.0 80,75 89,65 8,552.8 140.9 932,7 574,077.5 585,640.87 32*34*41.198 N 104*11*22.165 W 8,825.0 83,75 89,65 8,552.8 141.0 992.4 574,077.5 585,640.87 32*34*41.198 N 104*11*22.165 W 8,825.0 89,55 8,552.8 141.2 992.4 574,077.5 585,640.87 32*34*41.198 N 104*11*22.165 W 8,825.0 90.00 89,65 8,559.0 141.4 109,05 574,077.5 585,640.87 32*34*41.200 N 104*11*21.935 W 8,825.0 90.00 89,65 8,559.0 141.4 109,05 574,077.5 585,640.87 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 141.4 109,05 574,077.6 585,640.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 141.4 109,05 574,077.6 585,640.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 141.5 1,032.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 141.2 1,132.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 142,7 1,232.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 142,7 1,232.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 8,900.0 90,00 89,65 8,559.0 142,7 1,232.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 9,700.0 90,00 89,65 8,559.0 142,7 1,322.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 9,700.0 90,00 89,65 8,559.0 142,7 1,322.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.318 W 9,700.0 90,00 89,65 8,559.0 142,7 1,322.4 574,078.6 585,740.5 32*34*41.200 N 104*11*21.635 W 9,700.0 9				• • • • • • • • • • • • • • • • • • • •				5		
8,685.0 59.75 89.65 8,494.0 139.9 769.0 574,076.33 585,470.0 32° 34′ 41.191 N 104′ 11′ 22.191 W 8,675.0 65.75 89.65 8,566.0 140.0 813.4 574,076.61 585,291.51 32° 34′ 41.191 N 104′ 11′ 22.810 W 8,780.0 68.75 89.65 8,565.5 140.3 836.4 574,076.61 585,541.51 32° 34′ 41.191 N 104′ 11′ 22.361 W 8,780.0 74.75 89.65 8,565.5 140.3 836.4 574,076.89 585,544.59 32° 34′ 41.191 N 104′ 11′ 23.610 W 8,780.0 74.75 89.65 8,522.1 40.4 860.0 574,076.89 585,546.59 32° 34′ 41.191 N 104′ 11′ 23.05 W 8,775.0 77.75 89.65 8,544.1 410.7 908.2 574,077.19 585,616.31 32° 34′ 41.191 N 104′ 11′ 22.50 E 8,800.0 80.75 89.65 8,552.8 140.9 932.7 574,077.50 585,640.53 32° 34′ 41.191 N 104′ 11′ 22.50 E 8,800.0 80.75 89.65 8,552.8 140.9 932.7 574,077.50 585,640.54 32° 34′ 41.191 N 104′ 11′ 22.50 E 8,800.0 86.75 89.65 8,552.0 141.4 1,095.5 574,077.50 585,640.56 32° 34′ 41.201 N 104′ 11′ 22.50 E 8,800.0 86.75 89.65 8,552.0 141.4 1,095.5 574,077.50 585,640.56 32° 34′ 41.201 N 104′ 11′ 21.318 W 8,877.0 90.0 89.65 8,559.0 141.4 1,095.5 574,077.50 585,665.64 32° 34′ 41.201 N 104′ 11′ 21.318 W 9.100.0 90.00 89.65 8,559.0 142.1 1,032.4 574,077.65 585,840.53 32° 34′ 41.201 N 104′ 11′ 21.318 W 9.100.0 90.00 89.65 8,559.0 142.1 1,324 574,078.5 858,405.53 32° 34′ 41.201 N 104′ 11′ 21.318 W 9.100.0 90.00 89.65 8,559.0 142.1 1,324 574,078.5 858,405.53 32° 34′ 41.201 N 104′ 11′ 11′ 1181 11′ 1181 1181 1181 1181										
8,650.0 62.75 89.65 8,506.0 140.0 790.9 574,076.47 585,490.0 32° 34′ 41.192 N 104′ 11′ 22.673 W 8,700.0 68.75 89.65 8.76.88 140.3 836.4 574,076.75 585,544.56 32° 34′ 41.193 N 104′ 11′ 23.670 W 8,700.0 68.75 89.65 8.525.0 140.4 860.0 574,076.9 585,540.55 32° 34′ 41.193 N 104′ 11′ 23.670 W 8,750.0 74.75 89.65 8.548.1 140.7 908.2 574,077.0 585,580.0 32° 34′ 41.198 N 104′ 11′ 22.65 W 8,750.0 74.75 89.65 8.584.1 140.7 908.2 574,077.0 585,680.0 32° 34′ 41.198 N 104′ 11′ 22.765 W 8,850.0 80.75 89.65 8.555.0 140.4 992.7 574,077.35 585,640.87 32° 34′ 41.198 N 104′ 11′ 22.15 W 8,850.0 80.75 89.65 8.555.0 141.4 992.4 574,077.65 585,665.0 32° 34′ 41.20 N 104′ 11′ 22.15 W 8,875.0 90.00 89.65 8.555.0 141.2 982.4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.634 W 9,900.0 90.00 89.65 8.555.0 141.2 10.32 4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.034 W 9,100.0 90.00 89.65 8.555.0 141.2 10.32 4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 141.2 11.32 4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 141.2 11.32 4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 141.2 11.32 4 574,077.65 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 142.1 1.32 4 574,078.26 585,680.55 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 142.7 1.32 4 574,078.26 585,405.3 32° 34′ 41.20 N 104′ 11′ 21.05 W 9,100.0 90.00 89.65 8.555.0 142.1 1.32 4 574,078.26 585,405.3 32° 34′ 41.20 N 104′ 11′ 12.10 W 104′ 11′ 12.10 W 9,100.0 90.00 89.65 8.555.0 142.1 1.32 4 574,079.20 585,405.3 32° 34′ 41.22 N 104′ 11′ 11′ 12.10 W 9,100.0 90.00 89.65 8.555.0 142.1 1.32 4 574,079.20 586,406.5 32° 34′ 41.22 N 104′ 11′ 11′ 12.10 W 9,100.0 90.0 89.65 8.559.0 142.1 1.32 4 574,080.46 586,406.5 32° 34′ 41.22 N 104′ 11′ 11′ 12.05 W 9,100.0 90.0 89.65 8.559.0 142.1 1.32 4 574,080.46 586,406.5 32° 34′ 41.22 N 104′ 11′ 11′ 12.05 W 9,100.0 90.0 89.65 8.559.0 142.1 1.32 4 574,080.46 588,406.5 32° 34′ 41.22 N 104′ 11′ 11′ 12.05 W 9			89.65	8,494.0	139.9			210 N. 11 (1985)		
8,720.0	8,650.0	62.75	89.65	8,506.0	140.0	790.9	574,076.47	585,499.00	32° 34' 41.192 N	104° 11' 23.873 W
8,725.0 71,75 89,65 8,552.0 140.4 880.0 574,0776.89 585,568.09 32°34°41.198 N 104°11°23.058 W 8,775.0 77,75 88,65 8,542.1 140.9 908.2 574,077.19 585,616.31 32°34°41.198 N 104°11°22.518 W 8,800.0 80,75 88,65 8,552.8 140.9 908.2 574,077.50 585,656.6 32°34°41.198 N 104°11°22.518 W 8,825.0 83,75 86,65 8,558.2 1412.9 982.4 982.4 8,740,77.50 585,656.6 32°34°41.200 N 104°11°22.518 W 8,877.0 90.00 86.65 8,559.0 141.4 1,009.5 574,077.82 585,661.6 32°34°41.200 N 104°11°21.318 W 8,877.0 90.00 80.65 8,559.0 141.4 1,009.5 574,077.82 585,661.6 32°34°41.200 N 104°11°21.318 W 8,877.0 90.00 80.65 8,559.0 142.1 1,132.4 574,077.85 585,6717.58 32°34°41.200 N 104°11°21.318 W 9,000.0 90.00 88.65 8,559.0 142.1 1,132.4 574,078.55 585,405.3 32°34°41.200 N 104°11°12.1050 W 9,000 80.00 88.65 8,559.0 142.1 1,132.4 574,078.55 585,405.3 32°34°41.200 N 104°11°19.881 W 9,300.0 90.00 88.65 8,559.0 142.1 1,132.4 574,079.6 585,405.3 32°34°41.200 N 104°11°19.881 W 9,300.0 90.00 88.65 8,559.0 142.1 1,132.4 574,079.6 585,405.3 32°34°41.200 N 104°11°19.881 W 9,300.0 90.00 88.65 8,559.0 144.6 1,532.4 574,091.06 586,340.52 32°34°41.220 N 104°11°17.540 W 9,400.0 90.00 88.65 8,559.0 144.6 1,532.4 574,091.06 586,340.52 32°34°41.220 N 104°11°17.540 W 9,500.0 90.00 88.65 8,559.0 144.6 1,532.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 9,500.0 90.00 88.65 8,559.0 144.6 1,532.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 9,500.0 90.00 88.65 8,559.0 145.8 1,632.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 9,500.0 90.00 88.65 8,559.0 145.8 1,732.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 9,500.0 90.00 88.65 8,559.0 145.8 1,732.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 9,500.0 90.00 88.65 8,559.0 145.8 1,732.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 104.00.0 90.00 88.65 8,559.0 145.8 1,732.4 574,091.06 586,340.52 32°34°41.228 N 104°11°17.5206 W 104.00.0 90.00 88.65 8,559.0 145.6 1,832.4 574,091.06 586,340.52 32°34°41.238 N 104°11°17.5206 W 104.00.0 90.00 88.65 8,559.0 145.6 1,832.4 574,091	8,675.0	65.75	89.65	8,516.8	140.2	813.4	574,076.61	585,521.51	32° 34' 41.193 N	104° 11' 23.610 W
8,750.0 74,75 88,65 8,548.1 140,7 908.2 74,077.04 585,592.03 32° 34′ 41,198 N 104° 11′ 22.756 W 8,075 86 65 8,058.2 140.9 932.7 574,077.35 585,640.87 32° 34′ 41,198 N 104° 11′ 22.756 W 8,050 83,75 86,65 8,556.1 141.0 957.5 574,077.65 585,660.87 32° 34′ 41,198 N 104° 11′ 22.156 W 8,850.0 83,75 86,65 8,556.1 141.4 1,095.5 574,077.65 585,690.55 32° 34′ 41,200 N 104° 11′ 22.156 W 8,877.0 90.00 80.65 8,559.0 141.4 1,095.5 574,077.65 585,690.55 32° 34′ 41,200 N 104° 11′ 21.054 W 9,000.0 90.00 88.65 8,559.0 141.5 1,032.4 574,077.65 585,640.53 32° 34′ 41,200 N 104° 11′ 21.054 W 9,000.0 90.00 88.65 8,559.0 142.7 1,332.4 574,078.65 585,840.53 32° 34′ 41,200 N 104° 11′ 21.050 W 9,000.0 90.00 88.65 8,559.0 142.7 1,332.4 574,078.65 585,840.53 32° 34′ 41,200 N 104° 11′ 18,712 W 9,200.0 90.00 88.65 8,559.0 142.7 1,332.4 574,078.65 585,840.53 32° 34′ 41,200 N 104° 11′ 18,712 W 9,200.0 90.00 88.65 8,559.0 142.7 1,332.4 574,078.65 585,400.53 32° 34′ 41,200 N 104° 11′ 18,712 W 9,300.0 90.00 88.65 8,559.0 144.0 1,332.4 574,078.65 586,040.53 32° 34′ 41,200 N 104° 11′ 17,544 W 9,300.0 90.00 88.65 8,559.0 144.0 1,332.4 574,078.05 586,040.53 32° 34′ 41,200 N 104° 11′ 17,544 W 9,300.0 90.00 88.65 8,559.0 144.0 1,332.4 574,081.66 586,240.52 32° 34′ 41,223 N 104° 11′ 16,376 W 9,500.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,240.52 32° 34′ 41,223 N 104° 11′ 16,376 W 9,600.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,240.52 32° 34′ 41,223 N 104° 11′ 14,038 W 9,600.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,340.52 32° 34′ 41,224 N 104° 11′ 11,038 W 9,600.0 90.00 88.65 8,559.0 146.5 1,832.4 574,081.66 586,340.52 32° 34′ 41,224 N 104° 11′ 11,038 W 9,600.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,340.52 32° 34′ 41,224 N 104° 11′ 11,038 W 9,600.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,340.52 32° 34′ 41,224 N 104° 11′ 11,038 W 9,600.0 90.00 88.65 8,559.0 145.2 1,633.4 574,081.66 586,340.52 32° 34′ 41,224 N 104° 11′ 11,038 W 104° 1000000 90.00 88.65 8,559.0 150.8 1,732.4 574,085.40 586,340.52 32° 34′ 41,224	8,700.0			8,526.5	140.3	836.4	574,076.75	585,544.56		104° 11' 23.340 W
8,800.0 80.75 88.65 8,552.8 140.9 932.7 574,077.59 585,616.31 32*34*41.198 N 104*11*22.52 tW 8,825.0 83.75 88.65 8,556.1 141.0 957.5 574,077.50 585,665.64 32*34*41.200 N 104*11*22.52 tW 8,877.0 90.00 89.65 8,558.2 141.2 982.4 574,077.65 585,665.64 32*34*41.200 N 104*11*21.925 W 8,877.0 90.00 89.65 8,559.0 141.4 1,009.5 574,077.68 585,605.55 32*34*41.200 N 104*11*21.634 W 8,877.0 90.00 89.65 8,559.0 141.5 1,032.4 574,077.65 585,605.55 32*34*41.200 N 104*11*21.634 W 9,000.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.59 585,405.3 32*34*41.200 N 104*11*21.050 W 9,000.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.59 585,405.3 32*34*41.200 N 104*11*21.050 W 9,000.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.59 585,406.53 32*34*41.200 N 104*11*19.881 W 9,200.0 90.00 89.65 8,559.0 142.1 1,132.4 574,079.82 586,406.53 32*34*41.200 N 104*11*19.881 W 9,300.0 90.00 89.65 8,559.0 142.1 1,132.4 574,079.82 586,406.53 32*34*41.200 N 104*11*19.881 W 9,300.0 90.00 89.65 8,559.0 142.1 1,132.4 574,079.82 586,406.53 32*34*41.200 N 104*11*17.871 W 9,200.0 90.00 89.65 8,559.0 142.1 1,132.4 574,081.0 \$86,140.52 32*34*41.220 N 104*11*17.504 W 9,500.0 90.00 89.65 8,559.0 144.6 1,532.4 574,081.06 586,240.52 32*34*41.220 N 104*11*15.206 W 9,500.0 90.00 89.65 8,559.0 144.6 1,532.4 574,081.0 \$86,340.52 32*34*41.237 N 104*11*15.206 W 9,500.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.06 586,340.52 32*34*41.237 N 104*11*15.206 W 9,700.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.06 586,340.52 32*34*41.237 N 104*11*10.531 W 9,900.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.0 586,340.52 32*34*41.237 N 104*11*10.531 W 9,900.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.0 586,340.5 23*34*41.228 N 104*11*10.531 W 9,900.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.0 586,340.5 23*34*41.228 N 104*11*10.531 W 9,900.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.0 586,440.5 23*34*41.231 N 104*11*10.531 W 9,900.0 90.00 89.65 8,559.0 145.8 1,832.4 574,081.0 586,440.5 23*34*41.231 N 104*11*10.531 W 104*10*10.0 90.00 89.65 8,559.0 146.5 3,332.4 574,080.5 586,400.5 23*3							574,076.89	585,568.09	32° 34' 41.195 N	104° 11' 23.065 W
8,825.0 83,75 89,66 8,552.1 140,9 932.7 574,077.55 585,660.87 32° 34° 41,199 N 104° 11′ 22.215 W 8,870.0 83,75 89,65 8,556.1 141.0 957.5 574,077.50 585,660.55 32° 34° 41,200 N 104° 11′ 21.955 W 8,877.0 90.00 89,65 8,559.0 141.4 1,009.5 574,077.82 585,717.58 32° 34° 41,201 N 104° 11′ 21.83 W 8 1814 701.1 hold at 8877.0 MD 8,900.0 90.00 89,65 8,559.0 141.5 1,032.4 574,077.85 585,740.53 32° 34° 41,203 N 104° 11′ 21.83 W 9,100.0 90.00 89,65 8,559.0 141.5 1,032.4 574,078.56 585,740.53 32° 34′ 41,203 N 104° 11′ 19.88 I W 9,100.0 90.00 89,65 8,559.0 142.7 1,232.4 574,079.80 585,740.53 32° 34′ 41,203 N 104° 11′ 19.88 I W 9,200.0 90.00 89,65 8,559.0 142.7 1,232.4 574,079.82 585,940.53 32° 34′ 41,203 N 104° 11′ 19.88 I W 9,300.0 90.00 89,65 8,559.0 144.0 1,332.4 574,079.82 585,940.53 32° 34′ 41,208 N 104° 11′ 17.544 W 9,300.0 90.00 89,65 8,559.0 144.6 1,532.4 574,079.82 586,400.52 32° 34′ 41,228 N 104° 11′ 17.544 W 9,300.0 90.00 89,65 8,559.0 144.6 1,532.4 574,081.66 586,240.52 32° 34′ 41,228 N 104° 11′ 17.546 W 9,500.0 90.00 89,65 8,559.0 144.6 1,532.4 574,081.66 586,240.52 32° 34′ 41,228 N 104° 11′ 11′ 15.06 W 9,500.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.66 586,340.52 32° 34′ 41,228 N 104′ 11′ 11′ 16.375 W 9,500.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.66 586,340.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.56 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.56 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.56 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.66 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.60 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.60 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 17.06 W 9,800.0 90.00 89,65 8,559.0 146.5 1,332.4 574,081.60 586,400.52 32° 34′ 41,228 N 104′ 11′ 11′ 10.81 W 9,800.0										
8,825.0 83.75 89.65 8,556.1 141.0 957.5 574,077.50 5585,665.64 32° 34° 41.200 N 104° 11′ 21.952 W 8,877.0 90.00 89.65 8,559.0 141.4 1,009.5 574,077.82 585,717.58 32° 34° 41.203 N 104° 11′ 21.834 W 8,877.0 90.00 89.65 8,559.0 141.4 1,009.5 574,077.82 585,717.58 32° 34° 41.203 N 104° 11′ 21.318 W 8,900.0 90.00 89.65 8,559.0 142.1 1,132.4 574,076.56 585,860.53 32° 34° 41.204 N 104° 11′ 21.318 W 9,100.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.58 585,840.53 32° 34° 41.204 N 104° 11′ 121.050 W 9,000.0 90.00 89.65 8,559.0 142.7 1,232.4 574,078.58 585,840.53 32° 34° 41.208 N 104° 11′ 19.881 W 9,200.0 90.00 89.65 8,559.0 142.7 1,232.4 574,078.59 585,840.53 32° 34° 41.208 N 104° 11′ 19.881 W 9,200.0 90.00 89.65 8,559.0 142.7 1,232.4 574,078.59 585,840.53 32° 34° 41.218 N 104° 11′ 17.544 W 9,200.0 90.00 89.65 8,559.0 143.4 1,332.4 574,079.82 585,940.53 32° 34° 41.218 N 104° 11′ 17.544 W 9,200.0 90.00 89.65 8,559.0 144.6 1,332.4 574,079.82 586,040.53 32° 34° 41.238 N 104° 11′ 17.545 W 9,400.0 90.00 89.65 8,559.0 144.6 1,532.4 574,081.60 586,240.52 32° 34° 41.228 N 104° 11′ 17.549 W 9,500.0 90.00 89.65 8,559.0 144.6 1,532.4 574,081.66 586,240.52 32° 34° 41.228 N 104° 11′ 14.038 W 9,500.0 90.00 89.65 8,559.0 145.8 1,332.4 574,081.66 586,240.52 32° 34° 41.228 N 104° 11′ 14.038 W 9,500.0 90.00 89.65 8,559.0 145.6 1,832.4 574,081.66 586,240.52 32° 34° 41.228 N 104° 11′ 14.038 W 9,500.0 90.00 89.65 8,559.0 147.7 1,332.4 574,081.60 586,240.52 32° 34° 41.228 N 104° 11′ 11′ 10.331 W 9,900.0 90.00 89.65 8,559.0 147.7 1,332.4 574,081.60 586,440.52 32° 34° 41.228 N 104° 11′ 10.531 W 9,900.0 90.00 89.65 8,559.0 147.7 1,332.4 574,081.60 586,440.52 32° 34° 41.228 N 104° 11′ 10.531 W 9,900.0 90.00 89.65 8,559.0 147.7 1,332.4 574,081.60 586,440.52 32° 34° 41.228 N 104° 11′ 10.531 W 9,900.0 90.00 89.65 8,559.0 147.7 1,332.4 574,081.60 586,440.52 32° 34° 41.228 N 104° 11′ 10.531 W 9,900.0 90.00 89.65 8,559.0 150.2 2,432.4 574,081.60 586,440.52 32° 34° 41.228 N 104° 11′ 10.531 W 10.000 90.00 89.65 8,559.0 150.2 2,432.4 574,081.60 586,440.52										104° 11' 22.502 W
8,850.0 86.75 88.65 8,559.0 141.1 982.4 574,077.65 585,890.55 32*34*14.201 N 104*11*21.318 W Start 4701.1 hold at 8877.0 MD 8,900.0 90.00 89.65 8,559.0 141.5 1,032.4 574,077.86 585,840.53 32*34*41.208 N 104*11*21.050 W 9,100.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.58 585,840.53 32*34*41.208 N 104*11*21.050 W 9,100.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.58 585,840.53 32*34*41.208 N 104*11*19.881 W 9,100.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.58 585,840.53 32*34*41.208 N 104*11*19.881 W 9,200.0 90.00 89.65 8,559.0 142.1 1,132.4 574,078.2 586,040.53 32*34*41.218 N 104*11*19.881 W 9,300.0 90.00 89.65 8,559.0 144.0 1,432.4 574,078.2 586,040.53 32*34*41.228 N 104*11*17.544 W 9,300.0 90.00 89.65 8,559.0 144.6 1,432.4 574,081.6 586,40.52 32*34*41.228 N 104*11*16.375 W 9,500.0 90.00 89.65 8,559.0 145.2 1,632.4 574,081.6 586,240.52 32*34*41.228 N 104*11*16.268 W 9,500.0 90.00 89.65 8,559.0 145.5 1,832.4 574,081.6 586,240.52 32*34*41.228 N 104*11*16.268 W 9,700.0 90.00 89.65 8,559.0 146.5 1,832.4 574,081.6 586,540.52 32*34*41.228 N 104*11*11.508 W 9,700.0 90.00 89.65 8,559.0 146.5 1,832.4 574,081.6 586,540.52 32*34*41.228 N 104*11*11.508 W 9,800.0 90.00 89.65 8,559.0 146.5 1,832.4 574,081.6 586,640.51 32*34*41.228 N 104*11*11.508 W 9,800.0 90.00 89.65 8,559.0 146.5 1,832.4 574,081.6 586,640.51 32*34*41.228 N 104*11*11.508 W 9,800.0 90.00 89.65 8,559.0 146.5 1,832.4 574,081.6 586,640.51 32*34*41.228 N 104*11*11.508 W 10,100.0 90.00 89.65 8,559.0 148.8 2,132.4 574,081.6 586,640.51 32*34*41.228 N 104*11*11.508 W 10,100.0 90.00 89.65 8,559.0 148.8 2,132.4 574,081.6 586,640.51 32*34*41.228 N 104*11*11.508 W 10,100.0 90.00 89.65 8,559.0 148.8 2,132.4 574,081.6 586,640.51 32*34*41.228 N 104*11*1.508 W 10,100.0 90.00 89.65 8,559.0 150.8 2,332.4 574,081.6 586,640.51 32*34*41.228 N 104*11*1.508 W 10,100.0 90.00 89.65 8,559.0 152.0 2,732.4 574,081.6 586,640.51 32*34*41.228 N 104*11*1.508 W 10,100.0 90.00 89.65 8,559.0 152.0 2,732.4 574,081.6 586,640.51 32*34*41.228 N 104*11*1.508 W 10,100.0 90.00										
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					163.8	4,632.3	574,100.26		32° 34' 41.374 N	104° 10' 38.976 W
12,700.0 90.00 89.65 8,559.0 165.1 4,832.3 574,101.50 589,540.46 32° 34' 41.383 N 104° 10' 36.639 W										
	12,700.0	90.00	89.65	8,559.0	165.1	4,832.3	574,101.50	589,540.46	32° 34' 41.383 N	104° 10' 36.639 W

Planning Report - Geographic

Database: Company: Compass NEW MEXICO

NEW MEXICO (SP) EDDY

Project: Site: Well:

ESKY FOSTER PROJECT

Wellbore: Design: FOSTERS 16 FED COM 131H

OWB PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well FOSTERS 16 FED COM 131H

KB @ 3298.0usft KB @ 3298.0usft

Grid

Minimum Curvature

leasured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,800.0	90.00	89.65	8,559.0	165.7	4,932.3	574,102.12	589,640.46	32° 34' 41.388 N	104° 10' 35.470 '
12,900.0	90.00	89.65	8,559.0	166.3	5,032.3	574,102.74	589,740.45	32° 34' 41.393 N	104° 10' 34.301
13,000.0	90.00	89.65	8,559.0	166.9	5,132.3	574,103.36	589,840.45	32° 34' 41.397 N	104° 10' 33.133
13,100.0	90.00	89.65	8,559.0	167.5	5,232.3	574,103.98	589,940.45	32° 34' 41.402 N	104° 10' 31.964
13,200.0	90.00	89.65	8,559.0	168.1	5,332.3	574,104.60	590,040.45	32° 34' 41.407 N	104° 10' 30.795
13,300.0	90.00	89.65	8,559.0	168.8	5,432.3	574,105.22	590,140.45	32° 34' 41.411 N	104° 10' 29.626
13,400.0	90.00	89.65	8,559.0	169.4	5,532.3	574,105.84	590,240.44	32° 34' 41.416 N	104° 10' 28.458
13,500.0	90.00	89.65	8,559.0	170.0	5,632.3	574,106.46	590,340.44	32° 34' 41.421 N	104° 10' 27.289
13,578.1	90.00	89.65	8,559.0	170.5	5,710.4	574,106.94	590,418.56	32° 34' 41.424 N	104° 10' 26.376

Design Targets	Design Targets											
	Angle °)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude			
BHL-FOSTERS 16 FE - plan hits target center - Point	0.00	0.00	8,559.0	170.5	5,710.4	574,106.94	590,418.56	32° 34' 41.424 N	104° 10' 26.376 W			
LTP-FOSTERS 16 FE - plan hits target center - Point	0.00	0.00	8,559.0	169.9	5,620.4	574,106.39	590,328.57	32° 34' 41.420 N	104° 10' 27.428 W			
FTP-FOSTERS 16 FE - plan misses target cen - Point	0.00 ter by 2	0.00 234.1usft at	8,559.0 8475.0usft	138.4 MD (8399.5	482.0 TVD, 139.2	574,074.86 N, 653.3 E)	585,190.13	32° 34' 41.180 N	104° 11' 27.482 W			

Measured	Vertical	Local Cool	rdinates		
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	
2,500.0	2,497.5	11.0	42.1	Start 2664.4 hold at 2500.0 MD	
4,521.0	4,487.8	99.3	381.8	NMNM 017220 Exit at 4521.0 MD	
5,164.4	5,121.4	127.5	489.9	Start Drop -2.00	1
5,664.4	5,618.8	138.4	532.0	Start 2462.7 hold at 5664.4 MD	
8,127.0	8,081.5	138.4	532.0	Start DLS 12.00 TFO 89.65	
8,877.0	8,559.0	141.4	1,009.5	Start 4701.1 hold at 8877.0 MD	
13,578.1	8,559.0	170.5	5,710.4	TD at 13578.1	

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PERMIAN RESOURCES

H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation
Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H
Fosters 16 Fed Com 131H, 132H, 200H, 201H
Eddy County, New Mexico

05-16-2024
This plan is subject to updating

Permian Resources Corporation

H₂S Contingency Plan Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H Fosters 16 Fed Com 131H, 132H, 200H, 201H Eddy County, New Mexico

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Section 1.0 - Introduction

I. Purpose

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

II. Scope & Applicability

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

Section 2.0 - Plan Implementation

I. Activation Requirements

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

II. Emergency Evacuation

In the event of an unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of H₂S gas, the first priority is to ensure the safety of the workers and general public. Upon discovery and subsequent determination of an applicable release, which cannot be quickly mitigated, immediately by using 911, notify local authorities to begin the process of alerting the general public, evacuate any residents within the Radius of Exposure (ROE), and limit any general public or employee access to any areas within the ROE of the affected facility.

III. Emergency Response Activities

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

Section 3.0 - Potential Hazardous Conditions & Response Actions

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

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are identified in the tables below.

H2S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER	1
H ₂ S CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH → WARNING S 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 ₂ S scavenger is on location.	
H ₂ S CONDITION 2: MODERATE DANGER TO LIFE AND HEALTH → WARNING SIGN YELLOW	
H_2S concentration >10 ppm and < 30 ppm in atmosphere detected by location monitors:	
General Actions During Condition 2	
Sound H ₂ S alarm and/or display yellow flag.	
Account for on-site personnel	
Upon sounding of an area or personal H ₂ S monitor alarm when 10 ppm is reached, proceed to a safe briefing area upwind of the location immediately (see MA-4 , Figure 5-1).	
Don proper respiratory protection.	
Alert other affected personnel	
<u>If trained and safe to do so</u> undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation.	
Account for on-site personnel at safe briefing area.	
Stay in safe briefing area if not working to correct the situation.	
Keep Site Supervisor / Permian Resources PIC informed. Notify applicable government agencies (Appendix A) If off-site impact; notify any neighbors within Radius of Exposure (ROE), Fig 5.11	
Continuously monitor H ₂ S until readings below 10 ppm.	
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor.	

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H₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED	
> 30 ppm H ₂ S concentration in air detected by location monitors: Extreme danger to life	
General Actions During Condition 3	
Sound H ₂ S alarm and/or display red flag.	
Account for on-site personnel	
Move away from H ₂ S source and get out of the affected area.	
Proceed to designated safe briefing area; alert other affected personnel.	
Account for personnel at safe briefing area.	
If trained and safe to do so undertake measures to control source H2S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation.	
Notify vehicles or situation and divert all traffic away from location.	
Permian Resources Peron-in-Charge will make appropriate community notifications.	
Red warning flag must be on display until the situation has been corrected and the Permian Resources Person-in-Charge determines it is safe to resume operations under Condition 1.	
Notify management of the condition and action taken. If H_2S 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 ₂ S Contingency Plan) are responsible for determining if the situation warrants igniting the flow of the uncontrolled well. This decision should be made only as a last resort and in a situation where it is obvious that human life is in danger and there is no hope of controlling the flow under prevailing conditions.	
If the flow is ignited, burning H ₂ S will be converted to sulfur dioxide (SO ₂), which is also highly toxic. Do not assume that area is safe after the flow is ignited. If the well is ignited, evacuation of the area is mandatory, because SO ₂ will remain in low-lying places under no-wind conditions.	
Keep Site Supervisor / Permian Resources PIC informed. Notify applicable government agencies and local law enforcement (Appendix A) If off-site impact; notify any neighbors within the Radius of Exposure (ROE), see example in Figure 5-11.	
Continuously monitor H ₂ S until readings fall below 10 ppm.	
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until "all clear" sounded by Permian Resources PIC / Site Supervisor.	
IF ABOVE ACTIONS CANNOT BE ACCOMPLISHED IN TIME TO PREVENT EXPOSURE TO THE PUBLIC	

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Alert public (directly or through appropriate government agencies) who may be subject to potentially harmful exposure levels.	0
Make recommendations to public officials regarding blocking unauthorized access to the unsafe area and assist as appropriate.	Q
Make recommendations to public officials regarding evacuating the public and assist as appropriate.	
Monitor ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry.	۵

Section 4.0 - Notification of H₂S Release Event

I. Local & State Law Enforcement

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

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

II. General Public

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

III. New Mexico Oil Conservation Division

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

IV. New Mexico Environment Department

The Permian Resources HSE Department will make any applicable notifications to the NMED regarding any release of a hazardous concentration of H₂S 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 H₂S gas or any associated byproducts of combustion.

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Section 5.0 - Emergency Contact List

EMERGENCY CONTACT LIST				
	PERMIAN RESOUR	CES CORPORAT	ION.	
POSITION	NAME	OFFICE	CEIL	ALT PHONE
	Opera	ations		
Operations Superintendent	Rick Lawson		432.530.3188	
TX Operations Superintendent	Josh Graham	432.940,3191	432.940.3191	
NM Operations Superintendent	Manual Mata	432.664.0278	575.408.0216	
Drilling Manager	Jason Fitzgerald	432.315.0146	318.347.3916	
Drilling Engineer	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	
	da da ancara sa da sa matematika matematika matematika matematika matematika matematika matematika matematika	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	
	Local, State, & F	ederal Agend	ies	
Eddy County Sheriff		575-887-7551		911
New Mexico State Highway Patrol		505-757-2297		911
Carlsbad Fire / EMS	AND THE RESERVE OF THE PARTY OF	575-885-3125		911
Carlsbad Memorial Hospital		575-887-4100		
Secorp – Safety Contractor	Ricky Stephens		(325)-262-0707	
New Mexico Oil Conservation Division — District 1 Office — Hobbs, NM.		575-393-6161		
New Mexico Environment Department – District III Office – Hobbs, NM		575-397-6910		
New Mexico Oil Conservation Division – Hobbs, NM	24 Hour Emergency	575-393-6161		
Bureau of Land Management – Carlsbad, NM		575-361-2822		
U.S. Fish & Wildlife		502-248-6911	Notes the sales adopting the Assault	

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.

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

4. H₂S Detectors and Alarms

a. Continuous monitoring type H₂S detectors, capable of sensing a minimum of 5ppm H₂S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO₂ detector will also be located at the combustor. The automatic H₂S 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.

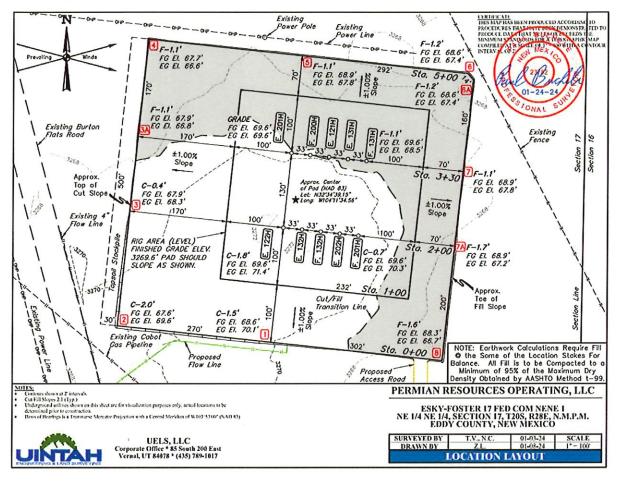
Permian Resources Corporation	H₂S Contingency Plan Esky 17 Fed Com 121H, 122H, 131H, 132H,	Eddy County, New Mexico
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II. Directions to Location

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 285 AND U.S. HIGHWAY 62 IN CARLSBAD, NEW MEXICO, PROCEED IN A EASTERLY DIRECTION ALONG U.S. HIGHWAY 62 APPROXIMATELY 8.6 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 243 (MAGNUM ROAD) TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 5.8 MILES TO THE JUNCTION OF THIS ROAD AND BURTON FLAT ROAD TO THE WEST. TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE INTERSECTION OF THIS ROAD AND ANGEL RANCH ROAD TO THE NORTH. TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION FOR 1.0 MILE TO THE INTERSECTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST. TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION FOR 360' THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 848' TO THE PROPOSED LOCATION. TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 19.7 MILES.

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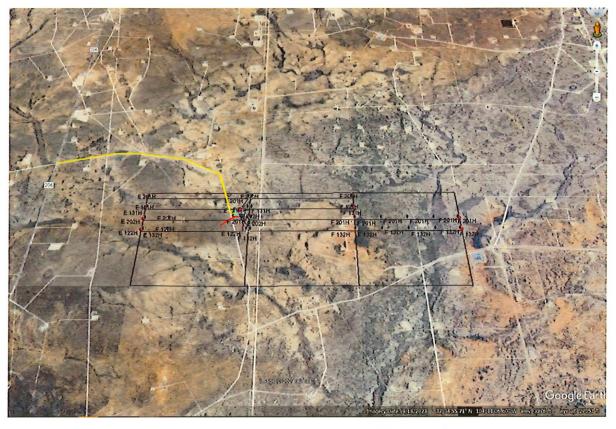
Plat of Location



Permian Resources Corporation

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1. Routes of Ingress & Egress (MAP)



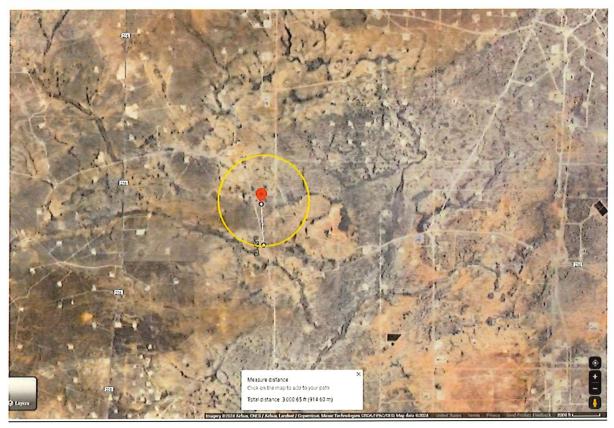
2. Residences in proximity to the 3000' Radius of Exposure (ROE) (MAP)

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

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Map of 3000' ROE Perimeter



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

Enter H₂S in PPM	1500)
Enter Gas flow in mcf/day (maximum worst	case conditions) 2500)
500 ppm radius of exposure (public road)	<u>105</u>	5 feet
300 ppm radius of exposure	<u>146</u>	<u>s</u> feet
100 ppm radius of exposure (public area)	230	<u>)</u> feet

- Location NAD 83 GPS Coordinates Lat: 32.577746, Long: -104.192746
- 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 206 (Illinois Camp RD) which is 1.92 miles 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.

Table 7.0. Physical Properties of H₂S

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

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

H₂S can be encountered when:

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

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	Fosters 16 Fed Com 131H, 132H, 200H, 201H	

Table 7.1. Hazards & Toxicity

(ppm) 0.00011-0.00033 ppm Typical back	Symptoms/Effects ckground concentrations
	ckground concentrations
0.00011-0.00033 ppm Typical back	ckground concentrations
,, ,,	
0.1 -1	
	shold (when rotten egg smell is first noticeable to some). Odor becomes
	nsive 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. Airw	vay problems (bronchial constriction) in some asthma patients.
20 ppm Possible fa	tigue, loss of appetite, headache, irritability, poor memory, dizziness.
50-100 ppm Slight conj	unctivitis ("gas eye") and respiratory tract irritation after 1 hour. May
cause dige	stive upset and loss of appetite.
100 ppm Coughing,	eye irritation, loss of smell after 2-15 minutes (olfactory fatigue). Altered
	drowsiness after 15-30 minutes. Throat irritation after 1 hour. Gradual
	severity of symptoms over several hours. Death may occur after 48 hours.
100-150 ppm Loss of sme	ell (olfactory fatigue or paralysis).
200-300 ppm Marked co	njunctivitis and respiratory tract irritation after 1 hour. Pulmonary edema
	from prolonged exposure.
	collapse in 5 minutes. Serious damage to the eyes in 30 minutes. Death
after 30-60	minutes.
700-1000 ppm Rapid unco	nsciousness, "knockdown" or immediate collapse within 1 to 2 breaths,
	tops, death within minutes.
1000-2000 ppm Nearly insta	ent death

III. Environmental Hazards

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 H_2S and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide SO_2 is produced as a constituent of flaring H_2S Gas and can present hazards associated, which are

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similar to H_2S . Although SO_2 is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas. Please see the attached SDS in Appendix B for reference.

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

Section 8.0 - Regulatory Information

I. OSHA & NIOSH Information

II. Table 8.0. OSHA & NIOSH H₂S Information

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

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

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

Table 8.1. Calculating H₂S Radius of Exposure

H₂S Radius of Exposure	Description	Control and Equipment Requirements
100 ppm	Distance from a release to where the H₂S 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).

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		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

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

To determine the extent of the 100 ppm ROE:

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

To determine the extent of the 500 ppm ROE:

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

Table 8.2. Calculating H2S Radius of Exposure

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

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

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

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

Two cleared areas will be designated as Safe Briefing Areas. During an emergency, personnel will assemble in one of these areas for instructions from the Permian Resources Person-in-Charge. Prevailing wind direction should be considered in locating the briefing areas 200' or more on either side of the well head. One area should offset the other at an angle of 45° to 90° with respect to prevailing wind direction to allow for wind shifts during the work period.

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- In the event of either an intentional or accidental releases of hydrogen sulfide, safeguards to protect the general public from the harmful effects of hydrogen sulfide must be in place for operations. A summary of the provisions in each of three H₂S ROE cases is included in **Table 8.3**.
 - o CASE 1 -100 ppm ROE < 50'
 - CASE 2 100 ppm ROE is 50' or greater, but < 3000' and does not penetrate public area.
 - CASE 3 -100 ppm ROE is 50' or greater and penetrates a public area or 500 ppm ROE includes a public road. Also if 100 ppm ROE > 3000' regardless of public area.

Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

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

Section 9.0 - Training Requirements

Training

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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).

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- 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.
- Locations of safe briefing areas.

Refresher training will be conducted annually.

Section 10.0 - Personal Protective Equipment

I. Personal H₂S Monitors

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

II. Fixed H₂S Detection and Alarms

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

III. Flame Resistant Clothing

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

IV. Respiratory Protection

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

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

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

- When routine or maintenance work tasks involve exposure to H₂S concentrations of 10 ppm or greater.
- When a fixed location area monitor alarms, and re-entry to the work area is required to complete a job.
- When confined spaces are to be entered without knowledge of H₂S levels present, or if initial measurements are to be taken of H₂S levels.
- During rescue of employees suspected of H₂S overexposure.
- For specific tasks identified with significant exposure potential and outlined in local program guidelines.

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- All respiratory equipment for hydrogen sulfide must be of the supplied-air type, equipped with pressure-demand regulators and operated in the pressure-demand mode only. This is the only type of respiratory protection recommended for hydrogen sulfide application. Equipment should be approved by NIOSH/MSHA or other recognized national authority as required. If airline units are used, a five-minute egress bottle should also be carried.
- Gas masks or other air-purifying respirators MUST NEVER BE USED FOR HYDROGEN SULFIDE due to the poor warning properties of the gas.
- Use of respiratory protection should be accompanied by a written respiratory protection program.

Appendix A H₂S SDS

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SECTION 1: Identification

Product identifier

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

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Industrial use Use as directed

1.3. Supplier

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

1.4. Emergency telephone number

Emergency number

: 1-800-363-0042
Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.
For routine information, contact your supplier or Praxair sales representative.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-CA classification

Flam, Gas 1 Liquefied gas
Acute Tox. 2 (Inhalation: gas)
STOT SE 3

GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms









Signal word : DANGER

Hazard statements

: EXTREMELY FLAMMABLE GAS
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
FATAL IF INHALED
MAY CAUSE RESPIRATORY IRRITATION
MAY FORM EXPLOSIVE MIXTURES WITH AIR
SYMPTOMS MAY BE DELAYED
EXTENDED EXPOSURE TO GAS REDUCES THE ABILITY TO SMELL SULFIDES

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

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Do not breathe gas

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

Avoid release to the environment

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

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

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

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

Protect from sunlight when ambient temperature exceeds 52°C (125°F) Close valve after each use and when empty

Do not open valve until connected to equipment prepared for use When returning cylinder, install leak tight valve outlet cap or plug

Do not depend on odour to detect the presence of gas

Other hazards

Other hazards not contributing to the

: Contact with liquid may cause cold burns/frostbite.

Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

Substances

Name	CAS No.	% (Vol.)	Common Name (synonyms)
Hydrogen sulfide (Main constituent)	(CAS No) 7783-06-4	100	Hydrogen sulfide (H2S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

First-ald measures after inhalation

- : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a
- First-ald measures after skin contact
- : The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
- First-aid measures after eye contact
- : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyebalis to ensure that all surfaces are flushed thoroughly. Contact an
- First-aid measures after ingestion
- ophthalmologist immediately. : Ingestion is not considered a potential route of exposure.

Most important symptoms and effects (acute and delayed)

No additional information available

Immediate medical attention and special treatment, if necessary

Other medical advice or treatment

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

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

No additional information available

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Specific hazards arising from the hazardous product

Fire hazard

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

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

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

Special protective equipment and precautions for fire-fighters

Firefighting instructions

: DANGER! Toxic, flammable liquefied gas

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

Special protective equipment for fire fighters

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

Other information

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

SECTION 6: Accidental release measures

Personal precautions, protective equip ment and emergency procedure

General measures

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

Methods and materials for containment and cleaning up

Methods for cleaning up

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

Reference to other sections

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

Precautions for safe handling

Precautions for safe handling

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

All piped systems and associated equipment must be grounded

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

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product each section 18. product, see section 16.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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

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

	controls/personal protection	
3.1. Control parameters		
Hydrogen sulfide (7783-06-		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm
Canada (Quebec)	VECD (mg/m³)	21 mg/m³
Canada (Quebec)	VECD (ppm)	15 ppm
Canada (Quebec)	VEMP (mg/m³)	14 mg/m³
Canada (Quebec)	VEMP (ppm)	10 ppm
Alberta	OEL Ceiling (mg/m³)	21 mg/m³
Alberta	OEL Ceiling (ppm)	15 ppm
Alberta	OEL TWA (mg/m³)	14 mg/m³
Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL Ceiling (ppm)	10 ppm
Manitoba	OEL STEL (ppm)	5 ppm
Manitoba	OEL TWA (ppm)	1 ppm
New Brunswick	OEL STEL (mg/m³)	21 mg/m³
New Brunswick	OEL STEL (ppm)	15 ppm
New Brunswick	OEL TWA (mg/m²)	14 mg/m³
New Brunswick	OEL TWA (ppm)	10 ppm
New Foundland & Labrador	OEL STEL (ppm)	5 ppm
New Foundland & Labrador	OEL TWA (ppm)	1 ppm
Nova Scotia	OEL STEL (ppm)	5 ppm
Nova Scotia	OEL TWA (ppm)	1 ppm
Nunavut	OEL Ceiling (mg/m³)	28 mg/m³
Nunavut	OEL Celling (ppm)	20 ppm
Nunavut	OEL STEL (mg/m³)	21 mg/m³
Nunavut	OEL STEL (ppm)	15 ppm
Nunavut	OEL TWA (mg/m³)	14 mg/m³
Nunavut	OEL TWA (ppm)	10 ppm
Northwest Territories	OEL STEL (ppm)	15 ppm

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

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.

Individual protection measures/Personal protective equipment

Personal protective equipment

Other information

: 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 by

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).

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

511 - Cold insulating gloves.

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Gas

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

Molecular mass : 34 a/mol Colour

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

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 mixture : No data available Density : No data available

Relative gas density : 1.2

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

Flammability (solid, gas) : 4.3 - 46 vol %

9.2. Other information

Gas group : Liquefied gas

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

ground level

SECTION 10: Stability and reactivity

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 information

11.1. Information on toxicological effects

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

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EN (English)

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Hydrogen sulfide

Date of issue: 10-15-1979 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)	356.00000000 ppmv/4h
ATE CA (vapours)	0.99000000 mg/l/4h
ATE CA (dust,mist)	0.99000000 mg/l/4h

Skin corrosion/irritation : Not classified

pH: Not applicable.

Serious eye damage/irritation : Not classified pH: Not applicable.

: Not classified : Not classified : Not classified

Reproductive toxicity : Not classified

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

Specific target organ toxicity (repeated

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

exposure)

: Not classified

Aspiration hazard : Not classified

2.1. Toxicity	
cology - general	: VERY TOXIC TO AQUATIC LIFE.
Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales prometas [flow-through])

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.

Mobility in soil 12.4.

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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Eddy County, New Mexico



Hydrogen sulfide

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

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN1053

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

TDG Subsidiary Classes : 2.1

: HYDROGEN SULPHIDE Proper shipping name

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

Passenger Carrying Road Vehicle or Passenger : Forbidden

Carrying Railway Vehicle Index

Air and sea transport

IMDG

UN-No. (IMDG) : 1053

Proper Shipping Name (IMDG) : HYDROGEN SULPHIDE

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

IATA

UN-No. (IATA) : 1053

Proper Shipping Name (IATA) : Hydrogen sulphide

Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Hydrogen sulfide (7783-06-4)

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

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

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

Listed on INSQ (Mexican national Inventory of Chemical Substances)

SECTION 16: Other information Date of Issue

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

Indication of changes:

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

Ensure operators understand the flammability hazard.

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Hydrogen sulfide

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

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Other information

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

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

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 SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.ca. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write Praxair Canada Inc, (Phone: 1-888-257-5149; Address: Praxair Canada Inc, 1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2).

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NFPA health hazard

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

NFPA fire hazard

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

readily.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

HMIS III Rating

Health Flammability : 2 Moderate Hazard - Temporary or minor injury may occur

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

Physical

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

SDS Canada (GHS) - Praxair

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

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Eddy County, New Mexico

Appendix B SO₂SDS



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SULFUR DIOXIDE

Synonyms

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

SULFUR OXIDE(SO2)

Chemical Family

inorganic, gas

Product Description

Classification determined in accordance with Compressed Gas Association standards.

Product Use

Industrial and Specialty Gas Applications.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

MATHESON TRI-GAS, INC.

3 Mountainview Road

Warren, NJ 07059

General Information: 1-800-416-2505

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

Section 2 - HAZARDS IDENTIFICATION

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

Gases Under Pressure - Liquefied gas Acute Toxicity - Inhalation - Gas - Category 3 Skin Corrosion/Irritation - Category 1B Serious Eye Damage/Eye Irritation - Category 1 Simple Asphyxiant

GHS Label Elements 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.

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

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

Continue rinsing.

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

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

Storage

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

Store locked up.

Protect from sunlight.

Disposal

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

Other Hazards

Contact with liquified gas may cause frostbite.

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

Section 4 - FIRST AID MEASURES

Inhalation

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

Skin

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

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

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

Delayed

No information on significant adverse effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Note to Physicians

For inhalation, consider oxygen.

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Safety Data Sheet

Material Name: SULFUR DIOXIDE

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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 1DLH
OSHA (US):	5 ppm TWA ; 13 mg/m3 TWA
Mexico:	0.25 ppm STEL [PPT-CT]

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

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

Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

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

Skin Protection

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

Respiratory Protection

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

Wear appropriate chemical resistant gloves.

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

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Safety Data Sheet

Material Name: SULFUR DIOXIDE

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

Solvent Solubility

Soluble

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

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

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

Incompatible Materials

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

Hazardous decomposition products

oxides of sulfur

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

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

Skin Contact

skin burns

Eye Contact

eye burns

Ingestion

burns, nausea, vomiting, diarrhea, stomach pain

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

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

published:

Sulfur dioxide (7446-09-5)

Inhalation LC50 Rat 965 - 1168 ppm 4 h

Product Toxicity Data

Acute Toxicity Estimate

No data available.

Immediate Effects

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Material Name: SULFUR DIOXIDE

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

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

respiratory tract burns, skin burns, eye burns

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

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

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

Not applicable.

Medical Conditions Aggravated by Exposure

respiratory disorders

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

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

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Component Waste Numbers

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

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: SULFUR DIOXIDE

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Permian Resources Corporation

Safety Data Sheet

Material Name: SULFUR DIOXIDE

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

IMDG Information:

Shipping Name: SULPHUR DIOXIDE

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

TDG Information:

Shipping Name: SULFUR DIOXIDE

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

International Bulk Chemical Code

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

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

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

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

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

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

U.S. State Regulations

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

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

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



WARNING

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.P65Wamings.ca.gov.

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Safety Data Sheet

Material Name: SULFUR DIOXIDE

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

Component Analysis - Inventory Sulfur dioxide (7446-09-5)

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

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

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 3 Fire: 0 Instability: 0

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

Summary of Changes SDS update: 02/10/2016

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA -Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH -Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts1M - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency, NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP -National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA -Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit;

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Received by OCD: 6/19/2025 4:57:15 PM

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Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: FOSTERS 16 FED COM Well Number: 131H

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 477201

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	477201
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
jelrod01	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/19/2025
jelrod01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/19/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/24/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/24/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	7/24/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	7/24/2025
ward.rikala	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	7/24/2025