\*(Instructions on page 2)

Received by OCD: 6/25/2025 1:01:10 PM

(Continued on page 2)

Form 3160-3 (June 2015)				FORM A OMB No Expires: Ja	. 1004-0	0137
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No. NMNM17220	•				
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee	or Tribe	Name			
la. Type of work:	EENTER			7. If Unit or CA Agr	eement,	Name and No.
1b. Type of Well:  Oil Well Gas Well O	Other			8. Lease Name and V	Well No.	
1c. Type of Completion: Hydraulic Fracturing S	ingle Zone	Multiple Zone		FOSTERS 16 FED	СОМ	
				200H		
Name of Operator     PERMIAN RESOURCES OPERATING LLC						57076
3a. Address 300 N MARIENFELD ST SUITE 1000, MIDLAND, TX 797	1	No. (include area cod 4222	le)	10. Field and Pool, o WC-015 G-06 S24	•	•
4. Location of Well (Report location clearly and in accordance of At surface NENE / 1116 FNL / 479 FEL / LAT 32.5777		•		11. Sec., T. R. M. or SEC 17/T20S/R28		l Survey or Area
At proposed prod. zone NENE / 330 FNL / 10 FEL / LAT	32.579987	/ LONG -104.1739	74			
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish EDDY		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of a	cres in lease	17. Spacii 320.0	ng Unit dedicated to th	is well	
(Also to nearest drig. unit line, if any)  18. Distance from proposed location*	19. Propose	d Denth	20. BLM/	BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft.		14053 feet		NMB001841		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will	start*			
3270 feet	11/01/2024	901		90 days		
	24. Attac	chments				
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1	, and the H	lydraulic Fracturing ru	le per 43	3 CFR 3162.3-3
Well plat certified by a registered surveyor.     A Drilling Plan.		4. Bond to cover th Item 20 above).	e operation	s unless covered by an	existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		5. Operator certific 6. Such other site sp BLM.		mation and/or plans as i	may be re	equested by the
25. Signature		(Printed/Typed)			Date	
(Electronic Submission) Title	CASS	SIE EVANS / Ph: (4	32) 695-4	222	06/29/2	024
Regulatory Specialist						
Approved by (Signature) (Electronic Submission)		(Printed/Typed) / LAYTON / Ph: (57	75) 234-59	1	Date 01/24/2	025
Title Assistant Field Manager Lands & Minerals	Office Carlst	pad Field Office				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	t holds legal o	or equitable title to th	ose rights i	n the subject lease wh	ich woul	d entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					y depart	ment or agency
		-				
		TH CONDIT	ONS			
	antill	CH CONDIT	UNIV			
	UTIZED W	III VV	-			

**Approval Date: 01/24/2025** 

### 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 agencysponsored 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 Concction 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 / 1116 FNL / 479 FEL / TWSP: 20S / RANGE: 28E / SECTION: 17 / LAT: 32.577755 / LONG: -104.192852 ( TVD: 0 feet, MD: 0 feet ) PPP: NWNW / 330 FNL / 100 FWL / TWSP: 20S / RANGE: 28E / SECTION: 16 / LAT: 32.57992 / LONG: -104.190944 ( TVD: 8910 feet, MD: 9400 feet ) BHL: NENE / 330 FNL / 10 FEL / TWSP: 20S / RANGE: 28E / SECTION: 16 / LAT: 32.579987 / LONG: -104.173974 ( 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.

		5/25/2025 1:	01:10 PM		State of N	ew	Mexico			Revis	Page sed July 9, 2024
Energy, Minerals & Natura				ral	al Resources Department			NCVI.	,cu sury 5, 202-		
	mit Electronical OCD Permitting	ly		OIL (	CONSERVA	ATI	ON DIVISION			▼ Initial Submit	tal
									Submitta Type:	□ Amended Rep	
									Type.	☐ As Drilled	
			1		WELL LOCA	ATI	ON INFORMATION				
API Number							tats; ₩c t; Wolfc		o North (Gas)		
Prop	erty Code 337456		Property Na	nme	FOSTI	ERS	16 FED COM			Well Number	Н
OGI	RID No. 372165		Operator Na	ame Pl	ERMIAN RESC	OUR	CES OPERATING, LI	C		Ground Level Ele	
Surf		State □ Fee □	⊥ Tribal 🔽 Fed				Mineral Owner: ▼ S		☐ Tribal ☐	l	7.7
			Χ		Ç.,,	rfac	e Location				
UL	Section	Township	Range	Lot	Ft. from N/S	riac	Ft. from E/W	Latitude (N.	AD 83)	Longitude (NAD 83)	County
A	17	20S	28E	Lot	1,116 NORT	Ή	479 EAST	32.5777	- 1	-104.192852°	EDDY
					Botto	m H	Iole Location				
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude (N.	AD 83)	Longitude (NAD 83)	County
A	16	20S	28E		330 NORTI	Н	10 EAST	32.579987°		-104.173974°	EDDY
Ded	icated Acres	Infill or Defi	ning Well	Defining	Well API		Overlapping Spacing	Unit (Y/N)	Consolida	ation Code	
160 Defining				Y			С				
Orde	er Numbers.	Pending					Well setbacks are und	er Common (	Ownership	:XYes □No	
					Kick	Off	Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude (N.	AD 83)	Longitude (NAD 83)	County
A	17	20S	28E		1,116 NORT	Ή	479 EAST	32.577755°		<b>-</b> 104.192852°	EDDY
	1	•		•	First 7	Tak	e Point (FTP)		'		
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude (NAD 83)		Longitude (NAD 83)	County
D	16	20S	28E		330 NORTI	H	100 WEST	32.579920°		-104.190944°	EDDY
					Last 7	Γake	Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude (N.	AD 83)	Longitude (NAD 83)	County
A	16	20S	28E		330 NORTI	Н	100 EAST	32.5799	986°	-104.174266°	EDDY
Linit	irod Aran ar A	rea of Uniform I	ntarast	Specing	Unit Tyme □ He		atal 🗆 Vartical	Groun	nd Floor El	avations	
Onit	ized Area or A	ea of Omform i	nterest	Spacing	Unit Type 🔀 Ho	HZOI	ntai 🗆 verticai	Groun	id Floor El	evation:	
OPE	RATOR CERT	TFICATIONS					SURVEYOR CERTIFIC	ATIONS			
			ained housin in	mia and som	plete to the best of		I hereby certify that the well		on Pald On	t waterlatted from the Co	ld notes of setu-1
my k	nowledge and bel	ief, and, if the wel	l is a vertical or	directional v	well, that this	-   -	surveys made by me or unde	r my supervisio	r, and that t	was plotted from the flet he same is true and corr	ect to the best of
		ns a working inter l bottom hole locai					my belief.		N MEX		
					r unleased mineral g order heretofore			115	20000		
	ed by the division			poome	,			為人	29/32	A E	
		tal well, I further						100	6-20-2		
in ea	ch tract (in the ta	tessee or owner of rget pool or forma l or obtained a con	tion) in which a	ny part of the				1.00	ONAL	SUR	
inter	vai wiii o <del>e</del> iocalea	or quantined a con	apuisory pooling	s oruer from	ine uivision.	- 1			- MW F		

Jennifer Elrod

23782

Signature and Seal of Professional Surveyor

Printed Name

Certificate Number

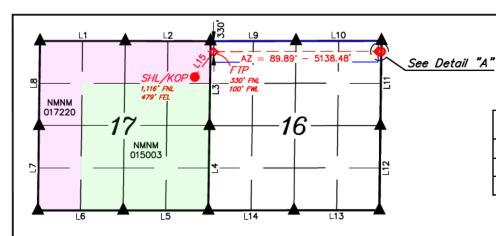
January 03, 2024 Date of Survey

jelrod@ntglobabl.com Email Address

Signature

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.

Property Name
FOSTERS 16 FED COM
Well Number
200H
T.J.S. 01-05-24
Revised By
REV. 4 N.R. 06-20-25 (REVERT TO ONE MILE WELLBORE)

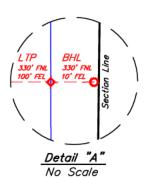


WELLBORE - LINE TABLE						
LINE	DIRECTION	LENGTH				
L15	AZ = 36.91*	982.83'				
L16	AZ = 89.89*	90.01				

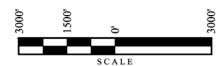
- SURFACE HOLE LOCATION/ KICK OFF POINT
- ♦ = FIRST TAKE POINT/ LAST TAKE POINT
- = LEASE PENETRATION POINT
- O = BOTTOM HOLE LOCATION
- $\triangle$  = SECTION CORNER LOCATED
- --- 330' BUFFER FROM WELLBORE

### NOTE:

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



SEC	TION - LINE	TABLE
LINE	DIRECTION	LENGTH
L1	N89°56'57"W	2664.61'
L2	N89*58'12"W	2666.37'
L3	N00°47°06″E	2643.44'
L4	N00°47°22″E	2645.65
L5	S89*59'56"W	2661.24'
L6	S89*59'35"W	2661.47
L7	N00°42'15"E	2647.03'
L8	N00°41'09"E	2646.08'
L9	S89°53'23"W	2668.72'
L10	S89°53'30"W	2669.16'
L11	N00°40'38"E	2648.37
L12	N00'39'58"E	2647.49'
L13	S89°57'59"W	2673.35
L14	S89*57'50"W	2675.10'



NAD 83 (SHL/KOP)	FOOTAGE
LATITUDE = 32°34'39.92" (32.577755°)	1,116' FNL
LONGITUDE = -104°11'34.27" (-104.192852°)	479' FEL
NAD 27 (SHL/KOP)	
LATITUDE = 32°34'39.50" (32.577638°)	l
LONGITUDE = -104°11'32.44" (-104.192345°)	ł
STATE PLANE NAD 83 (N.M. EAST)	l
N: 573946.56' E: 584609.66'	ł
STATE PLANE NAD 27 (N.M. EAST)	ł
N: 573885.20' E: 543429.42'	

NAD 83 (FIRST TAKE POINT)	FOOTAGE
LATITUDE = 32°34'47.71" (32.579920°)	330' FNL
LONGITUDE = -104°11'27.40" (-104.190944°)	100' FWL
NAD 27 (FIRST TAKE POINT	
LATITUDE = 32°34'47.29" (32.579802°)	
LONGITUDE = -104°11'25.57" (-104.190437°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 574734.76' E: 585196.38'	
STATE PLANE NAD 27 (N.M. EAST)	]
N: 574673.39' E: 544016.16'	

NAD 83 (LAST TAKE POINT)	FOOTAGES
LATITUDE = 32°34'47.95" (32.579986°)	330' FNL
LONGITUDE = -104°10'27.36" (-104.174266°)	100' FEL
NAD 27 (LAST TAKE POINT)	
LATITUDE = 32°34'47.53" (32.579869°)	
LONGITUDE = -104°10'25.53" (-104.173759°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 574766.28' E: 590333.58'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 574704.86' E: 549153.34'	

NAD 83 (BOTTOM HOLE LOCATION)	FOOTAGES
LATITUDE = 32°34'47.95" (32.579987°)	330' FNL
LONGITUDE = -104°10'26.31" (-104.173974°)	10' FEL
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°34'47.53" (32.579870°)	
LONGITUDE = -104°10'24.48" (-104.173467°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 574766.83' E: 590423.57'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 574705.41' E: 549243.33'	

Sheet 2 of 2

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 Managem	ent Plan must be submitted	with each Application for	r Permit to Drill (APE	) for a new or recom	pleted well.

# Section 1 – Plan Description Effective May 25, 2021

I. Operator: Permian Resource	s Operating	<u>, LLC</u>	OGRID;	372165	Date	: 06/25/ <u>2024</u>
II. Type: ⊠ Original □ Amendm	nent due to l	□ 19.15.2 <b>7</b> .9.I	D(6)(a) NMAC □	9.15.27.9.D(6)(b)	NMAC □ Other.	
If Other, please describe:						
III. Well(s): Provide the following be recompleted from a single well	informatio	on for each new sected to a cent	or recompleted wral delivery point.	ell or set of wells p	proposed to be dri	illed or proposed to
Well Name	API	ULSTR	Footage	Anticip ed Oil BBL/D	Gas	Anticipated Produced Water BBL/D
IV. Central Delivery Point Name	: ESKY-FC	STER 17 FEL	О СОМ СТВ		[See 19.15.27	7.9(D)(1) NMAC]
V. Anticipated Schedule: Provide proposed to be recompleted from a					set of wells propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
VI. Separation Equipment: ⊠ Att	ach a comn	lete description	n of how Operator	will size separation	equipment to on	timize gas canture
VII Operational Practices: M At	•	Î		•		

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.

Page 1 of 6

			- Enhanced Plan VE APRIL 1, 2022	
Beginning April 1, 2 reporting area must o	2022, an operator the complete this section	nat is not in compliance n.	e with its statewide natural ga	as capture requirement for the applicable
☐ Operator certifies capture requirement			ction because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Nat	tural Gas Producti	on:		
We	;ll	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gati	hering System (NG	(GS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
			Statt Date	or System Segment Tie-in
production operations	s to the existing or p	lanned interconnect of	location of the well(s), the ant the natural gas gathering syste which the well(s) will be conn	ticipated pipeline route(s) connecting the m(s), and the maximum daily capacity of ected.
		hering system  will E the date of first produc		other 100% of the anticipated natural gas
XIII. Line Pressure. natural gas gathering	Operator ⊠ does □ system(s) described	does not anticipate the above will continue to	at its existing well(s) connecte meet anticipated increases in	ed to the same segment, or portion, of the line pressure caused by the new well(s).
☑ Attach Operator's	plan to manage pro-	duction in response to the	he increased line pressure.	
Section 2 as provided	in Paragraph (2) of		27.9 NMAC, and attaches a fu	A 1978 for the information provided in all description of the specific information

# 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

☐ 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

- I. 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: Casoù 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

Received by OCD: 6/25/2025 1:01:10 PM

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.

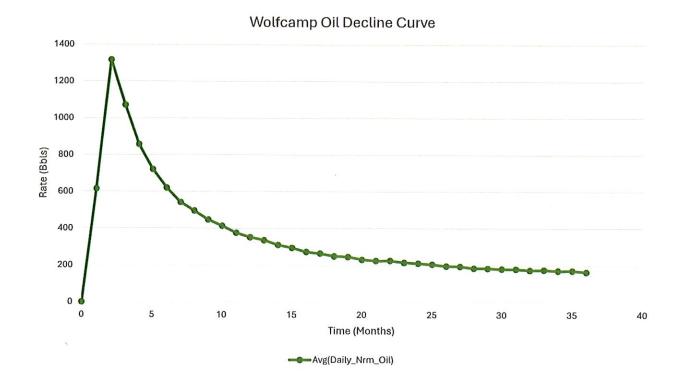
### Measurement or Estimation

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.

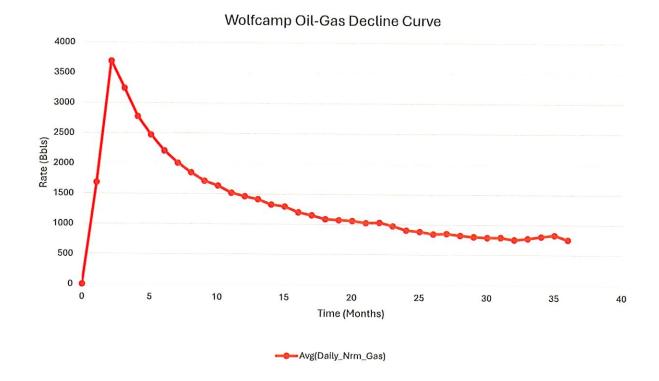
### VIII. Best Management Practices:

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.



- 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.

# **Drilling Plan Data Report**

02/07/2025

**BUREAU OF LAND MANAGEMENT** 

Submission Date: 06/29/2024 APD ID: 10400098622

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: FOSTERS 16 FED COM

Well Number: 200H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

# Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14909635	QUATERNARY	3270	0	0	ALLUVIUM	USEABLE WATER	N
14909636	RUSTLER	3099	171	171	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14909637	TOP SALT	3019	251	251	SALT	NONE	N
14909638	TANSILL	2574	696	696	SANDSTONE	NONE	N
14909639	YATES	2469	801	801	ANHYDRITE, SHALE	NATURAL GAS, OIL, USEABLE WATER	N
14909640	SEVEN RIVERS	2119	1151	1151	LIMESTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909641	CAPITAN REEF	889	2381	2381	LIMESTONE	USEABLE WATER	N
14909642	DELAWARE SAND	299	2971	2971	SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909643	BRUSHY CANYON	-146	3416	3416	SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
14909644	BONE SPRING	-1641	4911	4911	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL, USEABLE WATER	N
14909646	WOLFCAMP	-5481	8751	8751	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL, USEABLE WATER	Y

### Section 2 - Blowout Prevention

ressure Rating (PSI): 5M

Rating Depth: 8910

quipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings 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 pgraded 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 ige ( in the improvement of the

Requesting Variance? YES

Well Name: FOSTERS 16 FED COM Well Number: 200H

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\_20240626092348.pdf

### **BOP Diagram Attachment:**

Esky\_Fosters\_Fed\_5M\_BOP\_20240626092354.pdf

# Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	196	0	196	3270	3074	196	J-55	54.5	BUTT	11.6 7	9.05	DRY	8.21	DRY	7.71
2	INTERMED IATE	12.2 5	10.75	NEW	API	N	0	721	0	721	3247	2549	721	J-55	45.5	BUTT	12.8 7	4.72	DRY	8	DRY	7.83
	INTERMED IATE	9.87 5	8.625	NEW	NON API	N	0	2921	0	2921	3247	349	2921	P- 110	90.0000	OTHER - MO-FXL	5.75	2.52	DRY	4.08	DRY	5.91
	PRODUCTI ON	7.87 5	5.5		NON API	N	0	14053	0	8910	3247	-5640	14053	P- 110		OTHER - GeoConn	2.4	2.5	DRY	2.3	DRY	2.3

### **Casing Attachments**

Received by OCD: 6/25/2025 1:01:10 PM

Released to Imaging: 7/29/2025 1:35:19 PM

**Operator Name: PERMIAN RESOURCES OPERATING LLC** 

Well Name: FOSTERS 16 FED COM Well Number: 200H

**Casing Attachments** 

Casing ID: 1

String

**SURFACE** 

Inspection Document:

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Fosters\_16\_Fed\_Com\_200H\_csg\_20240626092433.pdf

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Fosters\_16\_Fed\_Com\_200H\_csg\_20240626092418.pdf

Casing ID: 3

String 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\_200H\_csg\_20240626092426.pdf

Well Name: FOSTERS 16 FED COM Well Number: 200H

### **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\_200H\_csg\_20240626092444.pdf

# **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	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	0	570	90	1.88	12.9	160	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	570	721	40	1.34	14.8	50	50	Class C	Retarder
INTERMEDIATE	Lead	0	2330	220	1.88	12.9	410	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	2330	2921	80	1.33	14.8	100	25	Class C	Salt
PRODUCTION	Lead	2921	8553	600	2.41	11.5	1430	40	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail	8553	1405 3	1360	1.73	12.5	2350	25	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
										Retaluel
										Page 4 of 7

Well Name: FOSTERS 16 FED COM Well Number: 200H

# 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							

Well Name: FOSTERS 16 FED COM Well Number: 200H

## 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: 4640** 

**Anticipated Surface Pressure: 2679** 

Anticipated Bottom Hole Temperature(F): 146

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\_200H\_H2S\_Diagram\_20240524092130.pdf Foster\_16\_Fed\_Com\_200H\_H2S\_Plan\_20240524092228.pdf

### Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fosters\_16\_Fed\_Com\_200H\_DD\_20240524085415.pdf

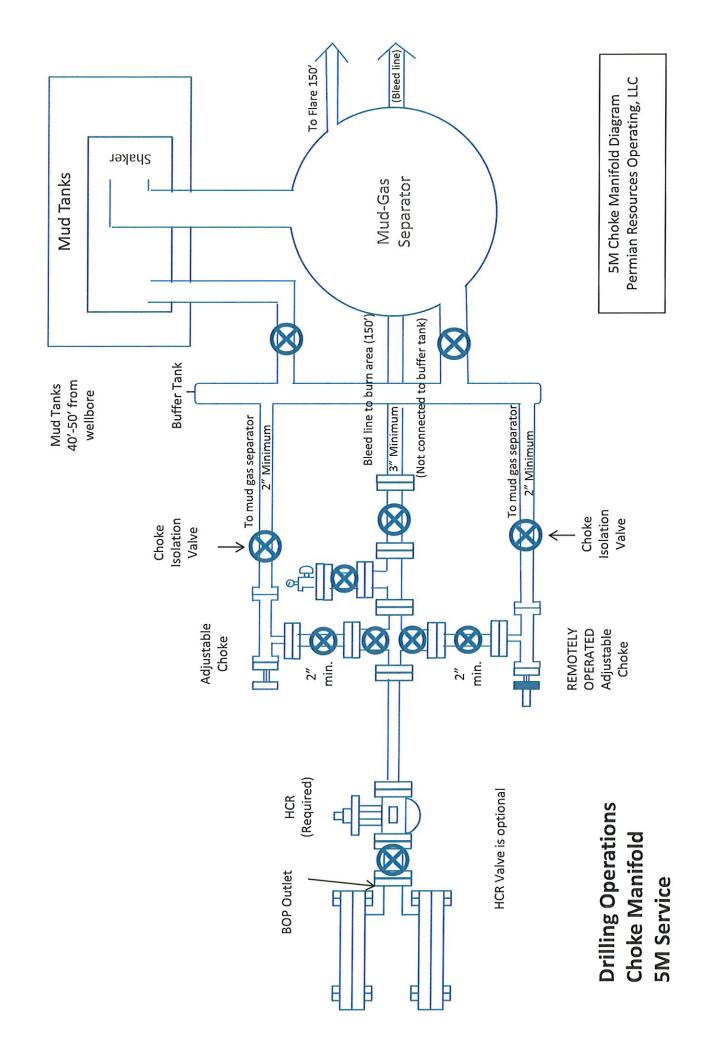
Other proposed operations facets description:

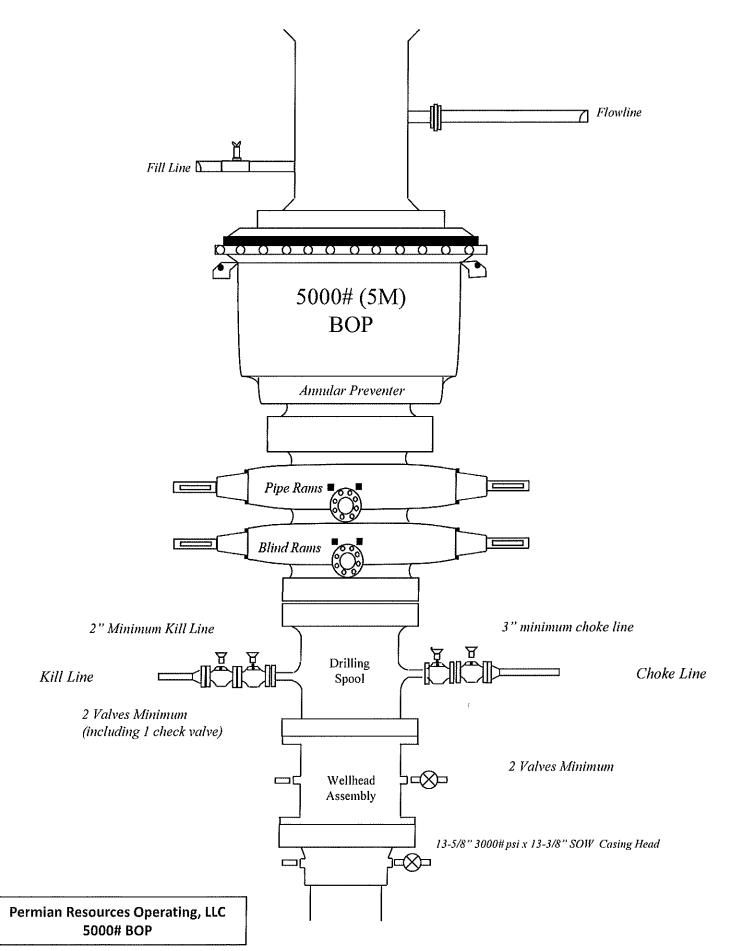
Other proposed operations facets attachment:

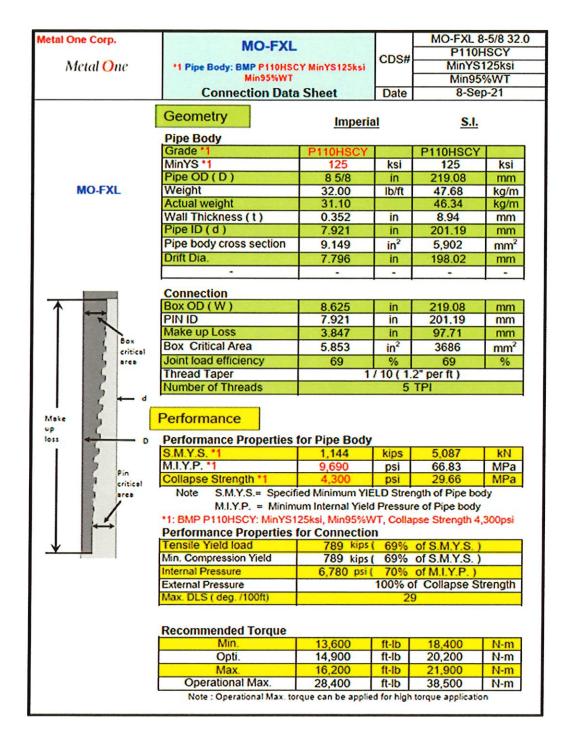
Esky\_Fosters\_Fed\_NGMP\_WC\_with\_Decline\_Curves\_20240626092523.pdf

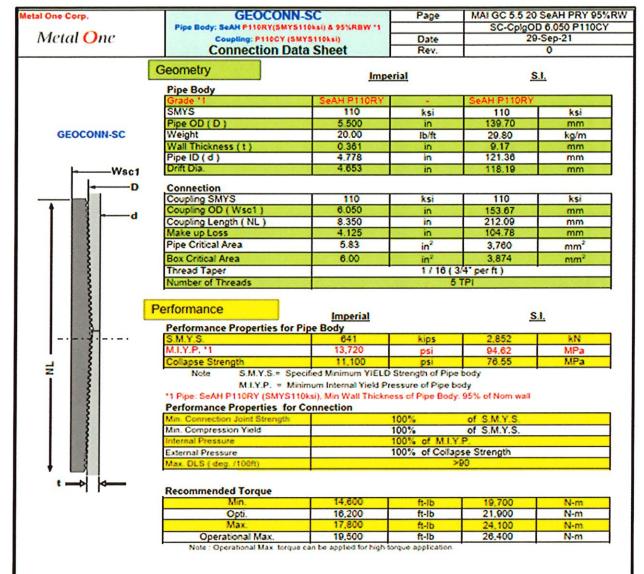
WOther Variance attachment:

Esky\_Fosters\_Fed\_
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Esky\_Fosters\_Fed\_ Esky Fosters Fed Batch 20240507124635.pdf Esky\_Fosters\_Fed\_Break\_20240507124643.pdf Esky Fosters Fed\_FH\_20240507124651.pdf Esky\_Fosters\_Fed\_MBS\_20240507124701.pdf Esky Fosters Fed OLCV 20240507124711.pdf









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bdements regarding the subshilty of products for certain types of applicatures are based on Metal Chaira browledge of bysical requirements that are other placed on Metal Chaira products in standard well configuratoris such adaptements are not binding statements about the availability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product peoficiation is available for use in a particular application.

The products described in this Connection Data Sheet are not recommended for use in deep value of shore applications. For more information, please rate to Mits these rates continued by reference into the Connection Data Sheet.

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String	Hale Size	Casing Size	Top	Bottom	Top TVD	Bottom TVD	ųæu	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
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 H5	32	MO-FXL	5.75	2.52	Dry	4.08	Dry	5.91
Production	7.875	5.5	0	9303	0	8910	9303	P110RY	20	GeoConn	2.40	2.50	Dry	2.30	Dry	2.30
Production	7.875	5.5	9303	14053	8910	8910	4750	P110RY	20	GeoConn	2.40	2.50	Dry	2.30	Dry	2.30
	7.77							BLM Mi	n Safe	ty 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.

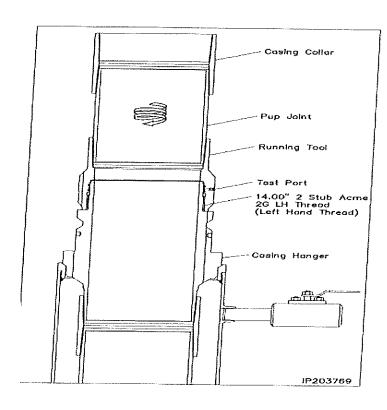
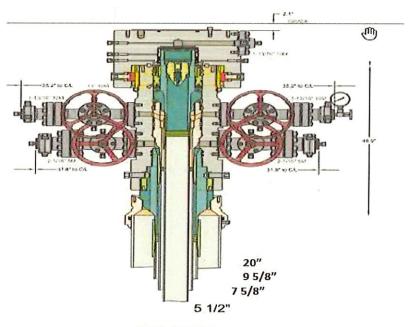


Illustration 1-1

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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.
- 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

<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.

# 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.

API STANDARD 53

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

	Pressure Test—Low	Pressure Test-	-High Pressure **		
Component to be Pressure Tested	Pressure** psig (MPa)	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 <sup>36</sup>	250 to 350 (1.72 to 2.41)	RWP of rum 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	ПЪ		
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	ASP for the well program,		
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program			

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

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

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

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 driking 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.

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.

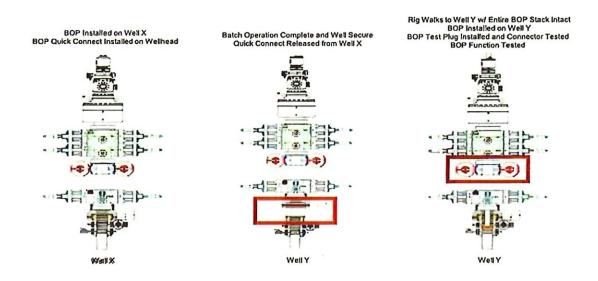
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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.

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



### Summary

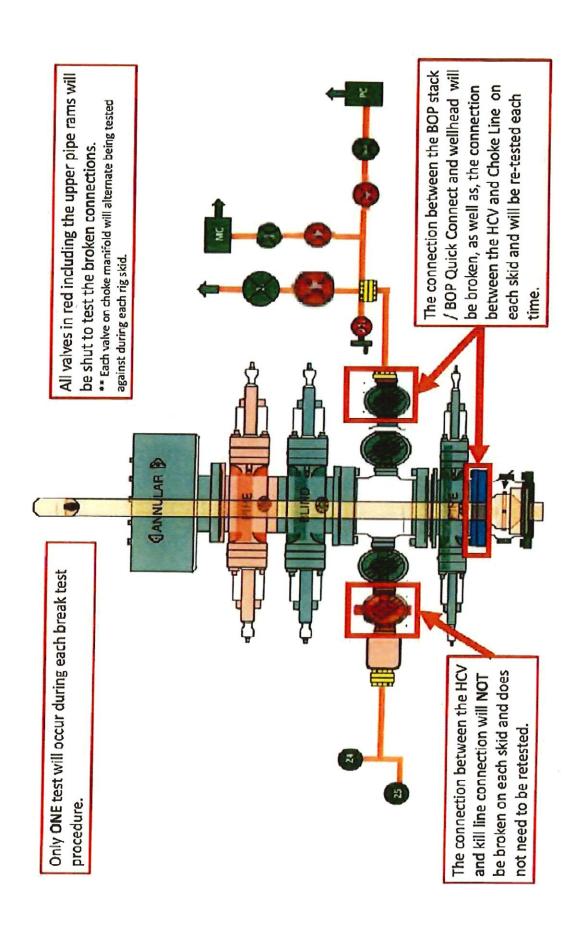
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required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





CONTITECH RUBBER Industrial Kft.

No:QC-DB- 210/ 2014 Page: 9 / 113

QUALITY CONTROL
INSPECTION AND TEST CERTIFICATE

PURCHASER ContiTech Oil & Marine Corp.

CONTITECH INJUSTICATION OF STATE 3' ID Choke and Kill Hose

HOSE SERIAL Nº 67255 NOMINAL / ACTUAL LENGTH: 10,67 m / 10,77 m

W.P. 68,9 MPa 10000 tol T.P. 103,4 MPa 15000 ps Duralice: 60 min

Pressure test with water at emblent temperature

See attachment. (1 page)

10 mm = 10 Mm

COUPLINGS Type	Seri	al Nº	Quelty	Heat Nº
3* coupling with	9251	9254	AISI 4130	A0579N
4 1/16" 10K API b.w. Flange end	Contraction of the Contraction o		Al5I 4130	035608

### Not Designed For Well Testing

API Spec 16 C

Temperature rate:"B"

All metál parta era flówiess

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY. We hereby certify that the above demolequipment supplied by us are in conformity with the jerms, conditions and specifications of the above Purchaser Order and that these femiliequipment were labitizated inspecied and tested in accordance with the inferenced standards, codes and specifications and meet the relevant acceptance orders and design requirements.

### COUNTRY OF ORIGIN HUNGARVIEU

20. March 2014. Inspector Quality Corwor Indiana Inc. (All Inc.) (

Confess, makes training the plane and the large brings of the first but and the begin product.

Once were the service and plane of the Set of the east intelligence content and training product of contents and the contents of the service of the se

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE	No: 301, 504, 503
	Page: 1/1

altra Steps
1 23 0 2 10 5 200
112711
the state of the s
199   100   100



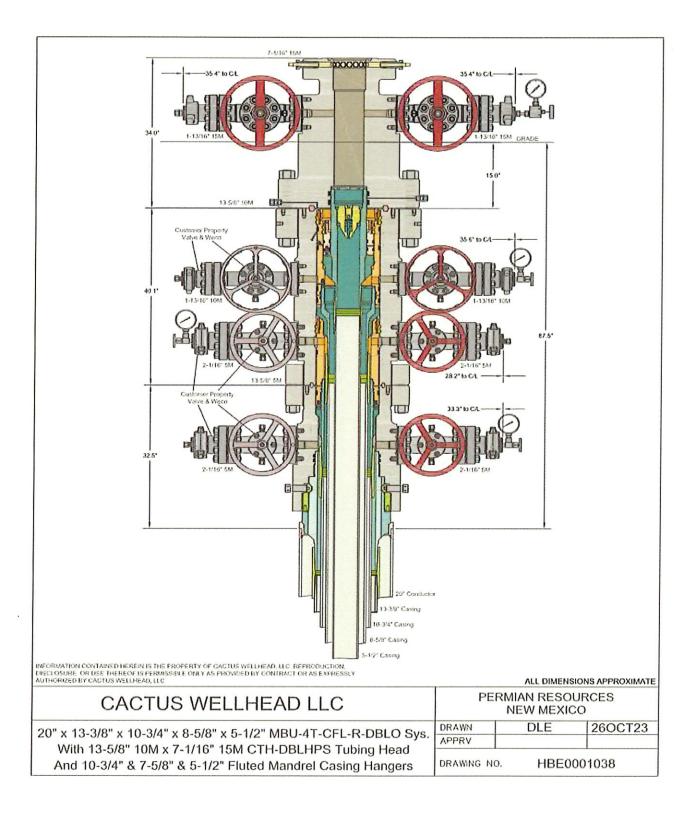
CONTITECH RUBBER Industrial Kfl

No:QC-DB- 210/ 2014 15/113

Paga: Contitoch

### Hose Data Sheet

CRI Order No.	538236
Cassomer	Cantillech Oi & Marine Corp.
Customer Order No	4500409650
llem No.	]
Нозе Туре	Figuible Hose
Standard	API SPEC 16 C
inside dia in arches	1
Lengin	35 ft:
Type of coupling one and	FLANGE 4 1/16* 18K API SPEC BA TYPE 6BX FLANGE CAV HX156 R.GR SCOR
Type of coopsing other end	PLANGE 4.1/16* 10K API SPEC 6A TYPE 6BX FLANGE CAV BX156 R.GR SOUR
R2S service NACE MR0175	Y65
Warking Pressure	10 000 psi
Design Prossure	10 000 ps:
Tost Pressure	15 900 psi
Sufery Factor	2.24
Marking	USUAL PROENIX
Cover	NOT FIRE RESISTANT
Oxits de protection	Stated coor wap
Internal stripectric tube	Ho
Leig	OIL + GAS RESISTANT SOUR
Safety clamp	ND
Liffing collar	No
Element C	ND
Sefety chain	Ata
Safety wire rope	Na
Mex.design temperature [10]	100
Min design temparakura [°C]	**************************************
Min Band Recius operating [m]	0,90
Min. Bend Rudius storago (m)	0,00
Sectrical continuity	Trin Hose is electrically contributes
Type of pucking	WOODEN CHATE ISPM-15

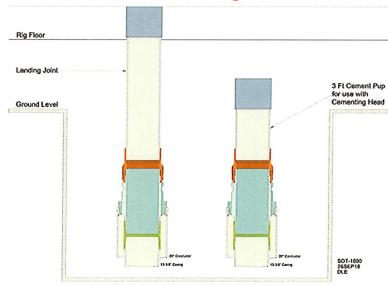


### **Permian Resources Offline Cementing Procedure Surface & Intermediate Casing**

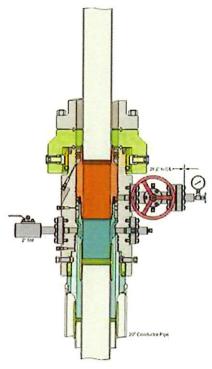
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple 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

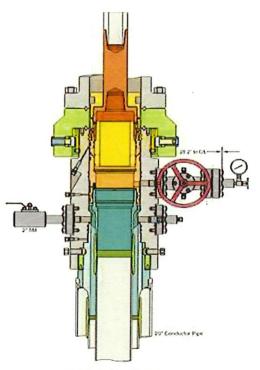
### CFL Off-Line Cementing Tool



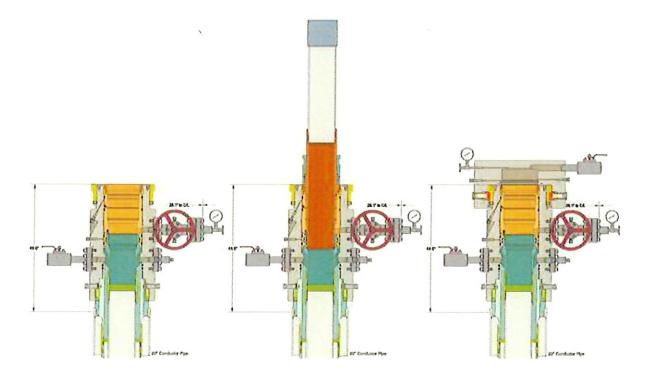
### Intermediate



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



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** Permian Resources Operating LLC

WELL NAME & NO.: Fosters 16 Fed Com 200H

LOCATION: Sec 16-20S-28E-NMP

COUNTY: Eddy County, New Mexico

COA

H <sub>2</sub> S	~	No	Œ	Yes
Potash / WIPP	• None	C Secretary	⊂ R-111-Q	「Open Annulus 「WIPP
Cave / Karst	← Low	С Medium	<ul><li>High</li></ul>	Critical
Wellhead	<ul> <li>Conventional</li> </ul>	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	C Waste Min. Plan	• APD Submitted pr	rior to 06/10/2024
Additional	▼ Flex Hose	Casing Clearance	Pilot Hole	✓ Break Testing
Language	▼ Four-String	Offline Cementing	Fluid-Filled	

### 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 casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, 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.

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• If in the event break testing is not utilized, then a full BOPE test would be conducted.

### **Offline Cementing**

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

### **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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: 6/25/2025 1:01:10 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

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

### B. PRESSURE CONTROL

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

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

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

### C. DRILLING MUD

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

### D. WASTE MATERIAL AND FLUIDS

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

## **NEW MEXICO**

(SP) EDDY ESKY FOSTER PROJECT FOSTERS 16 FED COM 200H

**OWB** 

Plan: PWP0

# **Standard Planning Report - Geographic**

16 April, 2024

### Permian Resources

### Planning Report - Geographic

Database: Compass **NEW MEXICO** Company: Project: (SP) EDDY Site: **ESKY FOSTER PROJECT** Well:

FOSTERS 16 FED COM 200H

Wellbore: **OWB** PWP0 Design:

Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well FOSTERS 16 FED COM 200H

KB @ 3300.0usft KB @ 3300.0usft

Grid

Minimum Curvature

(SP) EDDY Project

Map System: Geo Datum: Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

**ESKY FOSTER PROJECT** Site

Site Position: From:

Northing: Easting:

571,756.04 usft 585,298.07 usft

Latitude: Longitude: 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 200H

+N/-S

+E/-W

**Well Position** 

0.0 usft 0.0 usft Northing: Easting:

573,946.56 usft 584,609.66 usfl

Latitude: Longitude:

32° 34' 39.918 N 104° 11' 34.269 W

**Position Uncertainty** 

0.0 usft 0.08°

Wellhead Elevation:

usft

**Ground Level:** 

3,270.0 usft

**Grid Convergence:** 

Wellbore **OWB** 

**Model Name** Magnetics

PWP0

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

8.06 60.46 48,937.57842451 IGRF200510 12/31/2009

Design

**Audit Notes:** 

Version:

Phase:

**PROTOTYPE** 

Tie On Depth:

0.0

+E/-W Direction Depth From (TVD) +N/-S **Vertical Section:** (usft) (usft) (usft) (°) 81.97 0.0 0.0 0.0

**Plan Survey Tool Program** 

Date 4/12/2024

**Depth From Depth To** (usft) (usft)

Survey (Wellbore)

**Tool Name** 

Remarks

1

0.0 14,053.1 PWP0 (OWB) MWD

OWSG\_Rev2\_ MWD - Star

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,750.0	15.00	36.66	2,741.5	78.3	58.3	2.00	2.00	0.00	36.66	
5,792.2	15.00	36.66	5,680.0	709.9	528.4	0.00	0.00	0.00	0.00	
6,542.2	0.00	0.00	6,421.4	788.2	586.7	2.00	-2.00	0.00	180.00	
8,553.2	0.00	0.00	8,432.5	788.2	586.7	0.00	0.00	0.00	0.00	
9,303.2	90.00	89.65	8,910.0	791.1	1,064.2	12.00	12.00	11.95	89.65	
14,053.1	90.00	89.65	8,910.0	820.3	5,813.9	0.00	0.00	0.00	0.00	<b>BHL-FOSTERS 1</b>

Received by OCD: 6/25/2025 1:01:10 PM

### **Permian Resources**

### Planning Report - Geographic

Database: Company: Project:

Site:

Compass NEW MEXICO

(SP) EDDY

**ESKY FOSTER PROJECT** 

Well: Wellbore: Design:

FOSTERS 16 FED COM 200H

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

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well FOSTERS 16 FED COM 200H

KB @ 3300.0usft KB @ 3300.0usft

Grid

Minimum Curvature

anned Surv	еу								
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	573,946.56	584,609.66	32° 34' 39.918 N	104° 11' 34.269
100.0	0.00	0.00	100.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
200.0	0.00	0.00	200.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
300.0	0.00	0.00	300.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
400.0	0.00	0.00	400.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
500.0	0.00	0.00	500.0	0.0	0.0	573,946.56	584,609.66	32° 34' 39.918 N	104° 11' 34.269
600.0	0.00	0.00	600.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
700.0		0.00	700.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
800.0		0.00	0.008	0.0	0.0	573,946.56	584,609.66	32° 34' 39.918 N	104° 11' 34.269
900.0		0.00	900.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,000.0	0.00	0.00	1,000.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,100.0		0.00	1,100.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,200.0		0.00	1,200.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,300.0	0.00	0.00	1,300.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,400.0		0.00	1,400.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,500.0		0.00	1,500.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,600.0		0.00	1,600.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,700.0		0.00	1,700.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,800.0		0.00	1,800.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
1,900.0		0.00	1,900.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
2,000.0	0.00	0.00	2,000.0	0.0	0.0	573,946.56	584,609.66	32° 34′ 39.918 N	104° 11' 34.269
Start B	uild 2.00								
2,100.0	2.00	36.66	2,100.0	1.4	1.0	573,947.96	584,610.71	32° 34' 39.932 N	104° 11' 34.256
2,200.0		36.66	2,199.8	5.6	4.2	573,952.16	584,613.83	32° 34' 39.974 N	104° 11' 34.220
2,300.0		36.66	2,299.5	12.6	9.4	573,959.15	584,619.03	32° 34' 40.043 N	104° 11' 34.159
2,400.0		36.66	2,398.7	22.4	16.6	573,968.93	584,626.31	32° 34' 40.139 N	104° 11' 34.074
2,500.0		36.66	2,497.5	34.9	26.0	573,981.47	584,635.65	32° 34' 40.263 N	104° 11' 33.964
2,600.0		36.66	2,595.6	50.2	37.4	573,996.78	584,647.04	32° 34' 40.415 N	104° 11' 33.831
2,700.0		36.66	2,693.1	68.3	50.8	574,014.82	584,660.48	32° 34' 40.593 N	104° 11' 33.674
2,750.0	15.00	36.66	2,741.5	78.3	58.3	574,024.87	584,667.95	32° 34′ 40.692 N	104° 11' 33.586
	142.2 hold at					574 005 05	504.075.00	000 041 40 705 N	40.49.441.00.400
2,800.0	15.00	36.66	2,789.8	88.7	66.0	574,035.25	584,675.68	32° 34′ 40.795 N	104° 11' 33.496
2,900.0		36.66	2,886.4	109.4	81.5	574,056.01	584,691.13	32° 34' 41.000 N	104° 11' 33.315
3,000.0		36.66	2,982.9	130.2	96.9	574,076.77	584,706.59	32° 34' 41.205 N	104° 11' 33.134
3,100.0		36.66	3,079.5	151.0	112.4	574,097.53	584,722.04	32° 34' 41.411 N	104° 11' 32.953
3,200.0	15.00	36.66	3,176.1	171.7	127.8	574,118.29	584,737.49	32° 34' 41.616 N	104° 11' 32.772 104° 11' 32.59
3,300.0	15.00	36.66	3,272.7	192.5	143.3	574,139.05	584,752.95	32° 34' 41.821 N	
3,400.0	15.00	36.66	3,369.3	213.3	158.7	574,159.81	584,768.40	32° 34' 42.026 N	104° 11' 32.410
3,500.0	15.00	36.66	3,465.9	234.0	174.2	574,180.58	584,783.86	32° 34' 42.232 N	104° 11' 32.229
3,600.0	15.00	36.66	3,562.5	254.8	189.6	574,201.34	584,799.31	32° 34' 42.437 N 32° 34' 42.642 N	104° 11' 32.048 104° 11' 31.867
3,700.0	15.00	36.66	3,659.1	275.5	205.1	574,222.10	584,814.77	32° 34' 42.847 N	104° 11' 31.686
3,800.0	15.00	36.66	3,755.7	296.3	220.6	574,242.86	584,830.22	32° 34' 43.053 N	104° 11' 31.505
3,900.0	15.00	36.66	3,852.3	317.1	236.0	574,263.62 574,284.38	584,845.68 584,861.13	32° 34' 43.258 N	104 11 31.303
4,000.0	15.00	36.66	3,948.9	337.8	251.5				104° 11' 31.143
4,100.0	15.00	36.66	4,045.5	358.6	266.9	574,305.14	584,876.58 584,892.04	32° 34' 43.463 N 32° 34' 43.668 N	104° 11' 30.962
4,200.0	15.00	36.66	4,142.1	379.3	282.4	574,325.91			104° 11' 30.782
4,300.0	15.00	36.66	4,238.6	400.1	297.8	574,346.67	584,907.49	32° 34' 43.874 N	104° 11' 30.762
4,400.0	15.00	36.66	4,335.2	420.9	313.3	574,367.43	584,922.95	32° 34' 44.079 N 32° 34' 44.284 N	104° 11' 30.420
4,500.0	15.00	36.66	4,431.8	441.6	328.7	574,388.19	584,938.40	32° 34' 44.489 N	104° 11' 30.420
4,600.0	15.00	36.66	4,528.4	462.4	344.2	574,408.95	584,953.86	32° 34′ 44.489 N	104° 11' 30.238
4,700.0	15.00	36.66	4,625.0	483.2	359.6	574,429.71	584,969.31		104° 11' 29.877
4,800.0	15.00	36.66	4,721.6	503.9	375.1	574,450.47	584,984.76	32° 34' 44.900 N	104 11 29.677 104° 11' 29.696
4,900.0	15.00	36.66	4,818.2	524.7	390.6	574,471.24	585,000.22 585,015.67	32° 34' 45.105 N 32° 34' 45.310 N	104° 11' 29.595
5,000.0	15.00	36.66	4,914.8	545.4	406.0	574,492.00	70.010,000	JZ J4 40,3 IU N	104 11 29,010

### **Permian Resources**

Planning Report - Geographic

Database: Company:

Compass NEW MEXICO (SP) EDDY

Project: Site:

**ESKY FOSTER PROJECT** 

Well: Wellbore: FOSTERS 16 FED COM 200H

**OWB** PWP0 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well FOSTERS 16 FED COM 200H

KB @ 3300.0usft KB @ 3300.0usft

Grid

Minimum Curvature

(usft)  5,100.0  5,200.0  5,300.0  5,400.0  5,500.0  5,515.0  NMNM 017  5,600.0  5,792.2  Start Drop  5,800.0  6,000.0  6,100.0  6,200.0  6,300.0	15.00 15.00 15.00 15.00 14.84 12.84 10.84 8.84 6.84 4.84	(°)  36.66 36.66 36.66 36.66 36.66 36.66 36.66 36.66 36.66 36.66 36.66 36.66	Vertical Depth (usft)  5,011.4 5,108.0 5,204.6 5,301.2 5,397.8 5,412.2  D  5,494.4 5,590.9 5,680.0  5,687.5 5,784.6 5,882.5	+N/-S (usft)  566.2 587.0 607.7 628.5 649.2 652.4  670.0 690.8 709.9  711.5 730.7	+E/-W (usft)  421.5 436.9 452.4 467.8 483.3 485.6  498.7 514.2 528.4	Map Northing (usft) 574,512.76 574,533.52 574,554.28 574,575.04 574,595.80 574,598.92 574,616.57 574,637.33 574,656.46	Map Easting (usft) 585,031.13 585,046.58 585,062.04 585,077.49 585,092.95 585,095.26 585,108.40 585,123.85 585,138.10	Latitude  32° 34' 45.516 N 32° 34' 45.721 N 32° 34' 45.926 N 32° 34' 46.131 N 32° 34' 46.337 N 32° 34' 46.367 N  32° 34' 46.542 N 32° 34' 46.747 N 32° 34' 46.936 N	Longitude  104° 11' 29.334 V 104° 11' 29.153 V 104° 11' 28.791 V 104° 11' 28.610 V 104° 11' 28.429 V 104° 11' 28.248 V 104° 11' 28.288 V
5,200.0 5,300.0 5,400.0 5,500.0 5,515.0 NMNM 017 5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 15.00 15.00 15.00 7220 Exit 15.00 15.00 15.00 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66 36.66 at 5515.0 M 36.66 36.66 36.66 36.66 36.66 36.66	5,108.0 5,204.6 5,301.2 5,397.8 5,412.2 D 5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	587.0 607.7 628.5 649.2 652.4 670.0 690.8 709.9	436.9 452.4 467.8 483.3 485.6 498.7 514.2 528.4	574,533.52 574,554.28 574,575.04 574,595.80 574,598.92 574,616.57 574,637.33	585,046.58 585,062.04 585,077.49 585,092.95 585,095.26 585,108.40 585,123.85	32° 34' 45.721 N 32° 34' 45.926 N 32° 34' 46.131 N 32° 34' 46.337 N 32° 34' 46.367 N 32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 29.153 V 104° 11' 28.972 V 104° 11' 28.791 V 104° 11' 28.610 V 104° 11' 28.583 V 104° 11' 28.429 V 104° 11' 28.248 V
5,300.0 5,400.0 5,500.0 5,515.0 NMNM 017 5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 15.00 15.00 7220 Exit 15.00 15.00 15.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66 at <b>5515.0 M</b> 36.66 36.66 36.66 36.66 36.66 36.66	5,204.6 5,301.2 5,397.8 5,412.2 D 5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	607.7 628.5 649.2 652.4 670.0 690.8 709.9	452.4 467.8 483.3 485.6 498.7 514.2 528.4	574,554.28 574,575.04 574,595.80 574,598.92 574,616.57 574,637.33	585,062.04 585,077.49 585,092.95 585,095.26 585,108.40 585,123.85	32° 34' 45.926 N 32° 34' 46.131 N 32° 34' 46.337 N 32° 34' 46.367 N 32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 28.972 V 104° 11' 28.791 V 104° 11' 28.610 V 104° 11' 28.583 V 104° 11' 28.429 V 104° 11' 28.248 V
5,400.0 5,500.0 5,515.0 NMNM 017 5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 15.00 7220 Exit 15.00 15.00 15.00 14.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 at <b>5515.0 M</b> 36.66 36.66 36.66 36.66 36.66 36.66	5,301.2 5,397.8 5,412.2 D 5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	628.5 649.2 652.4 670.0 690.8 709.9	467.8 483.3 485.6 498.7 514.2 528.4	574,575.04 574,595.80 574,598.92 574,616.57 574,637.33	585,077.49 585,092.95 585,095.26 585,108.40 585,123.85	32° 34' 46.131 N 32° 34' 46.337 N 32° 34' 46.367 N 32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 28.791 V 104° 11' 28.610 V 104° 11' 28.583 V 104° 11' 28.429 V 104° 11' 28.248 V
5,500.0 5,515.0 NMNM 017 5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 7220 Exit 15.00 15.00 15.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 at <b>5515.0 M</b> 36.66 36.66 36.66 36.66 36.66 36.66	5,397.8 5,412.2 D 5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	649.2 652.4 670.0 690.8 709.9	483.3 485.6 498.7 514.2 528.4	574,595.80 574,598.92 574,616.57 574,637.33	585,092.95 585,095.26 585,108.40 585,123.85	32° 34' 46.337 N 32° 34' 46.367 N 32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 28.610 V 104° 11' 28.583 V 104° 11' 28.429 V 104° 11' 28.248 V
5,515.0  NMNM 017 5,600.0 5,700.0 5,792.2  Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 7220 Exit 15.00 15.00 15.00 1-2.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 at 5515.0 M 36.66 36.66 36.66 36.66 36.66 36.66 36.66	5,412.2 D 5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	652.4 670.0 690.8 709.9	485.6 498.7 514.2 528.4	574,598.92 574,616.57 574,637.33	585,095.26 585,108.40 585,123.85	32° 34' 46.367 N 32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 28.583 V 104° 11' 28.429 V 104° 11' 28.248 V
NMNM 017 5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	7220 Exit 15.00 15.00 15.00 15.00 14.84 12.84 10.84 8.84 6.84 4.84	at 5515.0 M 36.66 36.66 36.66 36.66 36.66 36.66 36.66	5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	670.0 690.8 709.9	498.7 514.2 528.4	574,616.57 574,637.33	585,108.40 585,123.85	32° 34' 46.542 N 32° 34' 46.747 N	104° 11' 28.429 V 104° 11' 28.248 V
5,600.0 5,700.0 5,792.2 Start Drop 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 15.00 15.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66 36.66 36.66	5,494.4 5,590.9 5,680.0 5,687.5 5,784.6	690.8 709.9 711.5	514.2 528.4	574,637.33	585,123.85	32° 34' 46.747 N	104° 11' 28.248 V
5,700.0 5,792.2 <b>Start Drop</b> 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 15.00 p -2.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66 36.66	5,590.9 5,680.0 5,687.5 5,784.6	690.8 709.9 711.5	514.2 528.4	574,637.33	585,123.85	32° 34' 46.747 N	104° 11' 28.248 V
5,792.2 Start Drop 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0	15.00 p -2.00 14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66	5,680.0 5,687.5 5,784.6	709.9 711.5	528.4				
Start Drop 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0	14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66 36.66 36.66	5,687.5 5,784.6	711.5		574,656.46	585,138.10	32° 34′ 46.936 N	104° 11' 28.082 V
5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0	14.84 12.84 10.84 8.84 6.84 4.84	36.66 36.66	5,784.6		529 6				
5,900.0 6,000.0 6,100.0 6,200.0 6,300.0	12.84 10.84 8.84 6.84 4.84	36.66 36.66	5,784.6		529 6				
6,000.0 6,100.0 6,200.0 6,300.0	10.84 8.84 6.84 4.84	36.66 36.66		730.7		574,658.08	585,139.30	32° 34′ 46.952 N	104° 11' 28.067 V
6,100.0 6,200.0 6,300.0	8.84 6.84 4.84	36.66	5,882.5		543.9	574,677.27	585,153.59	32° 34′ 47.142 N	104° 11' 27.900 V
6,200.0 6,300.0	6.84 4.84			747.2	556.2	574,693.73	585,165.84	32° 34′ 47.305 N	104° 11' 27.757 \
6,300.0	4.84	20.00	5,981.0	760.9	566.4	574,707.45	585,176.05	32° 34' 47.440 N	104° 11' 27.637 '
		36.66	6,080.1	771.8	574.5	574,718.39	585,184.20	32° 34′ 47.548 N	104° 11' 27.542 \
	004	36.66	6,179.6	780.0	580.6	574,726.56	585,190.28	32° 34′ 47.629 N	104° 11' 27.471 \
6,400.0	2.84	36.66	6,279.3	785.4	584.6	574,731.93	585,194.28	32° 34′ 47.682 N	104° 11' 27.424 \
6,500.0	0.84	36.66	6,379.3	788.0	586.5	574,734.51	585,196.20	32° 34' 47.708 N	104° 11' 27.401 \
6,542.2	0.00	0.00	6,421.4	788.2	586.7	574,734.76	585,196.38	32° 34′ 47.710 N	104° 11' 27.399 \
Start 2011.	.1 hold at	6542.2 MD							
6,600.0	0.00	0.00	6,479.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
6,700.0	0.00	0.00	6,579.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
6,800.0	0.00	0.00	6,679.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
6,900.0	0.00	0.00	6,779.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 \
7,000.0	0.00	0.00	6,879.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 \
7,100.0	0.00	0.00	6,979.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 \
7,200.0	0.00	0.00	7,079.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
7,300.0	0.00	0.00	7,179.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
7,400.0	0.00	0.00	7,279.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
7,500.0	0.00	0.00	7,379.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 \
7,600.0	0.00	0.00	7,479.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
7,700.0	0.00	0.00	7,579.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 \
7,800.0	0.00	0.00	7,679.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
7,900.0	0.00	0.00	7,779.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399
8,000.0	0.00	0.00	7,879.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
8,100.0	0.00	0.00	7,979.3	788.2	586.7	574,734.76	585,196.38 585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
8,200.0	0.00	0.00	8,079.3	788.2	586.7	574,734.76		32° 34' 47.710 N	104° 11' 27.399
8,300.0	0.00	0.00	8,179.3	788.2	586.7	574,734.76	585,196.38 585,196.38	32° 34' 47.710 N 32° 34' 47.710 N	104° 11' 27.399 \
8,400.0	0.00	0.00	8,279.3	788.2	586.7	574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399 '
8,500.0	0.00	0.00	8,379.3	788.2 788.2	586.7 586.7	574,734.76 574,734.76	585,196.38	32° 34' 47.710 N	104° 11' 27.399
8,553.2			8,432.5	700.2	300.7	374,734.70	303, 180.30	32 34 47.7 TO N	104 11 27.555
Start DLS		89.65	8,454.3	788.2	587.2	574,734.77	585,196.88	32° 34' 47.710 N	104° 11' 27.393 '
8,575.0 8,600.0	2.61 5.61	89.65	8,454.3 8,479.2	788.2	589.0	574,734.77	585,198.67	32° 34' 47.710 N	104° 11' 27.372 '
8,625.0	8.61	89.65	8,504.0	788.2	592.1	574,734.80	585,201.77	32° 34' 47.710 N	104° 11' 27.336 \
8,650.0	11.61	89.65	8,528.6	788.3	596.5	574,734.82	585,206.15	32° 34' 47.711 N	104° 11' 27.285 \
8,675.0	14.61	89.65	8,552.9	788.3	602.2	574,734.86	585,211.83	32° 34' 47.711 N	104° 11' 27.219 \
8,700.0	17.61	89.65	8,577.0	788.3	609.1	574,734.90	585,218.76	32° 34' 47.711 N	104° 11' 27.138 '
8,725.0	20.61	89.65	8,600.6	788.4	617.3	574,734.95	585,226.95	32° 34' 47.712 N	104° 11' 27.042
8,750.0	23.61	89.65	8,623.7	788.4	626.7	574,735.01	585,236.36	32° 34' 47.712 N	104° 11' 26.932
8,775.0	26.61	89.65	8,646.4	788.5	637.3	574,735.07	585,246.96	32° 34' 47.713 N	104° 11' 26.808 \
8,800.0	29.61	89.65	8,668.4	788.6	649.1	574,735.15	585,258.74	32° 34' 47.713 N	104° 11' 26.670 \
8,825.0	32.61	89.65	8,689.8	788.7	662.0	574,735.22	585,271.66	32° 34' 47.714 N	104° 11' 26.519 \

Database: Company:

### Compass NEW MEXICO Project: (SP) EDDY **ESKY FOSTER PROJECT** Site: FOSTERS 16 FED COM 200H Well: Wellbore: **OWB** PWP0 Design:

**Permian Resources** Planning Report - Geographic

> Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

**Survey Calculation Method:** 

Well FOSTERS 16 FED COM 200H

Released to Imaging: 7/29/2025 1:35:19 PM

KB @ 3300.0usft KB @ 3300.0usft

Grid

Minimum Curvature

Planned Surv	ey								
Measured			Vertical			Мар	Мар		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
8,850.0	35.61	89.65	8,710.5	788.7	676.0	574,735.31	585,285.68	32° 34' 47.714 N	104° 11' 26.355 W
8,875.0		89.65	8,730.5	788.8	691.1	574,735.40	585,300.76	32° 34′ 47.715 N	104° 11' 26.179 W
8,900.0		89.65	8,749.6	788.9	707.2	574,735.50	585,316.86	32° 34′ 47.716 N	104° 11' 25.991 W
8,925.0		89.65	8,767.8	789.0	724.3	574,735.61	585,333.95	32° 34' 47.717 N	104° 11' 25.791 W
8,950.0		89.65	8,785.2	789.2	742.3	574,735.72	585,351.96	32° 34' 47.718 N	104° 11' 25.581 W
8,975.0		89.65	8,801.5	789.3	761.2	574,735.83	585,370.86	32° 34' 47.718 N	104° 11' 25.360 W
9,000.0		89.65	8,816.9	789.4	780.9	574,735.95	585,390.59	32° 34' 47.719 N	104° 11' 25.129 W
9,025.0		89.65	8,831.2	789.5	801.4	574,736.08	585,411.09	32° 34' 47.720 N	104° 11' 24.890 W
9,050.0		89.65	8,844.4	789.6	822.7	574,736.21	585,432.31	32° 34' 47.721 N	104° 11' 24.642 W
9,075.0		89.65	8,856.4	789.8	844.5	574,736.34	585,454.20	32° 34' 47.722 N	104° 11' 24.386 W
9,100.0		89.65	8,867.4	789.9	867.0	574,736.48	585,476.69	32° 34' 47.724 N	104° 11' 24.123 W
9,125.0		89.65	8,877.1	790.1	890.1	574,736.62	585,499.72	32° 34' 47.725 N	104° 11' 23.854 W
9,150.0		89.65	8,885.6	790.2	913.6	574,736.77	585,523.22	32° 34' 47.726 N	104° 11' 23.579 W 104° 11' 23.300 W
9,175.0		89.65	8,892.8	790.4	937.5	574,736.91 574,737.06	585,547.14 585,571.41	32° 34' 47.727 N 32° 34' 47.728 N	104° 11' 23.016 W
9,200.0		89.65	8,898.8	790.5	961.7			32° 34' 47.729 N	104° 11' 22.729 W
9,225.0		89.65	8,903.6	790.7 790.8	986.3	574,737.21 574,737.37	585,595.95 585,620.72	32° 34' 47.730 N	104° 11' 22.440 W
9,250.0		89.65 89.65	8,907.0	790.8	1,011.1 1,036.0	574,737.52	585,645.62	32° 34' 47.732 N	104° 11' 22.149 W
9,275.0		89.65	8,909.1 8,910.0	791.0	1,060.9	574,737.67	585,670.60	32° 34' 47.733 N	104° 11' 21.857 W
9,300.0 9,303.2		89.65	8,910.0	791.1	1,064.2	574,737.69	585,673.84	32° 34' 47.733 N	104° 11' 21.819 W
0.000				791.1	1,004.2	374,737.09	303,073.04	32 34 47.733 N	104 11 21.010 11
	749.8 hold at 90.00	89.65	8,910.0	791.7	1,160.9	574,738.29	585,770.60	32° 34' 47.737 N	104° 11' 20.688 W
9,400.0 9,500.0		89.65	8,910.0	792.3	1,160.9	574,738.90	585,870.60	32° 34' 47.742 N	104° 11' 19.519 W
9,600.0		89.65	8,910.0	792.9	1,360.9	574,739.51	585,970.60	32° 34' 47.747 N	104° 11' 18.350 W
9,700.0		89.65	8,910.0	793.6	1,460.9	574,740.13	586,070.60	32° 34' 47.752 N	104° 11' 17.182 W
9,800.0	90.00	89.65	8,910.0	794.2	1,560.9	574,740.74	586,170.59	32° 34' 47.756 N	104° 11' 16.013 W
9,900.0	90.00	89.65	8,910.0	794.8	1,660.9	574,741.35	586,270.59	32° 34' 47.761 N	104° 11' 14.844 W
10,000.0	90.00	89.65	8,910.0	795.4	1,760.9	574,741.97	586,370.59	32° 34' 47.766 N	104° 11' 13.675 W
10,100.0	90.00	89.65	8,910.0	796.0	1,860.9	574,742.58	586,470.59	32° 34' 47.770 N	104° 11' 12.507 W
10,200.0	90.00	89.65	8,910.0	796.6	1,960.9	574,743.19	586,570.59	32° 34' 47.775 N	104° 11' 11.338 W
10,300.0	90.00	89.65	8,910.0	797.2	2,060.9	574,743.81	586,670.59	32° 34' 47.780 N	104° 11' 10.169 W
10,400.0	90.00	89.65	8,910.0	797.9	2,160.9	574,744.42	586,770.58	32° 34' 47.785 N	104° 11' 9.001 W
10,500.0	90.00	89.65	8,910.0	798.5	2,260.9	574,745.03	586,870.58	32° 34' 47.789 N	104° 11' 7.832 W
10,600.0	90.00	89.65	8,910.0	799.1	2,360.9	574,745.65	586,970.58	32° 34' 47.794 N	104° 11' 6.663 W
10,700.0	90.00	89.65	8,910.0	799.7	2,460.9	574,746.26	587,070.58	32° 34' 47.799 N	104° 11' 5.494 W
10,800.0	90.00	89.65	8,910.0	800.3	2,560.9	574,746.87	587,170.58	32° 34' 47.803 N	104° 11' 4.326 W
10,900.0	90.00	89.65	8,910.0	800.9	2,660.9	574,747.49	587,270.57	32° 34' 47.808 N	104° 11' 3.157 W
11,000.0	90.00	89.65	8,910.0	801.5	2,760.9	574,748.10	587,370.57	32° 34' 47.813 N	104° 11' 1.988 W
11,100.0	90.00	89.65	8,910.0	802.2	2,860.9	574,748.72	587,470.57	32° 34' 47.817 N	104° 11' 0.819 W
11,200.0	90.00	89.65	8,910.0	802.8	2,960.9	574,749.33	587,570.57	32° 34' 47.822 N	104° 10' 59.651 W
11,300.0	90.00	89.65	8,910.0	803.4	3,060.9	574,749.94	587,670.57	32° 34′ 47.827 N	104° 10' 58.482 W
11,400.0	90.00	89.65	8,910.0	804.0	3,160.9	574,750.56	587,770.56	32° 34' 47.831 N	104° 10' 57.313 W
11,500.0	90.00	89.65	8,910.0	804.6	3,260.9	574,751.17	587,870.56	32° 34' 47.836 N	104° 10' 56.144 W
11,600.0	90.00	89.65	8,910.0	805.2	3,360.9	574,751.78	587,970.56	32° 34' 47.841 N	104° 10' 54.976 W
11,700.0	90.00	89.65	8,910.0	805.8	3,460.9	574,752.40	588,070.56	32° 34' 47.845 N	104° 10' 53.807 W
11,800.0	90.00	89.65	8,910.0	806.4	3,560.9	574,753.01	588,170.56	32° 34' 47.850 N	104° 10' 52.638 W
11,900.0	90.00	89.65	8,910.0	807.1	3,660.9	574,753.62	588,270.56	32° 34' 47.855 N	104° 10' 51.469 W
12,000.0	90.00	89.65	8,910.0	807.7	3,760.9	574,754.24	588,370.55	32° 34' 47.859 N	104° 10' 50.301 W
12,100.0	90.00	89.65	8,910.0	808.3	3,860.9	574,754.85	588,470.55	32° 34' 47.864 N	104° 10' 49.132 W
12,200.0	90.00	89.65	8,910.0	808.9	3,960.9	574,755.46	588,570.55	32° 34' 47.869 N	104° 10' 47.963 W 104° 10' 46.795 W
12,300.0	90.00	89.65	8,910.0	809.5	4,060.9	574,756.08	588,670.55	32° 34' 47.873 N 32° 34' 47.878 N	
12,400.0	90.00	89.65	8,910.0	810.1	4,160.9	574,756.69 574,757.30	588,770.55 588,870.54	32° 34′ 47.883 N	104° 10' 45.626 W 104° 10' 44.457 W
12,500.0 12,600.0	90.00 90.00	89.65 89.65	8,910.0 8,910.0	810.7 811.4	4,260.9 4,360.9	574,757.92	588,970.54	32° 34' 47.887 N	104° 10' 43.288 W
12,000.0	30.00	05.00	0,010.0	011.4	₹,000.5	017,101.0Z	000,070.04	02 04 41.001 N	131 10 10.200 1

### **Permian Resources**

### Planning Report - Geographic

Database: Company: Project:

Design:

Compass NEW MEXICO

(SP) EDDY

**ESKY FOSTER PROJECT** Site: FOSTERS 16 FED COM 200H Well: Wellbore:

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

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well FOSTERS 16 FED COM 200H

KB @ 3300.0usft KB @ 3300.0usft

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
12,700.0	90.00	89.65	8,910.0	812.0	4,460.9	574,758.53	589,070.54	32° 34' 47.892 N	104° 10' 42.120
12,800.0	90.00	89.65	8,910.0	812.6	4,560.9	574,759.15	589,170.54	32° 34' 47.896 N	104° 10' 40.95
12,900.0	90.00	89.65	8,910.0	813.2	4,660.9	574,759.76	589,270.54	32° 34' 47.901 N	104° 10' 39.782
13,000.0	90.00	89.65	8,910.0	813.8	4,760.9	574,760.37	589,370.53	32° 34' 47.906 N	104° 10' 38.613
13,100.0	90.00	89.65	8,910.0	814.4	4,860.9	574,760.99	589,470.53	32° 34' 47.910 N	104° 10' 37.44
13,200.0	90.00	89.65	8,910.0	815.0	4,960.9	574,761.60	589,570.53	32° 34' 47.915 N	104° 10' 36.27
13,300.0	90.00	89.65	8,910.0	815.6	5,060.9	574,762.21	589,670.53	32° 34' 47.920 N	104° 10' 35.10'
13,400.0	90.00	89.65	8,910.0	816.3	5,160.9	574,762.83	589,770.53	32° 34' 47.924 N	104° 10' 33.93
13,500.0	90.00	89.65	8,910.0	816.9	5,260.9	574,763.44	589,870.53	32° 34' 47.929 N	104° 10' 32.77
13,600.0	90.00	89.65	8,910.0	817.5	5,360.9	574,764.05	589,970.52	32° 34' 47.933 N	104° 10' 31.60
13,700.0	90.00	89.65	8,910.0	818.1	5,460.9	574,764.67	590,070.52	32° 34' 47.938 N	104° 10' 30.43
13,800.0	90.00	89.65	8,910.0	818.7	5,560.9	574,765.28	590,170.52	32° 34' 47.943 N	104° 10' 29.26
13,900.0	90.00	89.65	8,910.0	819.3	5,660.9	574,765.89	590,270.52	32° 34' 47.947 N	104° 10' 28.09
14,000.0	90.00	89.65	8,910.0	819.9	5,760.9	574,766.51	590,370.52	32° 34' 47.952 N	104° 10' 26.92
14,053.1	90.00	89.65	8,910.0	820.3	5,813.9	574,766.83	590,423.57	32° 34' 47.954 N	104° 10' 26.30

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL-FOSTERS 16 FB - plan hits target o - Point		0.00	8,910.0	820.3	5,813.9	574,766.83	590,423.57	32° 34′ 47.954 N	104° 10' 26.306 W
LTP-FOSTERS 16 FE - plan hits target o - Point		0.00	8,910.0	819.7	5,723.9	574,766.28	590,333.58	32° 34' 47.950 N	104° 10' 27.358 W
FTP-FOSTERS 16 FE - plan misses targ - Point		0.01 197.8usft a	8,910.0 t 8925.0usf	788.2 t MD (8767.8	586.7 3 TVD, 789.0	574,734.76 N, 724.3 E)	585,196.38	32° 34' 47.710 N	104° 11' 27.399 W

Measured	Vertical	Local Coor	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
2,750.0	2,741.5	78.3	58.3	Start 3042.2 hold at 2750.0 MD
5,515.0	5,412.2	652.4	485.6	NMNM 017220 Exit at 5515.0 MD
5,792.2	5,680.0	709.9	528.4	Start Drop -2.00
6,542.2	6,421.4	788.2	586.7	Start 2011.1 hold at 6542.2 MD
8,553.2	8,432.5	788.2	586.7	Start DLS 12.00 TFO 89.65
9.303.2	8,910.0	791.1	1,064.2	Start 4749.8 hold at 9303.2 MD
14,053.1	8,910.0	820.3	5,813.9	TD at 14053.1

# PERMIAN RESOURCES

### H<sub>2</sub>S 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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Permian Resources Corporation	H <sub>2</sub> S Contingency Plan Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H	Eddy County, New Mexico
	Fosters 16 Fed Com 131H, 132H, 200H, 201H	

### Section 1.0 - Introduction

### I. Purpose

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

### II. Scope & Applicability

This Plan applies to all planned, unplanned, uncontrolled and/or unauthorized releases of hazardous concentrations of H<sub>2</sub>S or any associated hazardous byproducts of combustion, occurring at any Permian Resources owned or operated facilities including but not limited to: wells, flowlines, pipelines, tank batteries, production facilities, SWD facilities, compressor stations, gas processing plants, drilling / completions / workover operations, and any other applicable company owned property.

### Section 2.0 - Plan Implementation

### I. Activation Requirements

In accordance with the requirements of Bureau of Land Management Onshore Order #6 and NMAC 19.15.11, this Plan shall be activated in advance of any authorized, planned, unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of H<sub>2</sub>S gas, or SO<sup>2</sup>, which could potentially adversely impact the workers, general public or the environment.

### II. Emergency Evacuation

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

### III. Emergency Response Activities

The purpose of emergency response actions is to take steps to quickly mitigate / stop the ongoing release of the hazardous source of H<sub>2</sub>S. Upon discovery of any hazardous release, immediately notify Permian Resources management to activate the Emergency Response Team (ERT). Once Permian Resources supervision arrives and assesses the situation, a work plan identifying the proper procedures shall be developed to stop the release.

### Section 3.0 - Potential Hazardous Conditions & Response Actions

During a planned or unplanned release of H<sub>2</sub>S, there are several hazardous conditions that are presented both to employees, the general public, and emergency responders. These specific hazardous conditions

Permian Resources Corporation	Eddy County, New Mexico	H <sub>2</sub> S Contingency Plan Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H Fosters 16 Fed Com 131H, 132H, 200H, 201H
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are identified in the tables below.

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

1₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED	
> 30 ppm H <sub>2</sub> S concentration in air detected by location monitors: Extreme danger to life	
General Actions During Condition 3	
Sound H <sub>2</sub> S alarm and/or display red flag.	
Account for on-site personnel	
Move away from H <sub>2</sub> 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.	
f 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 <b>Condition</b> 1.	
Notify management of the condition and action taken. If H <sub>2</sub> S concentration is increasing and steps to correct the situation are not successful – or at any time if well control is questionable – alert all responsible parties for possible activation of the H <sub>2</sub> S Contingency Plan. If well control at the surface is lost, determine if situation warrants igniting the well.	
f 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 <sub>2</sub> 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.	
f the flow is ignited, burning H <sub>2</sub> S will be converted to sulfur dioxide (SO <sub>2</sub> ), 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 <sub>2</sub> 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)  f off-site impact; notify any neighbors within the Radius of Exposure (ROE), see example in Figure 5-11.	۵
Continuously monitor H <sub>2</sub> S until readings fall below 10 ppm.	
vacuated 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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Alert public (directly or through appropriate government agencies) who may be subject to potentially harmful exposure levels.	
Make recommendations to public officials regarding blocking unauthorized access to the unsafe area and assist as appropriate.	
Make recommendations to public officials regarding evacuating the public and assist as appropriate.	
Monitor ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry.	

### Section 4.0 - Notification of H<sub>2</sub>S 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<sub>2</sub>S 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<sub>2</sub>S gas or any associated byproducts of combustion, notify local law enforcement agencies and ask for their assistance in alerting the general public and limiting access to any public roads that may be impacted by such a release.

### III. New Mexico Oil Conservation Division

The Permian Resources HSE Department will make any applicable notification to the New Mexico OCD regarding any release of a hazardous concentration of H<sub>2</sub>S 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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	Factors 16 End Com 121H 122H 200H 201H	

Section 5.0 - Emergency Contact List

	EMERGENCY (	CONTACT LIS	T	
	PERMIAN RESOURC	ES CORPORAT	ION.	
POSITION	NAME	OFFICE	CELL	ALT PHONE
	Opera	ntions		
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	
	HSE & Re	gulatory		
H&S Manager	Adam Hicks	720.499.2377	903.426.4556	
Regulatory Manager	Stephanie Rabadue		432.260.4388	
Environmental Manager	Montgomery Floyd	432-315-0123	432-425-8321	
HSE Consultant	Blake Wisdom		918-323-2343	
	Local, State, & Fo	ederal Agend	ies	
Eddy County Sheriff		575-887-7551		911
New Mexico State Highway Patrol		505-757-2297		911
Carlsbad Fire / EMS		575-885-3125		911
Carisbad Memorial Hospital		575-887-4100		
Secorp – Safety Contractor	Ricky Stephens		(325)-262-0707	1184, 1184, 1184, 1184, 1184
New Mexico Oil Conservation Division  – District 1 Office – Hobbs, NM.		575-393-6161		
New Mexico Environment Department – District III Office – Hobbs, NM		575-397-6910		
New Mexico Oil Conservation Division — Hobbs, NM	24 Hour Emergency	575-393-6161		
Bureau of Land Management – Carlsbad, NM		575-234-5972		
U.S. Fish & Wildlife		502-248-6911		

### Section 6.0 - Drilling Location Information

### I. Site Safety Information

### 1. Safe Briefing Area

a. There shall be two areas that will be designated as "SAFE BRIEFING AREAs". If H<sub>2</sub>S 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.

### 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. H<sub>2</sub>S Detectors and Alarms

a. Continuous monitoring type H<sub>2</sub>S detectors, capable of sensing a minimum of 5ppm H<sub>2</sub>S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO<sub>2</sub> detector will also be located at the combustor. The automatic H<sub>2</sub>S 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<sub>2</sub>S.

### 8. Metallurgy

a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H<sub>2</sub>S volume and pressure.

### 9. Communication

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

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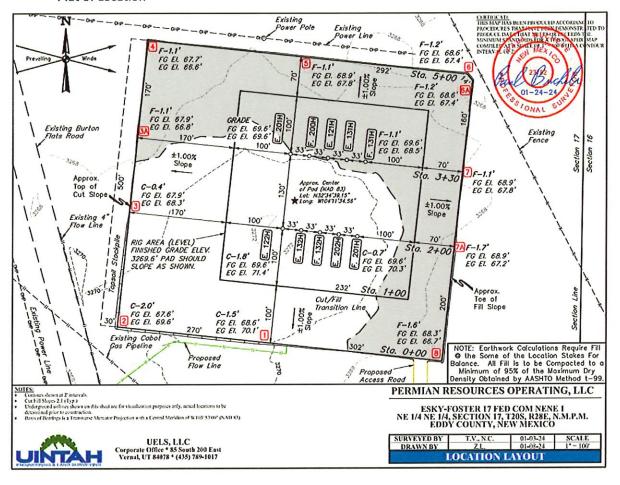
### II. Directions to Location

**Permian Resources Corporation** 

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.

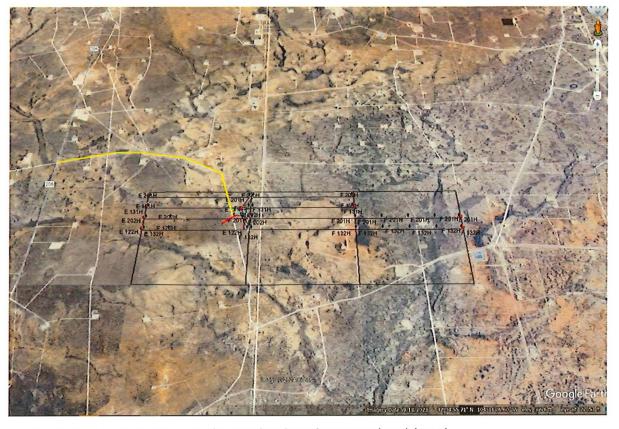
H<sub>2</sub>S Contingency Plan Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H Fosters 16 Fed Com 131H, 132H, 200H, 201H Eddy County, New Mexico

### Plat of Location



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1. Routes of Ingress & Egress (MAP)



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

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

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### Map of 3000' ROE Perimeter



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

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

- Location NAD 83 GPS Coordinates Lat: 32.577746, 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  $(H_2S)$  is a colorless, poisonous gas that is soluble in water. It can be present in crude oils, condensates, natural gas and wastewater streams.

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

With H<sub>2</sub>S 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 H<sub>2</sub>S

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

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.

### H<sub>2</sub>S 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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Table 7.1. Hazards & Toxicity

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

### III. Environmental Hazards

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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		
Conce	entration	<b>Effects</b>	
%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 H<sub>2</sub>S 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 - H<sub>2</sub>S Concentration Threshold Requirements

New Mexico NMAC 19.15.11 and Onshore Order #6 identify two Radii of Exposure (ROE) that identify potential danger to the public and require additional compliance measures. Permian Resources is required to install safety devices, establish safety procedures and develop a written H<sub>2</sub>S contingency plan for sites where the H<sub>2</sub>S concentrations are as follows.

Table 8.1. Calculating H<sub>2</sub>S 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 H₂S 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<sub>2</sub>S release is calculated to determine if a potentially hazardous volume of H<sub>2</sub>S gas at 100 or 500 parts per million (ppm) is within a regulated distance requiring further action. If information about the concentration of H<sub>2</sub>S 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 <sub>2</sub> 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 H<sub>2</sub>S ROE cases is included in **Table 8.3**.
  - o CASE 1 -100 ppm ROE < 50'
  - o CASE 2 100 ppm ROE is 50' or greater, but < 3000' and does not penetrate public area.
  - o 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	OUCTION
PROVISION	CASE 1	CASE 2	CASE 3
H <sub>2</sub> S Concentration Test	X	X	X
H-9	X	X	X
Training	X	X	X
District Office Notification	X	X	X
Drill Stem Tests Restricted	X*	X*	X
BOP Test	X*	X*	X
Materials		X	X
Warning and Marker		X	X
Security		X	X
Contingency Plan			X
Control and Equipment Safety			X
Monitors		X**	X**
Mud (ph Control or Scavenger)			X*
Wind Indicators		X**	X
Protective Breathing Equipment		X**	X
Choke Manifold, Secondary Remote Control, and Mud-Gas Separator			X
Flare Stacks			X*

### Section 9.0 - Training Requirements

### **Training**

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The following elements are considered a minimum level of training for personnel assigned to operations who may encounter H<sub>2</sub>S as part of routine or maintenance work.

- The hazards, characteristics, and properties of hydrogen sulfide (H<sub>2</sub>S) and (SO<sub>2</sub>).
- Sources of H<sub>2</sub>S and SO<sub>2</sub>.
- Proper use of H<sub>2</sub>S and SO<sub>2</sub> detection methods used at the workplace.
- Recognition of, and proper response to, the warning signals initiated by H<sub>2</sub>S and SO<sub>2</sub> detection systems in use at the workplace.
- Symptoms of H₂S exposure; symptoms of SO₂ exposure
- Rescue techniques and first aid to victims of H<sub>2</sub>S and SO<sub>2</sub> 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 H<sub>2</sub>S and SO<sub>2</sub>.
- 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 H<sub>2</sub>S Monitors

All personnel engaged in planned or unplanned work activity to mitigate the release of a hazardous concentration of H<sub>2</sub>S shall have on their person a personal H2S monitor.

### II. Fixed H₂S Detection and Alarms

- 4 channel H₂S monitor
- 4 wireless H<sub>2</sub>S 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 H<sub>2</sub>S 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 **Permian Resources Corporation** 

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### 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 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

: Industrial use Recommended uses and restrictions Use as directed

### Supplier

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

### 1.4. Emergency telephone number

Emergency number

: 1-800-363-0042

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

Precautionary statements

: EXTREMELY FLAMMABLE GAS
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
FATAL IF INHALED
MAY CAUSE RESPIRATORY IRRITATION
MAY FORM EXPLOSIVE MIXTURES WITH AIR
SYMPTOMS MAY BE DELAYED

EXTENDED EXPOSURE TO GAS REDUCES THE ABILITY TO SMELL SULFIDES

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

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H<sub>2</sub>S Contingency Plan Permian Resources Corporation Eddy County, New Mexico Esky 17 Fed Com 121H, 122H, 131H, 132H, 201H, 202H Fosters 16 Fed Com 131H, 132H, 200H, 201H



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Do not breathe gas

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

Avoid release to the environment

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

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

In case of leakage, eliminate all ignition sources

Store locked up

Dispose of contents/container in accordance with container Supplier/owner instructions Protect from sunlight when ambient temperature exceeds 52°C (125°F)

Close valve after each use and when empty

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

Do not depend on odour to detect the presence of gas

#### Other hazards

Other hazards not contributing to the

: Contact with liquid may cause cold burns/frostbite.

#### Unknown acute toxicity (GHS-CA) 2.4.

No data available

#### SECTION 3: Composition/information on ingredients

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

#### Mixtures 3.2.

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 eyeballs 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

**Permian Resources Corporation** 

: 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 almospheres 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

General measures

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

# Methods and materials for containment and cleaning up

Methods for cleaning up

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

#### Reference to other sections

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

## SECTION 7: Handling and storage

#### Precautions for safe handling

Precautions for safe handling

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

All piped systems and associated equipment must be grounded

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

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

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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: 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.

Hydrogen sulfide (7783-06-	4)	
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm
Canada (Quebec)	VECD (mg/m³)	21 mg/m³
Canada (Quebec)	VECD (ppm)	15 ppm
Canada (Quebec)	VEMP (mg/m²)	14 mg/m³
Canada (Quebec)	VEMP (ppm)	10 ppm
Alberta	OEL Ceiling (mg/m³)	21 mg/m³
Alberta	OEL Ceiling (ppm)	15 ppm
Alberta	OEL TWA (mg/m³)	14 mg/m³
Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL Ceiling (ppm)	10 ppm
Manitoba	OEL STEL (ppm)	5 ppm
Manitoba	OEL TWA (ppm)	1 ppm
New Brunswick	OEL STEL (mg/m³)	21 mg/m³
New Brunswick	OEL STEL (ppm)	15 ppm
New Brunswick	OEL TWA (mg/m³)	14 mg/m³
New Brunswick	OEL TWA (ppm)	10 ppm
New Foundland & Labrador	OEL STEL (ppm)	5 ppm
New Foundland & Labrador	OEL TWA (ppm)	1 ppm
Nova Scotia	OEL STEL (ppm)	5 ppm
Nova Scotia	OEL TWA (ppm)	1 ppm
Nunavut	OEL Ceiling (mg/m³)	28 mg/m³
Nunavut	OEL Ceiling (ppm)	20 ppm
Nunavut	OEL STEL (mg/m³)	21 mg/m³
Nunavut	OEL STEL (ppm)	15 ppm
Nunavut	OEL TWA (mg/m³)	14 mg/m³
Nunavut	OEL TWA (ppm)	10 ppm
Northwest Territories	OEL STEL (ppm)	15 ppm

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

# 8.2. Appropriate engineering controls

Appropriate engineering controls

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

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment

: Safety glasses. Face shield. Gloves.







Hand protection

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

Eye protection

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

Respiratory protection

: Respiratory protection: Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection

Other information

: Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 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 guldelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state

Gas

Appearance

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

Molecular mass

34 g/mol

Colour

: Colourless.

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

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

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pH : Not applicable. : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : Not applicable. Melting point : -86 °C Freezing point : -82.9 °C **Boiling point** : -60.3 °C Flash point : Not applicable. Critical temperature : 100.4 °C Auto-ignition temperature : 260 °C Decomposition temperature : No data available Vapour pressure : 1880 kPa Vapour pressure at 50 °C : No data available Critical pressure : 8940 kPa Relative vapour density at 20 °C Relative density : No data available Relative density of saturated gas/air mixture : No data available Density : No data available Relative gas density : 1.2 Solubility : Water: 3980 mg/l Log Pow : Not applicable. Log Kow : Not applicable. Viscosity, kinematic : Not applicable. Viscosity, dynamic : Not applicable. Viscosity, kinematic (calculated value) (40 °C) : No data available

Other information 9.2.

Gas group : Liquefied gas

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

: Not applicable.

4.3 - 46 vol %

: None.

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Explosive properties** 

Oxidizing properties

Flammability (solid, gas)

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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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.

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

Reproductive toxicity : Not classified

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

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

12.1. Toxicity	
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 promelas [flow-through])
12.2. Persistence and degradabilit	y .
Hydrogen sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.
12.3. Bioaccumulative potential	
Hydrogen sulfide (7783-06-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
Hydrogen sulfide (7783-06-4)	
Mobility in soil	No data available

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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**SECTION 13: Disposal considerations** 

13.1. Disposal methods

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

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN1053

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

TDG Subsidiary Classes : 2.1

Proper shipping name : HYDROGEN SULPHIDE

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

Carrying Railway Vehicle Index

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1053

Proper Shipping Name (IMDG) : HYDROGEN SULPHIDE

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

: 1053 UN-No. (IATA)

Proper Shipping Name (IATA) : Hydrogen sulphide

Class (IATA) : 2

#### SECTION 15: Regulatory information

#### 15.1. National regulations

Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List)

# 15.2. International regulations

#### Hydrogen sulfide (7783-06-4)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

# SECTION 16: Other information

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Indication of changes:

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

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Other information

**Permian Resources Corporation** 

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

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

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

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NFPA health hazard

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

NFPA fire hazard

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

NFPA reactivity

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



HMIS III Rating

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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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** 

inorganie, gas

**Product Description** 

Classification determined in accordance with Compressed Gas Association standards.

Product Use

Industrial and Specialty Gas Applications.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

MATHESON TRI-GAS, INC.

3 Mountainview Road

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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# Safety Data Sheet

#### Material Name: SULFUR DIOXIDE

Wash thoroughly after handling.

Do not breathe dusts or mists.

Response

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

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

Continue rinsing.

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

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

Storage

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

Store locked up.

Protect from sunlight.

Disposal

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

Other Hazards

Contact with liquified gas may cause frostbite.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS		
CAS	Component Name	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.

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

#### Eyes

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

Continue rinsing. Get immediate medical attention.

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

SDS ID: MAT22290

#### Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire hazard.

**Hazardous Combustion Products** 

sulfur oxides

Fire Fighting Measures

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

Special Protective Equipment and Precautions for Firefighters

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

# Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

Ventilate closed spaces before entering, Evacuation radius: 150 feet. Stop leak if possible without personal risk.

Reduce vapors with water spray. Do not get water directly on material.

**Environmental Precautions** 

Avoid release to the environment.

# Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

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

Conditions for Safe Storage, Including any Incompatibilities

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

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.

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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**Permian Resources Corporation** 

# Safety Data Sheet

# Material Name: SULFUR DIOXIDE

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

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

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

**Engineering Controls** 

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

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

Skin Protection

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

Respiratory Protection

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

Glove Recommendations

Wear appropriate chemical resistant gloves.

Secti	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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# Safety Data Sheet

#### Material Name: SULFUR DIOXIDE

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

**Delayed Effects** 

No information on significant adverse effects.

Irritation/Corrosivity Data

respiratory tract burns, skin burns, eye burns

Respiratory Sensitization

No data available.

**Dermal Sensitization** 

No data available.

Component Carcinogenicity

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

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

**Aspiration hazard** 

Not applicable.

Medical Conditions Aggravated by Exposure

respiratory disorders

# Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

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

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

# Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Component Waste Numbers

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

# Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: SULFUR DIOXIDE

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# Safety Data Sheet

Material Name: SULFUR DIOXIDE

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

IMDG Information:

Shipping Name: SULPHUR DIOXIDE

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

TDG Information:

Shipping Name: SULFUR DIOXIDE

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

International Bulk Chemical Code

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

# Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

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

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

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

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

#### U.S. State Regulations

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

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

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



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



# Safety Data Sheet

Material Name: SULFUR DIOXIDI

Repro/Dev. Tox

iai Name: SULF	UR DIOXIDE	SDS ID: MA1222
Sulfur dioxide	7446-09-5	

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

developmental toxicity, 7/29/2011

#### 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

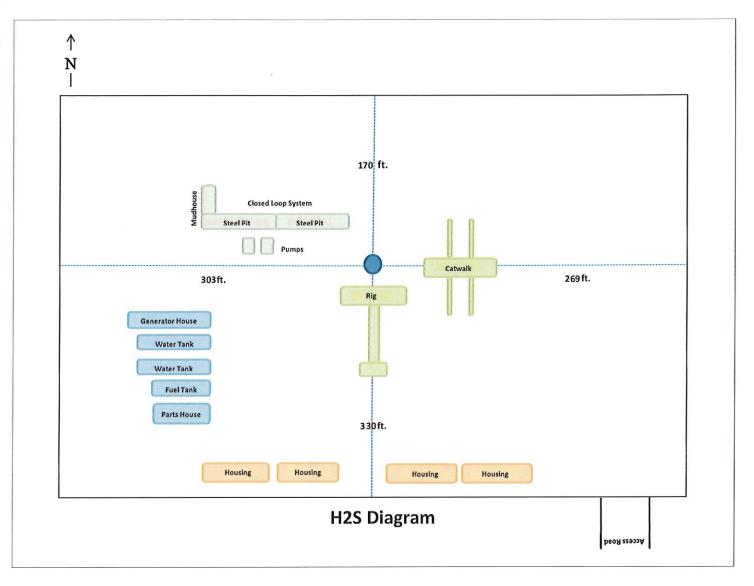
Key / Legend

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 KECl Annex 2 - Korea Existing Chemicals Inventory (KECl) / 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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Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: FOSTERS 16 FED COM Well Number: 200H

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
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 478847

#### **CONDITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	478847
	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.	6/25/2025
jelrod01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/25/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/29/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/29/2025
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.	7/29/2025
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.	7/29/2025
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.	7/29/2025