Form 3160-3 (June 2015)	a			FORM AF OMB No. Expires: Janu	1004-01	37		
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN.	NTERIOR			5. Lease Serial No.				
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee or	Tribe N	ame		
1a. Type of work: DRILL	EENTER			7. If Unit or CA Agree	ement, N	ame and No.		
	ther ingle Zone	Multiple Zone		8. Lease Name and Well No.				
2. Name of Operator				9. API Well No. 30-025-54846				
3a. Address	3b. Phone	No. (include area cod	e)	10. Field and Pool, or	Explora	tory		
 4. Location of Well (<i>Report location clearly and in accordance</i>) At surface At proposed prod. zone 	with any Stat	e requirements.*)		11. Sec., T. R. M. or B	lk. and S	Survey or Area		
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish		13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	acres in lease	17. Spaci	ng Unit dedicated to this	s well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propos	ed Depth	d Depth 20. BLM/BIA Bond No. in f					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	kimate date work will	start*	23. Estimated duration	1			
	24. Atta	chments						
The following, completed in accordance with the requirements o (as applicable)	f Onshore Oi	l and Gas Order No. 1	, and the H	Iydraulic Fracturing rule	e per 43	CFR 3162.3-3		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 		Item 20 above). 5. Operator certific	eation.	ns unless covered by an e mation and/or plans as m	-			
25. Signature	Nam	BLM. e (Printed/Typed)		D	Date			
Title								
Approved by (Signature)	Nam	e (Printed/Typed)		D	Date			
Title	Offic	e						
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	nose rights	in the subject lease which	ch would	d entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					y departi	nent or agency		
	And a Date		0.810					



*(Instructions on page 2)

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(Continued on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 655 FSL / 543 FWL / TWSP: 21S / RANGE: 32E / SECTION: 11 / LAT: 32.487925 / LONG: -103.652261 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 100 FNL / 2308 FWL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.485858 / LONG: -103.646528 (TVD: 11086 feet, MD: 11547 feet) PPP: NESW / 2635 FNL / 2306 FWL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.478889 / LONG: -103.646521 (TVD: 11086 feet, MD: 14083 feet) PPP: SESW / 1318 FSL / 2305 FWL / TWSP: 21S / RANGE: 32E / SECTION: 14 / LAT: 32.475266 / LONG: -103.646517 (TVD: 11086 feet, MD: 15401 feet) PPP: NENW / 0 FNL / 2304 FWL / TWSP: 21S / RANGE: 32E / SECTION: 23 / LAT: 32.471643 / LONG: -103.646513 (TVD: 11086 feet, MD: 16719 feet) BHL: SESW / 100 FSL / 2308 FWL / TWSP: 21S / RANGE: 32E / SECTION: 23 / LAT: 32.457367 / LONG: -103.646549 (TVD: 11086 feet, MD: 121912 feet)

BLM Point of Contact

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

Review and Appeal Rights

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

Re

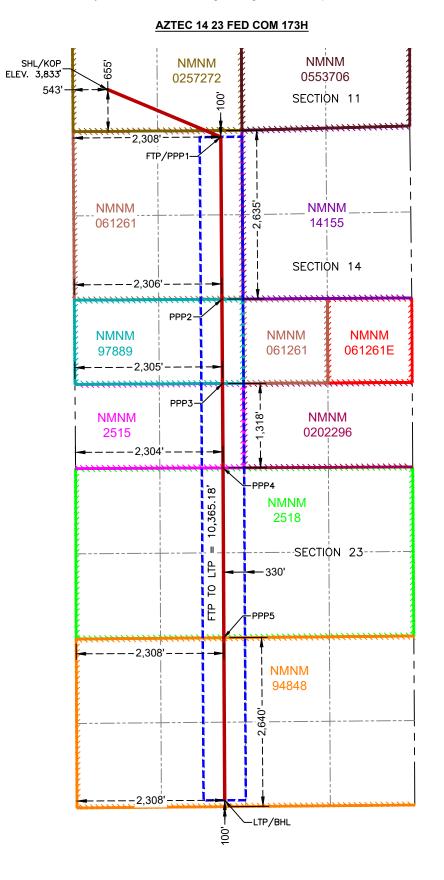
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<u>C-10</u>	<u>2</u>		En			ral Resources Dep	partment			Revised July 9, 2024		
	Electronicall Permitting	У		OIL C	CONSERVA	TION DIVISION			☑ Initial Submittal			
	Fermitting							Submittal	Amende			
								Туре:	As Drille			
			<u> </u>		WELL LOCATI	ON INFORMATION						
API Nu	Imber 30-0	25-54846	Pool Code [97921]			Pool Name WC-025 G-06 S21	3215A B	ONE SPR	ING			
Proper	tv Code		Property N	ame			021073, DC		Well Numb	er		
		37325			AZTEC [·]	14 23 FED COM				173H		
OGRIE	No. 37216	5	Operator N		RMIAN RESOU	IRCES OPERATING	, LLC			vel Elevation 3,833'		
		→)wner: □ Stat	e 🗆 Fee 🗆				-	e 🗆 Fee 🛛	⊥ ∃ Tribal 🗹 Fe			
JL	Section	Township	Range	Lot	Surfac	E Location	Latitude		ongitude	County		
M	11	21S	32E		655' FSL	543' FWL	32.487		03.652261°	LEA		
		213	JZL				52.407	525 -1	05.052201			
JL	Section	Township	Range	Lot	Bottom Ft. from N/S	Hole Location	Latitude		ongitude	County		
	23	21S	32E	LOI	100' FSL	2,308' FWL	32.457		03.646556°	LEA		
Ν	23	215	JZE		100 F3L	2,000 1 112	32.457	-1	03.040550	LEA		
Dedica	ted Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacing	g Unit (Y/N)	Consolidat	tion Code			
320.0	0	INFILL		30-025	5-46350	N		С				
Order I	Numbers.	PENDING		•		Well setbacks are u	under Comm	on Ownersh	nip: 🗹Yes □I	No		
					Kick Of	f Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
M	11	21S	32E	201	655' FSL	543' FWL	32.487		03.652261°	LEA		
						ke Point (FTP)	•====			-=/		
JL	Section	Township	Range	Lot	First Ta	Ft. from E/W	Latitude		ongitude	County		
C	14	215	32E	Lot	100' FNL	2,308' FWL	32.485		03.646536°	LEA		
•						ke Point (LTP)						
JL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
N	23	21S	32E		100' FSL	2,308' FWL	32.457	367° -1	03.646556°	LEA		
Jnitize NA	d Area or A	rea of Uniform	n Interest	Spacing	Unit Type 🗹 Ho	rizontal 🗆 Vertical	Grou 3,8	nd Floor Ele 63'	evation:			
OPER/	ATOR CER	TIFICATIONS				SURVEYOR CERTIF	ICATIONS					
				n is true and	l complete to the	I hereby certify that the w		own on this n	lat was plotted	from field notes of		
best of r	my knowledge	e and belief, and	d, if the well is	a vertical or	directional well, d mineral interest	actual surveys made by	melorunder m	ly supervision	, and that the s	ame is true and		
in the la	nd including	the proposed bo	ottom hole loca	tion or has	a right to drill this	actual surveys prade by correct to the best of my	MEX	\sum				
unlease	d mineral int	erest, or to a vo	luntary pooling		orking interest or t or a compulsory		MEXICO					
		ore entered by t					2177)	~				
		ntal well, I furthe st one lessee or			tion has received st or unleased	Real	HIMA W	to a				
mineral	interest in ea		arget pool or fo	ormation) in	which any part of	CARL	-ST	/				
	rp the divisio	the second secon				CARED PRO	ESSIONAL	/				
	<u> / //////</u>	Brown		5/7/2025 ate		Signature and Seal of Pr		Date: 3/26/2025				
-	0							,				
ASNIE Printed	y Brown					Certificate Number	Date of Sur	vey				
		9 n n m i	0.00			12177		-	126/2025			
	y.brown@	permianre	s.com			12177		3	3/26/2025			

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. *Released to Imaging: 7/22/2025 1:32:18 PM*

Received by OCD: 7/17/2025 1:26:23 PM ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



& KICK-OFF POINT 655' FSL & 543' FWL ELEV. = 3,833' NAD 83 X = 751,338.32' NAD 83 Y = 541 908 24' NAD 83 LAT = 32.487925° NAD 83 LONG = -103.652261° NAD 27 X = 710,156.80' NAD 27 Y = 541,846.74' NAD 27 LAT = 32.487802° NAD 27 LONG = -103.651770° FIRST TAKE POINT & PENETRATION POINT 1 100' FNL & 2,308' FWL NAD 83 X = 753,108.39' NAD 83 Y = 541,167.49' NAD 83 LAT = 32.485858° NAD 83 LONG = -103.646536° NAD 27 X = 711,926.83' NAD 27 Y = 541,106.00' NAD 27 LAT = 32.485735 NAD 27 LONG = -103.646046° **PENETRATION POINT 2** 2,635' FNL & 2,306' FWL NAD 83 X = 753,125.08' NAD 83 Y = 538,632.31' NAD 83 LAT = 32.478889° NAD 83 LONG = -103.646535° NAD 27 X = 711,943.47' NAD 27 Y = 538,570.89' NAD 27 LAT = 32.478766° NAD 27 LONG = -103.646045° PENETRATION POINT 3 1,318' FSL & 2,305' FWL NAD 83 X = 753,133.77' NAD 83 Y = 537,314.31' NAD 83 LAT = 32.475266° NAD 83 LONG = -103.646534° NAD 27 X = 711,952.11' NAD 27 Y = 537,252.93' NAD 27 | AT = 32 4751439 NAD 27 LONG = -103.646044° PENETRATION POINT 4 0' FSL & 2,304' FWL NAD 83 X = 753,142.45' NAD 83 Y = 535.996.32' NAD 83 LAT = 32.471643° NAD 83 LONG = -103.646533° NAD 27 X = 711.960.76' NAD 27 Y = 535,934.98' NAD 27 LAT = 32.471521° NAD 27 LONG = -103.646044° **PENETRATION POINT 5** 2,640' FSL & 2,308' FWL NAD 83 X = 753,155.91' NAD 83 Y = 533,342.79' NAD 83 LAT = 32,464350° NAD 83 LONG = -103.646545° NAD 27 X = 711,974.15' NAD 27 Y = 533.281.52' NAD 27 LAT = 32.464227 NAD 27 LONG = -103.646056° LAST TAKE POINT & BOTTOM HOLE LOCATION 100' FSL & 2.308' FWL NAD 83 X = 753,168.80' NAD 83 Y = 530,802.49' NAD 83 LAT = 32.457367° NAD 83 LONG = -103.646556° NAD 27 X = 711,986.97' NAD 27 Y = 530,741.29' NAD 27 LAT = 32.457244°

NAD 27 LONG = -103.646067°

SURFACE HOLE LOCATION

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:Permian Resources Operating LLCWELL NAME & NO.:Aztec 14-23 Fed Com 173HLOCATION:Sec 11-21S-32E-NMPCOUNTY:Lea County, New Mexico

COA

H ₂ S	0	No	• Yes				
Potash /	C None	Secretary	🖲 R-111-Q	Open Annulus			
WIPP	4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone)						
Cave / Karst	• Low	C Medium	🔘 High	Critical			
Wellhead	Conventional	Multibowl	O Both	C Diverter			
Cementing	Primary Squeeze	🗖 Cont. Squeeze	EchoMeter	🗖 DV Tool			
Special Req	Capitan Reef	Water Disposal	COM	🗖 Unit			
Waste Prev.	C Self-Certification	🖲 Waste Min. Plan	C APD Submitted prior 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 at **surface**. 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.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **1,600** feet (a minimum of 25 feet (Lea 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>

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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.

Intermediate 1 casing shall be kept fluid filled to meet BLM's minimum collapse requirements.

- 2. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
 - Special Capitan Reef Requirements: Ensure freshwater-based mud is used across the Captain Reef.
- 3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing (set at 5500' per BLM geologist) is:
 - Cement should tie-back **500 feet or 50 feet on top of the Capitan Reef, whichever is** closer to surface into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q requirements.</u> Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. 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 **500 feet or 50 feet on top of the Capitan Reef, whichever is** closer to surface into the previous casing but not higher than USGS Marker Bed No. 126. <u>Operator must verify top of cement per R-111-Q requirements.</u> Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. 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.

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- 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. <u>When the</u> <u>Communitization Agreement number is known, it shall also be on the sign.</u>

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 (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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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 Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

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

A. CASING

- 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. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following

conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.

Page 6 of 8

- 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).

Approval Date: 03/25/2025

- 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.

Approval Date: 03/25/2025



proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME:		Signed on: 08/01/2024
Title:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		
Field		
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

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Well Name: AZTEC 14 23 FED COM

. .

Operator Name: PERMIAN RESOURCES OPERATING LLC

FAFMSS

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

APD ID: 10400100274

Well Type: OIL WELL

Highlighted data reflects the most recent changes Show Final Text

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan na	me:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: AZTEC 14 23 FED COM	Well Number: 173H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: WC-026 G-06 S213215A	Pool Name: BONE SPRING

Section 1 - General		
APD ID: 10400100274	Tie to previous NOS?	Submission Date: 08/01/2024
BLM Office: Carlsbad	User: JENNIFER ELROD	Title: Senior Regulatory Analyst
Federal/Indian APD: FED	Is the first lease penetrat	ted for production Federal or Indian? FED
Lease number: NMNM061261	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreem	nent:
Agreement number:		
Agreement name:		
Keep application confidential? N		
Permitting Agent? NO	APD Operator: PERMIAN	RESOURCES OPERATING LLC
Operator letter of		

Operator Info

Operator Organization Name: PERMIA	N RESOURCES OPERATING LLC	
Operator Address: 300 N MARIENFEL	D ST SUITE 1000	7 in: 70701
Operator PO Box:		Zip: 79701
Operator City: MIDLAND St	tate: TX	
Operator Phone: (432)695-4222		
Operator Internet Address:		

Submission Date: 08/01/2024

Well Number: 173H Well Work Type: Drill **Application Data** 05/06/2025

Well Number: 173H

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

Is the proposed well in a Helium produ	iction area? N	Use Existing Well Pad? Y	New surface disturbance? Y
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name: AZTEC SWSW	Number: 2
Well Class: HORIZONTAL		Number of Legs: 1	
Well Work Type: Drill			
Well Type: OIL WELL			
Describe Well Type:			
Well sub-Type: INFILL			
Describe sub-type:			
Distance to town:	Distance to ne	arest well: 300 FT Distan	ce to lease line: 100 FT
Reservoir well spacing assigned acres	Measurement:	320 Acres	
Well plat: AZTEC_173H_APD_C102	_202408011213	05.pdf	
Well work start Date: 04/01/2024		Duration: 90 DAYS	

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number: 12177

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	TVD	Will this well produce from this
SHL	655	FSL	543	FW	21S	32E	11	Aliquot	32.48792 5	- 103.6522	LEA	NEW MEXI		1	NMNM 025727	383 4	0	0	N
Leg #1				-				SWS W	-	61		CO	CO		2				
KOP	655	FSL	543	FW	21S	32E	11	Aliquot	32.48792		LEA	NEW		F	NMNM	-	108	106	N
Leg				L				SWS	5	103.6522		MEXI			025727	680 1	13	35	
#1								W		61		со	со		2				
PPP	100	FNL	230	FW	21S	32E	14	Aliquot	32.48585		LEA	1		F	NMNM	-	115	110	Y
Leg			8	L				NENW	8	103.6465		MEXI			061261	725	47	86	
#1-1										28		со	со			2			

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Well Name: AZTEC 14 23 FED COM

Well Number: 173H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP	263 5	FNL	230 6	FW	21S	32E	14	Aliquot	32.47888 9	- 103.6465	LEA	NEW MEXI	NEW MEXI	F	NMNM 97889	- 725	140 83	110 86	Y
Leg #1-2	5		0	L				NESW	9	21		CO	CO		97009	2	00	00	
PPP	131	FSL	230	FW	21S	32E	14	Aliquot	32.47526		LEA	NEW	NEW	F	NMNM	-	154	110	Y
Leg	8		5	L				SESW	6	103.6465 17		MEXI CO	MEXI CO		2515	725 2	01	86	
#1-3										17		00				2			
PPP	0	FNL		FW	21S	32E	23	Aliquot	32.47164		LEA	NEW		F	NMNM	-	167	110	Y
Leg			4	L				NENW	3	103.6465 13		MEXI CO	MEXI CO		2518	725 2	19	86	
#1-4										15		00	00			2			
EXIT	100	FSL	230	FW	21S	32E	23	Aliquot	32.45736		LEA	NEW	NEW	F	NMNM	-	219	110	Y
Leg			8	L				SESW	7	103.6465		1	MEXI		94848	725	12	86	
#1										49		со	со			2			
BHL	100	FSL	230	FW	21S	32E	23	Aliquot	32.45736		LEA	NEW	NEW	F	NMNM	-	219	110	Y
Leg			8	L				SESW	7	103.6465		1	MEXI		94848	725	12	86	
#1										49		со	со			2			



Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies		Producing Formatio
15265506	QUATERNARY	3688	0	0	ALLUVIUM	USEABLE WATER	Ν
15265507	RUSTLER	2141	1547	1547	ANHYDRITE, SANDSTONE	USEABLE WATER	N
15265508	TOP OF SALT	1756	1932	1932	SALT	POTASH	N
15265509	YATES	174	3514	3514	ANHYDRITE, SHALE	CO2, NATURAL GAS, OIL	N
15265510	CAPITAN REEF	-71	3759	3759	SANDSTONE	USEABLE WATER	N
15265511	DELAWARE SAND	-1506	5194	5194	SANDSTONE	NATURAL GAS, OIL	N
15265512	BRUSHY CANYON	-3316	7004	7004	SANDSTONE	NATURAL GAS, OIL	N
15265513	BONE SPRING LIME	-5106	8794	8794	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
15265515	BONE SPRING 1ST	-6206	9894	9894	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
15265516	BONE SPRING 2ND	-6454	10142	10142	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
15265517	BONE SPRING 3RD	-7250	10938	10938	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12086

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

Requesting Variance? YES

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

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:

Aztec_Fed_5M_CM_20240801085234.pdf

BOP Diagram Attachment:

Aztec_Fed_5M_BOP_20240801085243.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	1572	0	1572	3834	2262	1572	J-55	54.5	BUTT	1.46	1.72	DRY	4.9	DRY	4.59
2	INTERMED IATE	12.2 5	10.75	NEW	API	N	0	3784	0	3784	3671	50	3784	J-55	45.5	BUTT	7.31	3.77	DRY	3.91	DRY	3.82
3	INTERMED IATE	9.87 5	8.625	NEW	NON API	N	0	5144	0	5144	3671	-1310	5144	HCL -80		OTHER - MO-FXL	4.44	1.34	DRY	1.91	DRY	2.77
4	PRODUCTI ON	7.87 5	5.5	NEW	NON API	N	0	21912	0	11086	3671	-7252	21912	P- 110		OTHER - GeoConn	1.93	2.01	DRY	1.99	DRY	1.99

Casing Attachments

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Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Tapered String Spec.
Casing Design Assumptions and Worksheet(s):
Aztec_14_23_Fed_Com_173H_CsgAssumptions_20240801172903.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Cree Decuments
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Aztec_14_23_Fed_Com_173H_CsgAssumptions_20240801173056.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Aztec_14_23_Fed_Com_Int_Csg_Spec_20240801090320.pdf
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Aztec_14_23_Fed_Com_173H_CsgAssumptions_20240801172937.pdf

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

Aztec_14_23_Fed_Com_Prod_Csg_Spec_20240801124348.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Aztec_14_23_Fed_Com_173H_CsgAssumptions_20240801173017.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1572	1230	1.34	14.8	1640	50	Class C	Accelerator

INTERMEDIATE	Lead	0	3020	430	1.88	12.9	790	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	3020	3784	170	1.34	14.8	220	50	Class C	Retarder
INTERMEDIATE	Lead	0	4110	310	1.88	12.9	570	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail	4110	5144	130	1.33	14.8	170	25	Class C	Salt
PRODUCTION	Lead	5644	1081 3	380	2.41	11.5	900	0	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail	1081 3	2191 2	1120	1.73	12.5	1930	0	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

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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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1572	SPUD MUD	8.6	9.5							
1572	3784	SALT SATURATED	10	10							
3784	5144	OTHER : Fresh Water	8.6	9.5							
5144	2191 2	OTHER : Brine, Oil Based Mud	9	10							

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

Section 6 - Test, Logging, Coring

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

Will utilize MWD/LWD from intermediate hole to TD of the well.

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

Coring operation description for the well:

No Coring is Planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5770

Anticipated Surface Pressure: 3331

Anticipated Bottom Hole Temperature(F): 165

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

Aztec_H2S_20240801093724.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

AZTEC_14_23_FED_COM_173H_DD_20240801125727.pdf AZTEC_14_23_FED_COM_173H_AC_20240801125727.pdf

Other proposed operations facets description:

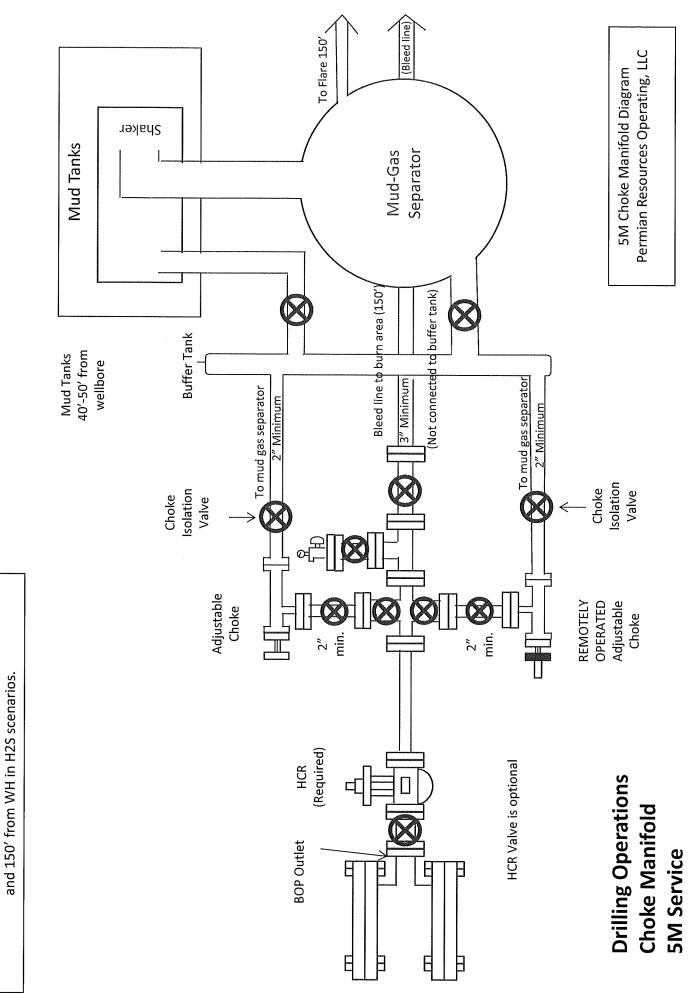
Waste Management Plan, R-111-Q Drilling Design

Other proposed operations facets attachment:

Aztec_14_23_Fed_Com_R_111Q_20240801094425.pdf Aztec_NGMP_20240801094444.pdf Aztec_14_23_Fed_Com_173_WBD_20240801173309.pdf

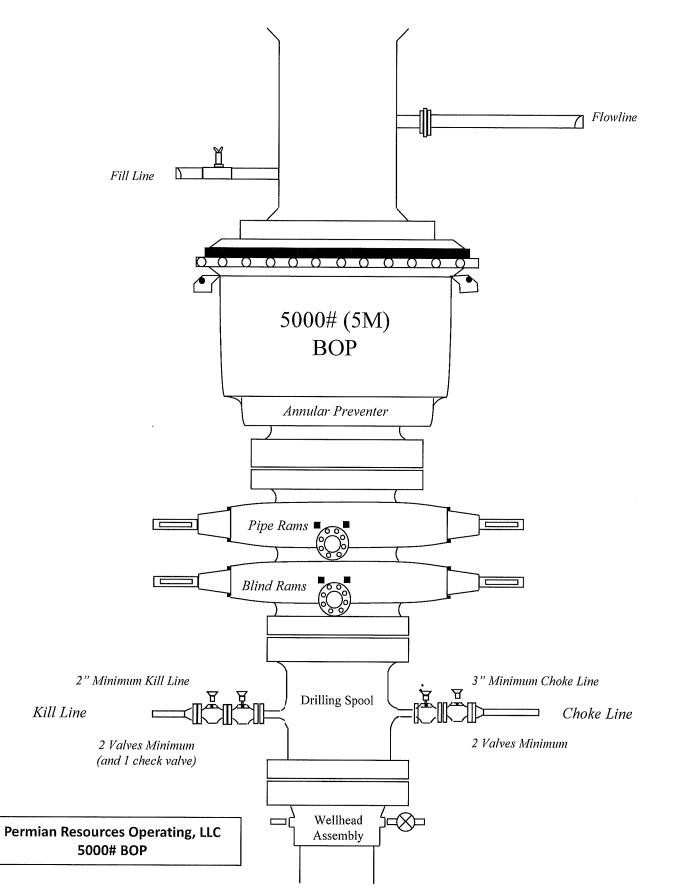
Other Variance attachment:

Aztec_BOP_Break_20240801094119.pdf Aztec_Fed_Batch_20240801094134.pdf Aztec_Fed_FH_20240801094226.pdf Aztec_Fed_MBS_20240801094242.pdf Aztec_Fed_OLCV_20240801094258.pdf



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Bleed lines will discharge 100' from WH in non-H2S scenarios



Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.

•

etal One Corp.	MO-FX			MO-FXL 8-	
			CDS#	P110H	
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110H		000	MinYS1	
	Min95%W			Min959	
	Connection Da	ta Sheet	Date	8-Sep	-21
	Geometry	Imperia	1	<u>S.I.</u>	
	Pipe Body				
	Grade *1	P110HSCY		P110HSCY	
	MinYS *1	125	ksi	125	ksi
	Pipe OD (D)	8 5/8	in	219.08	mm
MO-FXL	Weight	32.00	lb/ft	47.68	kg/m
	Actual weight	31.10		46.34	kg/m
	Wall Thickness (t)	0.352	in	8.94	mm
	Pipe ID (d)	7.921	in	201.19	mm
	Pipe body cross section	9.149	in ²	5,902	mm ²
	Drift Dia.	7.796	in	198.02	mm
	-	-	-	-	-
	Connection				
	Box OD (W)	8.625	in	219.08	mm
\leftarrow	PIN ID	7.921	in	201.19	mm
	Make up Loss	3.847	in	97.71	mm
Box	Box Critical Area	5.853	in ²	3686	mm ²
area	Joint load efficiency	69	%	69	%
	Thread Taper	1	/ 10 (1.	2" per ft)	
	Number of Threads		5	TPI	
P C	Performance	o fos Dino Do du			
P C	Performance Propertie		_	5.097	LN
φ ζ	 Performance Propertie S.M.Y.S. *1 	1,144	kips	5,087	<u>kN</u>
Pin	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 		kips psi	66.83	MPa
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 	1,144 9,690 4,300	kips psi psi	66.83 29.66	MPa MPa
Pin	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe 	1,144 9,690 4,300 cified Minimum YIE	kips psi psi LD Stre	66.83 29.66 ngth of Pipe boo	MPa MPa
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek	kips psi psi LD Stre Pressu	66.83 29.66 ngth of Pipe box re of Pipe body	MPa MPa ^{dy}
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek S125ksi, Min95%V	kips psi psi ELD Stre d Pressu VT, Colla	66.83 29.66 ngth of Pipe box re of Pipe body	MPa MPa ^{dy}
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min *1: BMP P110HSCY: MinY 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek S125ksi, Min95%V	kips psi psi LD Stre d Pressu VT, Colla n	66.83 29.66 ngth of Pipe box re of Pipe body	MPa MPa ^{dy}
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min *1: BMP P110HSCY: MinY Performance Propertie 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek \$125ksi, Min95%V s for Connectio	Kips psi psi ELD Stre d Pressu VT, Colla n (69%	66.83 29.66 ngth of Pipe body re of Pipe body spse Strength 4,	MPa MPa ^{dy}
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min *1: BMP P110HSCY: MinY Performance Propertie Tensile Yield load 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek \$125ksi, Min95%V s for Connectio 789 kips 789 kips	Kips psi psi ELD Stre d Pressu VT, Colla n (69% (70%	66.83 29.66 ngth of Pipe body opse Strength 4, of S.M.Y.S.) of S.M.Y.S.)	MPa MPa dy 300psi
Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min *1: BMP P110HSCY: MinY Performance Propertie Tensile Yield load Min. Compression Yield Internal Pressure External Pressure 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek \$125ksi, Min95%V s for Connectio 789 kips 789 kips	kips psi psi ELD Stre d Pressu VT, Colla n (69% (70% 100% (66.83 29.66 ngth of Pipe body apse Strength 4, of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy 300psi
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Pin critical	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Spe M.I.Y.P. = Min *1: BMP P110HSCY: MinY Performance Propertie Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti. 	1,144 9,690 4,300 cified Minimum YIE imum Internal Yiek \$125ksi, Min95%V s for Connectio 789 kips 6,780 psi 6,780 psi 13,600 14,900	kips psi psi ELD Street Pressu VT, Colla n (69%) (70%) 100% (70%) ft-lb	66.83 29.66 ngth of Pipe body ipse Strength 4, of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 9 18,400 20,200	MPa MPa Jy 300psi
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Metal One	Pipe Body: SeAH P110RY(SMYS110 Coupling: P110CY (SMYS Connection Data Geometry Pipe Body Grade *1 SMYS	S110ksi)	Date Rev.	SC-CplgOD	A AFA DI LAON		
	Connection Data Geometry Pipe Body Grade "1	Sheet		29-Sep-21			
	Geometry Pipe Body Grade "1		Rev.	29-			
	Pipe Body Grade *1	Impe			0		
GEOCONN-SC	Grade *1		rial	<u>S.</u>	<u>I.</u>		
GEOCONN-SC		CANU DI 100V		CANU DI 100V			
GEOCONN-SC		SeAH P110RY 110	ksi	SeAH P110RY 110	ksi		
GEOCONN-SC	Pipe OD (D)	5,500		139.70			
0200011100	Weight	20.00	in Ib/ft	29.80	mm kg/m		
	Wall Thickness (t)	0.361	in	9.17	mm		
	Pipe ID (d)	4,778	in	121.36	mm		
Wsc1	Drift Dia.	4.653	in	118.19	mm		
- D	Connection		lue!		luni.		
	Coupling SMYS	110 6.050	ksi	110	ksi		
I §	Coupling OD (Wsc1)	8.350	in	153.67 212.09	mm		
3	Coupling Length (NL) Make up Loss	4.125	in	104.78	mm		
- E	Pipe Critical Area	5.83	in ²	3,760	mm ²		
	Box Critical Area	6.00	in ²	3,874			
8	Thread Taper	0.00		3/4" per ft)	mm²		
	Number of Threads			TPI			
	Number of Threads						
	Performance Performance Properties for Pip	Imperial be Body		<u>S.</u>	<u>I.</u>		
	S.M.Y.S.	641	kips	2,852	kN		
2 Z	M.I.Y.P. *1	13,720	psi	94.62	MPa		
	Collapse Strength	11 100		70.55			
2	-	11,100 fied Minimum YIELD			MPa		
N	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co	fied Minimum YIELD num Internal Yield Pro si), Min Wall Thickne connection	Strength of Pipe essure of Pipe b ess of Pipe Body	e body oody y: 95% of Nom wall	MPa		
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~	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure	fied Minimum YIELD num Internal Yield Pri si), Min Wall Thickne onnection	Strength of Pipe essure of Pipe Body 100% 100% 100% of M.I.1 100% of Colla	of S.M.Y.S. of S.M.Y.S. of S.M.Y.S. of S.M.Y.S. Y.P. pse Strength	MPa		
•••••••••••••••••••••••••••••••••••••••	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co Min. Connection Joint Strength Min. Compression Yield Internal Pressure	fied Minimum YIELD num Internal Yield Pri si), Min Wall Thickne onnection	Strength of Pipe essure of Pipe Body 100% 100% 100% of M.I.1 100% of Colla	e body xody y: 95% of Nom wall of S.M.Y.S. of S.M.Y.S. Y.P.	MPa		
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•••••••••••••••••••••••••••••••••••••••	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	fied Minimum YIELD num Internal Yield Pri (si), Min Wall Thickne onnection 14,600	Strength of Pipe essure of Pipe Body 100% 100% of M.I.Y 100% of Colla : ft-Ib	a body pody y: 95% of Nom wall of S.M.Y.S. of S.M.Y.S. Y.P. pse Strength ≥90 19,700	N-m		
•••••••••••••••••••••••••••••••••••••••	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	ied Minimum YIELD num Internal Yield Pri isi), Min Wall Thickne connection 14,600 16,200	Strength of Pipe essure of Pipe Body 100% 100% of M.I.Y 100% of Colla ft-lb ft-lb	a body xody y: 95% of Nom wall of S.M.Y.S. of S.M.Y.S. Y.P. pse Strength >90 19,700 21,900	N-m N-m		
-	M.I.Y.P. = Minim *1 Pipe: SeAH P110RY (SMYS110) Performance Properties for Co Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	fied Minimum YIELD num Internal Yield Pri (si), Min Wall Thickne onnection 14,600	Strength of Pipe essure of Pipe Body 100% 100% of M.I.Y 100% of Colla : ft-Ib	a body pody y: 95% of Nom wall of S.M.Y.S. of S.M.Y.S. Y.P. pse Strength ≥90 19,700	N-m		

3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1572	0	1572	1572	J55	54.5	BTC	1.46	1.72	Dry	4.90	Dry	4.59
Intermediate 1	12.25	10.75	0	3784	0	3784	3784	J55	45.5	BTC	7.31	3.77	Dry	3.91	Dry	3.82
Intermediate 2	9.875	8.625	0	5144	0	5144	5144	HCL-80	32	MO-FXL	4.44	1.34	Dry	1.91	Dry	2.77
Production	7.875	5.5	0	11547	0	11086	11547	P110RY	20	GeoConn	1.93	2.01	Dry	1.99	Dry	1.99
Production	7.875	5.5	11547	21912	11086	11086	10365	P110RY	20	GeoConn	1.93	2.01	Dry	1.99	Dry	1.99
								BLM M	in Safe	ety Factor	1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.



H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation Aztec 14 23 Fed Com 171H, 173H, 301H, 302H, 401H, 402H Eddy County, New Mexico

> 07-02-2024 This plan is subject to updating

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Section 1.0 – Introduction

I. Purpose

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

II. Scope & Applicability

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

Section 2.0 - Plan Implementation

I. Activation Requirements

In accordance with the requirements of Bureau of Land Management Onshore Order #6 and NMAC 19.15.11, this Plan shall be activated in advance of any authorized, planned, unplanned, uncontrolled, or unauthorized release of a hazardous volume / concentration of H_2S gas, or SO^2 , which could potentially adversely impact the workers, general public or the environment.

II. Emergency Evacuation

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

III. Emergency Response Activities

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

Section 3.0 - Potential Hazardous Conditions & Response Actions

During a planned or unplanned release of H₂S, there are several hazardous conditions that are presented

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both to employees, the general public, and emergency responders. These specific hazardous conditions are identified in the tables below.

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

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

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

Section 4.0 - Notification of H₂S Release Event

I. Local & State Law Enforcement

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

In the event of the discovery of an unplanned/uncontrolled release of a hazardous concentration of H₂S gas or any associated byproducts of combustion, immediately notify local and/or state law enforcement agencies of the situation and ask for their assistance.

II. General Public

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

III. New Mexico Oil Conservation Division

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

IV. New Mexico Environment Department

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

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Section 5.0 - Emergency Contact List

EMERGENCY CONTACT LIST				
P	PERMIAN RESOURCES CORPORATION.			
POSITION	NAME	OFFICE	CELL	ALT PHONE
	Opera	ations		
Operations Superintendent	Rick Lawson		432.530.3188	
TX Operations Superintendent	Josh Graham	432.940.3191	432.940.3191	
NM Operations Superintendent	Manual Mata	432.664.0278	575.408.0216	
Drilling Manager	Jason Fitzgerald	432.315.0146	318.347.3916	
Drilling Engineer	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	
	.ocal, State, & F	ederal Agen	cies	
Eddy County Sheriff		575-887-7551		911
New Mexico State Highway Patrol		505-757-2297		911
Carlsbad Fire / EMS		575-885-3125		911
Carlsbad Memorial Hospital		575-887-4100		
Secorp – Safety Contractor	Ricky Stephens		(325)-262-0707	
New Mexico Oil Conservation Division – District 1 Office – Hobbs, NM.		575-393-6161		
New Mexico Environment Department – District III Office – Hobbs, NM		575-397-6910		
New Mexico Oil Conservation Division – Hobbs, NM	24 Hour Emergency	575-393-6161		
Bureau of Land Management – Carlsbad, NM		575-706-2779		
Eddy County PET Inspector		575-361-2822		
U.S. Fish & Wildlife		502-248-6911		

Section 6.0 – Drilling Location Information

I. Site Safety Information

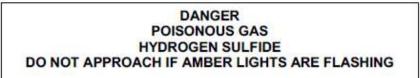
1. Safe Briefing Area

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

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2. Wind Indicators

- a. 4 Windsocks will be installed at strategic points on the facility.
- 3. Danger Signs
 - a. A warning sign indicating the possible well conditions will be displayed at the location entrance.



- <u>H₂S Detectors and Alarms</u>
 - a. Continuous monitoring type H₂S detectors, capable of sensing a minimum of 5ppm H₂S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO₂ detector will also be located at the combustor. The automatic H₂S alarm/flashing light will be located at the site entrance and in front of tank battery.
- 5. Safety Trailer
 - a. A safety trailer equipped with an emergency cascade breathing air system with 2 ea. Work/escape packs, a stretcher, 2 OSHA approved full body harnesses, and a 20# Class ABC fire extinguisher shall be available at the site in close proximity to the safe briefing area. The cascade system shall be able to be deployed to the drill floor when needed to provide safe breathing air to the workers as needed.

6. Well Control Equipment

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

7. Mud Program

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

8. <u>Metallurgy</u>

- a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure.
- 9. Communication
 - a. The location shall be equipped with a means of effective communication such as a cell phones, intercoms, satellite phones or landlines.

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II. Directions to Location

FROM THE INTERSECTION NM-207 AND NM-176 IN EUNICE, NEW MEXICO:

1. MOVE WEST ON NM-176 APPROX. 29 MILES

2. TURN LEFT ONTO BOOTLEG LN AND MOVE SOUTH APPROX. 3241 FEET.

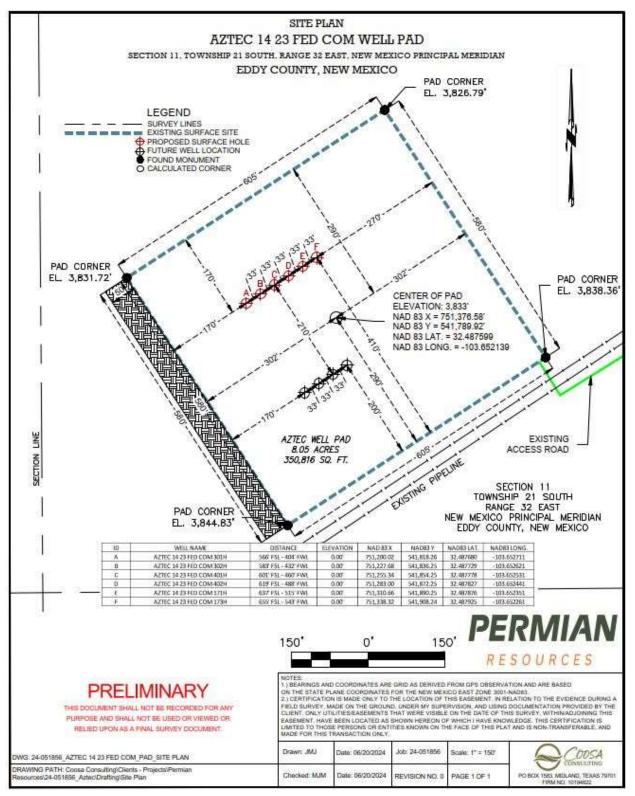
3. KEEP RIGHT ONTO BOOTLEG LN AND MOVE SOUTHWEST APPROX. 2 MILES.

4. TURN RIGHT ONTO LEASE ROAD AND MOVE WEST APPROX. 1100 FEET

TO SOUTHEAST WELL PAD CORNER.

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Plat of Location



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1. Routes of Ingress & Egress (MAP)



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

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

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Map of 3000' ROE Perimeter



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

Enter H ₂ S in PPM	1500	
Enter Gas flow in mcf/day (maximum worst case conditions)	2500	
500 ppm radius of exposure (public road)	<u>105</u>	feet
300 ppm radius of exposure	<u>146</u>	feet
100 ppm radius of exposure (public area)	<u>230</u>	feet

- Location NAD 83 GPS Coordinates *Lat: 32.487599, Long: -103.652139*
- 3. Public Roads in proximity of the Radius of Exposure (ROE)

There are no public roads that would be within the 500 PPM ROE. The closest public road is New Mexico Highway 176, which is 2.5 miles from the location.

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Section 7.0 – Hazard Communication

I. Physical Characteristics of Hydrogen Sulfide Gas

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

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

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

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

Table 7.0. Physical Properties of H₂S

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

Although H₂S is primarily a respiratory hazard, it is also flammable and forms an explosive mixture at concentrations of 4.3%–46.0% (40,000ppm – 460,000 ppm) by volume in air.

H₂S can be encountered when:

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

Table 7.1. Hazards & Toxicity

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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

 H_2S and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide SO₂ is produced as a constituent of flaring H_2S Gas and can present hazards associated, which are similar to H_2S . Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at

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

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

Section 8.0 - Regulatory Information

I. OSHA & NIOSH Information

II. Table 8.0. OSHA & NIOSH H₂S Information

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

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

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

Table 8.1. Calculating H ₂ S Radius of Exposure	

H₂S Radius of Exposure	Description	Control and Equipment Requirements
100 ppm	Distance from a release to where the H_2S concentration in the air will dilute below 100ppm	 ROE > 50-ft and includes any part of a "public area" (residence, school, business, etc., or any area that can be expected to be populated). ROE > 3,000-ft

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500 ppmDistance 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 H₂S release is calculated to determine if a potentially hazardous volume of H₂S gas at 100 or 500 parts per million (ppm) is within a regulated distance requiring further action. If information about the concentration of H₂S and the potential gas release volume is known, the location of the Muster Areas will be set, and safety measures will be implemented based on the calculated radius of exposure (ROE). NMAC 19.15.11 – Hydrogen Sulfide Safety defines the ROE as the radius constructed with the gas's point of escape as its center and its length calculated by the following Pasquill-Gifford equations:

To determine the extent of the **<u>100 ppm ROE</u>**:

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

To determine the extent of the **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 (ft ³ /d) normalized to standard temperature and pressure, 60°F and 14.65 psia
Mole fraction H ₂ S =	Mole fraction of H ₂ S in the gaseous mixture released.

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

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

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

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

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

Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

NMAC 19.15.11 & BLM COMPLIANCE REQUIREMENTS	6 - DRILLI	ING & PRO	DUCTION
PROVISION	CASE 1	CASE 2	CASE 3
H ₂ S Concentration Test	X	X	X
H-9	X	Х	Х
Training	X	X	Х
District Office Notification	X	Х	Х
Drill Stem Tests Restricted	X*	X*	Х
BOP Test	X*	X*	Х
Materials		X	Х
Warning and Marker		X	Х
Security		Х	Х
Contingency Plan			Х
Control and Equipment Safety			Х
Monitors		X**	X**
Mud (ph Control or Scavenger)			X*
Wind Indicators		X**	Х
Protective Breathing Equipment		X**	Х
Choke Manifold, Secondary Remote Control, and Mud-Gas Separator			Х
Flare Stacks			X*

Section 9.0 - Training Requirements

Training

The following elements are considered a minimum level of training for personnel assigned to operations who may encounter H₂S as part of routine or maintenance work.

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

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

Refresher training will be conducted annually.

Section 10.0 - Personal Protective Equipment

I. <u>Personal H₂S Monitors</u>

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

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

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. <u>Respiratory Protection</u>

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

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

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

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

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

Appendix A H₂S SDS

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		_
SECTION 1: Identification		
1.1. Product identifier		
Product form	: Substance	
Name	: Hydrogen suffide	
CAS No	: 7783-06-4	
Formula Other means of identification	: H2S	
Product group	: Hydrogen sulfide : Core Products	
1.2. Recommended use and res Recommended uses and restrictions	industrial use	
Novanimentado ases and restructuris.	Use as directed	
1.3. Supplier		
Praxair Canada inc. 1200 – 1 City Centre Drive Mississauga - Canada L5B 1M2 T 1-905-803-1600 - F 1-905-803-1682 www.praxair.ca		
1.4. Emergency telephone num	ber	
Emergency number	: 1-800-363-0042	
	Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents	
2.1. Classification of the substa GHS-CA classification	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
2.1. Classification of the substa GHS-CA classification Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
Classification of the substa GHS-CA classification Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H336	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
GHS-CA classification Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H335	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
2.1. Classification of the substa GHS-CA classification Flam. Gas 1 Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H335 2.2. GHS Label elements, include	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
2.1. Classification of the substa GHS-CA classification Flam. Gas 1 Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H335 2.2. GHS Label elements, includ GHS-CA labelling	Involving this product. For routine information, contact your supplier or Praxair sales representative.	
2.1. Classification of the substa GHS-CA classification Flam. Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H335 2.2. GHS Label elements. Includ GHS-CA labelling Hazard pictograms	Involving this product. For routine information, contact your supplier or Praxair sales representative.	

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		5010,	502H, 401H,	, 40211	
	PRAXAIR	Hydrogen s Safety Data She	et E-4611 Products Regulation (P		
		Date of issue: 10-15-1979	Revision date: 08	-10-2016 Supersedes: 1	10-15-2013
	8	Avoid releas Wear protect protection Leaking gas In case of lea Store locked Dispose of co Protect from Close valve a	e only outdoors or in e to the environment tive gloves, protective fire: Do not extinguis akage, eliminate all if up ontents/container in i sunlight when ambie after each use and w	e clothing, eye protection, r sh, unless leak can be stopp gnition sources accordance with container i ant temperature exceeds 52 shen empty	Supplier/owner instructions °C (125°F)
		When return	ing cylinder, install le	d to equipment prepared fo sak tight valve outlet cap or	
		Do not deper	nd on odour to detec	t the presence of gas	
	2.3. Other hazards Other hazards not contributing to the	: Contact with	liquid may cause co	ld hume/frosthite	
	classification		inquia may cause co	a banashosibile.	
	2.4. Unknown acute toxicity (GH: No data available	s-GA)			
	SECTION 3: Composition/info	mation on ingredi	ents		
	3.1. Substances				
	Name Hydrogen sulfide	CAS No. (CAS No) 7783-06-4	% (Vol.) 100	Common Name (syn Hydrogen sulfde (H2S) /	onyms) Hydrogen sulphide / Sulfur hydride /
	(Main constituent)	designed an operation of			lydrogen sulphide / Hydrogensulfide
	3.2. Mixtures				
	Not applicable				
	4.1. Description of first aid measure				
	First-aid measures after inhalation	: Remove to fr			le for breathing. If not breathing, innel should give oxygen. Call a
	First-aid measures after skin contact	The liquid ma warm water i skin. Mainta returned to th	not to exceed 105°F in skin warming for a he affected area. In c	(41°C). Water temperature at least 15 minutes or until n	diately warm frostbile area with should be tolerable to normal cormal coloring and sensation have remove clothing while showering soon as possible.
	First-aid measures after eye contact	away from th		y with water for at least 15 that all surfaces are flushe	minutes. Hold the eyelids open and d thoroughly. Contact an
	First-aid measures after ingestion	: Ingestion is r	not considered a pote	ential route of exposure.	
	4.2. Most important symptoms a No additional information available	nd effects (acute and d	elayed)		
	4.3. Immediate medical attention	The Transferred Street and Street Barriers			
	Other medical advice or treatment	: Obtain medic	cal assistance. Treat	with corticosteroid spray at	a soon as possible after inhalation.
	SECTION 5: Fire-fighting meas	sures			
	5.1. Suitable extinguishing medi				
	Suitable extinguishing media	: Carbon dioxi surrounding		ater spray or fog. Use extin	guishing media appropriate for
	5.2. Unsuitable extinguishing me	dia			

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5.3. Specific hazards arising from the h	
Fire hazard	EXTREMELY FLAMMABLE GAS. If venting or leaking gas catches fire, do not extinguish frames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.
Explosion hazard	: EXTREMELY FLAMMABLE GAS. Forms explosive mixtures with air and oxidizing agents.
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Reactivity in case of fire	: No reactivity hazard other than the effects described in sub-sections below.
5.4. Special protective equipment and p	recautions for fire-lighters
Firefighting instructions	: DANGER! Toxic, flammable liquefied gas
	Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.
Special protective equipment for fire fighters	Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Other Information	: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ec	upment and emergency procedures
General measures	: DANGER! Toxic, flammable liquefied gas. Forms explosive mixtures with air and oxidizing agents. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.
6.2. Methods and materials for containing	nent and cleaning up
Methods for cleaning up	: Try to stop release. Reduce vapour with fog or fine water spray. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
6.3. Reference to other sections	
For further information refer to section 8: Ex	posure controls/personal protection
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Leak-check system with scapy water; never use a 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 card (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pr bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this

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Hydrogen sulfide

Safety Data Sheet E-4611 according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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

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

Hydrogen sulfide (7783-06-4	1		
USA - ACGIH	ACGIH TLV-TWA (ppm)	1 ppm	
USA - ACGIH	ACGIH TLV-STEL (ppm)	5 ppm	
USA - OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm	
Canada (Quebec)	VECD (mg/m ²)	21 mg/m ³	
Canada (Quebec)	VECD (ppm)	15 ppm	
Canada (Quebec)	VEMP (mg/m ^a)	14 mg/m³	
Canada (Quebec)	VEMP (ppm)	10 ppm	
Alberta	OEL Ceiling (mg/m ³)	21 mg/m ^a	
Alberta	OEL Ceiling (ppm)	15 ppm	
Alberta	OEL TWA (mg/m ³)	14 mg/m ³	
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/m ^a)	14 mg/m ^a	
New Brunswick	OEL TWA (ppm)	10 ppm	
New Foundland & Labrador	OEL STEL (ppm)	6 ppm	
New Foundland & Labrador	OEL TWA (ppm)	1 ppm	
Nova Scotia	OEL STEL (ppm)	5 ppm	
Nova Scotia	OEL TWA (ppm)	1 ppm	
Nunavut	OEL Ceiling (mg/m²)	28 mg/m*	
Nunavut	OEL Ceiling (ppm)	20 ppm	
Nunavut	OEL STEL (mg/m³)	21 mg/m³	
Nunavut	OEL STEL (ppm)	15 ppm	
Nunavut	OEL TWA (mg/m ^a)	14 mg/m ³	
Nunavut	OEL TWA (ppm)	10 ppm	
Northwest Territories	OEL STEL (ppm)	15 ppm	

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Permian Resources Corporation		n H2S Co	ntingency Plan	Eddy County, New Mexico
			ed Com 171H, 173H,	,,,
)2H, 401H, 402H	
		JUIN, 30	אַנע, אָטַבוו, אָטַבוו, אָטַבוו, אָטַבוו	
	Hydrogen sulfide (7783-0 Northwest Territories Ontario Ontario Prince Edward Island Prince Edward Island Québec Québec Québec Québec	Date of issue: 10-15-1979	E-4611 acts Regulation (February 11, 2015) Revision date: 08-10-2016 Superseden 10 ppm 15 ppm 10 ppm 5 ppm 1 ppm 21 mg/m ³ 15 ppm 14 mg/m ³	s: 10-15-2013
	Saskatchewan	OEL STEL (ppm)	15 ppm	
	Saskatchewan	OEL TWA (ppm)	10 ppm	
	Yukon	OEL STEL (mg/m²)	27 mg/m ³	
	Yukon Yukon	OEL STEL (ppm) OEL TWA (mg/m ²)	15 ppm 15 mg/m ³	
	Yukon	OEL TWA (ngm)	10 ppm	
	ACCESSION OF CONTRACTOR OF THE OWNER OWNER OF THE OWNER			
		neering controls	sistant enuinment. Lice an evolucion proc	f local exhaust sustem Local
	Appropriate engineering con 8.3. Individual protect	trols : Use corrosion-re exhaust and gen (GENERAL): Ina lighting. tion measures/Personal protective equ		t exposure standards. MECHANICAL
	Appropriate engineering con 8.3. Individual protect Personal protective equipment	trols : Use corrosion-re exhaust and gen (GENERAL): Ina lighting. tion measures/Personal protective equ ent : Safety glasses. F	eral ventilation must be adequate to mee dequate - Use only in a closed system inpment Face shield. Gloves.	exposure standards. MECHANICAL . Use explosion proof equipment and
	Appropriate engineering con 8.3. Individual protect	itrols : Use corrosion-re exhaust and gen (GENERAL): Ima lighting. Ition measures/Personal protective equ ent : Safety glasses. F : Wear work glove product may occ : Wear goggles an	eral ventilation must be adequate to mee dequate - Use only in a closed system speed. Face shield, Gloves. s when handling containers. Wear heavy ur. d a face shield when transfilling or break	exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in
	Appropriate engineering con 5.3. Individual protect Personal protective equipment Hand protection Eye protection	itrols : Use corrosion-re exhaust and gen (GENERAL): Ina lighting. tion measures/Personal protective equ ent : Safety glasses. F : Wear work glove product may occ : Wear goggles an accordance with any provincial re	eral ventilation must be adequate to mee dequate - Use only in a closed system spectrum face shield, Gloves. The system of the system with the current CSA standard 294.3, "Industr gulations, local bylaws or guidelines,	exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in fail Eye and Face Protection", and
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	Appropriate engineering con 5.3. Individual protect Personal protective equipment Hand protection Eye protection	titols : Use corrosion-re exhaust and gen (GENERAL): Ima lighting. tion measures/Personal protective equ ent : Safety glasses. F Wear work glove product may occ : Wear goggles an accordance with any provincial re : Respirators pro in confined space Select in accords based on the cun Respirators shou unknown exposu : Wear cold insula	eral ventilation must be adequate to mee dequate - Use only in a closed system upment Face shield, Gloves. The system of the system system of the system system of the system system of the system of the system of the system a face shield when transfilling or break the current CSA standard 294.3, "Industr guilations, local bylaws or guidelines. tection: Use respirable fume respirator of a rewith provincial regulations, local byla rent CSA standard 294.4, "Selection, Can and also be approved by NIOSH and MSH rene levels, use a self-contained breathing; ting gloves when transfilling or breaking t	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. was or guidelines, Selection should be re, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA).
	Appropriate engineering con 8.3. Individual protect Personal protective equipme Hand protection Eye protection Respiratory protection	titols : Use corrosion-re exhaust and gen (GENERAL.): Ina lighting. tion measures/Personal protective equ ent : Safety glasses. F : Wear work glowe product may occ : Wear goggles an accordance with any provincial re : Respiratory pro in confined space Select in accorda based on the cur Respirators shou unknown exposu : Wear cold insula 511 - Cold insula 511 - Cold insula	eral ventilation must be adequate to mee dequate - Use only in a closed system upment Face shield, Gloves. The system of the system system of the system system of the system system of the system of the system of the system a face shield when transfilling or break the current CSA standard 294.3, "Industr guilations, local bylaws or guidelines. tection: Use respirable fume respirator of a rewith provincial regulations, local byla rent CSA standard 294.4, "Selection, Can and also be approved by NIOSH and MSH rene levels, use a self-contained breathing; ting gloves when transfilling or breaking t	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. was or guidelines. Selection should be e, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA). ransfer connections. Standard EN ustomer sites. Metatarsal shoes and ing plants. Select in accordance with nd any provincial regulations, local
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	Appropriate engineering con 8.3. Individual protect Personal protective equipment Hand protection Eye protection Respiratory protection Thermal hazard protection Other information.	titols : Use corrosion-re exhaust and gen (GENERAL): Ima lighting. tion measures/Personal protective equ ent : Safety glasses. F Wear work glove product may occ : Wear goggles an accordance with any provincial re : Respiratory pro In confined space Select in accorda based on the cur Respirators shou unknown exposu : Wear cold insula 511 - Cold insula : Other protection cuffless trousers the current CSA bytaws or guideli frame resistant a	eral ventilation must be adequate to mee dequate - Use only in a closed system upment Face shield. Gloves. Tace shield. Gloves. when handling containers. Wear heavy ur. d a face shield when transfilling or break the current CSA standard Z94.3, "Industr guilations, local bylaws or guidelines. tection: Use respirable fume respirator of a or where local exhaust or ventiliation do are when plocal exhaust or ventiliation on ance with provincial regulations, local byla rent CSA standard Z94.4, "Selection, Car id also be approved by NIOSH and MSH re levels, use a self-contained breathing th ting gloves. n : Safety shoes for general handling at c for cylinder handling at packaging and fill standard Z195, "Protective Foot Wear", a mes. For working with fiammable and oxid	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. was or guidelines. Selection should be e, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA). ransfer connections. Standard EN ustomer sites. Metatarsal shoes and ing plants. Select in accordance with nd any provincial regulations, local
	Appropriate engineering con 8.3. Individual protect Personal protective equipment Hand protection Eye protection Respiratory protection Thermal hazard protection Other information.	trols : Use corrosion-re exhaust and gen (GENERAL): Ima lighting. tion measures/Personal protective equ ent : Safety glasses. F : Wear work glove product may occ : Wear goggles an accordance with any provincial re : Respiratory pro in confined space Select in accord based on the cur Respiratory pro in confined space Select in accord based on the cur Respiratory pro unknown exposu : Wear cold insula 511 - Cold insula : Other protection cuffies trousers the current CSA. bylaws or guideli frame resistant a	eral ventilation must be adequate to mee dequate - Use only in a closed system upment Face shield. Gloves. Tace shield. Gloves. when handling containers. Wear heavy ur. d a face shield when transfilling or break the current CSA standard Z94.3, "Industr guilations, local bylaws or guidelines. tection: Use respirable fume respirator of a or where local exhaust or ventiliation do are when plocal exhaust or ventiliation on ance with provincial regulations, local byla rent CSA standard Z94.4, "Selection, Car id also be approved by NIOSH and MSH re levels, use a self-contained breathing th ting gloves. n : Safety shoes for general handling at c for cylinder handling at packaging and fill standard Z195, "Protective Foot Wear", a mes. For working with fiammable and oxid	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. was or guidelines. Selection should be e, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA). ransfer connections. Standard EN ustomer sites. Metatarsal shoes and ing plants. Select in accordance with nd any provincial regulations, local
	Appropriate engineering con 8.3. Individual protect Personal protective equipme Hand protection Eye protection Respiratory protection Thermal hazard protection Other information SECTION 9: Physical 9.1. Information on b Physical state Appearance	titols : Use corrosion-re exhaust and gen (GENERAL.): Ina lighting. tion measures/Personal protective equ ent : Safety glasses. F Wear work glove product may occ Wear goggles an accordance with any provincial re Respirators pro In confined space Select in accords based on the cur Respirators shou Respirators shou Respirators shou Respirators shou Respirators shou Respirators shou Respirators and based on the cur Respirators and based on the cur Respirators and cuffless trousers the current CSA bylaws or guideli flame resistant an and chemical properties : Gas : Colorless gas. C	eral ventilation must be adequate to mee dequate - Use only in a closed system upment Face shield. Gloves. Tace shield. Gloves. when handling containers. Wear heavy ur. d a face shield when transfilling or break the current CSA standard Z94.3, "Industr guilations, local bylaws or guidelines. tection: Use respirable fume respirator of a or where local exhaust or ventiliation do are when plocal exhaust or ventiliation on ance with provincial regulations, local byla rent CSA standard Z94.4, "Selection, Car id also be approved by NIOSH and MSH re levels, use a self-contained breathing th ting gloves. n : Safety shoes for general handling at or for cylinder handling at packaging and fill standard Z195, "Protective Foot Wear", a mes. For working with fiammable and oxid	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. ws or guidelines, Selection should be e, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA). ransfer connections. Standard EN ustomer sites. Metatarsal shoes and ing plants. Select in accordance with nd any provincial regulations, local tizing materials, consider the use of
	Appropriate engineering con 8.3. Individual protect Personal protective equipme Hand protection Eye protection Respiratory protection Thermal hazard protection Other information SECTION 9: Physical 9.1. Information on b Physical state Appearance Molecular mass	thols : Use corrosion-re- exhaust and gen (GENERAL.): Ina lighting. tion measures/Personal protective equ ent : Safety glasses. F Wear work glove product may occ Wear goggles an accordance with any provincial re- in confined space Select in accords based on the cur Respiratory pro in confined space Select in accords based on the cur Respirators shou unknown exposu : Wear cold insula 511 - Cold Insula 511 - Cold Insula : Other protection culfiles trousers the curent CSA bylaws or guideli flame resistant at cold chemical properties : Gas : Colorless gas, C : 34 g/mol	eral ventilation must be adequate to mee dequate - Use only in a closed system spread face shield. Gloves: (a) a close state of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of	t exposure standards. MECHANICAL Use explosion proof equipment and rubber gloves where contact with ing transfer connections. Select in ial Eye and Face Protection", and r air supplied respirator when working as not keep exposure below TLV. ws or guidelines, Selection should be e, and Use of Respirators." A. For emergencies or instances with apparatus (SCBA). ransfer connections. Standard EN ustomer sites. Metatarsal shoes and ing plants. Select in accordance with nd any provincial regulations, local tizing materials, consider the use of
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	301H, 302H, 401H, 402H	

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Hydrogen sulfide Safety Data Sheet E-4611

according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

pH	: Not applicable.
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: -86 °C
Freezing point	: -82.9 °C
Boiling point	: -60.3 °C
Flash point	: Not applicable.
Critical temperature	: 100.4 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: No data available
Vapour pressure	: 1880 kPa
Vapour pressure at 50 °C	: No data available
Critical pressure	: 8940 kPa
Relative vapour density at 20 °C	: >#
Relative density	: No data available
Relative density of saturated gas/air 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
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Flammability (solid, gas)	: 4.3 - 46 vol %
9.2. Other information	

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

10.1. Reactivity	
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: May react violently with oxidants. Can form explosive mixture with air.
Conditions to avoid	Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces - No smoking.
Incompatible materials	: Ammonia. Bases. Bromine pentafluoride, Chlorine trifluoride, chromium trioxide. (and heat). Copper. (powdered). Fluorine. Lead. Lead oxide. Mercury. Nitric acid. Nitrogen trifluoride. nitrogen sulfide. Organic compounds. Oxidizing agents. Oxygen difluoride. Rubber. Sodium, (and moisture). Water.
Hazardous decomposition products	: Thermal decomposition may produce : Sulfur. Hydrogen.
SECTION 11: Toxicological info 11.1. Information on toxicological e	
Acute toxicity (oral)	: Not classified

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Hydrogen sulfide Safety Data Sheet E-4611

ccording to the Hazardous Products Regulation (February 11, 2015) Date of issue: 10-15-1979 Revision date: 08-10-2016 Supersedes: 10-15-2013

Acute toxicity (inhalation)	: Inhalation:gas: FATAL IF INHALED.	
Hydrogen sulfide (\f)7783-06-4		
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)	
LC50 inhalation rat (ppm)	356 ppm/4h	
ATE CA (gases)	356.0000000 ppmv/4h	
ATE CA (vapours)	0.99000000 mg/V4h	
ATE CA (dust,mist)	0.99000000 mg/l/4h	
Serious eye damage/irritation	pH: Not applicable. : Not classified pH: Not applicable.	
Respiratory or skin sensitization	: Not dassified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: MAY CAUSE RESPIRATORY IRRITATION.	
Specific target organ toxicity (repeated exposure)	: Not classified	

Aspiration hazard

: Not classified

12.1. Toxicity	
Ecology - general	: VERY TOXIC TO AQUATIC LIFE.
Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus (flow-through))
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales prometas [flow-through])
12.2. Persistence and degradabili	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.
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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	PRAXAIR Safet	gio die mazardoo Produco negadadan (Peninary 11, 2010)	x 10-15-2013
	SECTION 13: Disposal consideratio	ns	
	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		
	UNING (TDC)	: UN1053	
	UN-No. (TDG) 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 Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: Forbidden r : Forbidden	
	14.3. Air and sea transport		
	IMDG		
	UN-No. (IMDG)	: 1053	
	Proper Shipping Name (IMDG)	: HYDROGEN SULPHIDE	
	Class (IMDG) MFAG-No	: 2 - Gases : 117	
	IATA	2-300C	
	UN-No. (IATA)	: 1053	
	Proper Shipping Name (IATA)	: Hydrogen sulphide	
	Class (IATA)	: 2	
	SECTION 15: Regulatory informatio	n)	
	15.1. National regulations		
	Hydrogen sulfide (7783-06-4) Listed on the Canadian DSL (Domestic Substa	ances List)	
	15.2. International regulations		
	Hydrogen sulfide (7783-05-4) Listed on the AICS (Australian Inventory of Ch	emical Substances)	
	Listed on IECSC (Inventory of Existing Chemic	cal Substances Produced or Imported in China) an Inventory of Existing Commercial Chemical Substances) v Chemical Substances) inventory i List) hemicals micals and Chemical Substances) tances Control Act) inventory	
	SECTION 16: Other information		
	Date of issue Revision date	: 15/10/1979 - 10/08/2016	
	Revision date Supersedes	: 10/08/2016 : 15/10/2013	
	1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		

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			Eddy County, New Mexico
		Aztec 14 23 Fed Com 171H, 173H,	
		301H, 302H, 401H, 402H	
	PRAXAIR	according to the Hazardous Products Regulation (February 11, 2015)	s: 10-15-2013
Other information	Other information	: When you mix two or more chemicals, you can create add and evaluate the safety information for each component b Consult an industrial hygienist or other trained person who	sefore you produce the mixture.
		Before using any plastics, confirm their compatibility with the Praxair asks users of this product to study this SDS and be and safety information. To promote safe use of this produ agents, and contractors of the information in this SDS and and safety information, (2) furnish this information to each each purchaser to notify its employees and customers of information.	vecome aware of the product hazards ct, a user should (1) notify employees, f of any other known product hazards n purchaser of the product, and (3) ask
		The opinions expressed herein are those of qualified expe- believe that the information contained herein is current as Since the use of this information and the conditions of use Canada Inc, it is the user's obligation to determine the core Praxair Canada Inc, SDSs are furnished on sale or delive independent distributors and suppliers who package and SDSs for these products, contact your Praxair sales repre supplier, or download from www.praxair.ca. If you have qu would like the document number and date of the latest SD Praxair suppliers in your area, phone or write Praxair Can Address; Praxair Canada Inc, 1 City Centre Drive, Suite 1	of the date of this Safety Data Sheet. a are not within the control of Praxair nditions of safe use of the product. ry by Praxair Canada Inc, or the sell our products. To obtain current resentative, local distributor, or uestions regarding Praxair SDSs, DS, or would like the names of the ada Inc. (Phone: 1-888-257-5149; 200, Mississauga, Ontario, L5B 1M2).
		PRAXAIR and the Flowing Airstream design are trademai Technology, Inc. in the United States and/or other countri	
	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.	\sim
	HMIS III Rating		
	Health	: 2 Moderate Hazard - Temporary or minor injury may occu	
	Flammability	: 4 Severe Hazard - Flammable gases, or very volatile flam 73 F, and boiling points below 100 F. Materials may ignite	
	Physical	2 Moderate Hazard - Materials that are unstable and may normal temperature and pressure with low risk for explosi 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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EN (English)

SDS ID : E-4611

Permian Resources Corporation	H ₂ S Contingency Plan	Eddy County, New Mexico
	Aztec 14 23 Fed Com 171H, 173H,	
	301H, 302H, 401H, 402H	

Appendix B SO₂ SDS



Safety Data Sheet

al Name: SULFUR DIOXIDE	SDS ID: MAT222
Section 1 - PRODUCT AND COMPANY	IDENTIFICATION
Material Name	and the second
SULFUR DIOXIDE	
Synonyms	
MTG MSDS 80; SULFUROUS ACID ANHYDRIDE; SULFUROUS O	요즘 집에 가장 전에 다 물건을 한 물건을 다 다 가지 않는 것 같아. 말 집에 가지 않는 것 같아.
SULFUROUS ANHYDRIDE; FERMENTICIDE LIQUID; SULFUR DI	OXIDE(SO2); SULFUR OXIDE;
SULFUR OXIDE(SO2)	
Chemical Family	
inorganic, gas	
Product Description	
Classification determined in accordance with Compressed Gas Association Product Use	on standards.
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)	
	IC LTION
Section 2 - HAZARDS IDENTIF	
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)	
Symbol(s)	
$\wedge \wedge \wedge$	
ET A.A	
V V V	
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	Le:
of 9 Issue date: 2021-01-30 Revisi	on 8.0 Print date: 2021-01-
ISSUE CALE. ZUZI-(1-31) REVISE	on o.u Print date: 2021-01-

Permian Resources CorporationH2S Contingency PlanEddy County, New MexicoAztec 14 23 Fed Com 171H, 173H,
301H, 302H, 401H, 402H301H, 302H, 401H, 402H



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.

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

Inhalation

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

Skin

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

Eyes

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

Ingestion

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

Most Important Symptoms/Effects

Acute

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

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.

Page 2 of 9

Issue date: 2021-01-30 Revision 8.0

Print date: 2021-01-30

SDS ID: MAT22290

Aztec 14 23 Fed Com 171H, 173H, 301H, 302H, 401H, 402H	

Safety Data Sheet

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SCHOLO - EAFUSURE CUNTRULS / FERSUNAL FRUITE HUN		8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Sulfur dioxide	7446-09-5	
ACGIH:	0.25 ppm STEL	

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Permian Resources Corporation	H ₂ S Contingency Plan	Eddy County, New Mexico	1
	Aztec 14 23 Fed Com 171H, 173H,		1
	301H, 302H, 401H, 402H		



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

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SDS ID: MAT22290

Permian Resources Corporation	H ₂ S Contingency Plan	Eddy County, New Mexico
	Aztec 14 23 Fed Com 171H, 173H,	
	301H, 302H, 401H, 402H	



Safety Data Sheet

Mate

290

al Name: SULFUR DI	OKIDE	545 E E E E E	SDS ID: M
Water Solubility	22.8% (@0°C)	Partition coefficient: n- octanol/water	Not available
Viscosity	Not available	Not available	
Solubility (Other)	Not available	Density	Not available
Physical Form	liquified gas	Molecular Formula	S-02
Molecular Weight	64.06		
Solvent Solubility Soluble alcohol, acetic acid, sulf	uric acid, ether, chloroform	n, Benzene, sulfuryl chloride, nitrobo	enzenes, Toluene, acetone
	Section 10 - STAI	BILITY AND REACTIVITY	Y
Will not polymerize. Conditions to Avoid	s Reactions		
Will not polymerize. Conditions to Avoid Minimize contact with n Incompatible Material bases, combustible mate agents Hazardous decomposit	naterial. Containers may ru s rials, halogens, metal carbi	pture or explode if exposed to heat. ide, metal oxides, metals, oxidizing	
Will not polymerize. Conditions to Avoid Minimize contact with n Incompatible Materials bases, combustible mate agents Hazardous decomposit oxides of sulfur	naterial. Containers may ru s rials, halogens, metal carbi ion products Section 11 - TOXIC		materials, peroxides, reducin
Will not polymerize. Conditions to Avoid Minimize contact with n Incompatible Material: bases, combustible mate agents Hazardous decomposit oxides of sulfur Information on Likely Inhalation Toxic if inhaled. Causes Skin Contact skin burns Eye Contact eye burns Ingestion burns, nausea, vomiting, Acute and Chronie Tox Component Analysis -	naterial. Containers may ru rials, halogens, metal carbi ion products Section 11 - TOXIC Routes of Exposure damage to respiratory syst diarrhea, stomach pain cicity LD50/LC50 material have been reviewe 9-5) 5 - 1168 ppm 4 h	ide, metal oxides, metals, oxidizing	materials, peroxides, reducin ON

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ermian Resour	ces Corporati	ion	H ₂ S Contingency Plan	Eddy County, New Mexico
			Aztec 14 23 Fed Com 171H, 173H,	
			301H, 302H, 401H, 402H	
6	CONTRACTOR OF THE PARTY OF THE	IESON Professionals ^{**}	Safety Data Sheet	
Mate	rial Name: SULI			SDS ID: MAT22290
	Delayed Effects		ocation, respiratory tract burns, skin burns, eye burns	
	No information		dverse effects.	
	Irritation/Correspiratory tract		ns, eye burns	
	Respiratory Ser No data availabl			
	Dermal Sensitiz			
	No data availabl Component Ca			
	Sulfur dioxide	7446-09-5		
	ACGIH:	A4 - Not Clas	ssifiable as a Human Carcinogen	
	IARC:	Monograph 5	4 [1992] (Group 3 (not classifiable))	
	Germ Cell Mut No data availabl			
	Tumorigenic D	lata		
	No data availabl Reproductive T			
	No data availabl	le.		
	No target organs		ty - Single Exposure	
	Specific Target No target organs		ty - Repeated Exposure	
	Aspiration haza			
	Not applicable. Medical Condit		ted by Exposure	
	respiratory disor	rders	9 K	
	Comment to		ection 12 - ECOLOGICAL INFORMATION	
	Component An No LOLI ecotox		vailable for this product's components.	
	Persistence and No data availabl			
	Bioaccumulativ	ve Potential		
	No data availabl Mobility	le.		
	No data availabl			
	Disposal Metho	1.0.4.1	ection 13 - DISPOSAL CONSIDERATIONS	
	Dispose of conte	ents/container i	n accordance with local/regional/national/international regulation	ns.
	Component Wa The U.S. EPA ha		d waste numbers for this product's components.	
			ection 14 - TRANSPORT INFORMATION	
	US DOT Inform Shipping Name		OXIDE	

Permian Resources Corporation	H₂S Contingency Pla Aztec 14 23 Fed Com 171 301H, 302H, 401H, 40	H, 173H,
MATHESON askThe Gas Professionals		
	Safety Data Sheet	
Material Name: SULFUR DIOXI Hazard Class: 2.3 UN/NA #: UN1079 Required Label(s): 2.3	DE	SDS ID: MAT22290
IMDG Information: Shipping Name: SULPHUR Hazard Class: 2.3 UN#: UN1079	DIOXIDE	
Required Label(s): 2.3		
		to be identified as dangerous chemicals in
bulk.	Section 15 - REGULATORY INFO	DBMATION
	more of the following chemicals required t ARA Section 313 (40 CFR 372.65), CERC ety plan.	
Sulfur dioxide 7446-09-5		
SARA 302: 500 lb TP	2	
OSHA (safety): 1000 lb TC	(Liquid)	
SARA 304: 500 lb EPG	'RA RQ	
Gas Under Pressure; Acute to Asphyxiant U.S. State Regulations	CFR 370 Subparts B and C) reporting ca xicity; Skin Corrosion/Irritation; Serious E	ye Damage/Eye Irritation; Simple
	CA MA MN NJ PA	hazardous substances lists:
	CA MA MN NJ PA Yes Yes Yes Yes Yes	
	ater and Toxic Enforcement Act (Propo	sition (5)
	to chemicals including Sulfur dioxide , whi productive harm. For more information go	
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rmian Resources Corporation				H ₂ S Contingency Plan Aztec 14 23 Fed Com 171H, 173H, 301H, 302H, 401H, 402H						Eddy County, New Mexico				
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Ma	terial Na	0.05265255		ACC 1965 10	504-0-5				7				SDS ID: N	IAT22290
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		ro/Dev.	e verg	1992/06/19	•1000/11/10	122103001	y, 11	29/201	1					
	Sulf	ur dioxi	ide (7	446-09-	-5)	5	ican			w.n.				
	US	CA	AU	CN	EU	JP - El	NLS	JP - I	SHL		KECI - Annex 1		CI - Annex 2	
	Yes	DSL	res	Yes	EIN	Yes		Yes		Yes		No		
	KR -	REAC	H CC	A MD	K NZ	PH	TH	-TECI	TW,	CN	VN (Draft)			
	No			Ye	s Ye	Yes	Ye	s	Yes		Yes			
						Section	on 1	6 - 0	THEF	UN	FORMATIC	ON		
	SDS Key ACC Aust Calif Com (US) Deut DSL Euro Com Envi Expc Asso Imm Indu Kow Exisi Exisi - Ko LLV Com Exisi - Ko Su Su Su Su Su Su Su Su Su Su Su Su Su	tralia; Bi fornia/M prehens;); CLP - tsche Fo - Dome opean In mercial irronmen osure In ociation; ediately strial Sa v - Octar ting Cho rea Regi v - Octar ting Cho rea Regi v - Level centratic tional To nissible	: 02/10 merica OD - 1 Aassac Sive Er - Classs orschu estic S vwentooi uestic S vwentooi to Chen atal Pro- dices) ; ICAO y Dang afety a nol/wa emical gistratii (istratii rive Pro- e Scen xicolo Expos	2016 an Conf Biocher husetts nvironn ificatio ngsgem ubstand ry of (E nical Su otection ; IARC D - Inter gerous t and Hea tter part ls List (ls List (on and l t Value tue in th otection et Regis gy Prog sure Lin	mical O /Minnen nental I n, Labe einschi- ces List xisting ibstance - Inten- mation o Life a Ith Law ition co KECL) KECL Evaluar ; LOLI te Worl a Agence stry; No gram; N nit; PH	sota/Ne Respons Illing, au aft; DOT ; EC – I Commo es; ENC es; es; ENC es; es; es; es; es; es; es; es; es; es;	Dema w Jere e, Co ad Pa F - D Europ Percial S - J Euro Age: Avia Ith; I IID - 1 tt; KI IID - 1 tt; KI ECI / Kore Chem Of LIS SH - 1 Quan w Zer ppines	nd; C - sey/Per mpensa ckaging epartma eean Co Chemia apan E: pean U necy for MDG - Internat & KECI Annex 2 a; LDS ical Su ts TM - (- Maxi Nationa titative: iland; C; ; RCR.	Celsiu unsylva ation, a g; CN - ent of T mmiss cal Sul cisting Incera ganizat Interna- tional U Annes 2 - Kor 0/LC5(bstance ChemA mm E d Institi NSL - 0/SHA - Res	s; C/ nnia* nnd Li Chin Franssion; I bostan P - Fa tech or tion; i ations Jnifo c 1 - D - Le s Ch Jnifo c 1 - D - Sa s Ch DVII Expose ute fi - Nor - Occe Source	A - Canada; CA; CAS - Chemic iability Act; CF na; CPR - Contr portation; DSD EEC - European ces); EINECS - New Chemical Si hhrenheit; F - Br a Cancer; IATA IDL - Ingredien al Maritime Dar rm Chemical In Korea Existing cisting Chemica thal Dose/ Leth emical Control SOR's Regulatc sure Limits; MX or Occupational s-Domestic Sub upational Safety e Conservation	(MA/MN/ al Abstract R - Code of olled Proof - Dangero Economi European Substance Chemicals Is Invento al Concen Act; LEL ory Databas - Mexico Safety an stance Liss y and Heal and Recov	Road Transport; AU - NJ/PA - ts Service; CERCLA - of Federal Regulations bucts Regulations; DFG us Substance Directive; c Community; EIN - Inventory of Existing Inventory; EPA - (for Venezuela Biologi ional Air Transport re List; IDLH - oods; ISHL - Japan Database; JP - Japan; Inventory (KECI) / Ko ry (KECI) / Korea tration; KR REACH CO - Lower Explosive Limi se; MAK - Maximum s; Ne- Non-specific; NF d Health; NJTSR - New t (Canada); NTP - th Administration; PEL ery Act; REACH- 1 Transport; SARA -	cal rea CA it; PA
	Supe	rfund A	mend	iments a	and Rea	uthoriz	ation	Act; Se	e - Sen	ii-qua	antitative; STEL	- Short-te	erm Exposure Limit;	
	e 8 of 9					1.1		-	04:04	20	Revision 8.0		Print date: 20	001 01 00

NEW MEXICO

(SP) LEA AZTEC PROJECT AZTEC 14 23 FED COM 173H

OWB

Plan: PWP0

Standard Planning Report - Geographic

08 July, 2024

Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	Compass NEW MEXICO (SP) LEA AZTEC PROJECT AZTEC 14 23 FED COM 173H OWB PWP0				TVD Ref MD Refe North Re	TVD Reference: MD Reference: North Reference:			Well AZTEC 14 23 FED COM 173H KB @ 3864.0usft KB @ 3864.0usft Grid Minimum Curvature			
Project	(SP) L	EA										
Map System: Geo Datum: Map Zone:	North A	te Plane 1983 merican Datu exico Eastern	m 1983		System D	atum:	N	lean Sea Leve	I			
Site	AZTEC	C PROJECT										
Site Position: From: Position Uncertai	Maı nty:	p 0.0	North Easti usft Slot I	•	541,8	310.66 usft 390.25 usft 3-3/16 "	Latitude: Longitude:			33° 3' 55.241 N 104° 19' 53.504 W		
Well	AZTEC	2 14 23 FED (COM 173H									
Well Position Position Uncertai Grid Convergence		0	.0 usft Ea	orthing: asting: ellhead Ele	vation:	541,908.24 751,338.32	usft Lo	titude: ngitude: ound Level:		32° 29' 16.529 N 103° 39' 8.138 W 3,834.0 usft		
Wellbore	OWB											
Magnetics	Мо	del Name	Sampl	e Date	Declina (°)			Angle °)		trength IT)		
		IGRF200510	12	2/31/2009		7.81		60.47	48,94	0.68911217		
Design	PWP0											
Audit Notes:												
Version:			Phas	se:	PROTOTYPE	Tie	e On Depth:		0.0			
Vertical Section:		De	epth From (T (usft) 0.0	VD)	+N/-S (usft) 0.0	(u	E/-W sft)).0		ection (°) 70.63			
			0.0		0.0	C			10.00			
Plan Survey Tool	Program	n Date	7/8/2024									
Depth From (usft)	Depti (us		y (Wellbore)		Tool Name		Remarks					
1 0.0	21,	912.7 PWP0	(OWB)		MWD OWSG_Rev	/2_ MWD - Si	tar					
Plan Sections												
	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target		
0.0 2,500.0 3,110.5 10,813.9 11,547.6 21,912.7	0.00 0.00 12.21 12.21 90.00 90.00	0.00 0.00 98.97 98.97 179.67 179.67	0.0 2,500.0 3,105.9 10,635.0 11,086.0 11,086.0	0.0 0.0 -10.1 -264.1 -740.7 -11,105.7	0.0 64.0 1,673.3 1,772.3	0.00 0.00 2.00 0.00 12.00 0.00	0.00 0.00 2.00 0.00 10.60 0.00	0.00 0.00 0.00 11.00		FTP-A14 23 FC 17(BHL-A14 23 FC 17(

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Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Company:	NEW MEXICO	TVD Reference:	KB @ 3864.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3864.0usft
Site:	AZTEC PROJECT	North Reference:	Grid
Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									-
0.0		0.00	0.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
100.0 200.0		0.00 0.00	100.0 200.0	0.0 0.0	0.0 0.0	541,908.24 541,908.24	751,338.32 751,338.32	32° 29' 16.529 N 32° 29' 16.529 N	103° 39' 8.138 W 103° 39' 8.138 W
300.0		0.00	200.0 300.0	0.0	0.0	541,908.24 541,908.24	751,338.32	32° 29' 16.529 N 32° 29' 16.529 N	103 ° 39 ° 138 W
400.0		0.00	400.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N 32° 29' 16.529 N	103° 39' 8.138 W
500.0		0.00	500.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
600.0		0.00	600.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
700.0		0.00	700.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
800.0		0.00	800.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
900.0		0.00	900.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,000.0		0.00	1,000.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,400.0		0.00	1,400.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,500.0		0.00	1,500.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,600.0		0.00	1,600.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,700.0		0.00	1,700.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,800.0		0.00	1,800.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
1,900.0		0.00	1,900.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
2,000.0		0.00	2,000.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
2,100.0		0.00	2,100.0	0.0	0.0	541,908.24 541,908.24	751,338.32 751,338.32	32° 29' 16.529 N 32° 29' 16.529 N	103° 39' 8.138 W
2,200.0 2,300.0		0.00 0.00	2,200.0 2,300.0	0.0 0.0	0.0 0.0	541,908.24 541,908.24	751,338.32	32°29'16.529 N 32°29' 16.529 N	103° 39' 8.138 W 103° 39' 8.138 W
2,300.0		0.00	2,300.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N 32° 29' 16.529 N	103° 39' 8.138 W
2,500.0		0.00	2,400.0	0.0	0.0	541,908.24	751,338.32	32° 29' 16.529 N	103° 39' 8.138 W
	uild 2.00	0.00	2,000.0	0.0	0.0	041,000.24	101,000.02	02 20 10.020 1	100 00 0.100 W
2,600.0		98.97	2,600.0	-0.3	1.7	541,907.97	751,340.04	32° 29' 16.526 N	103° 39' 8.118 W
2,700.0		98.97	2,699.8	-1.1	6.9	541,907.15	751,345.21	32° 29' 16.518 N	103° 39' 8.058 W
2,800.0		98.97	2,799.5	-2.4	15.5	541,905.80	751,353.82	32° 29' 16.504 N	103° 39' 7.958 W
2,900.0	8.00	98.97	2,898.7	-4.3	27.5	541,903.90	751,365.86	32° 29' 16.484 N	103° 39' 7.817 W
3,000.0	10.00	98.97	2,997.5	-6.8	43.0	541,901.46	751,381.31	32° 29' 16.459 N	103° 39' 7.637 W
3,100.0	12.00	98.97	3,095.6	-9.8	61.8	541,898.48	751,400.15	32° 29' 16.429 N	103° 39' 7.417 W
3,110.5	12.21	98.97	3,105.9	-10.1	64.0	541,898.14	751,402.32	32° 29' 16.425 N	103° 39' 7.392 W
	703.4 hold a	t 3110.5 MD							
3,200.0		98.97	3,193.4	-13.1	82.7	541,895.19	751,421.03	32° 29' 16.395 N	103° 39' 7.174 W
3,300.0		98.97	3,291.1	-16.4	103.6	541,891.89	751,441.92	32° 29' 16.361 N	103° 39' 6.930 W
3,400.0		98.97	3,388.8	-19.7	124.5	541,888.59	751,462.81	32° 29' 16.327 N	103° 39' 6.686 W
3,500.0		98.97	3,486.6	-22.9	145.4	541,885.29	751,483.70	32° 29' 16.293 N	103° 39' 6.443 W
3,600.0		98.97	3,584.3	-26.2	166.3	541,882.00	751,504.59	32° 29' 16.259 N	103° 39' 6.199 W
3,700.0		98.97	3,682.1	-29.5	187.2	541,878.70	751,525.48	32° 29' 16.225 N	103° 39' 5.956 W
3,800.0		98.97 98.97	3,779.8	-32.8 -36.1	208.0 228.9	541,875.40	751,546.37 751,567.26	32° 29' 16.191 N 32° 29' 16.157 N	103° 39' 5.712 W 103° 39' 5.468 W
3,900.0 4,000.0		98.97 98.97	3,877.5 3,975.3	-30.1	220.9	541,872.10 541,868.81	751,588.15	32° 29' 16.123 N	103° 39' 5.225 W
4,000.0		98.97	4,073.0	-39.4	249.0	541,865.51	751,609.04	32° 29' 16.089 N	103° 39' 4.981 W
4,200.0		98.97	4,170.7	-46.0	291.6	541,862.21	751,629.93	32° 29' 16.055 N	103° 39' 4.737 W
4,300.0		98.97	4,268.5	-49.3	312.5	541,858.91	751,650.82	32° 29' 16.021 N	103° 39' 4.494 W
4,400.0		98.97	4,366.2	-52.6	333.4	541,855.62	751,671.71	32° 29' 15.987 N	103° 39' 4.250 W
4,500.0		98.97	4,464.0	-55.9	354.3	541,852.32	751,692.60	32° 29' 15.953 N	103° 39' 4.006 W
4,600.0		98.97	4,561.7	-59.2	375.2	541,849.02	751,713.49	32° 29' 15.919 N	103° 39' 3.763 W
4,700.0		98.97	4,659.4	-62.5	396.1	541,845.72	751,734.38	32° 29' 15.885 N	103° 39' 3.519 W
4,800.0	12.21	98.97	4,757.2	-65.8	417.0	541,842.43	751,755.27	32° 29' 15.851 N	103° 39' 3.275 W
4,900.0		98.97	4,854.9	-69.1	437.8	541,839.13	751,776.16	32° 29' 15.817 N	103° 39' 3.032 W
5,000.0	12.21	98.97	4,952.7	-72.4	458.7	541,835.83	751,797.05	32° 29' 15.784 N	103° 39' 2.788 W

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Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Dalabase.	Compass	Local Co-orunnale Reference.	WEILAZTEC 14 23 FED COM 1731
Company:	NEW MEXICO	TVD Reference:	KB @ 3864.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3864.0usft
Site:	AZTEC PROJECT	North Reference:	Grid
Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

5,100.0 12.21 98.97 5,050.4 -75.7 479.6 541,822.33 751,817.94 32" 29" 15.761 N 103" 39" 2.345 W 5,200.0 12.21 98.97 5,148.1 -79.0 500.5 541,825 44 751,383.83 32" 29" 15.761 N 103" 39" 2.345 W 5,300.0 12.21 98.97 5,541.4 544.55 44 751,383.81 32" 29" 15.614 N 103" 39" 2.355 W 5,600.0 12.21 98.97 5,536.8 -98.95 541.6 541.680.5 751,992.29 32" 29" 15.614 N 103" 39" 1.968 W 5,600.0 12.21 98.97 5,736.4 -98.6 662.5 541.694.5 751.948.17 72" 29" 15.548 N 103" 39" 0.958 W 5,800.0 12.21 98.97 5,736.0 -105.4 667.6 541.806.15 751.986.16 32" 29" 15.478 N 103" 39" 0.958 W 6,000.0 12.21 98.97 5,330.2 -112.0 771.982.66 752.205.55 32" 29" 15.378 N 103" 39" 0.958 W 6,000.0 12.21 98.97 6,322.2 -	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5.2000 12.21 98.97 5.148.1 -79.0 500.5 541.825.44 751.838.83 32.29 15.76 N 103*39.2.30 TW 5.400.0 12.21 98.97 5.343.5 -85.6 542.3 541.825.44 751.880.61 32*29 15.644 N 103*39 1.314 W 5.500.0 12.21 98.97 5.633.1 -82.2 541.812.75 751.842.38 32*29 15.540 N 103*39 1.328 W 5.600.0 12.21 98.97 5.734.6 -86.8 665.5 541.812.75 751.986.16 32*29 15.540 N 103*39 1.383 W 5.800.0 12.21 98.97 533.0 -105.4 667.6 541.802.86 72.29 15.440 N 103*39 0.556 W 6.000.0 12.21 98.97 533.0 -105.4 667.6 541.802.86 72.29 15.441 N 103*39 0.108 W 6.000.0 12.21 98.97 6418.7 -113.3 733.3 541.798.67 72.20 54.3 32*29 15.342 N 103*39 55.37 W 6.000.0 12.21 98.97 6418.7 -121.9 77.19.67 772.20 54.5										
5,300.0 12.21 98.97 5,245.9 -62.3 521.4 541,822.64 751,860.61 32.29 15.682.N 103' 39' 2.657 W 5,500.0 12.21 98.97 5,543.6 -85.6 5542.3 541,819.34 751,301.50 32' 29' 15.644 N 103' 39' 1.570 W 5,600.0 12.21 98.97 5,538.4 -98.5 605.0 541,1812.75 751,942.38 32' 29' 15.546 N 103' 39' 1.580 W 5,800.0 12.21 98.97 5,734.6 -98.65 605.0 541,182.75 751,942.18 12' 29' 15.546 N 103' 39' 0.589 W 5,800.0 12.21 98.97 5,332.3 -102.1 6467.6 541,809.45 751,206.96 32' 29' 15.444 N 103' 39' 0.58' W 6,000.0 12.21 98.97 6,223.2 -116.3 70.3 541,792.66 752,206.86 J 32' 29' 15.37K N 103' 38' 550.62' W 6,400.0 12.21 98.97 6,212.0 -118.6 751.2 541,798.67 752,208.61 J 32' 29' 15.37K N 103' 38' 56.62' W										
5,000 12:21 98.97 5,413 -98.9 5,413 -98.9 5,413 -98.9 5,413 -98.9 5,413 -98.9 5,413 -98.9 5,418,103 -75.1942.28 22' 2' 15.564 103' 3' 13.26 W 5,000.0 12.21 98.97 5,538.4 -95.2 59.41.805.4 75.1943.28 22' 2' 15.546 103'' 3' 10.33 W 5,000.0 12.21 98.97 5,532.3 -102.1 646.7 541.805.4 75.1985.06 32' 2' 15.478 N 103'' 3' 3' 0.33 W 6,000.0 12.21 98.97 5,032.0 -105.4 667.6 541.802.68 752.026.84 32' 2' 15.478 N 103'' 3' 3' 0.33'' 9' 0.38'' 6,000.0 12.21 98.97 6,272.2 -115.3 730.3 541.792.69 752.047.13''' 3''''''''''''''''''''''''''''''''''''										
6.500.0 12.21 98.97 5.631 95.1 95.2 541.41 541.816.05 751.922.39 32" 29" 15.540 103" 39" 1.360 5.600.0 12.21 98.97 5.744.4 -98.6 625.9 541.810.57 751.982.39 32" 29" 15.512 103" 39" 0.369 5.800.0 12.21 98.97 5.744.4 -98.67 644.6 -641.802.66 752.065.46 32" 29" 15.444 103" 39" 0.399 0.339 0.339 90.035 6.000.0 12.21 98.97 6.225.2 -115.3 730.3 541.796.56 752.086.45 32" 29" 15.376 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 103" 38" 59.87 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
5,600.0 12:21 98.97 5,538.1 -92.2 544.1 544.1812.75 751.943.28 32" 29" 15.546.N 103" 39" 10.83" 39" 10.										
5,000.0 12.21 98.97 5,532.3 -102.1 646.7 541.806.15 751.985.06 32' 29' 15.578 103' 39' 0.536'W 6,000.0 12.21 98.97 5,533.0 -105.4 667.6 541.806.15 752.025.84 32' 29' 15.478 103' 39' 0.352'W 6,100.0 12.21 98.97 6,125.5 -112.0 709.4 541.796.56 752.025.84 32' 29' 15.342'N 103' 38' 59.865'W 6,300.0 12.21 98.97 6,321.0 -116.6 751.2 541.799.67 752.046.82 32' 29' 15.342'N 103' 38' 59.875'W 6,600.0 12.21 98.97 6,516.5 -125.2 793.0 541.783.07 752.112.8 32' 29' 15.274'N 103' 38' 58.860'W 6,700.0 12.21 98.97 6,714.2 -128.5 813.9 541.776.48 752.197.07 32' 29' 15.12'N 103' 38' 58.463 W 6,800.0 12.21 98.97 6,907.4 -138.4 541.776.48 752.218.32'' 29' 15.20'N 103' 38' 58.463 W 7,000.0 12.21 98.97 7.002.9'' -144.7 897.42'' 15.6''' 89''' 752.216.30''N	5,600.0		98.97	5,539.1					32° 29' 15.580 N	103° 39' 1.326 W
5,000.0 12.21 98.97 5,832.3 -102.1 646.7 641.802.86 752.005.95 32' 29' 15.44* 103' 39' 0.352 W 6,000.0 12.21 98.97 6,027.8 -108.7 668.5 541.799.56 752.045.95 32' 29' 15.376 N 103' 38' 99.65W 6,200.0 12.21 98.97 6,223.2 -115.3 730.3 541.792.96 752.046.2 2' 29' 15.326 N 103' 38' 59.63V 6,400.0 12.21 98.97 6,418.7 -121.9 772.1 541.786.37 752.104.0 32' 29' 15.326 N 103' 38' 58.34W 6,600.0 12.21 98.97 6,614.2 -126.5 813.9 541.776.16 752.131.29 32' 29' 15.30K N 103' 38' 58.464 W 6,600.0 12.21 98.97 6,614.2 -126.5 813.9 541.776.16 752.131.29 32' 29' 15.13K N 103' 38' 58.464 W 6,600.0 12.21 98.97 6,609.7 -133.1 856.5 541.776.46 752.131.9 32' 29' 15.13K N 103' 38' 56.742 W 7,000.0 12.21 98.97 7,005.1 -141.7 875.451.483 372.29' 15.167 N				,						
6,000.0 12.21 98.97 5,93.00 -105.4 667.6 541.799.56 752.025.84 32' 29' 15.440 N 103' 39' 0.352 W 6,000.0 12.21 98.97 6,125.5 -112.0 709.4 541.799.56 752.026.84 32' 29' 15.347 N 103' 38' 69.86 W 6,000.0 12.21 98.97 6,310 -116.6 751.2 541.789.67 752.086.12 22' 15.324 N 103' 38' 59.37 W 6,600.0 12.21 98.97 6,516.5 -125.2 733.0 541.783.07 752.11.9 32' 29' 15.240 N 103' 38' 58.469 W 6,600.0 12.21 98.97 6,516.5 -125.2 733.0 541.778.17 752.131.29 32' 29' 15.240 N 103' 38' 58.469 W 6,600.0 12.21 98.97 6,616.5 -125.2 733.0 541.778.17 752.131.29 32' 29' 15.124 N 103' 38' 58.460 W 6,600.0 12.21 98.97 6,809.7 -138.1 855.6 541.776.13 752.131.99 32' 29' 15.104 N 103' 38' 56.403 W 7,000.0										
6,100.0 12,21 98,97 6,027.8 -108.7 688.5 641,799.56 752,047.73 22' 29' 15,342.N 103' 39' 0,108 W 6,200.0 12,21 98.97 6,223.2 -115.3 730.3 641,792.96 752,048.62 32' 29' 15,342.N 103' 38' 59,821 W 6,600.0 12,21 98.97 6,418.7 -121.9 772.1 541,786.7 752,048.61 32' 29' 15,342.N 103' 38' 59,374 W 6,600.0 12,21 98.97 6,614.2 -122.5 733.0 541,780.77 752,131.29 32' 29' 15,206.N 103' 38' 56,840 W 6,600.0 12,21 98.97 6,614.2 -125.5 541,773.18 752,113.93 32' 29' 15,100 N 103' 38' 56,840 W 6,600.0 12,21 98.97 6,007.4 -138.4 856.6 541,779.18 752,218.35' 32' 29' 15,104 N 103' 38' 57,872 W 7,000.0 12,21 98.97 7,005.1 -141.7 887.4 541,769.88 32' 29' 15,037 N 103' 38' 57,422 W 7,000.0 12,21 98.97										
6,200.0 12.21 98.97 6,125.5 -112.0 709.4 641796.26 752.068.62 722 29 15.376.N 103' 38' 59.863 W 6,400.0 12.21 98.97 6,321.0 -118.6 751.2 641789.67 752.068.62 32' 29' 15.340 N 103' 38' 59.377 W 6,600.0 12.21 98.97 6,614.2 -128.5 813.9 541.779.77 752.112.30 32' 29' 15.240 N 103' 38' 58.460 W 6,600.0 12.21 98.97 6,614.2 -128.5 813.9 541.779.77 752.152.18 32' 29' 15.206 N 103' 38' 58.460 W 6,600.0 12.21 98.97 6,610.7 -135.1 855.6 541.776.48 752.178.0 32' 29' 15.070 N 103' 38' 57.464 W 7,000.0 12.21 98.97 7.005.1 -141.7 897.4 541.766.48 752.216.43 32' 29' 15.070 N 103' 38' 57.428 W 7,300.0 12.21 98.97 7.005.1 -448.3 993.2 641.755.9 752.287.44 32' 29' 15.070 N 103' 38' 56.474 W 7,400.0										
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6,400.0 12,21 98.97 6,321.0 -118.6 751.2 541,786.87 752,110.40 32' 29' 15.204 N 103' 38' 59.377 W 6,600.0 12,21 98.97 6,516.5 -125.2 793.0 541,783.07 752,110.40 32' 29' 15.206 N 103' 38' 58.489 W 6,700.0 12,21 98.97 6,614.2 -128.5 813.9 541,777.7 752,152.48 32' 29' 15.206 N 103' 38' 58.480 W 6,800.0 12,21 98.97 6,800.7 -135.1 856.6 541,776.48 752,131.29 32' 29' 15.108 N 103' 38' 57.915 W 7,000.0 12,21 98.97 7,005.1 -414.7 897.4 541,766.38 752,235.74 32' 29' 15.108 N 103' 38' 57.915 W 7,000.0 12,21 98.97 7,005.1 -414.50 918.3 541,766.38 752,235.74 32' 29' 15.003 N 103' 38' 57.915 W 7,000.0 12,21 98.97 7,902.9 -144.50 916.324,753.39 752,236.13 32' 29' 14.696 N 103' 38' 56.496 W 7,000.0 12,21 </td <td></td>										
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8,800.0 12.21 98.97 8,666.7 -197.7 1,252.6 541,710.53 752,590.87 32° 29' 14.493 N 103° 38' 53.530 W 8,900.0 12.21 98.97 8,764.4 -201.0 1,273.4 541,707.23 752,611.76 32° 29' 14.493 N 103° 38' 53.530 W 9,000.0 12.21 98.97 8,862.2 -204.3 1,294.3 541,703.93 752,632.65 32° 29' 14.425 N 103° 38' 53.043 W 9,100.0 12.21 98.97 8,959.9 -207.6 1,315.2 541,700.63 752,653.54 32° 29' 14.391 N 103° 38' 52.795 W 9,200.0 12.21 98.97 9,057.6 -210.9 1,336.1 541,697.34 752,674.43 32° 29' 14.323 N 103° 38' 52.795 W 9,300.0 12.21 98.97 9,155.4 -214.2 1,357.0 541,690.74 752,674.43 32° 29' 14.323 N 103° 38' 52.058 W 9,500.0 12.21 98.97 9,253.1 -217.5 1,377.9 541,690.74 752,716.21 32° 29' 14.220 N 103° 38' 51.581 W 9,600.0 12.21 98.97 9,448.6 -224.1 1,419.7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
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9,800.0 12.21 98.97 9,644.1 -230.7 1,461.5 541,677.55 752,799.77 32° 29' 14.154 N 103° 38' 51.094 W 9,900.0 12.21 98.97 9,741.8 -234.0 1,482.3 541,674.25 752,820.66 32° 29' 14.120 N 103° 38' 50.850 W 10,000.0 12.21 98.97 9,839.6 -237.3 1,503.2 541,670.96 752,841.55 32° 29' 14.086 N 103° 38' 50.606 W 10,100.0 12.21 98.97 9,937.3 -240.6 1,524.1 541,667.66 752,862.44 32° 29' 14.052 N 103° 38' 50.363 W 10,200.0 12.21 98.97 10,035.0 -243.9 1,545.0 541,664.36 752,883.33 32° 29' 14.018 N 103° 38' 50.119 W 10,300.0 12.21 98.97 10,132.8 -247.2 1,565.9 541,661.06 752,904.22 32° 29' 14.018 N 103° 38' 49.875 W 10,400.0 12.21 98.97 10,230.5 -250.5 1,586.8 541,657.77 752,925.11 32° 29' 13.950 N 103° 38' 49.632 W <td></td>										
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10,000.0 12.21 98.97 9,839.6 -237.3 1,503.2 541,670.96 752,841.55 32° 29' 14.086 N 103° 38' 50.606 W 10,100.0 12.21 98.97 9,937.3 -240.6 1,524.1 541,667.66 752,862.44 32° 29' 14.052 N 103° 38' 50.363 W 10,200.0 12.21 98.97 10,035.0 -243.9 1,545.0 541,664.36 752,883.33 32° 29' 14.018 N 103° 38' 50.119 W 10,300.0 12.21 98.97 10,132.8 -247.2 1,565.9 541,661.06 752,904.22 32° 29' 13.984 N 103° 38' 49.875 W 10,400.0 12.21 98.97 10,230.5 -250.5 1,586.8 541,657.77 752,925.11 32° 29' 13.950 N 103° 38' 49.632 W							,			
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COMPASS 5000.17 Build 03

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Company:	NEW MEXICO	TVD Reference:	KB @ 3864.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3864.0usft
Site:	AZTEC PROJECT	North Reference:	Grid
Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth	Inclination		Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
10,600.0		98.97	10,426.0	-257.1	1,628.6	541,651.17	752,966.89	32° 29' 13.882 N	103° 38' 49.144 W
10,700.0		98.97	10,523.7	-260.4	1,649.5	541,647.87	752,987.78	32° 29' 13.848 N	103° 38' 48.901 W
10,800.0		98.97	10,621.5	-263.7	1,670.4	541,644.58	753,008.67	32° 29' 13.814 N	103° 38' 48.657 W
10,813.9		98.97	10,635.0	-264.1	1,673.3	541,644.12	753,011.57	32° 29' 13.809 N	103° 38' 48.623 W
	LS 12.00 TF								
10,825.0		105.07	10,645.9	-264.6	1,675.6	541,643.62	753,013.90	32° 29' 13.804 N	103° 38' 48.596 W
10,850.0		117.50	10,670.2	-266.7	1,680.8	541,641.56	753,019.11	32° 29' 13.784 N	103° 38' 48.536 W
10,875.0 10,900.0		127.75 135.89	10,694.5 10,718.5	-270.0 -274.7	1,686.0 1,691.1	541,638.20 541,633.55	753,024.30 753,029.46	32° 29' 13.750 N 32° 29' 13.704 N	103° 38' 48.475 W 103° 38' 48.415 W
10,925.0		142.30	10,710.3	-280.6	1,696.2	541,627.62	753,034.56	32° 29' 13.645 N	103° 38' 48.356 W
10,950.0		147.39	10,765.6	-287.8	1,701.3	541,620.43	753,039.60	32° 29' 13.573 N	103° 38' 48.298 W
10,975.0		151.48	10,788.6	-296.2	1,706.2	541,611.99	753,044.56	32° 29' 13.489 N	103° 38' 48.241 W
11,000.0		154.84	10,811.2	-305.9	1,711.1	541,602.34	753,049.43	32° 29' 13.394 N	103° 38' 48.185 W
11,025.0	29.65	157.63	10,833.2	-316.8	1,715.9	541,591.49	753,054.19	32° 29' 13.286 N	103° 38' 48.130 W
11,050.0	32.39	160.00	10,854.6	-328.8	1,720.5	541,579.48	753,058.84	32° 29' 13.167 N	103° 38' 48.076 W
11,075.0		162.03	10,875.4	-341.9	1,725.0	541,566.33	753,063.35	32° 29' 13.036 N	103° 38' 48.025 W
11,100.0		163.79	10,895.5	-356.1	1,729.4	541,552.09	753,067.72	32° 29' 12.895 N	103° 38' 47.975 W
11,125.0		165.35	10,914.8	-371.4	1,733.6	541,536.80	753,071.94	32° 29' 12.744 N	103° 38' 47.927 W
11,150.0		166.74	10,933.3	-387.8	1,737.7	541,520.49	753,075.98	32° 29' 12.582 N	103° 38' 47.881 W
11,175.0 11,200.0		167.99 169.12	10,950.9 10,967.7	-405.0 -423.2	1,741.5 1,745.2	541,503.21 541,485.01	753,079.85 753,083.53	32° 29' 12.411 N 32° 29' 12.230 N	103° 38' 47.837 W 103° 38' 47.795 W
11,200.0		170.17	10,987.7	-423.2 -442.3	1,745.2	541,465.94	753,087.01	32° 29' 12.230 N 32° 29' 12.042 N	103° 38' 47.756 W
11,250.0		171.13	10,983.4	-462.2	1,752.0	541,446.05	753,090.29	32° 29' 11.845 N	103° 38' 47.719 W
11,275.0		172.03	11,012.0	-482.8	1,755.0	541,425.40	753,093.34	32° 29' 11.640 N	103° 38' 47.685 W
11,300.0		172.87	11,024.6	-504.2	1,757.9	541,404.03	753,096.17	32° 29' 11.428 N	103° 38' 47.654 W
11,325.0		173.67	11,036.2	-526.2	1,760.5	541,382.02	753,098.77	32° 29' 11.210 N	103° 38' 47.625 W
11,350.0	66.85	174.43	11,046.6	-548.8	1,762.8	541,359.42	753,101.12	32° 29' 10.987 N	103° 38' 47.599 W
11,375.0		175.15	11,055.8	-572.0	1,764.9	541,336.28	753,103.23	32° 29' 10.758 N	103° 38' 47.576 W
11,400.0		175.85	11,063.9	-595.6	1,766.8	541,312.69	753,105.09	32° 29' 10.524 N	103° 38' 47.557 W
11,425.0		176.53	11,070.7	-619.5	1,768.4	541,288.69	753,106.68	32° 29' 10.286 N	103° 38' 47.540 W
11,447.0		177.11	11,075.7	-640.9	1,769.6	541,267.32	753,107.87	32° 29' 10.075 N	103° 38' 47.527 W
	0061261 En			042.0	4 700 7	E44.004.07	752 400 00	20° 001 40 040 N	4008 001 47 500 144
11,450.0 11,475.0		177.19 177.83	11,076.3 11,080.6	-643.9 -668.5	1,769.7 1,770.8	541,264.37 541,239.77	753,108.02 753,109.09	32° 29' 10.046 N 32° 29' 9.802 N	103° 38' 47.526 W 103° 38' 47.515 W
11,500.0		177.03	11,080.0	-693.3	1,771.6	541,239.77	753,109.89	32° 29' 9.557 N	103° 38' 47.508 W
11,525.0		179.10	11,085.5	-718.2	1,772.1	541,190.05	753,110.41	32° 29' 9.310 N	103° 38' 47.504 W
11,547.6		179.67	11,086.0	-740.7	1,772.3	541,167.50	753,110.66	32° 29' 9.087 N	103° 38' 47.502 W
	0365.2 hold		,		.,	,	,		
11,600.0		179.67	11,086.0	-793.2	1,772.6	541,115.06	753,110.96	32° 29' 8.568 N	103° 38' 47.503 W
11,700.0	90.00	179.67	11,086.0	-893.2	1,773.2	541,015.06	753,111.55	32° 29' 7.579 N	103° 38' 47.503 W
11,800.0		179.67	11,086.0	-993.2	1,773.8	540,915.06	753,112.13	32° 29' 6.589 N	103° 38' 47.504 W
11,900.0		179.67	11,086.0	-1,093.2	1,774.4	540,815.06	753,112.71	32° 29' 5.599 N	103° 38' 47.505 W
12,000.0		179.67	11,086.0	-1,193.2	1,775.0	540,715.06	753,113.30	32° 29' 4.610 N	103° 38' 47.506 W
12,100.0		179.67	11,086.0	-1,293.2	1,775.6	540,615.07	753,113.88	32° 29' 3.620 N	103° 38' 47.506 W
12,200.0		179.67	11,086.0	-1,393.2	1,776.1	540,515.07	753,114.47	32° 29' 2.631 N	103° 38' 47.507 W
12,300.0 12,400.0		179.67 179.67	11,086.0 11,086.0	-1,493.2 -1,593.2	1,776.7 1,777.3	540,415.07 540,315.07	753,115.05 753,115.63	32° 29' 1.641 N 32° 29' 0.652 N	103° 38' 47.508 W 103° 38' 47.508 W
12,400.0		179.67	11,086.0	-1,693.2	1,777.9	540,215.07	753,116.22	32° 28' 59.662 N	103° 38' 47.509 W
12,600.0		179.67	11,086.0	-1,793.2	1,778.5	540,115.07	753,116.80	32° 28' 58.673 N	103° 38' 47.510 W
12,700.0		179.67	11,086.0	-1,893.2	1,779.1	540,015.08	753,117.38	32° 28' 57.683 N	103° 38' 47.510 W
12,800.0		179.67	11,086.0	-1,993.2	1,779.7	539,915.08	753,117.97	32° 28' 56.694 N	103° 38' 47.511 W
12,900.0		179.67	11,086.0	-2,093.2	1,780.2	539,815.08	753,118.55	32° 28' 55.704 N	103° 38' 47.512 W
13,000.0		179.67	11,086.0	-2,193.2	1,780.8	539,715.08	753,119.13	32° 28' 54.715 N	103° 38' 47.513 W
13,100.0	90.00	179.67	11,086.0	-2,293.2	1,781.4	539,615.08	753,119.72	32° 28' 53.725 N	103° 38' 47.513 W

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Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Company:	NEW MEXICO	TVD Reference:	KB @ 3864.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3864.0usft
Site:	AZTEC PROJECT	North Reference:	Grid
Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Desian:	PWP0		

Planned Survey

13.2000 90.00 178.67 178.26 53.35,15.00 753,120.30 32.22 FS 2.73.N 103" 38 47,55.10 13.2000 90.00 179.67 11.086.0 -2.63.2 178.25 53.34,15.09 753,120.43 32.22 FS 1.24 N13" 38 47,55.10 13.500.0 90.00 179.67 11.086.0 -2.63.2 178.17 533,21.20 32.22 FS 1.24 N13" 38 47,55.10 13.700.0 90.00 179.67 11.086.0 -2.693.1 1.784.9 533,015.09 753,123.22 32.22 FS 4.778.N 103" 38 47,551.00 13.900.0 90.00 178.67 11.086.0 -3.033.1 1.786.1 533,8151.0 753,124.87 32.22 FS 4.798.N 103" 38 47,550.00 14.000.0 90.00 179.67 11.086.0 -3.276.1 1.787.1 533,615.10 753,125.66 32.22 FS 4.380.N 103" 38 47,550.00 14.000.0 90.00 179.67 11.086.0 -3.283.1 1.787.2 533,615.10 753,125.66 32.22 FS 4.380.N 103" 38 47,550.00 14.400.0 90.00 179.67	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,300.0 90.00 179.67 11,086.0 -2,493.2 1,782.6 533,415.09 753,120.49 32 28 51.748 X 22 85 1.748 X X 22 85 1.747 N 103 38 47.515 W X X 22 85 1.747 N 103 38 47.515 W X X 22 84 4.7518 W X	12 200 0			11 096 0			E20 E1E 00	752 100 20	20º 00' 50 726 N	-
13,000 90.00 179.67 11,086.0 -2693.2 1,783.7 539.215.09 753.121.65 32° 28° 40.767 N 103° 38° 47.516 W 13,600.0 90.00 179.67 11,086.0 -2693.2 1,784.3 539.115.09 753.122.65 32° 28° 40.778 N 103° 38° 47.516 W 13,700.0 90.00 179.67 11,086.0 -2,893.1 1,785.5 539.015.09 753.122.43 32° 28° 48.578 N 103° 38° 47.578 W 13,800.0 90.00 179.67 11,086.0 -3,093.1 1,786.1 538.015.10 753.124.59 32° 28° 48.509 N 103° 38° 47.520 W 14,000.0 90.00 179.67 11,086.0 -3,273.1 1,787.1 538.615.10 753.124.58 32° 28° 44.820 N 103° 38° 47.520 W 14,000.0 90.00 179.67 11,086.0 -3,293.1 1,787.6 538.615.10 753.124.58 32° 28° 44.820 N 103° 38° 47.520 W 14,300.0 90.00 179.67 11,086.0 -3,493.1 1,787.6 538.415.10 753.124.78 32° 28° 43.83 N 103° 38° 47.520 W 14,300.0 90.00 179.67 11,086.0 -3,493.1 <td></td>										
13.600.0 90.00 179.67 11.086.0 -2.693.2 1.784.3 539.150.9 753.122.64 32" 28" 49.767 N 103" 38" 47.517 W 13.700.0 90.00 179.67 11.086.0 -2.693.1 1.784.9 539.151.09 753.122.84 32" 28" 49.768 N 103" 38" 47.517 W 13.800.0 90.00 179.67 11.086.0 -2.993.1 1.785.5 539.151.0 753.122.49 32" 28" 48.768 N 103" 38" 47.519 W 14.000.0 90.00 179.67 11.086.0 -3.276.1 1.787.1 538.651.0 753.122.49 32" 28" 43.890 N 103" 38" 47.520 W 14.000.0 90.00 179.67 11.086.0 -3.393.1 1.787.2 538.615.10 753.122.44 32" 28" 43.890 N 103" 38" 47.520 W 14.200.0 90.00 179.67 11.086.0 -3.393.1 1.787.4 538.415.10 753.122.44 32" 28" 43.890 N 103" 38" 47.524 W 14.400.0 90.00 179.67 11.086.0 -3.693.1 1.789.6 538.415.11 753.127.51 32" 28" 43.803 N 103" 38" 47.524 W										
13,000.0 90.00 179.67 11,066.0 -2,293.1 1,744.9 530.150.9 753,122.2 32° 28' 46,778 N 103° 38' 47,571 W 13,000.0 90.00 179.67 11,066.0 -2,893.1 1,785.5 538.01510 753,123.03 32° 28' 46,799 N 103° 38' 47,571 W 13,000.0 90.00 179.67 11,066.0 -3,003.1 1,786.1 538.051.0 753,124.39 32° 28' 46,799 N 103° 38' 47,520 W 14,000.0 90.00 179.67 11,066.0 -3,203.1 1,787.1 538.6151.0 753,125.64 32° 28' 43.830 N 103° 38' 47,520 W 14,400.0 90.00 179.67 11,086.0 -3,203.1 1,787.8 538.6151.0 753,126.76 32° 28' 43.830 N 103° 38' 47,520 W 14,400.0 90.00 179.67 11,086.0 -3,403.1 1,788.6 538.4151.0 753,126.72 32° 28' 43.830 N 103° 38' 47,520 W 14,400.0 90.00 179.67 11,086.0 -3,403.1 1,789.6 538.4151.0 753,126.71 32° 28' 43.818 N 103° 38' 47,520 W 14,400.0 90.00 179.67 11,086.0 -3,403.1 </td <td></td>										
13,700.0 90.00 179.67 11,086.0 -2.893.1 1,785.5 538.015.09 753,123.80 32" 28" 47.788.N 103" 38" 47.517 W 13,800.0 90.00 179.67 11,086.0 -3.093.1 1,786.5 538.015.10 753,123.80 32" 28" 46.799 N 103" 38" 47.519 W 14,000.0 90.00 179.67 11,086.0 -3.193.1 1,787.1 538.051.0 753,124.97 32" 28" 43.999 N 103" 38" 47.520 W NNMM 0062151 Exit at 4083.0 MD -3.393.1 1,787.8 538.615.10 753,125.14 32" 28" 43.890 N 103" 38" 47.520 W 14.200.0 90.00 179.67 11,086.0 -3.393.1 1,787.8 538.615.10 753,125.14 32" 28" 43.890 N 103" 38" 47.522 W 14.400.0 90.00 179.67 11,086.0 -3.693.1 1,789.0 538.415.10 753,125.41 32" 28" 43.891 N 103" 38" 47.524 W 14.400.0 90.00 179.67 11,086.0 -3.593.1 1,789.0 538.415.11 753,125.41 32" 28" 38.83 N 103" 38" 47.524 W 14.400.0							,			
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13,900.0 90.00 179.67 11,086.0 3,093.1 17.786.7 538.715.10 753,124.39 32' 28' 45.809.N 103' 38' 47.519 W 14,003.0 90.00 179.67 11,086.0 3,276.1 1,787.1 538.632.13 753,124.39 32' 28' 43.809 N 103' 38' 47.520 W 14,100.0 90.00 179.67 11,086.0 -3,283.1 1,787.2 538.615.10 753,126.43 32' 28' 43.80 N 103' 38' 47.520 W 14,000.0 90.00 179.67 11,086.0 -3,283.1 1,788.6 538,415.10 753,126.43 32' 28' 41.851 N 103' 38' 47.521 W 14,400.0 90.00 179.67 11,086.0 -3,983.1 1,788.0 538,415.11 753,126.72 32' 28' 34.828 N 103' 38' 47.523 W 14,600.0 90.00 179.67 11,086.0 -3,983.1 1,789.0 538,415.11 753,126.43 32' 28' 34.986 N 103' 38' 47.525 W 14,600.0 90.00 179.67 11,086.0 -3,993.1 1,791.3 538,415.11 753,126.43 22' 28' 35.914 N 103' 38' 47.525 W 14,600.0 90.00 179.67 11,086.0 -3,993.1										
14 1000.0 90.00 179.67 11,086.0 3,193.1 17.786.7 538,715.10 753,125.46 322 28' 43.999 N 103' 38' 47.520 W NMNM 0061261 Exit at 14083.0 MD - - 538,615.10 753,125.46 32' 28' 43.999 N 103' 38' 47.520 W 14,200.0 90.00 178.67 11,086.0 -3,393.1 1.787.2 538,615.10 753,125.76 32' 28' 43.830 N 103' 38' 47.520 W 14,400.0 90.00 178.67 11,086.0 -3,493.1 1.788.4 538,415.10 753,125.71 32' 28' 42.841 N 103' 38' 47.522 W 14,400.0 90.00 179.67 11,086.0 -3,993.1 1.790.7 538,115.11 753,122.87 32' 28' 43.851 N 103' 38' 47.522 W 14,600.0 90.00 179.67 11,086.0 -3,993.1 1.791.7 538,115.11 753,122.64 32' 28' 38.904 N 103' 38' 47.522 W 14,800.0 90.00 179.67 11,086.0 -3,993.1 1.791.7 53,105.11 753,123.13 32' 28' 38.904 N 103' 38' 47.522 W										
1 1 0.00 1 1 7.87.1 1.787.1 538,832.13 753,125.46 32" 28 43.990 N 103" 38" 47 520 W NMM 0061221 Exit at 1408.0 0 7.87.2 538,815.10 755,125.56 32" 28 42,830 N 103" 38" 47 520 W 14,200.0 90.00 179.67 11.086.0 -3.393.1 1.787.4 538,815.10 755,126.17 32" 28 42,810 N 103" 38" 47 521 W 14,400.0 90.00 179.67 11.086.0 -3.493.1 1.789.0 539,315.11 753,128.47 32" 28 43.830 N 103" 38" 47 523 W 14,400.0 90.00 179.67 11.086.0 -3.933.1 1.790.2 538,116.11 753,128.47 32" 28 3.863 N 103" 38" 47 525 W 14,400.0 90.00 179.67 11.086.0 -3.933.1 1.791.3 537,916.11 753,130.81 32" 28" 3.863 N 103" 38" 47 525 W 14,400.0 90.00 179.67 11.086.0 -4.933.1 1.791.3 537,916.12 753,131.53 32" 28" 3.868 N 103" 38" 47 520 W 15,00					,	,				
NNNM 0061261 Exit at 4083.0 MD 14,100.0 90.00 179.67 11.086.0 -3.293.1 1.787.8 538.615.10 753.125.56 32° 28 43.830 N 103° 38' 47.520 W 14,200.0 90.00 179.67 11.086.0 -3.393.1 1.787.8 538.615.10 753.125.76 32° 28 44.851 N 103° 38' 47.520 W 14,400.0 90.00 179.67 11.086.0 -3.693.1 1.788.6 538.415.11 753.125.72 32° 28 44.851 N 103° 38' 47.522 W 14,400.0 90.00 179.67 11.086.0 -3.693.1 1.778.6 538.215.11 753.125.78 32° 28 38.872 N 103° 38' 47.522 W 14,400.0 90.00 179.67 11.086.0 -3.893.1 1.790.7 538.015.11 753.125.68 32° 28 3.898.N 103° 38' 47.527 W 14,400.0 90.00 179.67 11.086.0 -4.933.1 1.791.79 537.815.11 753.130.81 32° 28' 3.994 N 103° 38' 47.527 W 15,000.0 90.00 179.67 11.086.0 -4.933.1 1.791.7 537.815.11 753.131.31				-	-	-				
14,00.0 90.00 179.67 11,086.0 -3,293.1 1,787.2 538,615.10 753,126.14 32" 28" 28.44 1.103" 38" 47.520 14,200.0 90.00 179.67 11,086.0 -3,493.1 1,788.4 538,815.10 753,126.14 32" 28" 28.44 1.103" 38" 47.520 14,400.0 90.00 179.67 11,086.0 -3,693.1 1,780.2 538,116.11 753,127.31 32" 28" 38.48.53 103" 38" 47.522 14,600.0 90.00 179.67 11,086.0 -3,693.1 1,790.2 538,116.11 753,128.47 32" 28" 38.48.53 103" 38" 47.525 14,600.0 90.00 179.67 11,086.0 -4,933.1 1,791.5 537,715.12 753,131.31 32" 28" 38.49.50 103" 38" 47.527 14,600.0 90.00 179.67 11,086.0 -4,393.1 1,793.7 537,615.12 753,131.31 32" 28" 38.49.50 103" 38" 47.520 173.475.27 753,132.56					-3,270.1	1,707.1	556,052.15	755,125.40	32 20 43.999 N	103 36 47.320 W
14,200.0 90.00 179.67 11,066.0 -3,393.1 1,787.8 538,515.10 753,126.14 32' 28' 42.841 N 103' 38' 47.521 W 14,400.0 90.00 179.67 11,066.0 -3,693.1 1,789.0 538,315.11 753,127.31 32' 28' 40.862 N 103' 38' 47.523 W 14,600.0 90.00 179.67 11,066.0 -3,693.1 1,789.2 538,315.11 753,127.81 32' 28' 30.872 N 103' 38' 47.524 W 14,600.0 90.00 179.67 11,066.0 -3,893.1 1,790.2 538,115.11 753,129.06 32' 28' 30.94 N 103' 38' 47.524 W 14,800.0 90.00 179.67 11,066.0 -4,093.1 1,791.2 537,815.11 753,130.31 32' 28' 30.94 N 103' 38' 47.524 W 15,000.0 90.00 179.67 11,066.0 -4,393.1 1,791.2 537,815.12 753,131.39 32' 28' 30.94 N 103' 38' 47.524 W 15,000.0 90.00 179.67 11.066.0 -4,493.1 1,794.8 537,315.12 753,131.39 32' 28' 30.95 N 103' 38' 47.524 W					2 202 4	4 707 0	F20 04F 40	750 405 50	20% 001 42 020 N	400% 00L 47 500 M
14,300.0 90.00 178.67 11,066.0 -3,493.1 1,788.4 538,415.10 753,127.27 32* 28* 41.651 N 103* 38* 47.522 W 14,600.0 90.00 178.67 11,068.0 -3,693.1 1,789.0 538,315.11 753,127.81 32* 28* 38.83 N 103* 38* 47.522 W 14,600.0 90.00 178.67 11,068.0 -3,693.1 1,790.7 538,015.11 753,128.47 32* 28* 38.83 N 103* 38* 47.524 W 14,700.0 90.00 178.67 11,068.0 -3,993.1 1,790.7 538,015.11 753,128.44 32* 28* 35.814 N 103* 38* 47.525 W 14,800.0 90.00 179.67 11,068.0 -4,193.1 1,791.2 537,151.1 753,131.81 32* 28* 33.91 N 103* 38* 47.527 W 15,000.0 90.00 179.67 11,068.0 -4,393.1 1,794.2 537,151.2 753,131.81 32* 28* 33.95 N 103* 38* 47.528 W 15,000.0 90.00 179.67 11.068.0 -4,693.1 1,794.2 537,315.12 753,133.41 32* 28* 39.96 N 103* 38* 47.529 W 15,400.0 90.00 179.67 11.068.0 -4,693.1							,			
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	17,900.0	90.00	179.67	11,086.0	-7,093.1	1,809.4	534,815.17	753,147.74	32° 28' 6.229 N	103° 38' 47.547 W

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Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Company:	NEW MEXICO	TVD Reference:	KB @ 3864.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3864.0usft
Site:	AZTEC PROJECT	North Reference:	Grid
Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth	Inclination		Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
18,000.0		179.67	11,086.0	-7,193.1	1,810.0	534,715.17	753,148.32	32° 28' 5.239 N	103° 38' 47.548 W
18,100.0		179.67	11,086.0	-7,293.1	1,810.6	534,615.17	753,148.90	32° 28' 4.250 N	103° 38' 47.548 W
18,200.0	90.00	179.67	11,086.0	-7,393.1	1,811.2	534,515.17	753,149.49	32° 28' 3.260 N	103° 38' 47.549 W
18,300.0		179.67	11,086.0	-7,493.1	1,811.8	534,415.17	753,150.07	32° 28' 2.270 N	103° 38' 47.550 W
18,400.0		179.67	11,086.0	-7,593.1	1,812.3	534,315.17	753,150.65	32° 28' 1.281 N	103° 38' 47.550 W
18,500.0		179.67	11,086.0	-7,693.1	1,812.9	534,215.18	753,151.24	32° 28' 0.291 N	103° 38' 47.551 W
18,600.0		179.67	11,086.0	-7,793.1	1,813.5	534,115.18	753,151.82	32° 27' 59.302 N	103° 38' 47.552 W
18,700.0		179.67	11,086.0	-7,893.1	1,814.1	534,015.18	753,152.40	32° 27' 58.312 N	103° 38' 47.552 W
18,800.0		179.67	11,086.0	-7,993.1	1,814.7	533,915.18	753,152.99	32° 27' 57.323 N	103° 38' 47.553 W
18,900.0		179.67	11,086.0	-8,093.1	1,815.3	533,815.18	753,153.57	32° 27' 56.333 N	103° 38' 47.554 W
19,000.0		179.67	11,086.0	-8,193.1	1,815.8	533,715.18	753,154.16	32° 27' 55.344 N	103° 38' 47.555 W
19,100.0		179.67	11,086.0	-8,293.1	1,816.4	533,615.19	753,154.74	32° 27' 54.354 N	103° 38' 47.555 W
19,200.0		179.67	11,086.0	-8,393.1	1,817.0	533,515.19	753,155.32	32° 27' 53.365 N	103° 38' 47.556 W
19,300.0		179.67	11,086.0	-8,493.1	1,817.6	533,415.19	753,155.91	32° 27' 52.375 N	103° 38' 47.557 W
19,373.0		179.67	11,086.0	-8,566.0	1,818.0	533,342.23	753,156.33	32° 27' 51.653 N	103° 38' 47.557 W
	002518 Exit			a = a a d					
19,400.0		179.67	11,086.0	-8,593.1	1,818.2	533,315.19	753,156.49	32° 27' 51.386 N	103° 38' 47.557 W
19,500.0		179.67	11,086.0	-8,693.0	1,818.8	533,215.19	753,157.07	32° 27' 50.396 N	103° 38' 47.558 W
19,600.0		179.67	11,086.0	-8,793.0	1,819.3	533,115.19	753,157.66	32° 27' 49.407 N	103° 38' 47.559 W
19,700.0		179.67	11,086.0	-8,893.0	1,819.9	533,015.20	753,158.24	32° 27' 48.417 N	103° 38' 47.559 W
19,800.0		179.67	11,086.0	-8,993.0	1,820.5	532,915.20	753,158.83	32° 27' 47.428 N	103° 38' 47.560 W
19,900.0		179.67	11,086.0	-9,093.0	1,821.1	532,815.20	753,159.41	32° 27' 46.438 N	103° 38' 47.561 W
20,000.0		179.67	11,086.0	-9,193.0	1,821.7	532,715.20	753,159.99	32° 27' 45.449 N	103° 38' 47.562 W
20,100.0		179.67	11,086.0	-9,293.0	1,822.3	532,615.20	753,160.58	32° 27' 44.459 N	103° 38' 47.562 W
20,200.0		179.67	11,086.0	-9,393.0	1,822.8 1,823.4	532,515.20	753,161.16	32° 27' 43.470 N	103° 38' 47.563 W
20,300.0 20,400.0		179.67 179.67	11,086.0 11,086.0	-9,493.0 -9,593.0	1,824.0	532,415.21 532,315.21	753,161.74 753,162.33	32° 27' 42.480 N 32° 27' 41.491 N	103° 38' 47.564 W 103° 38' 47.564 W
20,400.0		179.67	11,086.0	-9,693.0	1,824.6	532,215.21	753.162.91	32° 27' 40.501 N	103° 38' 47.565 W
20,500.0		179.67	11,086.0	-9,093.0 -9,793.0	1,825.2	532,215.21	753,163.49	32° 27' 40.501 N 32° 27' 39.512 N	103° 38' 47.566 W
20,700.0		179.67	11,086.0	-9,893.0	1,825.8	532,015.21	753,164.08	32° 27' 38.522 N	103° 38' 47.566 W
20,800.0		179.67	11,086.0	-9,993.0	1,826.3	531,915.21	753,164.66	32° 27' 37.533 N	103° 38' 47.567 W
20,900.0		179.67	11,086.0	-10,093.0	1,826.9	531,815.22	753,165.25	32° 27' 36.543 N	103° 38' 47.568 W
21,000.0		179.67	11,086.0	-10,193.0	1,827.5	531,715.22	753,165.83	32° 27' 35.553 N	103° 38' 47.568 W
21,100.0		179.67	11,086.0	-10,293.0	1,828.1	531,615.22	753,166.41	32° 27' 34.564 N	103° 38' 47.569 W
21,200.0		179.67	11,086.0	-10,393.0	1,828.7	531,515.22	753,167.00	32° 27' 33.574 N	103° 38' 47.570 W
21,200.0		179.67	11,086.0	-10,493.0	1,829.3	531,415.22	753,167.58	32° 27' 32.585 N	103° 38' 47.571 W
21,400.0		179.67	11,086.0	-10,593.0	1,829.8	531,315.22	753,168.16	32° 27' 31.595 N	103° 38' 47.571 W
21,500.0		179.67	11,086.0	-10,693.0	1,830.4	531,215.23	753,168.75	32° 27' 30.606 N	103° 38' 47.572 W
21,600.0		179.67	11,086.0	-10,793.0	1,831.0	531,115.23	753,169.33	32° 27' 29.616 N	103° 38' 47.573 W
21,700.0		179.67	11.086.0	-10.893.0	1,831.6	531,015.23	753.169.92	32° 27' 28.627 N	103° 38' 47.573 W
21,800.0		179.67	11,086.0	-10,993.0	1,832.2	530,915.23	753,170.50	32° 27' 27.637 N	103° 38' 47.574 W
21,900.0		179.67	11,086.0	-11,093.0	1,832.8	530,815.23	753,171.08	32° 27' 26.648 N	103° 38' 47.575 W
21,912.7		179.67	11,086.0	-11,105.7	1,832.8	530,802.51	753,171.16	32° 27' 26.522 N	103° 38' 47.575 W
TD at 2			,	,	,		,		

Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	Compa NEW N (SP) L AZTEC AZTEC OWB PWP0	MEXIO EA C PRO C 14 2		М 173Н		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well AZTEC 14 23 FED COM 173H KB @ 3864.0usft KB @ 3864.0usft Grid Minimum Curvature			
Design Targets Target Name - hit/miss target	Dip A	nalo	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Eastin	-			
- Shape	א קוט (°)	•	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	•	Longitude		
FTP-A14 23 FC 173I - plan hits target - Point		0.00	0.01	11,086.0	-740.7	1,772.3	541,167.50	753,1′	10.66 32° 29' 9.087	7 N 103° 38' 47.502 W		
BHL-A14 23 FC 173 - plan hits target		0.00	0.01	11,086.0	-11,105.7	1,832.8	530,802.51	753,17	71.16 32° 27' 26.522	2 N 103° 38' 47.575 W		

- Point

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,500.0	2,500.0	0.0	0.0	Start Build 2.00
3,110.5	3,105.9	-10.1	64.0	Start 7703.4 hold at 3110.5 MD
10,813.9	10,635.0	-264.1	1,673.3	Start DLS 12.00 TFO 80.90
11,447.0	11,075.7	-640.9	1,769.6	NMNM 0061261 Entry at 11447.0 MD
11,547.6	11,086.0	-740.7	1,772.3	Start 10365.2 hold at 11547.6 MD
14,083.0	11,086.0	-3,276.1	1,787.1	NMNM 0061261 Exit at 14083.0 MD
15,401.0	11,086.0	-4,594.1	1,794.8	NMNM 002515 Entry at 15401.0 MD
16,719.0	11,086.0	-5,912.1	1,802.5	NMNM 002515 Exit at 16719.0 MD
19,373.0	11,086.0	-8,566.0	1,818.0	NMNM 002518 Exit at 19373.0 MD
21,912.7	11,086.0	-11,105.7	1,832.8	TD at 21912.7

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NEW MEXICO

(SP) LEA AZTEC PROJECT AZTEC 14 23 FED COM 173H

OWB PWP0

Anticollision Report

08 July, 2024

Anticollision Report

Company:NEW MEXICOLocal Co-ordinate Reference:Well AZTEC 14 23 FED COM 173HProject:(SP) LEATVD Reference:KB @ 3864.0usftReference Site:AZTEC PROJECTMD Reference:KB @ 3864.0usftSite Error:0.0 usftNorth Reference:GridReference Well:AZTEC 14 23 FED COM 173HSurvey Calculation Method:Minimum CurvatureWell Error:0.0 usftOutput errors are at2.00 sigma	
Reference Site: AZTEC PROJECT MD Reference: KB @ 3864.0usft Site Error: 0.0 usft North Reference: Grid Reference Well: AZTEC 14 23 FED COM 173H Survey Calculation Method: Minimum Curvature	
Site Error: 0.0 usft North Reference: Grid Reference Well: AZTEC 14 23 FED COM 173H Survey Calculation Method: Minimum Curvature	
Reference Well: AZTEC 14 23 FED COM 173H Survey Calculation Method: Minimum Curvature	
Well Error: 0.0 usft Output errors are at 2.00 sigma	
Reference Wellbore OWB Database: Compass	
Reference Design: PWP0 Offset TVD Reference: Offset Datum	
Reference PWP0	

Filter type:	NO GLOBAL FILTER: Using user defined selection & filter	ring criteria	
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 800.0usft	Error Surface:	Pedal Curve
Warning Levels Evalua	ated at: 2.00 Sigma	Casing Method:	Not applied

Survey Tool Progra	m	Date 7/8/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,912.	7 PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard

Summary								
Site Name Offset Well - V	Vellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	ance Between Ellipses (usft)	Separation Factor	١	Narning
AZTEC PROJEC	Г							
AZTEC 14 23 F AZTEC 14 23 F	ED COM 171H - OWB - PWP0 ED COM 171H - OWB - PWP0 ED COM 402H - OWB - PWP0 ED COM 402H - OWB - PWP0	2,500.0 2,600.0 2,498.4 2,500.0	,	33.0 33.5 49.3 49.3	15.3 15.1 31.7 31.6	1.863 1.821 2.793 2.791	ES, SF CC	

Offset Design: AZTEC PROJECT - AZTEC 14 23 FED COM 171H - OWB - PWP0

	J												Offset Site Error:	0.0 us
Survey Pro Refe	gram: 0 rence	-MWD Off	set	Semi N	laior Axis		Offset Wellb	ore Centre	Dis	Rule Assig	gned:		Offset Well Error:	0.0 us
Measured Depth (usft)		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)		Minimum Separation (usft)		Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-123.04	-18.0	-27.7	33.0					
100.0	100.0	100.0	100.0	0.3	0.3	-123.04	-18.0	-27.7	33.0	32.5	0.50	65.747		
200.0	200.0	200.0	200.0	0.6	0.6	-123.04	-18.0	-27.7	33.0	31.8	1.22	27.072		
300.0	300.0	300.0	300.0	1.0	1.0	-123.04	-18.0	-27.7	33.0	31.1	1.94	17.045		
400.0	400.0	400.0	400.0	1.3	1.3	-123.04	-18.0	-27.7	33.0	30.3	2.65	12.439		
500.0	500.0	500.0	500.0	1.7	1.7	-123.04	-18.0	-27.7	33.0	29.6	3.37	9.792		
600.0	600.0	600.0	600.0	2.0	2.0	-123.04	-18.0	-27.7	33.0	28.9	4.09	8.074		
700.0	700.0	700.0	700.0	2.4	2.4	-123.04	-18.0	-27.7	33.0	28.2	4.80	6.869		
800.0	800.0	800.0	800.0	2.8	2.8	-123.04	-18.0	-27.7	33.0	27.5	5.52	5.977		
900.0	900.0	900.0	900.0	3.1	3.1	-123.04	-18.0	-27.7	33.0	26.8	6.24	5.290		
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	-123.04	-18.0	-27.7	33.0	26.0	6.95	4.745		
1,100.0	1,100.0	1,100.0	1,100.0	3.8	3.8	-123.04	-18.0	-27.7	33.0	25.3	7.67	4.301		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-123.04	-18.0	-27.7	33.0	24.6	8.39	3.934		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-123.04	-18.0	-27.7	33.0	23.9	9.11	3.624		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	-123.04	-18.0	-27.7	33.0	23.2	9.82	3.359		
1,500.0	1,500.0	1,500.0	1,500.0	5.3	5.3	-123.04	-18.0	-27.7	33.0	22.5	10.54	3.131		
1,600.0	1,600.0	1,600.0	1,600.0	5.6	5.6	-123.04	-18.0	-27.7	33.0	21.7	11.26	2.931		
1,700.0	1,700.0	1,700.0	1,700.0	6.0	6.0	-123.04	-18.0	-27.7	33.0	21.0	11.97	2.756		
1,800.0	1,800.0	1,800.0	1,800.0	6.3	6.3	-123.04	-18.0	-27.7	33.0	20.3	12.69	2.600		
1,900.0	1,900.0	1,900.0	1,900.0	6.7	6.7	-123.04	-18.0	-27.7	33.0	19.6	13.41	2.461		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	-123.04	-18.0	-27.7	33.0	18.9	14.12	2.336		
2,100.0	2,100.0	2,100.0	2,100.0	7.4	7.4	-123.04	-18.0	-27.7	33.0	18.2	14.84	2.223		
2,200.0	2,200.0	2,200.0	2,200.0	7.8	7.8	-123.04	-18.0	-27.7	33.0	17.4	15.56	2.121		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AZTEC PROJECT - AZTEC 14 23 FED COM 171H - OWB - PWP0

													Unset Site Error:	
Survey Pro		MWD		.			0	0		Rule Assig	gned:		Offset Well Error:	0.0 u
Refe Measured	vertical	Offs Measured		Semi N Reference	laior Axis Offset	Highside	Offset Wellb	ore Centre		tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Onoot	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Hunnig	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
2,300.0	2,300.0	2,300.0	2,300.0	8.1	8.1	-123.04	-18.0	-27.7	33.0	16.7	16.27	2.027		
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-123.04	-18.0	-27.7	33.0	16.0	16.99	1.942		
2,500.0	2,500.0	2,500.0	2,500.0	8.9	8.9	-123.04	-18.0	-27.7	33.0	15.3	17.71	1.863 CC		
2,600.0	2,600.0	2,600.5	2,600.5	9.2	9.2	137.29	-18.9	-26.1	33.5	15.1	18.40	1.821 ES		
2,700.0	2,699.8	2,000.9	2,700.7	9.5	9.5	135.44	-21.5	-20.1	35.1	16.1	19.07	1.843	, 01	
2,800.0	2,799.5	2,800.8	2,800.5	9.9	9.9	135.99	-24.7	-16.3	38.8	19.1	19.75	1.967		
2,900.0	2,898.7	2,900.6	2,900.0	10.2	10.2	139.45	-27.9	-10.9	45.1	24.7	20.43	2.210		
3,000.0	2,997.5	3,000.1	2,999.3	10.2	10.2	144.28	-31.1	-5.6	54.3	33.2	21.11	2.575		
3,100.0	3,095.6	3,000.1	3,098.2	11.0	10.0	144.20	-34.2	-0.3	66.8	45.0	21.79	3.066		
3,110.5	3,105.9	3,109.5	3,108.5	11.0	10.9	149.73	-34.5	0.3	68.3	46.4	21.86	3.125		
3,200.0	3,193.4	3,197.9	3,196.8	11.3	11.2	153.37	-37.3	5.0	81.5	59.0	22.47	3.626		
3,300.0	3,291.1	3,296.7	3,295.4	11.7	11.6	156.26	-40.5	10.3	96.4	73.3	23.15	4.165		
3,400.0	3,388.8	3,395.4	3,393.9	12.1	11.9	158.36	-43.6	15.6	111.6	87.7	23.84	4.680		
3,500.0	3,486.6	3,494.2	3,492.5	12.5	12.3	159.97	-46.8	20.9	126.8	102.3	24.53	5.170		
3,600.0	3,584.3	3,593.0	3,591.1	12.9	12.6	161.22	-49.9	26.3	142.2	116.9	25.23	5.636		
3,700.0	3,682.1	3,691.8	3,689.7	13.3	13.0	162.24	-53.1	31.6	157.6	131.6	25.92	6.077		
		0 700 5	o 7 00 o	10.0	40.0	100.07	50.0		170.0		~~~~	0.407		
3,800.0	3,779.8	3,790.5	3,788.3	13.8	13.3	163.07	-56.2	36.9	173.0	146.4	26.63	6.497		
3,900.0	3,877.5	3,889.3	3,886.8	14.2	13.7	163.77	-59.3	42.2	188.4	161.1	27.33	6.895		
4,000.0	3,975.3	3,988.1	3,985.4	14.6	14.0	164.36	-62.5	47.5	203.9	175.9	28.03	7.274		
4,100.0	4,073.0	4,086.9	4,084.0	15.1	14.4	164.86	-65.6	52.8	219.4	190.7	28.74	7.634		
4,200.0	4,170.7	4,185.6	4,182.6	15.5	14.7	165.30	-68.8	58.1	234.9	205.5	29.45	7.976		
4,300.0	4,268.5	4,284.4	4,281.2	15.9	15.1	165.69	-71.9	63.4	250.4	220.3	30.16	8.303		
4,400.0	4,366.2	4,383.2	4,379.8	16.4	15.4	166.03	-75.1	68.7	266.0	235.1	30.88	8.614		
4,500.0	4,464.0	4,482.0	4,478.3	16.8	15.8	166.33	-78.2	74.0	281.5	249.9	31.59	8.911		
4,600.0	4,561.7	4,580.7	4,576.9	17.3	16.1	166.60	-81.3	79.3	297.1	264.8	32.31	9.194		
4,700.0	4,659.4	4,679.5	4,675.5	17.7	16.5	166.85	-84.5	84.6	312.6	279.6	33.03	9.465		
4,800.0	4,757.2	4,778.3	4,774.1	18.2	16.8	167.07	-87.6	89.9	328.2	294.4	33.75	9.724		
4,900.0	4,854.9	4,877.1	4,872.7	18.6	17.2	167.27	-90.8	95.2	343.8	309.3	34.47	9.972		
5,000.0	4,952.7	4,975.8	4,971.2	19.1	17.6	167.46	-93.9	100.5	359.3	324.1	35.19	10.210		
5,100.0	5,050.4	5,074.6	5,069.8	19.6	17.9	167.62	-97.1	105.8	374.9	339.0	35.92	10.438		
5,200.0	5,148.1	5,173.4	5,168.4	20.0	18.3	167.78	-100.2	111.2	390.5	353.8	36.64	10.657		
			-,											
5,300.0	5,245.9	5,272.2	5,267.0	20.5	18.6	167.92	-103.3	116.5	406.0	368.7	37.37	10.867		
5,400.0	5,343.6	5,370.9	5,365.6	21.0	19.0	168.05	-106.5	121.8	421.6	383.5	38.09	11.068		
5,500.0	5,441.3	5,469.7	5,464.2	21.4	19.3	168.18	-109.6	127.1	437.2	398.4	38.82	11.262		
5,600.0	5,539.1	5,568.5	5,562.7	21.9	19.7	168.29	-112.8	132.4	452.8	413.2	39.55	11.449		
5,700.0	5,636.8	5,667.3	5,661.3	21.0	20.1	168.40	-115.9	137.7	468.4	428.1	40.28	11.629		
0,700.0	0,000.0	0,007.0	0,001.0	22.4	20.1	100.40	110.0	107.1	400.4	420.1	40.20	11.020		
5,800.0	5,734.6	5,766.0	5,759.9	22.8	20.4	168.50	-119.1	143.0	484.0	442.9	41.01	11.802		
5,900.0	5,832.3	5,864.8	5,858.5	23.3	20.8	168.59	-122.2	148.3	499.5	457.8	41.74	11.969		
6,000.0	5,930.0	5,963.6	5,957.1	23.8	20.0	168.68	-125.3	153.6	515.1	472.7	42.47	12.130		
6,100.0	6,027.8	6,062.4	6,055.6		21.1	168.76	-125.5		530.7	472.7	42.47	12.130		
				24.3	21.5 21.9			158.9						
6,200.0	6,125.5	6,161.1	6,154.2	24.7	21.9	168.84	-131.6	164.2	546.3	502.4	43.93	12.436		
6,300.0	6,223.2	6,259.9	6,252.8	25.2	22.2	168.92	-134.8	169.5	561.9	517.2	44.66	12.581		
6,400.0	6,321.0	6,358.7	6,351.4	25.7	22.6	168.99	-137.9	174.8	577.5	532.1	45.40	12.721		
6,500.0		6,457.5	6,450.0	26.2	22.0		-141.1		593.1			12.856		
	6,418.7					169.05		180.1		547.0	46.13			
6,600.0	6,516.5	6,556.2	6,548.6	26.6	23.3	169.12	-144.2	185.4	608.7	561.8	46.87	12.988		
6,700.0	6,614.2	6,655.0	6,647.1	27.1	23.7	169.18	-147.3	190.7	624.3	576.7	47.60	13.115		
6,800.0	6,711.9	6,753.8	6,745.7	27.6	24.0	169.23	-150.5	196.1	639.9	591.5	48.34	13.238		
6,900.0		6,852.6			24.0 24.4	169.23	-153.6		655.5	606.4	48.34 49.07	13.357		
	6,809.7		6,844.3	28.1				201.4						
7,000.0	6,907.4	6,951.3	6,942.9	28.6	24.8	169.34	-156.8	206.7	671.1	621.3	49.81	13.473		
7,100.0	7,005.1	7,050.1	7,041.5	29.0	25.1	169.39	-159.9	212.0	686.7	636.1	50.55	13.585		
7,200.0	7,102.9	7,148.9	7,140.0	29.5	25.5	169.43	-163.1	217.3	702.3	651.0	51.28	13.694		
7,300.0	7,200.6	7,247.7	7,238.6	30.0	25.9	169.48	-166.2	222.6	717.9	665.8	52.02	13.800		
		1/4//	1 2.50 0	.50()	25.9									

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0.0 usft

Offset Site Error:

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Do	esign: ^{AZ}	TEC PRC	JECT -	AZTEC 14	23 FED	COM 171	H - OWB - PV	VP0					Offset Site Error:	0.0 usft
Survey Prog Refer Measured		MWD Offe Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	Rule Assig ance Between	gned: Minimum	Separation	Offset Well Error: Warning	0.0 usft
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	-	warning	
7,400.0	7,298.4	7,346.4	7,337.2	30.5	26.2	169.52	-169.3	227.9	733.4	680.7	52.76	13.902		
7,500.0	7,396.1	7,445.2	7,435.8	31.0	26.6	169.56	-172.5	233.2	749.0	695.6	53.50	14.002		
7,600.0	7,493.8	7,544.0	7,534.4	31.5	26.9	169.60	-175.6	238.5	764.6	710.4	54.23	14.099		
7,700.0	7,591.6	7,642.8	7,633.0	31.9	27.3	169.64	-178.8	243.8	780.2	725.3	54.97	14.193		
7,800.0	7,689.3	7,741.5	7,731.5	32.4	27.7	169.68	-181.9	249.1	795.8	740.1	55.71	14.285		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AZTEC PROJECT - AZTEC 14 23 FED COM 402H - OWB - PWP0

													Offset Site Error:	0.0
urvey Prog	gram: ()-MWD		6 a.m.! 1				oro Contro	Die	Rule Assig	gned:		Offset Well Error:	0.0
Refer leasured	vertical	Off: Measured			laior Axis Offset	Highside	Offset Wellb		Dis Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		Ũ	
0.0	0.0		1.0	0.0	0.0	-123.05	-36.0	-55.3	66.0	(usit)	(usit)			
100.0	100.0		101.0	0.3	0.3	-123.05	-36.0	-55.3	66.0	65.5	0.51	130.572		
200.0	200.0		201.0	0.6	0.6	-123.05	-36.0	-55.3	66.0	64.8	1.22	53.990		
300.0	300.0		301.0	1.0	1.0	-123.05	-36.0	-55.3	66.0	64.1	1.94	34.031		
400.0	400.0		401.0	1.3	1.3	-123.05	-36.0	-55.3	66.0	63.3	2.66	24.846		
500.0	500.0		501.0	1.7	1.7	-123.05	-36.0	-55.3	66.0	62.6	3.37	19.565		
600.0	600.0		601.0	2.0	2.0	-123.05	-36.0	-55.3	66.0	61.9	4.09	16.136		
700.0	700.0		701.0	2.4	2.4	-123.05	-36.0	-55.3	66.0	61.2	4.81	13.729		
800.0	800.0		801.0	2.8	2.8	-123.05	-36.0	-55.3	66.0	60.5	5.52	11.947		
900.0	900.0		901.0	3.1	3.1	-123.05	-36.0	-55.3	66.0	59.8	6.24	10.575		
1,000.0	1,000.0	1,001.0	1,001.0	3.5	3.5	-123.05	-36.0	-55.3	66.0	59.0	6.96	9.485		
1,100.0	1,100.0	1,101.0	1,101.0	3.8	3.8	-123.05	-36.0	-55.3	66.0	58.3	7.67	8.599		
1,200.0	1,200.0		1,201.0	4.2	4.2	-123.05	-36.0	-55.3	66.0	57.6	8.39	7.864		
1,300.0	1,300.0		1,301.0	4.6	4.6	-123.05	-36.0	-55.3	66.0	56.9	9.11	7.245		
1,400.0	1,400.0		1,401.0	4.9	4.9	-123.05	-36.0	-55.3	66.0	56.2	9.83	6.717		
1,500.0	1,500.0		1,501.0	5.3	5.3	-123.05	-36.0	-55.3	66.0	55.5	10.54	6.260		
1,600.0	1,600.0		1,601.0	5.6	5.6	-123.05	-36.0	-55.3	66.0	54.7	11.26	5.861		
1,700.0	1,700.0		1,701.0	6.0	6.0	-123.05	-36.0	-55.3	66.0	54.0	11.98	5.511		
1,800.0	1,800.0		1,801.0	6.3	6.3	-123.05	-36.0	-55.3	66.0	53.3	12.69	5.199		
1,900.0	1,900.0		1,901.0	6.7	6.7	-123.05	-36.0	-55.3	66.0	52.6	13.41	4.921		
2,000.0	2,000.0	2,001.0	2,001.0	7.1	7.1	-123.05	-36.0	-55.3	66.0	51.9	14.13	4.672		
2,100.0	2,100.0	2,102.5	2,102.5	7.4	7.4	-124.26	-36.5	-53.6	64.8	50.0	14.83	4.369		
2,100.0	2,100.0		2,102.5	7.4	7.4	-124.20	-30.5	-33.0	61.5	45.9	14.63	4.309 3.959		
2,200.0	2,200.0		2,203.0	8.1	8.1	-126.10	-37.9	-48.3	56.6	40.4	16.22	3.491		
2,400.0	2,300.0		2,403.2	8.5	8.5	-147.41	-43.5	-27.8	51.7	34.8	16.94	3.052		
2,498.4	2,498.4		2,499.4	8.8	8.8	-164.70	-47.6	-13.0	49.3	31.7	17.66	2.793 CC		
_,	_,	_,	_,											
2,500.0	2,500.0	2,503.5	2,501.0	8.9	8.8	-165.02	-47.6	-12.7	49.3	31.6	17.67	2.791 ES	, SF	
2,600.0	2,600.0	2,601.7	2,597.3	9.2	9.2	76.88	-52.6	5.4	52.6	34.3	18.34	2.868		
2,700.0	2,699.8	2,699.3	2,692.3	9.5	9.6	61.63	-58.4	26.6	61.2	42.3	18.92	3.235		
2,800.0	2,799.5		2,786.0	9.9	9.9	50.86	-65.0	50.7	73.2	53.8	19.45	3.764		
2,900.0	2,898.7	2,892.7	2,878.3	10.2	10.4	43.49	-72.4	77.8	87.2	67.3	19.97	4.369		
3,000.0	2,997.5	2,991.2	2,972.1	10.6	10.8	38.71	-80.4	107.1	101.2	80.6	20.60	4.910		
3,100.0	3,095.6		3,066.4	11.0	11.3	36.12	-88.5	136.7	112.8	91.5	20.00	5.297		
3,110.5	3,105.9		3,000.4	11.0	11.3	35.94	-89.4	130.7	112.0	91.5	21.23	5.328		
3,200.0	3,193.4		3,161.0	11.3	11.8	34.66	-96.6	166.3	122.8	100.8	22.01	5.582		
3,300.0	3,291.1		3,255.6	11.3	12.3	33.44	-104.7	196.0	133.0	110.2	22.73	5.849		
,	.,	.,	.,											
3,400.0	3,388.8		3,350.2	12.1	12.8	32.40	-112.8	225.6	143.1	119.7	23.47	6.099		
3,500.0	3,486.6		3,444.7	12.5	13.3	31.49	-121.0	255.3	153.3	129.1	24.21	6.335		
3,600.0	3,584.3		3,539.3	12.9	13.8	30.69	-129.1	284.9	163.6	138.6	24.96	6.555		
3,700.0	3,682.1		3,633.9	13.3	14.4	29.99	-137.2	314.5	173.9	148.2	25.71	6.763		
3,800.0	3,779.8	3,786.6	3,728.5	13.8	14.9	29.37	-145.3	344.2	184.2	157.7	26.47	6.958		
3,900.0	3,877.5	3,886.1	3,823.1	14.2	15.5	28.81	-153.4	373.8	194.5	167.2	27.23	7.142		
4,000.0	3,975.3		3,917.7	14.2	16.0	28.31	-161.5	403.5	204.8	176.8	27.23	7.316		
4,000.0	4,073.0		4,012.2	14.0	16.6	27.86	-169.6	403.3	204.0	186.4	28.76	7.480		
4,100.0	4,073.0		4,012.2	15.5	17.1	27.45	-177.7	462.8	215.1	196.0	29.54	7.635		
4,200.0	4,170.7		4,100.0	15.9	17.1	27.43	-185.8	402.0	225.5	205.6	30.31	7.781		
,	,	,	,											
4,400.0	4,366.2		4,296.0	16.4	18.3	26.73	-193.9	522.0	246.2	215.2	31.09	7.920		
4,500.0	4,464.0		4,390.6	16.8	18.9	26.42	-202.1	551.7	256.6	224.8	31.87	8.052		
4,600.0	4,561.7		4,485.1	17.3	19.4	26.13	-210.2	581.3	267.0	234.4	32.65	8.177		
4,700.0	4,659.4		4,579.7	17.7	20.0	25.86	-218.3	611.0	277.4	244.0	33.44	8.296		
4,800.0	4,757.2	4,781.1	4,674.3	18.2	20.6	25.61	-226.4	640.6	287.8	253.6	34.23	8.409		
4,900.0	4,854.9	4,880.6	4,768.9	18.6	21.2	25.38	-234.5	670.3	298.2	263.2	35.02	8.517		
÷,⊎∪U.U	4,004.5	4,000.0	4,100.9	10.0	Z1.Z	20.00	-234.3	070.3	290.2	∠03.Z	33.UZ	0.017		

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0.0 usft

Offset Site Error:

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AZTEC PROJECT - AZTEC 14 23 FED COM 402H - OWB - PWP0

Survey Pro Refe	ogram: 0- rence	MWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dis	Rule Assig	gned:		Offset Well Error:	0.0 us
Measured Depth		Measured Depth		Reference		Highside Toolface	+N/-S	+E/-W		Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	1 40101		
5,000.0	4,952.7	4,980.0	4,863.5	19.1	21.8	25.16	-242.6	699.9	308.6	272.8	35.81	8.619		
5,100.0	5,050.4	5,079.5	4,958.1	19.6	22.4	24.96	-250.7	729.5	319.1	282.5	36.60	8.717		
5,200.0	5,148.1	5,178.9	5,052.6	20.0	23.0	24.77	-258.8	759.2	329.5	292.1	37.39	8.811		
5,300.0	5,245.9	5,278.4	5,147.2	20.5	23.6	24.59	-266.9	788.8	339.9	301.7	38.19	8.900		
5,400.0	5,343.6	5,377.8	5,241.8	21.0	24.2	24.42	-275.0	818.5	350.3	311.3	38.99	8.986		
5,500.0	5,441.3	5,477.3	5,336.4	21.4	24.8	24.27	-283.1	848.1	360.8	321.0	39.79	9.067		
5,600.0	5,539.1	5,576.7	5,431.0	21.9	25.4	24.12	-291.3	877.8	371.2	330.6	40.58	9.146		
5,700.0	5,636.8	5,676.2	5,525.6	22.4	26.0	23.98	-299.4	907.4	381.6	340.2	41.39	9.221		
5,800.0	5,734.6	5,775.6	5,620.1	22.8	26.6	23.84	-307.5	937.0	392.1	349.9	42.19	9.293		
5,900.0	5,832.3	5,875.1	5,714.7	23.3	27.2	23.72	-315.6	966.7	402.5	359.5	42.99	9.363		
6,000.0	5,930.0	5,974.5	5,809.3	23.8	27.8	23.60	-323.7	996.3	412.9	369.1	43.79	9.429		
6,100.0	6,027.8	6,074.0	5,903.9	24.3	28.4	23.48	-331.8	1,026.0	423.4	378.8	44.60	9.493		
6,200.0	6,125.5	6,173.4	5,998.5	24.7	29.0	23.37	-339.9	1,055.6	433.8	388.4	45.40	9.555		
6,300.0	6,223.2	6,272.9	6,093.0	25.2	29.6	23.27	-348.0	1,085.3	444.3	398.1	46.21	9.615		
6,400.0	6,321.0	6,372.3	6,187.6	25.7	30.2	23.17	-356.1	1,114.9	454.7	407.7	47.01	9.672		
6,500.0	6,418.7	6,471.8	6,282.2	26.2	30.9	23.08	-364.2	1,144.5	465.2	417.3	47.82	9.727		
6,600.0	6,516.5	6,571.2	6,376.8	26.6	31.5	22.99	-372.4	1,174.2	475.6	427.0	48.63	9.780		
6,700.0	6,614.2	6,670.7	6,471.4	27.1	32.1	22.90	-380.5	1,203.8	486.1	436.6	49.44	9.832		
6,800.0	6,711.9	6,770.1	6,566.0	27.6	32.7	22.82	-388.6	1,233.5	496.5	446.3	50.25	9.881		
6,900.0	6,809.7	6,869.6	6,660.5	28.1	33.3	22.74	-396.7	1,263.1	507.0	455.9	51.06	9.929		
7,000.0	6,907.4	6,969.0	6,755.1	28.6	33.9	22.66	-404.8	1,292.7	517.4	465.5	51.87	9.976		
7,100.0	7,005.1	7,068.5	6,849.7	29.0	34.5	22.59	-412.9	1,322.4	527.9	475.2	52.68	10.021		
7,200.0	7,102.9	7,167.9	6,944.3	29.5	35.2	22.52	-421.0	1,352.0	538.3	484.8	53.49	10.064		
7,300.0	7,200.6	7,267.4	7,038.9	30.0	35.8	22.45	-429.1	1,381.7	548.8	494.5	54.30	10.106		
7,400.0	7,298.4	7,366.8	7,133.5	30.5	36.4	22.39	-437.2	1,411.3	559.2	504.1	55.11	10.147		
7,500.0	7,396.1	7,466.3	7,228.0	31.0	37.0	22.32	-445.3	1,441.0	569.7	513.8	55.93	10.187		
7,600.0	7,493.8	7,565.7	7,322.6	31.5	37.6	22.26	-453.4	1,470.6	580.1	523.4	56.74	10.225		
7,700.0	7,591.6	7,665.2	7,417.2	31.9	38.2	22.21	-461.6	1,500.2	590.6	533.1	57.55	10.262		
7,800.0	7,689.3	7,764.6	7,511.8	32.4	38.9	22.15	-469.7	1,529.9	601.1	542.7	58.37	10.298		
7,900.0	7,787.1	7,864.1	7,606.4	32.9	39.5	22.10	-477.8	1,559.5	611.5	552.3	59.18	10.333		
8,000.0	7,884.8	7,963.5	7,700.9	33.4	40.1	22.04	-485.9	1,589.2	622.0	562.0	59.99	10.367		
8,100.0	7,982.5	8,063.0	7,795.5	33.9	40.7	21.99	-494.0	1,618.8	632.4	571.6	60.81	10.400		
8,200.0	8,080.3	8,172.9	7,900.2	34.4	41.4	21.95	-502.9	1,651.2	642.6	580.8	61.76	10.405		
8,300.0	8,178.0	8,300.3	8,022.9	34.8	42.1	22.01	-512.0	1,684.6	649.3	586.4	62.87	10.327		
8,400.0	8,275.7	8,428.2	8,147.4	35.3	42.8	22.20	-519.7	1,712.7	651.7	587.8	63.90	10.199		
8,500.0	8,373.5	8,556.1	8,273.0	35.8	43.4	22.54	-525.9	1,735.5	649.9	585.0	64.83	10.024		
8,600.0	8,471.2	8,683.4	8,399.0	36.3	43.9	23.02	-530.6	1,752.8	643.8	578.1	65.68	9.802		
8,700.0	8,569.0	8,809.6	8,524.6	36.8	44.3	23.65	-533.9	1,764.6	633.5	567.0	66.43	9.535		
8,800.0	8,666.7	8,934.3	8,649.2	37.3	44.7	24.47	-535.6	1,771.0	619.1	552.0	67.11	9.225		
8,900.0	8,764.4	9,050.6	8,765.4	37.8	45.0	25.41	-536.0	1,772.3	600.9	533.1	67.79	8.864		
9,000.0	8,862.2	9,148.3	8,863.2	38.3	45.3	26.30	-536.0	1,772.3	581.8	513.1	68.67	8.472		
9,100.0	8.959.9	9,246.1	8,960.9	38.8	45.5	27.25	-536.0	1,772.3	562.8	493.3	69.57	8.090		
9,200.0	9,057.6	9,343.8	9,058.6	39.2	45.7	28.27	-536.0	1,772.3	544.0	473.5	70.49	7.717		
9,300.0	9,155.4	9,441.5	9,156.4	39.7	46.0	29.35	-536.0	1,772.3	525.4	454.0	71.44	7.354		
9,400.0	9,253.1	9,539.3	9,254.1	40.2	46.2	30.52	-536.0	1,772.3	507.0	434.5	72.42	7.000		
9,500.0	9,350.9	9,637.0	9,351.9	40.7	46.5	31.77	-536.0	1,772.3	488.8	415.3	73.44	6.655		
9,600.0	9,448.6	9,734.8	9,449.6	41.2	46.7	33.12	-536.0	1,772.3	470.8	396.3	74.49	6.320		
9,800.0 9,700.0	9,446.6 9,546.3	9,734.8 9,832.5	9,449.6 9,547.3	41.2	46.7 46.9	33.12 34.57	-536.0	1,772.3	470.8 453.1	396.3 377.5	74.49 75.58	6.320 5.995		
9,700.0 9,800.0	9,540.3 9,644.1	9,832.5 9,930.2	9,547.3 9,645.1	41.7	40.9	36.13	-536.0	1,772.3	435.1	359.0	75.58	5.679		
9,800.0 9,900.0	9,644.1 9,741.8	9,930.2 10,028.0	9,645.1 9,742.8	42.2 42.7	47.2 47.4	30.13	-536.0	1,772.3	435.7 418.7	359.0 340.8	76.72	5.374		
9,900.0	9,741.8 9,839.6	10,028.0	9,742.8 9,803.8	42.7	47.4 47.6	37.83 39.28	-536.0 -539.4	1,772.3	416.7	340.8 326.8	79.53	5.374 5.108		
10,070.5	9,908.4	10,130.5	9,844.7	43.5	47.7	40.69	-546.2	1,772.4	403.6	323.2	80.46	5.017		

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Offset Site Error:

Anticollision Report

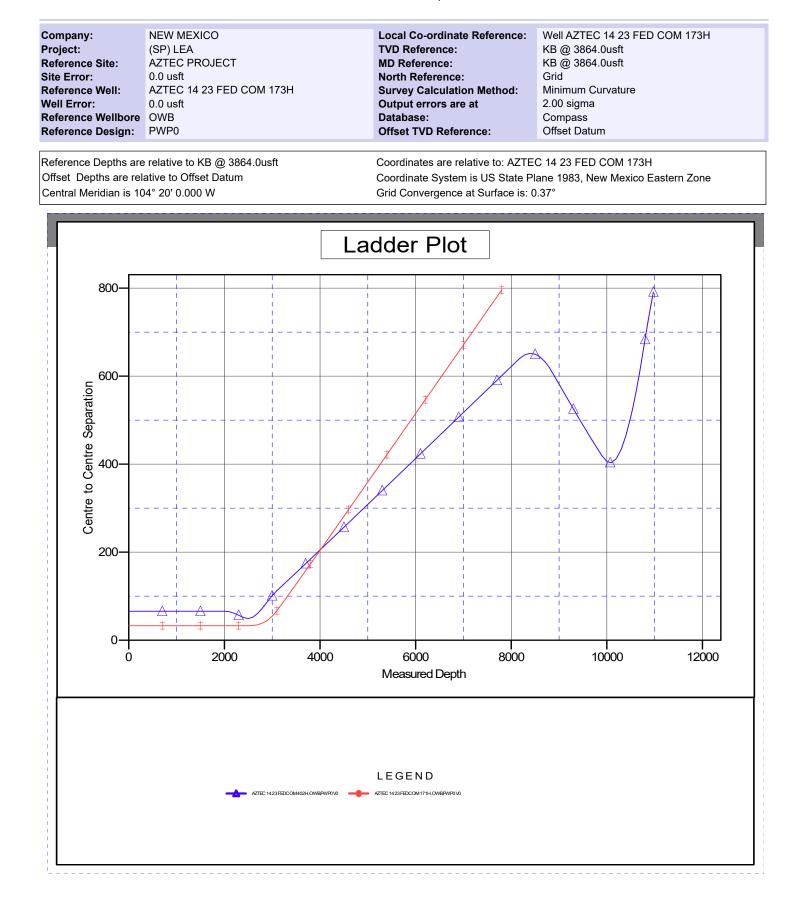
Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AZTEC PROJECT - AZTEC 14 23 FED COM 402H - OWB - PWP0

urvey Pro	gram: 0-l rence	MWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.0 us
leasured Depth (usft)		Measured Depth (usft)	Vertical Depth (usft)	(usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Warning	
10,100.0	9,937.3	10,150.0	9,863.6	43.6	47.8	41.46	-550.6	1,772.4	404.1	323.3	80.81	5.001		
10,200.0	10,035.0	10,200.0	9,911.4	44.1	47.9	43.72	-565.4	1,772.5	413.1	331.9	81.20	5.087		
10,300.0	10,132.8	10,250.0	9,957.3	44.6	48.1	46.28	-585.0	1,772.6	433.6	352.8	80.77	5.368		
10,400.0	10,230.5	10,300.0	10,000.9	45.1	48.3	49.00	-609.4	1,772.8	465.4	385.6	79.77	5.834		
10,500.0	10,328.2	10,350.0	10,041.8	45.6	48.4	51.77	-638.2	1,772.9	507.7	429.2	78.49	6.468		
10,600.0	10,426.0	10,375.0	10,061.0	46.1	48.5	53.13	-654.2	1,773.0	559.0	483.7	75.34	7.420		
10,700.0	10,523.7	10,414.3	10,089.5	46.6	48.7	55.19	-681.3	1,773.2	618.0	544.6	73.40	8.419		
10,800.0	10,621.5	10,450.0	10,113.3	47.1	48.8	56.97	-707.8	1,773.3	683.4	612.0	71.48	9.561		
10,813.9	10,635.0	10,450.0	10,113.3	47.2	48.8	56.97	-707.8	1,773.3	692.9	622.0	70.89	9.773		
10,825.0	10,645.9	10,450.0	10,113.3	47.2	48.8	51.51	-707.8	1,773.3	700.5	630.1	70.42	9.946		
10,850.0	10,670.2	10,450.0	10,113.3	47.3	48.8	40.45	-707.8	1,773.3	717.2	647.9	69.34	10.343		
10,875.0	10,694.5	10,464.2	10,122.3	47.5	48.9	32.02	-718.9	1,773.4	733.3	664.0	69.21	10.595		
10,900.0	10,718.5	10,475.0	10,128.8	47.6	48.9	25.39	-727.4	1,773.4	748.8	680.0	68.79	10.884		
10,925.0	10,742.2	10,475.0	10,128.8	47.7	48.9	20.03	-727.4	1,773.4	763.6	696.0	67.62	11.292		
10,950.0	10,765.6	10,486.3	10,135.5	47.8	48.9	16.24	-736.6	1,773.5	777.8	710.6	67.18	11.577		
10,975.0	10,788.6	10,500.0	10,143.3	48.0	49.0	13.39	-747.8	1,773.5	791.4	724.5	66.86	11.836		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

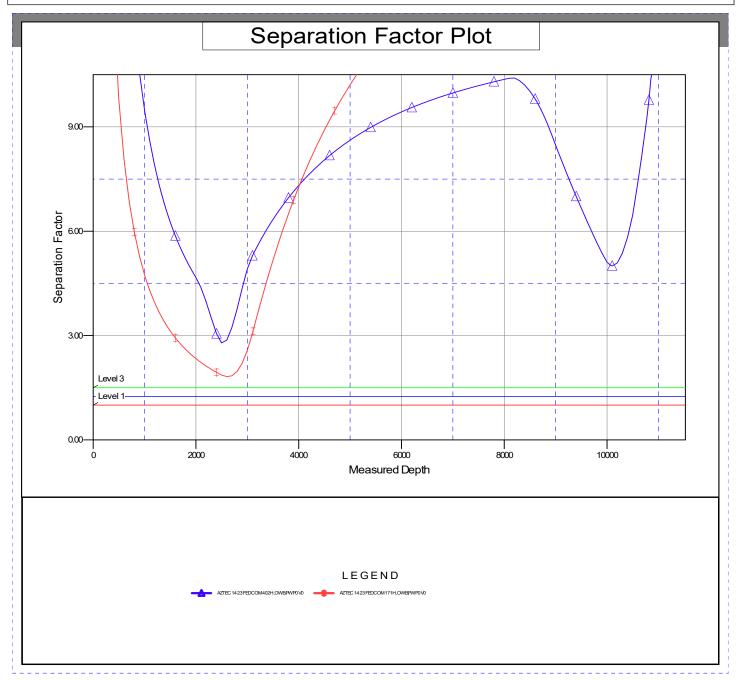
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Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well AZTEC 14 23 FED COM 173H				
Project:	(SP) LEA	TVD Reference:	KB @ 3864.0usft				
Reference Site:	AZTEC PROJECT	MD Reference:	KB @ 3864.0usft				
Site Error:	0.0 usft	North Reference:	Grid				
Reference Well:	AZTEC 14 23 FED COM 173H	Survey Calculation Method:	Minimum Curvature				
Well Error:	0.0 usft	Output errors are at	2.00 sigma				
Reference Wellbore	OWB	Database:	Compass				
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum				
Reference Depths are	e relative to KB @ 3864.0usft	Coordinates are relative to: AZTEC 14 23 FED COM 173H					

Reference Depths are relative to KB @ 3864.0usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: AZTEC 14 23 FED COM 173H Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: 0.37°



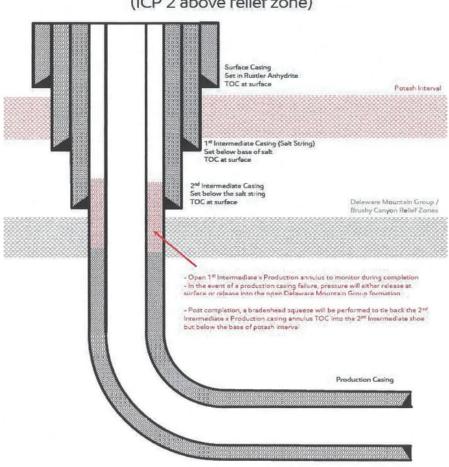
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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The WBD below depicts the ccement design required for R111Q.

The annulus between the production and intermediate casing strings shall be actively monitored for pressure during hydraulic fracturing operations. If pressure communication is observed, indicating a possible production casing failure, hydraulic fracturing operations must immediately cease, and source of the pressure increase shall be investigated. During hydraulic fracturing operations, a pressure relief valve or appropriate venting system shall be installed to relieve pressure in the event of a production casing failure. The opening pressure of any pressure relief valves must be set below 50% of the intermediate casing burst rating. If the well design features an uncemented intermediate casing shoe (for example as shown in Exhibit B, Figure B) and the well approaches to within ¼ mile of an offset well drilling, completing or producing from the Delaware Mountain Group, then the pressure relief valve opening pressure shall be set no more than 1000 psi and at no time shall the pressure on the annulus be allowed to exceed 1000 psi. This requirement can be waived by the offset well operator. Production cement will be 500' below the 2nd intermediate shoe with 0% excess leaving the DMG uncemented as a pressure relief zone.

Bradenhead operations will be performed within 180 days of completing hydraulic fracturing operations, tying back cement at least 500' inside the 2nd intermediate shoe but below Marker Bed 126.



4-String Design – Open 1st Int x Production Casing (ICP 2 above relief zone)

[Figure E] 4 String – Uncemented Annulus between 2nd Intermediate and Production Casing Strings

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	Er		e of New Mez nd Natural Res	kico ources Departme	ent	Submit Electronically Via E-permitting
		1220 \$	onservation Di South St. Fran Ita Fe, NM 87	cis Dr.		
	N	ATURAL GA	AS MANA	GEMENT P	LAN	
This Natural Gas Manag	gement Plan mu	ist be submitted wi	ith each Applica	tion for Permit to I	Drill (APD) for a	new or recompleted well.
		Section Ef	<u>1 – Plan D</u> ffective May 25,	<u>escription</u> 2021		
I. Operator: P <u>ermian</u>	Resources	Operating, LL	<u>_C</u> ogrid:	372165	Date:	07 / 17 /2025
II. Type: 🛛 Original	Amendment o	due to \Box 19.15.27.	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) NMAC 🗆	Other.
If Other, please describe	:					
III. Well(s): Provide the be recompleted from a s					wells proposed to	o be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED	WELL LIST					
IV. Central Delivery P	oint Name: <u>A</u>	ztec 14 23 Fe	d Com SES	<u>N 2</u>	[See	19.15.27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple		e		-	vell or set of well	ls proposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		
SEE ATTACHED	WELL LIS	Γ				
VI. Separation Equipn	nent: 🙀 Attach	a complete descri	ption of how Op	erator will size sep	aration equipme	nt to optimize gas capture.
VII. Operational Prac Subsection A through F			ription of the ac	tions Operator wil	l take to comply	with the requirements of
VIII. Best Managemen during active and planne		-	te description of	Operator's best n	nanagement prac	ctices to minimize venting

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in Released to Imaging	Anticipated Gathering : 7/22/2020 101 102 103 103 103 103 103 103 103 103 103 103	Available Maximum Daily Capacity of System Segment Tie-in	

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

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

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

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

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

Page 7

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

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

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

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

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

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

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

Section 4 - Notices

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

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

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Page 8

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

Signature: Released to Imaging: 7/22/2025 1:32:18 PM							
Printed Name: Jennifer Elrod							
Title: Sr. Regulatory Analyst							
E-mail Address: jennifer.elrod@permianres.com							
Date: 7/17/2025							
Phone: 940-452-6214							
OIL CONSERVATION DIVISION							
OIL CONSERVATION DIVISION							
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)							
(Only applicable when submitted as a standalone form)							
(Only applicable when submitted as a standalone form) Approved By:							
(Only applicable when submitted as a standalone form) Approved By: Title:							
(Only applicable when submitted as a standalone form) Approved By:							
(Only applicable when submitted as a standalone form) Approved By:							
(Only applicable when submitted as a standalone form) Approved By:							

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WELL NAME	API	UL/SECT/T/R	FOOTAGES	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED WATER BBL/D
Aztec 14 23 Fed Com 301H		M-11-21S-32E	566' FSL, 404' FWL	500	800	4500
Aztec 14 23 Fed Com 302H		M-11-21S-32E	583' FSL, 432' FWL	500	800	4500
Aztec 14 23 Fed Com 401H		M-11-21S-32E	601' FSL, 460' FWL	1100	1600	2600
Aztec 14 23 Fed Com 402H		M-11-21S-32E	619' FSL, 488' FWL	1100	1600	2600
Aztec 14 23 Fed Com 171H		M-11-21S-32E	637' FSL, 515' FWL	1100	1600	2600
Aztec 14 23 Fed Com 173H		M-11-21S-32E	655' FSL, 543' FWL	1100	1600	2600
	API	SPUD	TD	COMPLETION DATE	FLOW BACK DATE	FIRST PRODUCTION
Aztec 14 23 Fed Com 301H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025
Aztec 14 23 Fed Com 302H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025
Aztec 14 23 Fed Com 401H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025
Aztec 14 23 Fed Com 402H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025
Aztec 14 23 Fed Com 171H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025
Aztec 14 23 Fed Com 173H		4/1/2025	5/1/2025	7/1/2025	8/1/2025	8/1/2025

WELL NAME	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
Aztec 14 23 Fed Com 301H		500	242436
Aztec 14 23 Fed Com 302H		500	242436
Aztec 14 23 Fed Com 401H		950	352500
Aztec 14 23 Fed Com 402H		950	352500
Aztec 14 23 Fed Com 171H		950	352500
Aztec 14 23 Fed Com 173H		950	352500

Permian Resources Operating, LLC (372165)

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

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

VII. Operational Practices:

Drilling

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

Flowback

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

Production

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

Performance Standards

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

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

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

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

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

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

- Closed-loop systems
- Enclosed and properly sized tanks

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

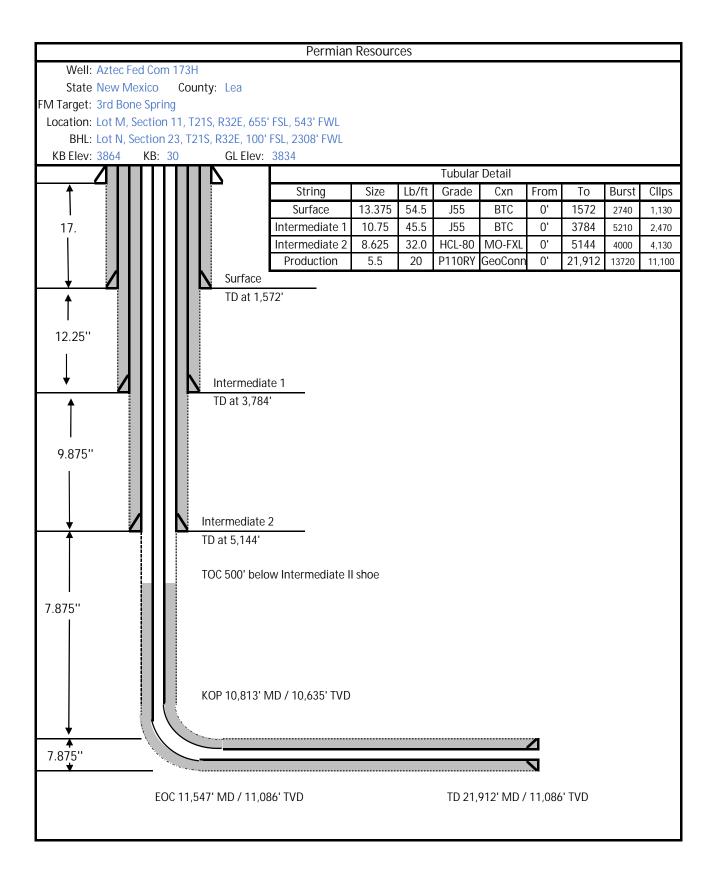
Measurement or estimation

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

VIII. Best Management Practices:

Permian 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



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 <u>§§ 3172.6</u> through <u>3172.12</u>. 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

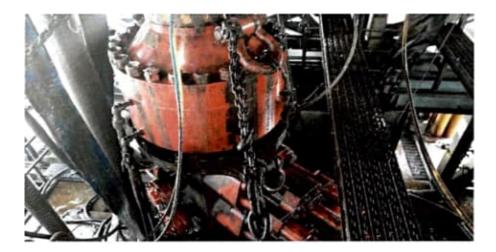


Figure 2: BOP Winch System



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.

Table C.4—Initial Pressure Testing, Surface BOP Stacks Pressure Test—High Pressure***						
Component to be Pressure Tested	Pressure Test—Low 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 [∞]	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP			
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2 41)	RWP of side outlet valve or wellhead system, whichever is lower	пр			
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP			
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M 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				
Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, th	during the evaluation period. The p ssure lested on the largest and sma from one wellhead to another within when the integray of a pressure set ie ram BOPs shall be pressure test land operations, the ram BOPs sha	ressure shall not decrease below the allest OD drill pipe to be used in well the 21 days, pressure testing is req al is broken. ed with the ram locks engaged and II be pressure tested with the ram loc	program. ured for pressure-containing an the closing and locking pressure			

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.

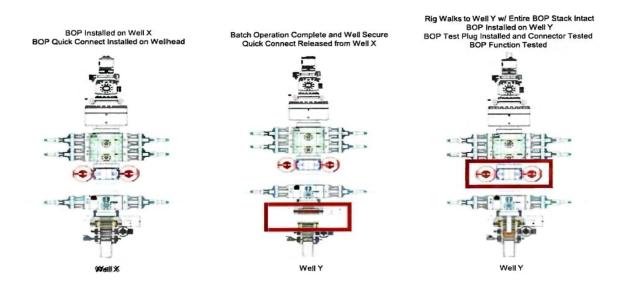
9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).

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.

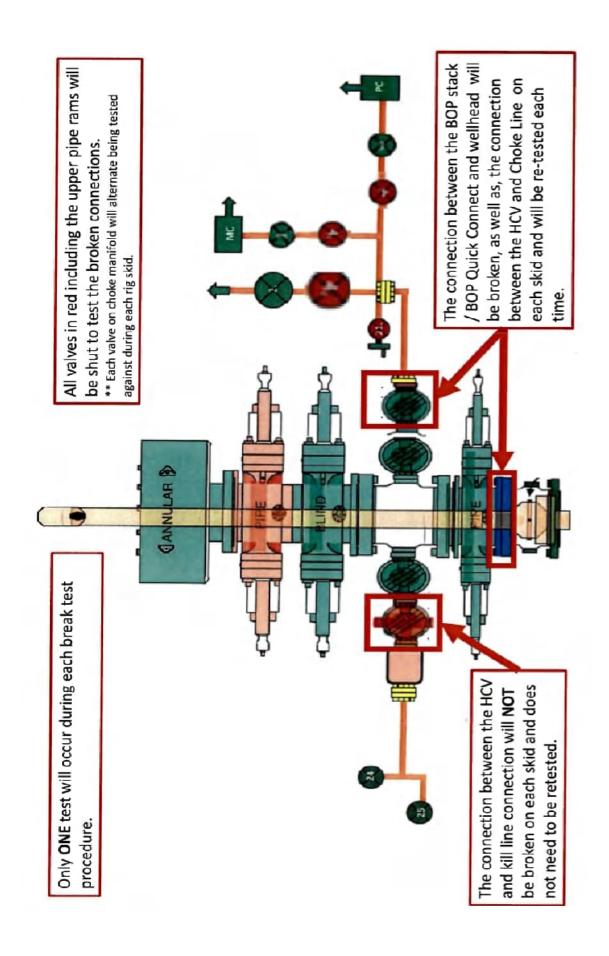
Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

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.



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.

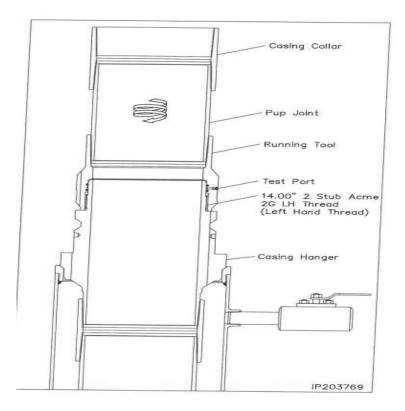


Illustration 1-1

<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.
- 2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 3. Install wear bushing then drill out 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.

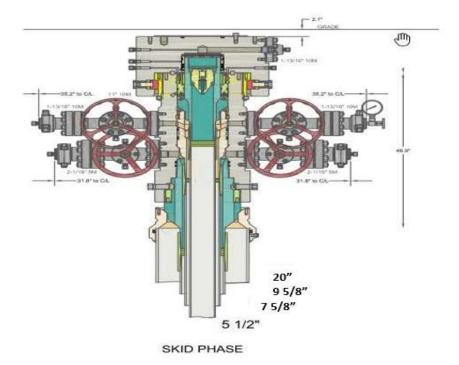
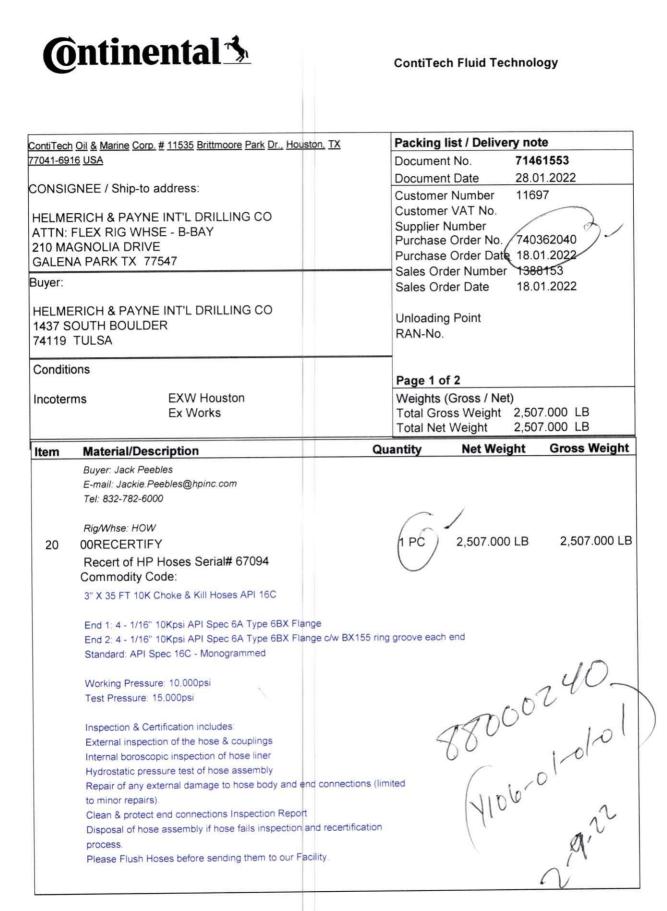


Illustration 2-2

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

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



ContiTech Rubber Industrial Kft. H-6728 Szeged Budapesti út 10. P. O. Box 152 Szeged H-6701 Phone: (62)566-700, Fax (62)566-713 Tax Number: 11087209-2-06 EU Community VAT: HU11087209 Registration No. Cg. 0609-002502 Registry Court: Csongrád Megyei Cégbiróság

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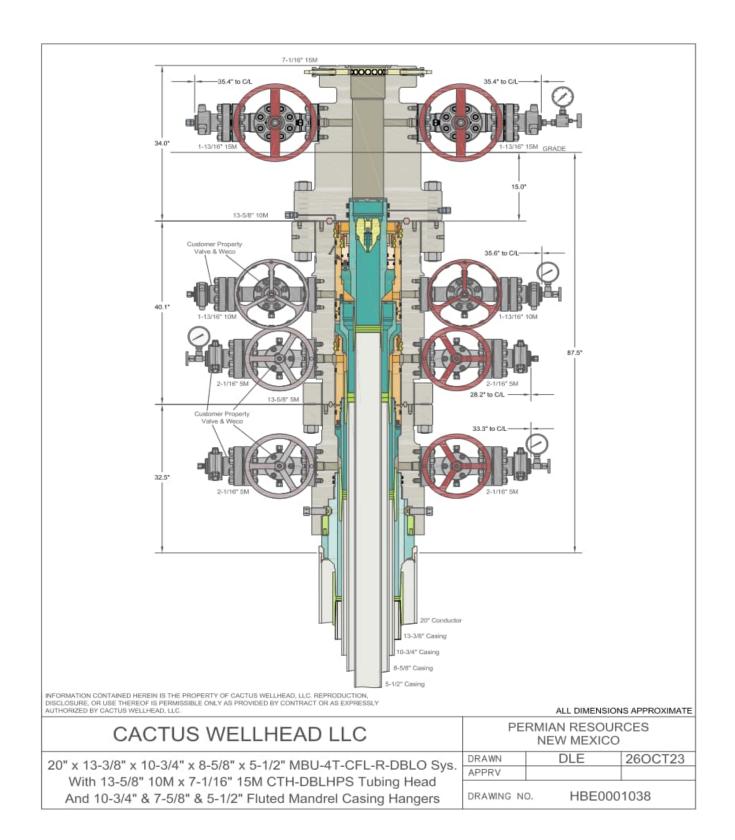
COMMERZBANK ZRT. (HUF) H-1054 Budapest, Széchenyi rakpart 8. H-1245 Budapest P.O. Box 1070 Account No. 14220108-26830003 IBAN: HUB 1422 0108 2683 0003 0000 0000 SWIFT: COBA HU HXXXX COMMERZBANK AG Hannover (EUR) 30159 Hannover, Theaterstr. 11-12. Account No: 3 066 156 00 Sort Code: 250 400 66. BIC: COBADEFF250 IBAN: DE41250400660306615600

Hydrostatic Test Certificate

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

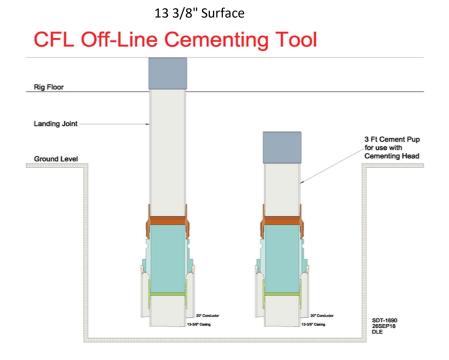
We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

20 RECERTIFICATION 1 67094 10,000 15,000 60 Record Information Start Time 1/27/2022 13:21:21 End Time 1/27/2022 14:38:28 Interval 00:01:00 Number 78 MaxValue 15849 MinValue 14240 RecordNamber 199 Nodel ADT680 SN 21817380014 Range (0-40000)psi Unit psi	Item	Part No.		Description		Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
Start Time 1/27/2022 13:21:21 End Time 1/27/2022 14:38:28 Interval 00:01:00 Number 78 MaxValue 15849 MinValue -3 AvgValue 14240 RecordName 67094-sh RecordNumber 199 Model ADT680 SN 21817380014 Range (0-40000)psi	20	RECERTIFICATION	3"	ID 10K Choke and Kill Hose x 35ft OAL		1	67094	10,000	15,000	60
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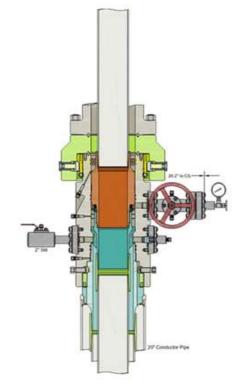


Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

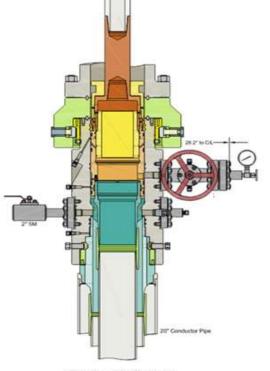
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple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



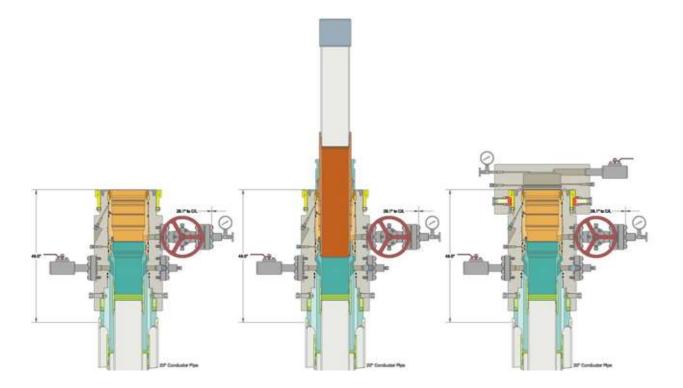
Intermediate



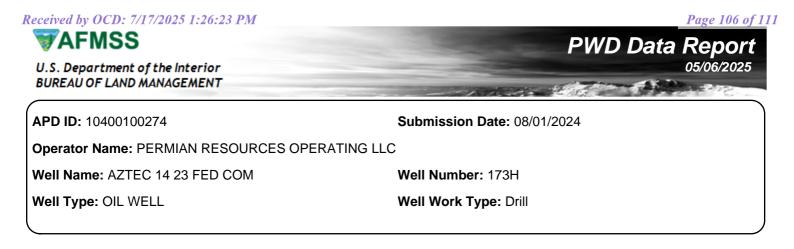
Run 7 5/8" Casing Land Casing on 7 5/8" Mandrel Hanger Cement 7 5/8" Casing Retrieve Running Tool



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







Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit Pit liner description: **Pit liner manufacturers** Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule Lined pit reclamation description: Lined pit reclamation Leak detection system description: Leak detection system

PWD disturbance (acres):

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

Lined pit Monitor description: Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

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Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

PWD surface owner:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

 Produced Water Disposal (PWD) Location:

 PWD surface owner:
 PWD disturbance (acres):

 Surface discharge PWD discharge volume (bbl/day):
 PWD disturbance (acres):

 Surface Discharge NPDES Permit?
 Surface Discharge NPDES Permit attachment:

 Surface Discharge site facilities information:
 Surface discharge site facilities map:

 Section 6 Section 6

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

PWD disturbance (acres):

Injection well name:

Injection well API number:

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: AZTEC 14 23 FED COM

Well Number: 173H

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Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS

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

APD ID: 10400100274 **Operator Name: PERMIAN RESOURCES OPERATING LLC** Well Name: AZTEC 14 23 FED COM

Well Type: OIL WELL

Submission Date: 08/01/2024

-

and and a

Well Number: 173H Well Work Type: Drill Highlighted data reflects the most recent changes Show Final Text

Bond Info Data

Page 110 of 111

05/06/2025

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001841

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

General Information Phone: (505) 629-6116

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

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

Page 111 of 111 CONDITIONS

Action 233406

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	233406
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
clevans	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/17/2025
clevans	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/17/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	7/22/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	7/22/2025
matthew.gomez	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.	7/22/2025
matthew.gomez	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.	7/22/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/22/2025
matthew.gomez	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface above the Capitan Reef. The second intermediate string shall be set and cemented back to surface below the base of the Capitan Reef.	7/22/2025
matthew.gomez	Brine water shall not be used in the Capitan Reef. Only freshwater based mud shall be utilized until the Capitan Reef is cased and cemented.	7/22/2025
matthew.gomez	This well is proposed to be within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.	7/22/2025