

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-53691
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		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 acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions 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 well, 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 directionally 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 well 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 will 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 connects this information to an 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: NENE / 529 FNL / 1262 FEL / TWSP: 22S / RANGE: 34E / SECTION: 23 / LAT: 32.383002 / LONG: -103.436295 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2296 FEL / TWSP: 22S / RANGE: 34E / SECTION: 23 / LAT: 32.384182 / LONG: -103.43964 (TVD: 9600 feet, MD: 9985 feet)

PPP: NENW / 0 FNL / 2296 FEL / TWSP: 22S / RANGE: 34E / SECTION: 26 / LAT: 32.369938 / LONG: -103.439678 (TVD: 9600 feet, MD: 14691 feet)

BHL: SWSE / 100 FSL / 2296 FEL / TWSP: 22S / RANGE: 34E / SECTION: 26 / LAT: 32.355697 / LONG: -103.439716 (TVD: 9600 feet, MD: 19871 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.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025-53691	Pool Code 96553	Pool Name OJO CHISO; BONE SPRING
Property Code 336348	Property Name TOUR BUS 23 FED COM	Well Number 303H
OGRID No. 372165	Operator Name PERMIAN RESOURCES OPERATING, LLC	Ground Level Elevation 3472.6'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL A	Section 23	Township 22S	Range 34E	Lot	Ft. from N/S 529 NORTH	Ft. from E/W 1262 EAST	Latitude (NAD 83) 32.383002°	Longitude (NAD 83) -103.436295°	County LEA
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Bottom Hole Location

UL O	Section 26	Township 22S	Range 34E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2296 EAST	Latitude (NAD 83) 32.355697°	Longitude (NAD 83) -103.439716°	County LEA
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Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API Pending	Overlapping Spacing Unit (Y/N) Y	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL A	Section 23	Township 22S	Range 34E	Lot	Ft. from N/S 529 NORTH	Ft. from E/W 1262 EAST	Latitude (NAD 83) 32.383002°	Longitude (NAD 83) -103.436295°	County LEA
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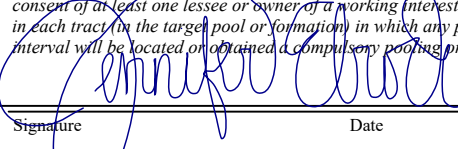
First Take Point (FTP)

UL B	Section 23	Township 22S	Range 34E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2296 EAST	Latitude (NAD 83) 32.384182°	Longitude (NAD 83) -103.439640°	County LEA
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Last Take Point (LTP)

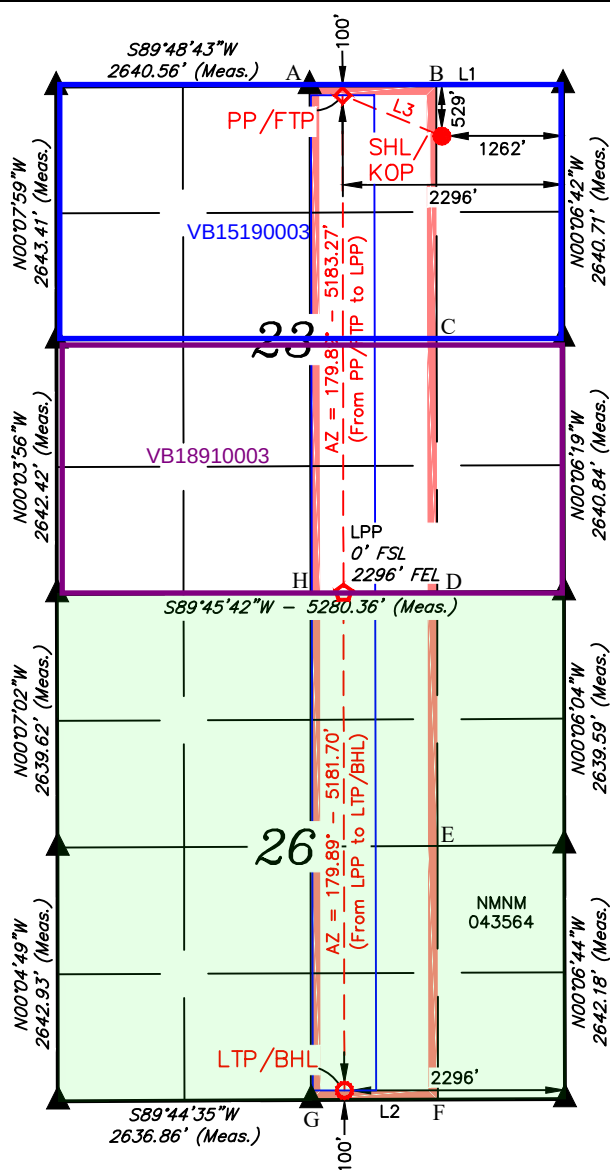
UL O	Section 26	Township 22S	Range 34E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2296 EAST	Latitude (NAD 83) 32.355697°	Longitude (NAD 83) -103.439716°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract in the target pool or formation in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  10/2/2024 Signature Date JENNIFER ELROD Printed Name JENNIFER.ELROD@PERMIANRES.COM Email Address	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the full copies of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  23782 September 21, 2023 Signature and Seal of Professional Surveyor Certificate Number Date of Survey
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Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name TOUR BUS 23 FED COM	Well Number 303H	Drawn By Z.L. 10-05-23	Revised By REV. 2 T.I.R. 08-08-24 (ADD HSU & UPDATE LEASE)
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LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°48'16"W	2638.94'
L2	S89°45'48"W	2644.24'

WELL BORE LINE TABLE		
LINE	DIRECTION	LENGTH
L3	AZ = 292.34°	1118.43'

HSU COORDINATES				
POINT	NAD 27 N.M. STATE PLANE, EAST ZONE		NAD 83 N.M. STATE PLANE, EAST ZONE	
	NORTHING	EASTING	NORTHING	EASTING
A	504686.12	775688.51	504746.75	816871.81
B	504696.16	777007.70	504756.80	818191.03
C	502055.40	777023.51	502115.96	818206.91
D	499414.70	777039.18	499475.18	818222.63
E	496775.63	777054.01	496836.04	818237.50
F	494134.03	777069.09	494194.36	818252.64
G	494123.02	775747.26	494183.35	816930.78
H	499403.67	775719.38	499464.15	816902.79

NAD 83 (SHL/KOP)		FOOTAGE
LATITUDE = 32°22'58.81" (32.383002°)		529' FNL
LONGITUDE = -103°26'10.66" (-103.436295°)		1262' FEL
NAD 27 (SHL/KOP)		
LATITUDE = 32°22'58.36" (32.382877°)		
LONGITUDE = -103°26'08.94" (-103.435816°)		
STATE PLANE NAD 83 (N.M. EAST)		
N: 504228.63' E: 818251.38'		
STATE PLANE NAD 27 (N.M. EAST)		
N: 504168.01' E: 777068.03'		

NAD 83 (PP/FTP)		FOOTAGE
LATITUDE = 32°23'03.06" (32.384182°)		100' FNL
LONGITUDE = -103°26'22.70" (-103.439640°)		2296' FEL
NAD 27 (PP/FTP)		
LATITUDE = 32°23'02.61" (32.384058°)		
LONGITUDE = -103°26'20.98" (-103.439161°)		
STATE PLANE NAD 83 (N.M. EAST)		
N: 504649.38' E: 817215.30'		
STATE PLANE NAD 27 (N.M. EAST)		
N: 504588.75' E: 776031.99'		

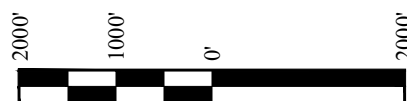
NAD 83 (LPP)	FOOTAGE 0' FNL 2296' FEL
LATITUDE = 32°22'11.78" (32.369938°)	
LONGITUDE = -103°26'22.84" (-103.439678°)	
NAD 27 (LPP)	
LATITUDE = 32°22'11.33" (32.369813°)	
LONGITUDE = -103°26'21.12" (-103.439199°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 499467.02' E: 817246.82'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 499406.54' E: 776063.41'	

NAD 83 (LTP/BHL)		FOOTAGE
LATITUDE = 32°21'20.51" (32.355697°)		100' FSL
LONGITUDE = -103°26'22.98" (-103.439716°)		2296' FEL
NAD 27 (LTP/BHL)		
LATITUDE = 32°21'20.06" (32.355573°)		
LONGITUDE = -103°26'21.26" (-103.439238°)		
STATE PLANE NAD 83 (N.M. EAST)		
N: 494286.23' E: 817278.33'		
STATE PLANE NAD 27 (N.M. EAST)		
N: 494225.90' E: 776094.81'		

- = SURFACE HOLE LOCATION/KICK OFF POINT.
- ◆ = PENETRATION POINT/FIRST TAKE POINT.
- ◇ = LEASE PENETRATION POINT.
- = LAST TAKE POINT/BOTTOM HOLE LOCATION.
- = HORIZONTAL SPACING UNIT
- ▲ = SECTION CORNER LOCATED.
- = 330' BUFFER FROM WELLBORE.

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent oil & gas leases.



SCALE

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Permian Resources Operating, LLC **COGRID:** 372165 **Date:** 10 / 07 / 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED WELL LIST						

IV. Central Delivery Point Name: TOUR BUS 23 FED COM CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED WELL LIST						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

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

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
Targa	Targa Northern	Sect. 30	5/15/2025	15 mmcf/d
	Delaware	22S, 35E	5/15/2025	

XI. Map. ☒ 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 ☒ will ☐ 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 ☒ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

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

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

WELL NAME	API	UL/SECT/T/R	FOOTAGES	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED WATER BBL/D
Tour Bus 23 Fed Com 302H		A-23-22S-34E	527' FNL, 1295' FEL	1200	1800	6400
Tour Bus 23 Fed Com 303H		A-23-22S-34E	529' FNL, 1262' FEL	1200	1800	6400
Tour Bus 23 Fed Com 304H		A-23-22S-34E	530' FNL, 1229' FEL	1200	1800	6400
Tour Bus 23 Fed Com 602H		A-23-22S-34E	397' FNL, 1290' FEL	2500	3200	4800
Tour Bus 23 Fed Com 603H		A-23-22S-34E	399' FNL, 1257' FEL	2500	3200	4800
Tour Bus 23 Fed Com 604H		A-23-22S-34E	400' FNL, 1224' FEL	2500	3200	4800
WELL NAME	API	SPUD	TD	COMPLETION DATE	FLOW BACK DATE	FIRST PRODUCTION
Tour Bus 23 Fed Com 302H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
Tour Bus 23 Fed Com 303H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
Tour Bus 23 Fed Com 304H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
Tour Bus 23 Fed Com 602H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
Tour Bus 23 Fed Com 603H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
Tour Bus 23 Fed Com 604H		12/2/2024	1/2/2025	4/15/2025	5/15/2025	5/15/2025
WELL NAME	API	Anticipated Average Natural Gas Rate MCF/D			Anticipated Volume of Natural Gas for the First Year MCF	
Tour Bus 23 Fed Com 302H		1286			469,390	
Tour Bus 23 Fed Com 303H		1286			469,390	

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

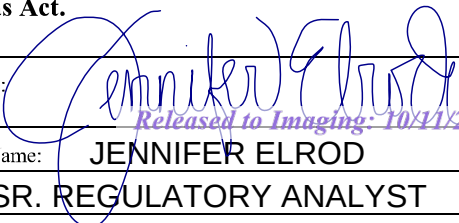
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature:	 <i>Released to Imaging: 10/11/2024 1:29:59 PM</i>
Printed Name:	JENNIFER ELROD
Title:	SR. REGULATORY ANALYST
E-mail Address:	JENNIFER.ELROD@PERMIANRES.COM
Date:	10/7/2024
Phone:	940-452-6214

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

Permian Resources Operating, LLC (372165)

Natural Gas Management Plan Descriptions**VI. Separation Equipment:**

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

VII. Operational Practices:*Drilling*

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

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas through 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

Permian Resources Operating, LLC (372165)

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

Measurement or estimation

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

VIII. Best Management Practices:

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

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

Enhanced Natural Gas Management Plan

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

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



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

Drilling Plan Data Report

10/07/2024

APD ID: 10400096218

Submission Date: 12/12/2023

Highlighted data
reflects the most
recent changes

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COM

Well Number: 303H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14264896	RUSTLER	1779	1723	1723	SANDSTONE	USEABLE WATER	N
14264898	TOP SALT	-347	2126	2126	SALT	NONE	N
14264899	YATES	-1833	3612	3612	ANHYDRITE, SHALE	NONE	N
14264900	CAPITAN REEF	-2124	3903	3903	LIMESTONE	NONE	N
14264901	CHERRY CANYON	-4014	5793	5793	SANDSTONE	NATURAL GAS, OIL	N
14264902	BRUSHY CANYON	-5382	7161	7161	SANDSTONE	NATURAL GAS, OIL	N
14264903	BONE SPRING LIME	-6687	8466	8466	LIMESTONE, SHALE	NATURAL GAS, OIL	N
14264904	BONE SPRING 1ST	-7797	9576	9576	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 5743

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

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

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COMWell Number: 303H

non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachment:

Tour_Bus_23_Fed_5MCM_20240716094733.pdf

BOP Diagram Attachment:

Tour_Bus_23_Fed_5MBOP_20240716094737.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	1748	0	1748	3473	1725	1748	J-55	54.5	BUTT	1.31	1.35	DRY	4.66	DRY	4.37
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5743	0	5743	3472	-2270	5743	J-55	40	BUTT	2.46	1.52	DRY	2.17	DRY	1.91
3	PRODUCTION	8.75	5.5	NEW	API	N	0	9985	0	9600	3472	-6127	9985	P-110	20	OTHER - TCBD-HT	2.12	2.21	DRY	2.2	DRY	2.2
4	PRODUCTION	7.875	5.5	NEW	API	N	9985	19871	9600	9600	-6128	-6127	9886	P-110	20	OTHER - TCBC-HT	2.12	2.21	DRY	2.2	DRY	2.2

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Tour_Bus_23_Fed_303H_Csg_20240716094654.pdf

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COMWell Number: 303H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Tour_Bus_23_Fed_303H_Csg_20240716094627.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Tour_Bus_23_Fed_303H_Csg_20240716094636.pdf

Casing ID: 4StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Tour_Bus_23_Fed_303H_Csg_20240716094644.pdf

Section 4 - Cement

Operator Name: PERMIAN RESOURCES OPERATING LLC**Well Name:** TOUR BUS 23 FEDERAL COM**Well Number:** 303H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1390	1040	1.88	12.9	1940	100	Class C	EconoCem-HLC + 5% Salt + 5% KOL-Seal
SURFACE	Tail		1390	1748	290	1.34	14.8	380	50	Class C	Accelerator
INTERMEDIATE	Lead		0	3137	690	1.88	12.9	1290	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail		3137	3637	160	1.33	14.8	200	25	Class C	Salt
INTERMEDIATE	Lead	3637	3637	4590	240	1.88	12.9	450	50	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
INTERMEDIATE	Tail		4590	5743	420	1.34	14.8	550	50	Class C	Retarder
PRODUCTION	Lead		5243	9235	570	2.41	11.5	1370	40	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
PRODUCTION	Tail		9235	19871	1380	1.73	12.5	2380	25	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

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

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

Circulating Medium Table

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COMWell Number: 303H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1748	SPUD MUD	8.6	9.5							
1748	5743	SALT SATURATED	10	10							
5743	9985	OTHER : Fresh Water	8.6	9.5							
9985	1987 1	OIL-BASED MUD	9	10.5							

Section 6 - Test, Logging, Coring

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

Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

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

DIRECTIONAL SURVEY,GAMMA RAY LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5250

Anticipated Surface Pressure: 3137

Anticipated Bottom Hole Temperature(F): 152

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

H2S_Contingency_Plan_Tour_Bus_23_Fed_Com_302H__303H__304H__602H__603H__604H_20231211100038.pdf

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COM

Well Number: 303H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

TOUR_BUS_23_FED_COM_303H_PWP_SVY_RPT_20231211152140.pdf

TOUR_BUS_23_FED_COM_303H_PWP_AC_RPT_20231211152148.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Tour_Bus_23_Fed_MBS_20240716094414.pdf

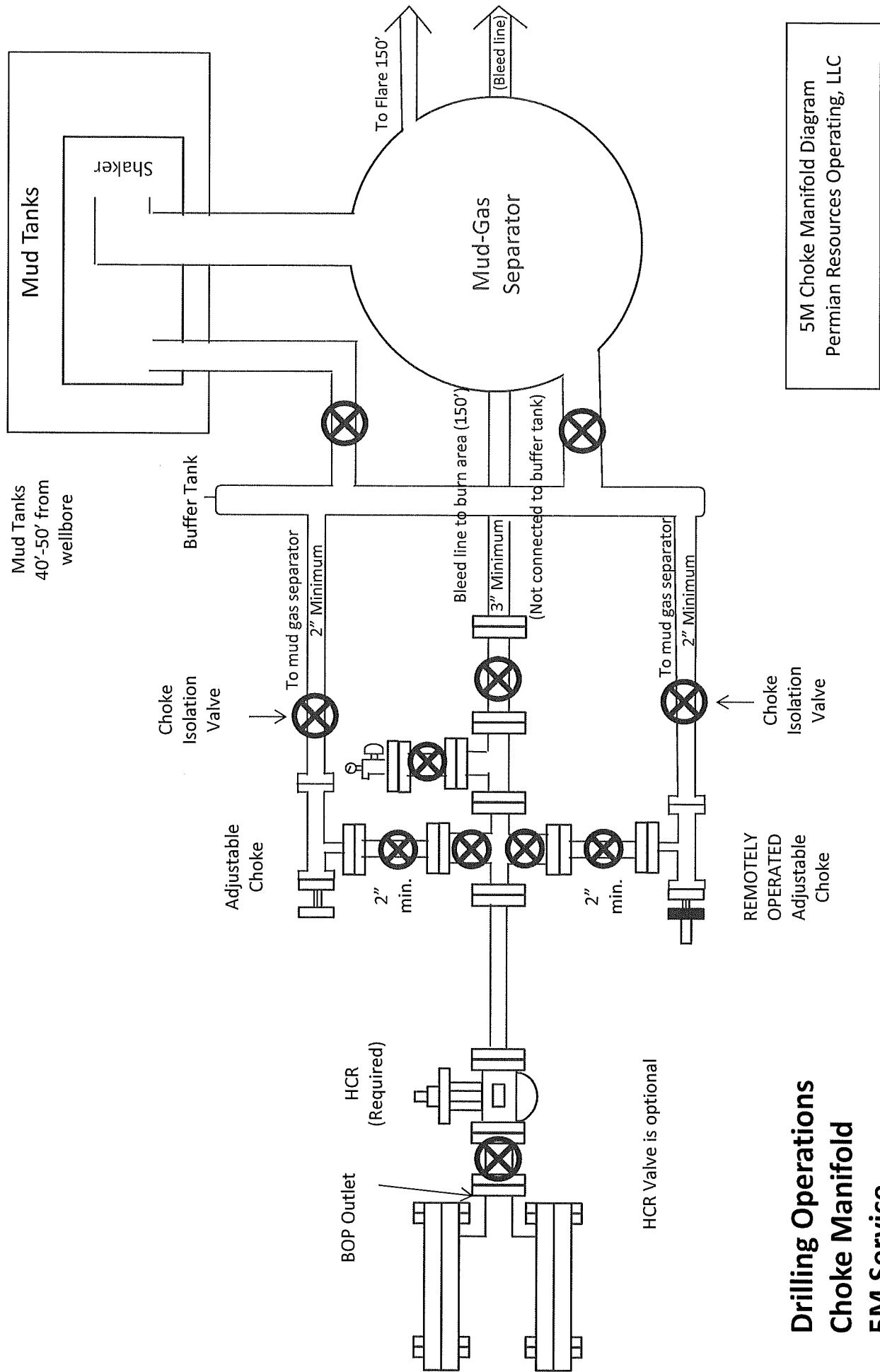
Tour_Bus_23_Fed_Break_20240716094414.pdf

Tour_Bus_23_Fed_Batch_20240716094414.pdf

Tour_Bus_23_Fed_FH_20240716094414.pdf

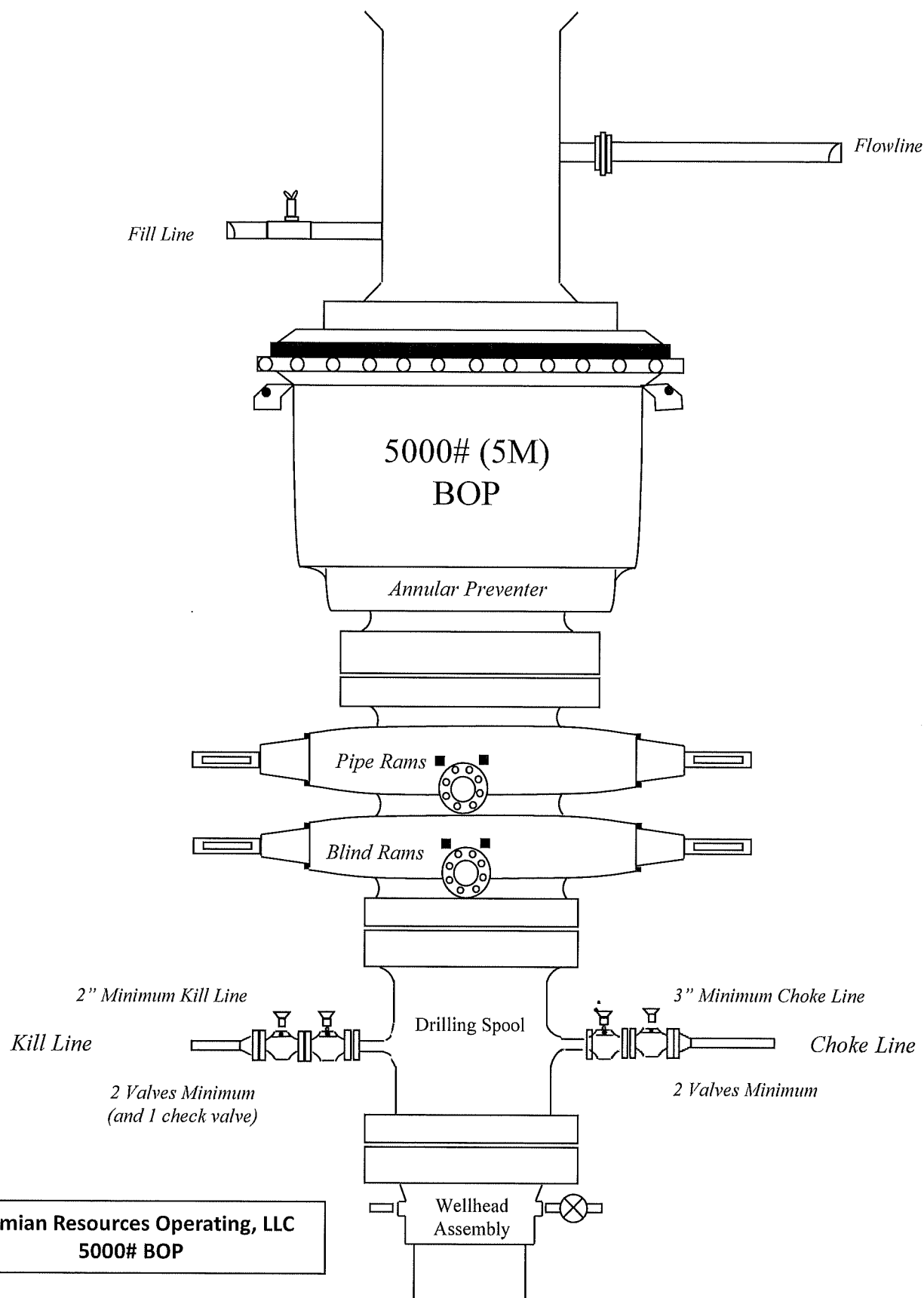
Tour_Bus_23_Fed_OLCV_20240716094414.pdf

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



5M Choke Manifold Diagram
Permian Resources Operating, LLC

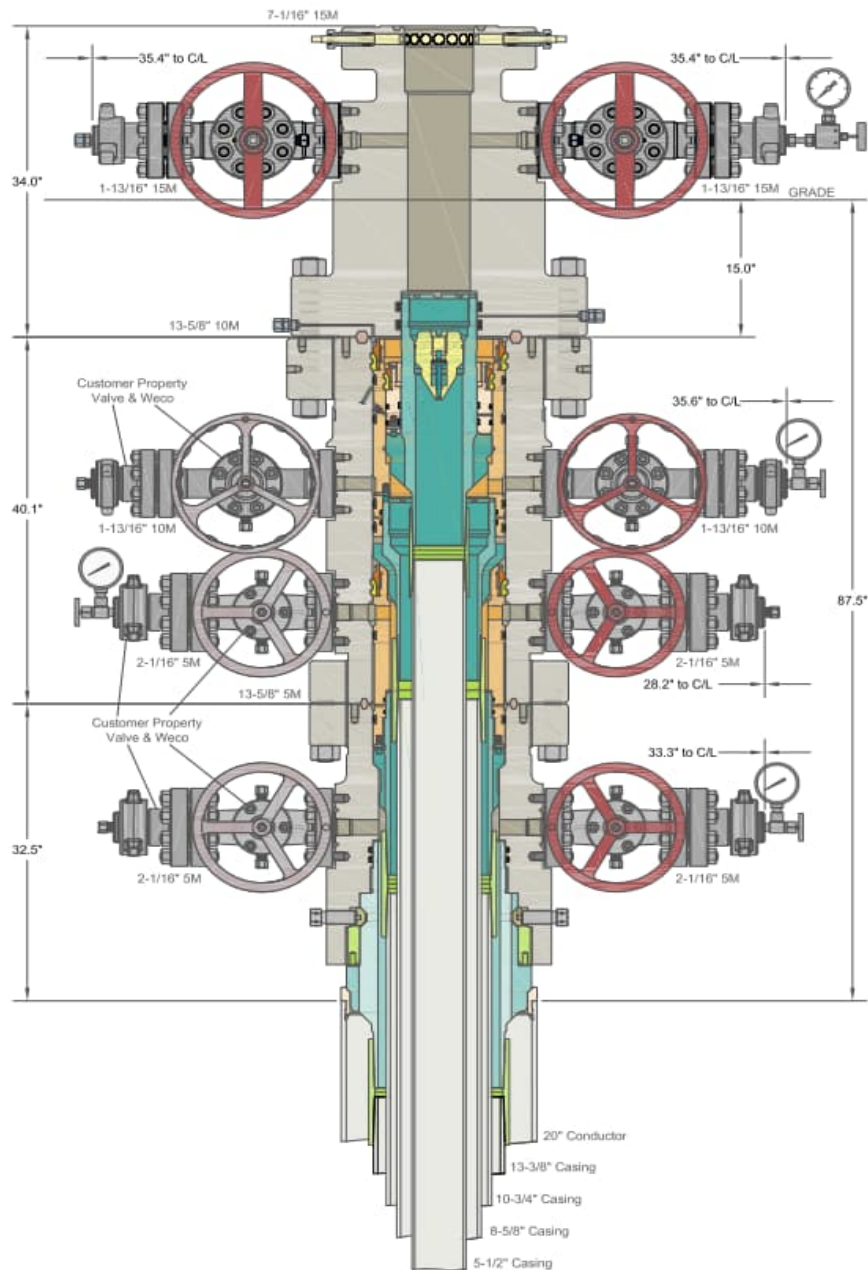
Drilling Operations Choke Manifold 5M Service



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

String	Hole Size	Casing Size	Top	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1748	0	1748	1748	J55	54.5	BTC	1.31	1.35	Dry	4.66	Dry	4.37
Intermediate	12.25	9.625	0	5743	0	5743	5743	J55	40	BTC	2.46	1.52	Dry	2.17	Dry	1.91
Production	8.75	5.5	0	9985	0	9600	9985	P110RY	20	TCBC-HT	2.12	2.21	Dry	2.20	Dry	2.20
Production	7.875	5.5	9985	19871	9600	9600	9886	P110RY	20	TCBC-HT	2.12	2.21	Dry	2.20	Dry	2.20
BLM Min Safety Factor											1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC		PERMIAN RESOURCES NEW MEXICO	
20" x 13-3/8" x 10-3/4" x 8-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO Sys. With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 10-3/4" & 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN	DLE	26OCT23
	APPRV		
	DRAWING NO.	HBE0001038	

Permian Resources BOP Break Testing Variance Procedure

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack



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.

62

API STANDARD 53

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

Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	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 ^{a,c}	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	ITP
Choke manifold—upstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

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

No visible leaks.

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

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

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

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

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

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

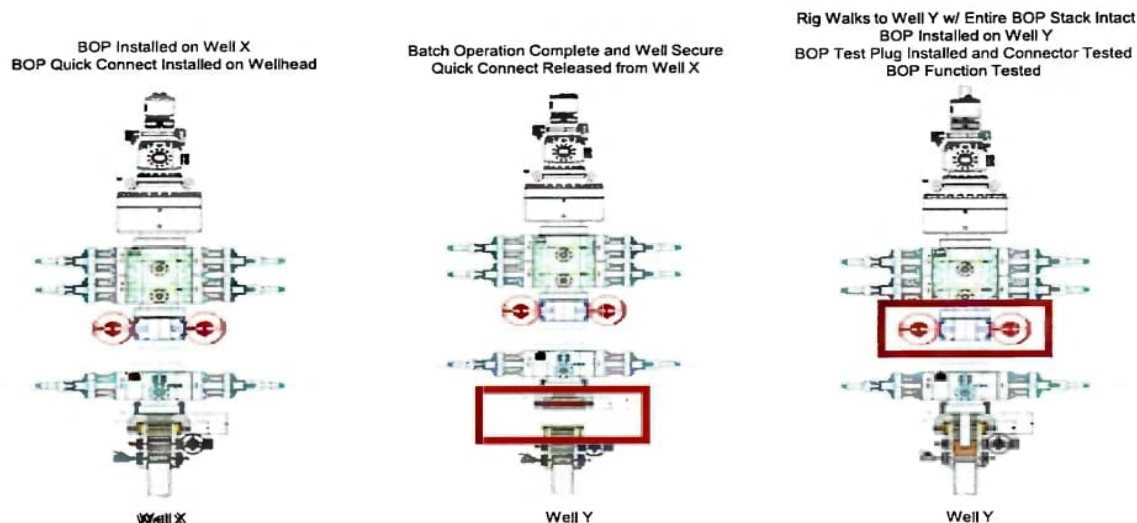
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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

Procedures

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

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.

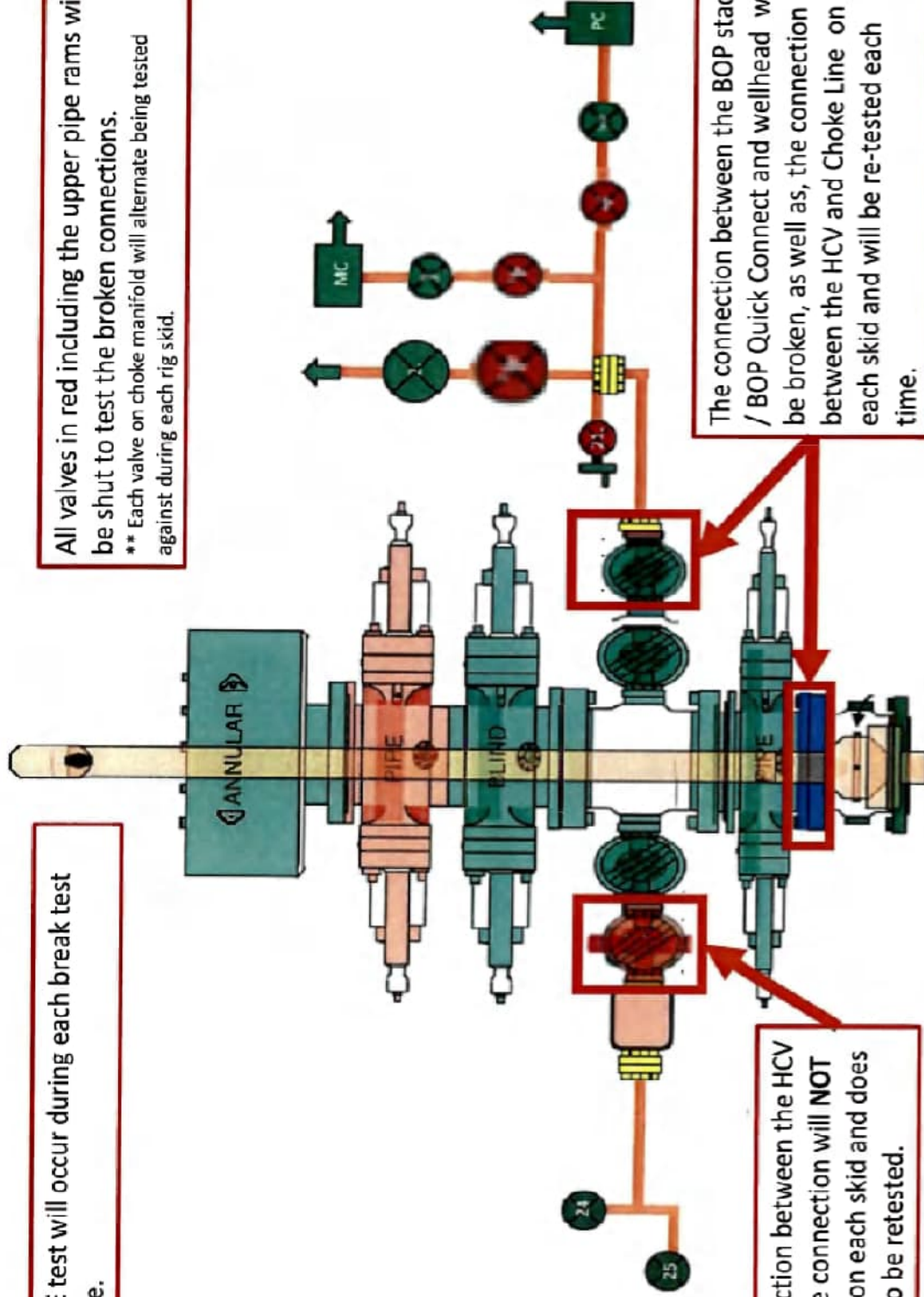
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
 ** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

Permian Resources

Multi-Well Pad Batch Drilling Procedure

Surface Casing - 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.

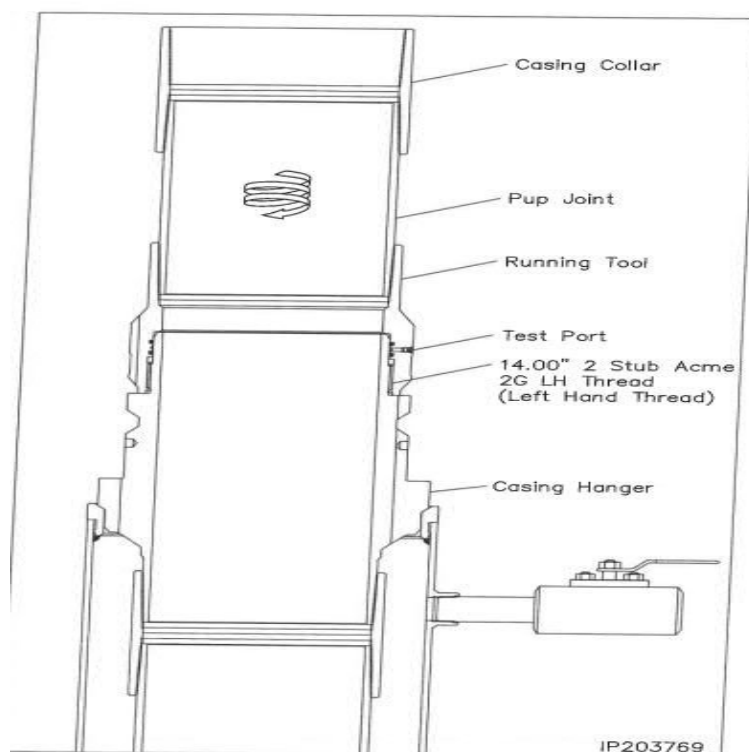


Illustration 1-1

Intermediate Casing – 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.

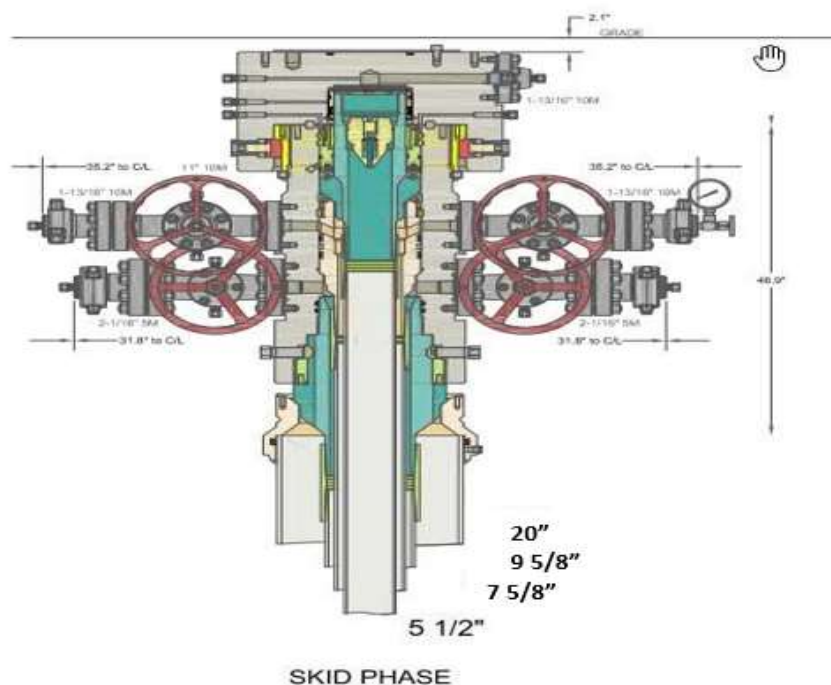


Illustration 2-2

Production Casing – 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 Fluid Technology

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA CONSIGNEE / Ship-to address: HELMERICH & PAYNE INT'L DRILLING CO ATTN: FLEX RIG WHSE - B-BAY 210 MAGNOLIA DRIVE GALENA PARK TX 77547		Packing list / Delivery note Document No. 71461553 Document Date 28.01.2022 Customer Number 11697 Customer VAT No. Supplier Number Purchase Order No. 740362040 Purchase Order Date 18.01.2022 Sales Order Number 1388153 Sales Order Date 18.01.2022 Unloading Point RAN-No.		
Buyer: HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER 74119 TULSA		Page 1 of 2 Weights (Gross / Net) Total Gross Weight 2,507.000 LB Total Net Weight 2,507.000 LB		
Conditions Incoterms EXW Houston Ex Works				
Item	Material/Description	Quantity	Net Weight	Gross Weight
20	Buyer: Jack Peebles E-mail: Jackie.Peebles@hpinc.com Tel: 832-782-6000 Rig/Whse: HOW 00RECERTIFY Recert of HP Hoses Serial# 67094 Commodity Code: 3" X 35 FT 10K Choke & Kill Hoses API 16C End 1: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 ring groove each end Standard: API Spec 16C - Monogrammed Working Pressure: 10.000psi Test Pressure: 15.000psi Inspection & Certification includes: External inspection of the hose & couplings Internal boroscopic inspection of hose liner Hydrostatic pressure test of hose assembly Repair of any external damage to hose body and end connections (limited to minor repairs). Clean & protect end connections Inspection Report Disposal of hose assembly if hose fails inspection and recertification process. Please Flush Hoses before sending them to our Facility.	1 PC	2,507.000 LB	2,507.000 LB

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 Cégbíróság

COMMERZBANK ZRT. (HUF)
 H-1054 Budapest, Széchenyi rakpart 8.
 H-1245 Budapest P.O. Box 1070
 Account No.: 14220108-26830003
 IBAN: HU83 1422 0108 2683 0003 0000 0000
 SWIFT: COBA HU HXXX

COMMERZBANK AG Hannover (EUR)
 30159 Hannover, Theaterstr. 11-12.
 Account No.: 3 066 156 00
 Sort Code: 250 400 66
 BIC: COBADEFF250
 IBAN: DE41250400660306615600

Record Rotary Hose sleeve number on the CBC Made Hose List!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!



Hydrostatic Test Certificate

ContiTech

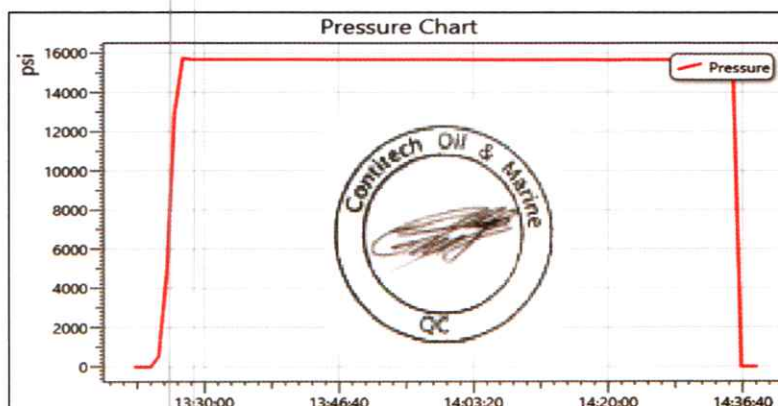
Certificate Number H100122	COM Order Reference 1388153	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No: 740362040		
Project:		
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA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

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

Item	Part No.	Description	Qty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
20	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	67094	10,000	15,000	60

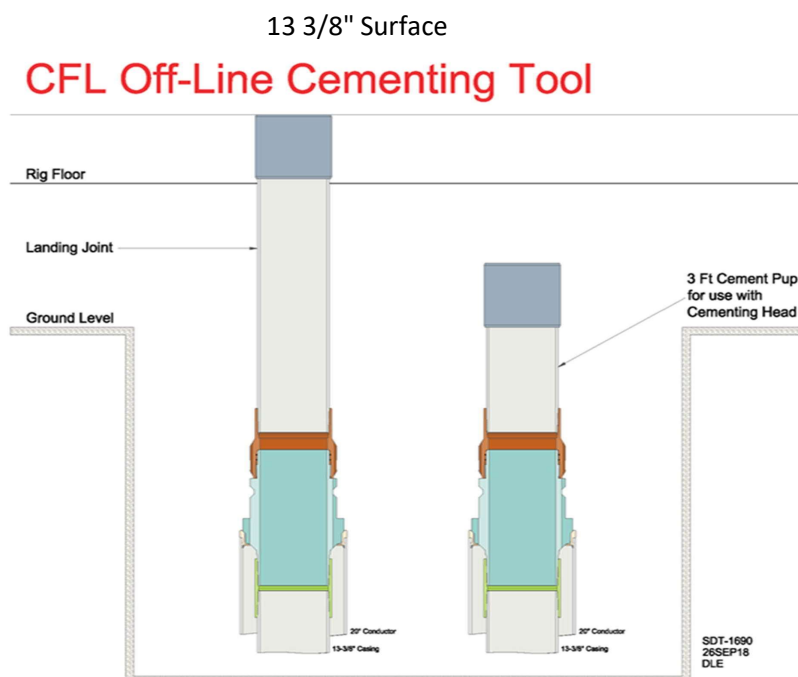
Record Information	
Start Time	1/27/2022 13:21:21
End Time	1/27/2022 14:38:28
Interval	00:01:00
Number	78
MaxValue	15849
MinValue	-3
AvgValue	14240
RecordName	67094-sh
RecordNumber	199

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

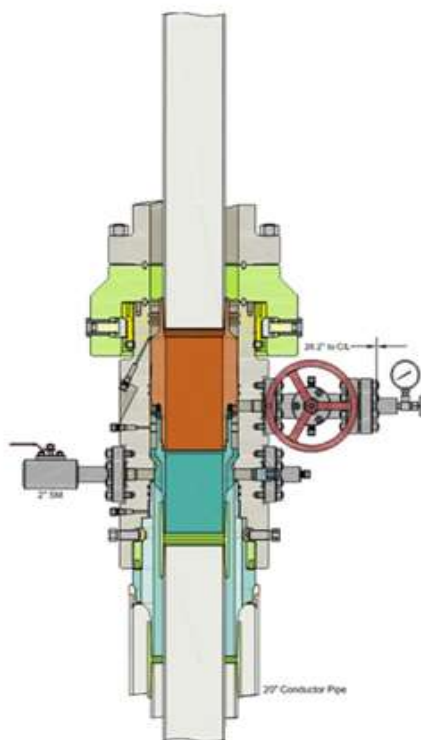


Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

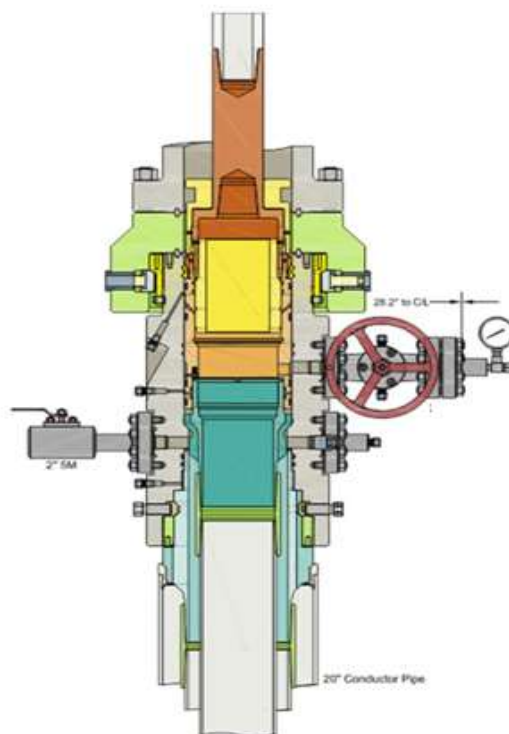
1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
2. Run and casing to Depth.
3. Land casing with mandrel.
4. Circulate 1.5 csg capacity.
5. Flow test – Confirm well is static and floats are holding.
6. Set Annular packoff and pressure test. Test to 5k.
7. Nipple down BOP and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



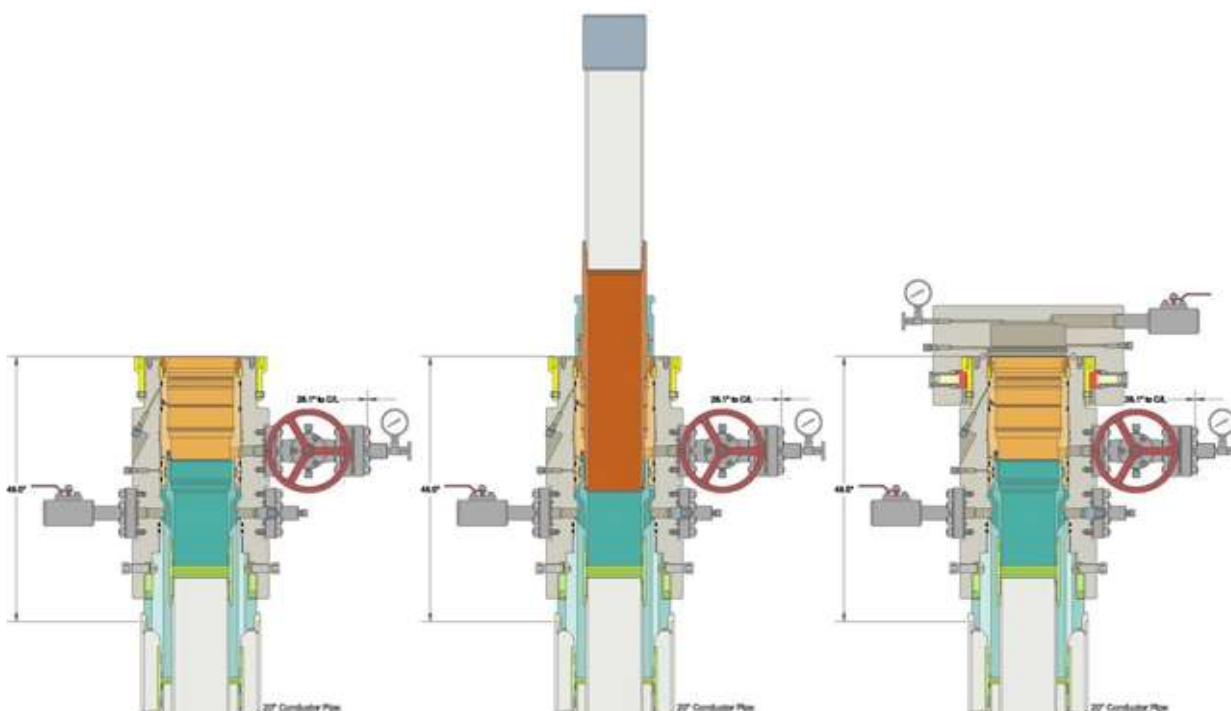
Intermediate



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



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Permian Resources Operating LLC
WELL NAME & NO.:	Tour Bus 23 Federal Com 303H
LOCATION:	Sec 23-22S-34E-NMP
COUNTY:	Lea County, New Mexico ▼

COA

H₂S	☒ No ☐ Yes			
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High	☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☒ Capitan Reef	☐ Water Disposal	☒ COM	☐ Unit
Waste Prev.	☐ Self-Certification	☐ Waste Min. Plan	☒ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☐ Four-String	☒ Offline Cementing	☒ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1820** 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 **8 hours** or **500 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 casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

The operator has proposed utilize a DV tool. The selected depth is below the Salado and is an acceptable set point. Operator may adjust depth of DV tool if it remains below the Salado and cement volumes are adjusted accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement to surface. 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.**
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to freshwater mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 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.

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

NEW MEXICO

(SP) LEA

TOUR BUS PROJECT

TOUR BUS 23 FED COM 303H

OWB

Plan: PWP0

Standard Planning Report - Geographic

31 October, 2023

Permian Resources
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Company:	NEW MEXICO	TVD Reference:	KB @ 3499.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3499.0usft
Site:	TOUR BUS PROJECT	North Reference:	Grid
Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	(SP) LEA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		TOUR BUS PROJECT			
Site Position:		Northing:	504,229.69 usft	Latitude:	32° 22' 58.820 N
From:	Map	Easting:	818,218.40 usft	Longitude:	103° 26' 11.047 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	TOUR BUS 23 FED COM 303H					
Well Position	+N/-S	0.0 usft	Northing:	504,228.63 usft	Latitude:	32° 22' 58.807 N
	+E/-W	0.0 usft	Easting:	818,251.38 usft	Longitude:	103° 26' 10.662 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,473.0 usft
Grid Convergence:		0.48 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.70	60.41	48,904.10497215

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	185.59

Plan Survey Tool Program	Date	10/31/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,871.5 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Star	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.0	12.00	292.10	2,595.6	23.6	-58.0	2.00	2.00	0.00	292.10	
7,376.3	12.00	292.10	7,267.6	397.2	-978.1	0.00	0.00	0.00	0.00	
7,976.3	0.00	0.00	7,863.2	420.7	-1,036.1	2.00	-2.00	0.00	180.00	
9,235.6	0.00	0.00	9,122.5	420.7	-1,036.1	0.00	0.00	0.00	0.00	
9,985.6	90.00	179.65	9,600.0	-56.7	-1,033.2	12.00	12.00	23.95	179.65	
19,871.5	90.00	179.65	9,600.0	-9,942.4	-973.0	0.00	0.00	0.00	0.00	BHL-TOUR BUS 23

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Company:	NEW MEXICO	TVD Reference:	KB @ 3499.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3499.0usft
Site:	TOUR BUS PROJECT	North Reference:	Grid
Well:	TOUR BUS 23 FED COM 303H	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	0.00	0.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
100.0	0.00	0.00	100.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
200.0	0.00	0.00	200.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
300.0	0.00	0.00	300.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
400.0	0.00	0.00	400.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
500.0	0.00	0.00	500.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
600.0	0.00	0.00	600.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
700.0	0.00	0.00	700.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
800.0	0.00	0.00	800.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
900.0	0.00	0.00	900.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	504,228.63	818,251.38	32° 22' 58.807 N	103° 26' 10.662 W	
Start Build 2.00										
2,100.0	2.00	292.10	2,100.0	0.7	-1.6	504,229.29	818,249.76	32° 22' 58.813 N	103° 26' 10.681 W	
2,200.0	4.00	292.10	2,199.8	2.6	-6.5	504,231.26	818,244.91	32° 22' 58.833 N	103° 26' 10.738 W	
2,300.0	6.00	292.10	2,299.5	5.9	-14.5	504,234.54	818,236.84	32° 22' 58.866 N	103° 26' 10.831 W	
2,400.0	8.00	292.10	2,398.7	10.5	-25.8	504,239.12	818,225.55	32° 22' 58.913 N	103° 26' 10.963 W	
2,500.0	10.00	292.10	2,497.5	16.4	-40.3	504,245.01	818,211.05	32° 22' 58.972 N	103° 26' 11.131 W	
2,600.0	12.00	292.10	2,595.6	23.6	-58.0	504,252.19	818,193.38	32° 22' 59.045 N	103° 26' 11.337 W	
Start 4776.3 hold at 2600.0 MD										
2,700.0	12.00	292.10	2,693.4	31.4	-77.3	504,260.01	818,174.11	32° 22' 59.124 N	103° 26' 11.560 W	
2,800.0	12.00	292.10	2,791.3	39.2	-96.5	504,267.83	818,154.85	32° 22' 59.203 N	103° 26' 11.784 W	
2,900.0	12.00	292.10	2,889.1	47.0	-115.8	504,275.65	818,135.59	32° 22' 59.282 N	103° 26' 12.008 W	
3,000.0	12.00	292.10	2,986.9	54.8	-135.1	504,283.48	818,116.32	32° 22' 59.361 N	103° 26' 12.232 W	
3,100.0	12.00	292.10	3,084.7	62.7	-154.3	504,291.30	818,097.06	32° 22' 59.440 N	103° 26' 12.456 W	
3,200.0	12.00	292.10	3,182.5	70.5	-173.6	504,299.12	818,077.80	32° 22' 59.519 N	103° 26' 12.680 W	
3,300.0	12.00	292.10	3,280.3	78.3	-192.8	504,306.95	818,058.53	32° 22' 59.598 N	103° 26' 12.904 W	
3,400.0	12.00	292.10	3,378.1	86.1	-212.1	504,314.77	818,039.27	32° 22' 59.677 N	103° 26' 13.127 W	
3,500.0	12.00	292.10	3,476.0	94.0	-231.4	504,322.59	818,020.01	32° 22' 59.756 N	103° 26' 13.351 W	
3,600.0	12.00	292.10	3,573.8	101.8	-250.6	504,330.41	818,000.74	32° 22' 59.835 N	103° 26' 13.575 W	
3,700.0	12.00	292.10	3,671.6	109.6	-269.9	504,338.24	817,981.48	32° 22' 59.914 N	103° 26' 13.799 W	
3,800.0	12.00	292.10	3,769.4	117.4	-289.2	504,346.06	817,962.22	32° 22' 59.993 N	103° 26' 14.023 W	
3,900.0	12.00	292.10	3,867.2	125.3	-308.4	504,353.88	817,942.95	32° 23' 0.072 N	103° 26' 14.247 W	
4,000.0	12.00	292.10	3,965.0	133.1	-327.7	504,361.71	817,923.69	32° 23' 0.151 N	103° 26' 14.471 W	
4,100.0	12.00	292.10	4,062.8	140.9	-347.0	504,369.53	817,904.43	32° 23' 0.230 N	103° 26' 14.694 W	
4,200.0	12.00	292.10	4,160.7	148.7	-366.2	504,377.35	817,885.16	32° 23' 0.309 N	103° 26' 14.918 W	
4,300.0	12.00	292.10	4,258.5	156.5	-385.5	504,385.17	817,865.90	32° 23' 0.388 N	103° 26' 15.142 W	
4,400.0	12.00	292.10	4,356.3	164.4	-404.7	504,393.00	817,846.64	32° 23' 0.467 N	103° 26' 15.366 W	
4,500.0	12.00	292.10	4,454.1	172.2	-424.0	504,400.82	817,827.37	32° 23' 0.546 N	103° 26' 15.590 W	
4,600.0	12.00	292.10	4,551.9	180.0	-443.3	504,408.64	817,808.11	32° 23' 0.625 N	103° 26' 15.814 W	
4,700.0	12.00	292.10	4,649.7	187.8	-462.5	504,416.46	817,788.85	32° 23' 0.704 N	103° 26' 16.038 W	
4,800.0	12.00	292.10	4,747.5	195.7	-481.8	504,424.29	817,769.58	32° 23' 0.783 N	103° 26' 16.261 W	
4,900.0	12.00	292.10	4,845.4	203.5	-501.1	504,432.11	817,750.32	32° 23' 0.862 N	103° 26' 16.485 W	
5,000.0	12.00	292.10	4,943.2	211.3	-520.3	504,439.93	817,731.06	32° 23' 0.941 N	103° 26' 16.709 W	
5,100.0	12.00	292.10	5,041.0	219.1	-539.6	504,447.76	817,711.79	32° 23' 1.020 N	103° 26' 16.933 W	

Permian Resources

Planning Report - Geographic

Database: Compass
Company: NEW MEXICO
Project: (SP) LEA
Site: TOUR BUS PROJECT
Well: TOUR BUS 23 FED COM 303H
Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference: Well TOUR BUS 23 FED COM 303H
TVD Reference: KB @ 3499.0usft
MD Reference: KB @ 3499.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,200.0	12.00	292.10	5,138.8	226.9	-558.8	504,455.58	817,692.53	32° 23' 1.099 N	103° 26' 17.157 W	
5,300.0	12.00	292.10	5,236.6	234.8	-578.1	504,463.40	817,673.27	32° 23' 1.178 N	103° 26' 17.381 W	
5,400.0	12.00	292.10	5,334.4	242.6	-597.4	504,471.22	817,654.00	32° 23' 1.257 N	103° 26' 17.605 W	
5,500.0	12.00	292.10	5,432.3	250.4	-616.6	504,479.05	817,634.74	32° 23' 1.336 N	103° 26' 17.828 W	
5,600.0	12.00	292.10	5,530.1	258.2	-635.9	504,486.87	817,615.48	32° 23' 1.415 N	103° 26' 18.052 W	
5,700.0	12.00	292.10	5,627.9	266.1	-655.2	504,494.69	817,596.21	32° 23' 1.494 N	103° 26' 18.276 W	
5,800.0	12.00	292.10	5,725.7	273.9	-674.4	504,502.52	817,576.95	32° 23' 1.573 N	103° 26' 18.500 W	
5,900.0	12.00	292.10	5,823.5	281.7	-693.7	504,510.34	817,557.69	32° 23' 1.652 N	103° 26' 18.724 W	
6,000.0	12.00	292.10	5,921.3	289.5	-713.0	504,518.16	817,538.42	32° 23' 1.731 N	103° 26' 18.948 W	
6,100.0	12.00	292.10	6,019.1	297.4	-732.2	504,525.98	817,519.16	32° 23' 1.810 N	103° 26' 19.172 W	
6,200.0	12.00	292.10	6,117.0	305.2	-751.5	504,533.81	817,499.90	32° 23' 1.889 N	103° 26' 19.396 W	
6,300.0	12.00	292.10	6,214.8	313.0	-770.7	504,541.63	817,480.63	32° 23' 1.968 N	103° 26' 19.619 W	
6,400.0	12.00	292.10	6,312.6	320.8	-790.0	504,549.45	817,461.37	32° 23' 2.047 N	103° 26' 19.843 W	
6,500.0	12.00	292.10	6,410.4	328.6	-809.3	504,557.28	817,442.11	32° 23' 2.125 N	103° 26' 20.067 W	
6,600.0	12.00	292.10	6,508.2	336.5	-828.5	504,565.10	817,422.84	32° 23' 2.204 N	103° 26' 20.291 W	
6,700.0	12.00	292.10	6,606.0	344.3	-847.8	504,572.92	817,403.58	32° 23' 2.283 N	103° 26' 20.515 W	
6,800.0	12.00	292.10	6,703.8	352.1	-867.1	504,580.74	817,384.32	32° 23' 2.362 N	103° 26' 20.739 W	
6,900.0	12.00	292.10	6,801.7	359.9	-886.3	504,588.57	817,365.05	32° 23' 2.441 N	103° 26' 20.963 W	
7,000.0	12.00	292.10	6,899.5	367.8	-905.6	504,596.39	817,345.79	32° 23' 2.520 N	103° 26' 21.186 W	
7,100.0	12.00	292.10	6,997.3	375.6	-924.9	504,604.21	817,326.53	32° 23' 2.599 N	103° 26' 21.410 W	
7,200.0	12.00	292.10	7,095.1	383.4	-944.1	504,612.03	817,307.26	32° 23' 2.678 N	103° 26' 21.634 W	
7,300.0	12.00	292.10	7,192.9	391.2	-963.4	504,619.86	817,288.00	32° 23' 2.757 N	103° 26' 21.858 W	
7,376.3	12.00	292.10	7,267.6	397.2	-978.1	504,625.83	817,273.30	32° 23' 2.818 N	103° 26' 22.029 W	
Start Drop -2.00										
7,400.0	11.53	292.10	7,290.8	399.0	-982.6	504,627.64	817,268.82	32° 23' 2.836 N	103° 26' 22.081 W	
7,500.0	9.53	292.10	7,389.1	405.9	-999.5	504,634.52	817,251.90	32° 23' 2.906 N	103° 26' 22.278 W	
7,600.0	7.53	292.10	7,488.0	411.5	-1,013.2	504,640.10	817,238.16	32° 23' 2.962 N	103° 26' 22.437 W	
7,700.0	5.53	292.10	7,587.3	415.7	-1,023.7	504,644.37	817,227.63	32° 23' 3.005 N	103° 26' 22.560 W	
7,800.0	3.53	292.10	7,687.0	418.7	-1,031.1	504,647.34	817,220.32	32° 23' 3.035 N	103° 26' 22.644 W	
7,900.0	1.53	292.10	7,786.9	420.4	-1,035.1	504,649.00	817,216.24	32° 23' 3.052 N	103° 26' 22.692 W	
7,976.3	0.00	0.00	7,863.2	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
Start 1259.3 hold at 7976.3 MD										
8,000.0	0.00	0.00	7,886.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,100.0	0.00	0.00	7,986.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,200.0	0.00	0.00	8,086.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,300.0	0.00	0.00	8,186.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,400.0	0.00	0.00	8,286.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,500.0	0.00	0.00	8,386.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,600.0	0.00	0.00	8,486.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,700.0	0.00	0.00	8,586.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,800.0	0.00	0.00	8,686.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
8,900.0	0.00	0.00	8,786.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
9,000.0	0.00	0.00	8,886.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
9,100.0	0.00	0.00	8,986.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
9,200.0	0.00	0.00	9,086.9	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
9,235.6	0.00	0.00	9,122.5	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W	
Start DLS 12.00 TFO 179.65										
9,250.0	1.72	179.65	9,136.9	420.5	-1,036.1	504,649.16	817,215.30	32° 23' 3.053 N	103° 26' 22.703 W	
9,275.0	4.72	179.65	9,161.8	419.1	-1,036.1	504,647.76	817,215.31	32° 23' 3.040 N	103° 26' 22.703 W	
9,300.0	7.72	179.65	9,186.7	416.4	-1,036.1	504,645.05	817,215.32	32° 23' 3.013 N	103° 26' 22.703 W	
9,325.0	10.72	179.65	9,211.4	412.4	-1,036.0	504,641.04	817,215.35	32° 23' 2.973 N	103° 26' 22.703 W	
9,350.0	13.72	179.65	9,235.8	407.1	-1,036.0	504,635.75	817,215.38	32° 23' 2.921 N	103° 26' 22.703 W	
9,375.0	16.72	179.65	9,259.9	400.6	-1,036.0	504,629.18	817,215.42	32° 23' 2.856 N	103° 26' 22.703 W	
9,400.0	19.72	179.65	9,283.6	392.7	-1,035.9	504,621.37	817,215.47	32° 23' 2.778 N	103° 26' 22.704 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Company:	NEW MEXICO	TVD Reference:	KB @ 3499.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3499.0usft
Site:	TOUR BUS PROJECT	North Reference:	Grid
Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,425.0	22.72	179.65	9,306.9	383.7	-1,035.9	504,612.32	817,215.52	32° 23' 2.689 N	103° 26' 22.704 W	
9,450.0	25.72	179.65	9,329.7	373.4	-1,035.8	504,602.06	817,215.59	32° 23' 2.587 N	103° 26' 22.704 W	
9,475.0	28.72	179.65	9,352.0	362.0	-1,035.7	504,590.63	817,215.66	32° 23' 2.474 N	103° 26' 22.704 W	
9,500.0	31.72	179.65	9,373.6	349.4	-1,035.6	504,578.04	817,215.73	32° 23' 2.350 N	103° 26' 22.705 W	
9,525.0	34.72	179.65	9,394.5	335.7	-1,035.6	504,564.35	817,215.82	32° 23' 2.214 N	103° 26' 22.705 W	
9,550.0	37.72	179.65	9,414.6	320.9	-1,035.5	504,549.57	817,215.91	32° 23' 2.068 N	103° 26' 22.706 W	
9,575.0	40.72	179.65	9,434.0	305.1	-1,035.4	504,533.77	817,216.00	32° 23' 1.912 N	103° 26' 22.706 W	
9,600.0	43.72	179.65	9,452.5	288.3	-1,035.3	504,516.97	817,216.10	32° 23' 1.745 N	103° 26' 22.706 W	
9,625.0	46.72	179.65	9,470.1	270.6	-1,035.2	504,499.22	817,216.21	32° 23' 1.570 N	103° 26' 22.707 W	
9,650.0	49.72	179.65	9,486.8	252.0	-1,035.1	504,480.58	817,216.32	32° 23' 1.385 N	103° 26' 22.707 W	
9,675.0	52.72	179.65	9,502.4	232.5	-1,034.9	504,461.09	817,216.44	32° 23' 1.192 N	103° 26' 22.708 W	
9,700.0	55.72	179.65	9,517.0	212.2	-1,034.8	504,440.81	817,216.57	32° 23' 0.992 N	103° 26' 22.708 W	
9,725.0	58.72	179.65	9,530.6	191.2	-1,034.7	504,419.80	817,216.69	32° 23' 0.784 N	103° 26' 22.709 W	
9,750.0	61.72	179.65	9,543.0	169.5	-1,034.6	504,398.10	817,216.83	32° 23' 0.569 N	103° 26' 22.710 W	
9,775.0	64.72	179.65	9,554.3	147.2	-1,034.4	504,375.78	817,216.96	32° 23' 0.348 N	103° 26' 22.710 W	
9,800.0	67.72	179.65	9,564.3	124.3	-1,034.3	504,352.91	817,217.10	32° 23' 0.122 N	103° 26' 22.711 W	
9,825.0	70.72	179.65	9,573.2	100.9	-1,034.1	504,329.54	817,217.24	32° 22' 59.891 N	103° 26' 22.711 W	
9,850.0	73.72	179.65	9,580.8	77.1	-1,034.0	504,305.73	817,217.39	32° 22' 59.655 N	103° 26' 22.712 W	
9,875.0	76.72	179.65	9,587.2	52.9	-1,033.8	504,281.56	817,217.54	32° 22' 59.416 N	103° 26' 22.713 W	
9,900.0	79.72	179.65	9,592.3	28.5	-1,033.7	504,257.09	817,217.68	32° 22' 59.174 N	103° 26' 22.713 W	
9,925.0	82.72	179.65	9,596.1	3.8	-1,033.5	504,232.39	817,217.83	32° 22' 58.929 N	103° 26' 22.714 W	
9,950.0	85.72	179.65	9,598.6	-21.1	-1,033.4	504,207.52	817,217.99	32° 22' 58.683 N	103° 26' 22.715 W	
9,975.0	88.72	179.65	9,599.8	-46.1	-1,033.2	504,182.55	817,218.14	32° 22' 58.436 N	103° 26' 22.715 W	
9,985.6	90.00	179.65	9,600.0	-56.7	-1,033.2	504,171.93	817,218.20	32° 22' 58.331 N	103° 26' 22.716 W	
Start 9885.9 hold at 9985.6 MD										
10,000.0	90.00	179.65	9,600.0	-71.1	-1,033.1	504,157.55	817,218.29	32° 22' 58.189 N	103° 26' 22.716 W	
10,100.0	90.00	179.65	9,600.0	-171.1	-1,032.5	504,057.55	817,218.90	32° 22' 57.199 N	103° 26' 22.719 W	
10,200.0	90.00	179.65	9,600.0	-271.1	-1,031.9	503,957.56	817,219.51	32° 22' 56.210 N	103° 26' 22.721 W	
10,300.0	90.00	179.65	9,600.0	-371.1	-1,031.3	503,857.56	817,220.11	32° 22' 55.220 N	103° 26' 22.724 W	
10,400.0	90.00	179.65	9,600.0	-471.1	-1,030.7	503,757.56	817,220.72	32° 22' 54.231 N	103° 26' 22.727 W	
10,500.0	90.00	179.65	9,600.0	-571.1	-1,030.0	503,657.56	817,221.33	32° 22' 53.241 N	103° 26' 22.729 W	
10,600.0	90.00	179.65	9,600.0	-671.1	-1,029.4	503,557.56	817,221.94	32° 22' 52.252 N	103° 26' 22.732 W	
10,700.0	90.00	179.65	9,600.0	-771.1	-1,028.8	503,457.57	817,222.55	32° 22' 51.262 N	103° 26' 22.734 W	
10,800.0	90.00	179.65	9,600.0	-871.1	-1,028.2	503,357.57	817,223.16	32° 22' 50.273 N	103° 26' 22.737 W	
10,900.0	90.00	179.65	9,600.0	-971.1	-1,027.6	503,257.57	817,223.76	32° 22' 49.283 N	103° 26' 22.740 W	
11,000.0	90.00	179.65	9,600.0	-1,071.1	-1,027.0	503,157.57	817,224.37	32° 22' 48.294 N	103° 26' 22.742 W	
11,100.0	90.00	179.65	9,600.0	-1,171.1	-1,026.4	503,057.57	817,224.98	32° 22' 47.304 N	103° 26' 22.745 W	
11,200.0	90.00	179.65	9,600.0	-1,271.1	-1,025.8	502,957.58	817,225.59	32° 22' 46.315 N	103° 26' 22.748 W	
11,300.0	90.00	179.65	9,600.0	-1,371.1	-1,025.2	502,857.58	817,226.20	32° 22' 45.326 N	103° 26' 22.750 W	
11,400.0	90.00	179.65	9,600.0	-1,471.1	-1,024.6	502,757.58	817,226.80	32° 22' 44.336 N	103° 26' 22.753 W	
11,500.0	90.00	179.65	9,600.0	-1,571.1	-1,024.0	502,657.58	817,227.41	32° 22' 43.347 N	103° 26' 22.756 W	
11,600.0	90.00	179.65	9,600.0	-1,671.0	-1,023.4	502,557.58	817,228.02	32° 22' 42.357 N	103° 26' 22.758 W	
11,700.0	90.00	179.65	9,600.0	-1,771.0	-1,022.7	502,457.58	817,228.63	32° 22' 41.368 N	103° 26' 22.761 W	
11,800.0	90.00	179.65	9,600.0	-1,871.0	-1,022.1	502,357.59	817,229.24	32° 22' 40.378 N	103° 26' 22.764 W	
11,900.0	90.00	179.65	9,600.0	-1,971.0	-1,021.5	502,257.59	817,229.85	32° 22' 39.389 N	103° 26' 22.766 W	
12,000.0	90.00	179.65	9,600.0	-2,071.0	-1,020.9	502,157.59	817,230.45	32° 22' 38.399 N	103° 26' 22.769 W	
12,100.0	90.00	179.65	9,600.0	-2,171.0	-1,020.3	502,057.59	817,231.06	32° 22' 37.410 N	103° 26' 22.772 W	
12,200.0	90.00	179.65	9,600.0	-2,271.0	-1,019.7	501,957.59	817,231.67	32° 22' 36.420 N	103° 26' 22.774 W	
12,300.0	90.00	179.65	9,600.0	-2,371.0	-1,019.1	501,857.60	817,232.28	32° 22' 35.431 N	103° 26' 22.777 W	
12,400.0	90.00	179.65	9,600.0	-2,471.0	-1,018.5	501,757.60	817,232.89	32° 22' 34.441 N	103° 26' 22.779 W	
12,500.0	90.00	179.65	9,600.0	-2,571.0	-1,017.9	501,657.60	817,233.49	32° 22' 33.452 N	103° 26' 22.782 W	
12,600.0	90.00	179.65	9,600.0	-2,671.0	-1,017.3	501,557.60	817,234.10	32° 22' 32.462 N	103° 26' 22.785 W	
12,700.0	90.00	179.65	9,600.0	-2,771.0	-1,016.7	501,457.60	817,234.71	32° 22' 31.473 N	103° 26' 22.787 W	
12,800.0	90.00	179.65	9,600.0	-2,871.0	-1,016.1	501,357.60	817,235.32	32° 22' 30.483 N	103° 26' 22.790 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Company:	NEW MEXICO	TVD Reference:	KB @ 3499.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3499.0usft
Site:	TOUR BUS PROJECT	North Reference:	Grid
Well:	TOUR BUS 23 FED COM 303H	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	
12,900.0	90.00	179.65	9,600.0	-2,971.0	-1,015.5	501,257.61	817,235.93	32° 22' 29.494 N	103° 26' 22.793 W	
13,000.0	90.00	179.65	9,600.0	-3,071.0	-1,014.8	501,157.61	817,236.54	32° 22' 28.504 N	103° 26' 22.795 W	
13,100.0	90.00	179.65	9,600.0	-3,171.0	-1,014.2	501,057.61	817,237.14	32° 22' 27.515 N	103° 26' 22.798 W	
13,200.0	90.00	179.65	9,600.0	-3,271.0	-1,013.6	500,957.61	817,237.75	32° 22' 26.525 N	103° 26' 22.801 W	
13,300.0	90.00	179.65	9,600.0	-3,371.0	-1,013.0	500,857.61	817,238.36	32° 22' 25.536 N	103° 26' 22.803 W	
13,400.0	90.00	179.65	9,600.0	-3,471.0	-1,012.4	500,757.62	817,238.97	32° 22' 24.546 N	103° 26' 22.806 W	
13,500.0	90.00	179.65	9,600.0	-3,571.0	-1,011.8	500,657.62	817,239.58	32° 22' 23.557 N	103° 26' 22.809 W	
13,600.0	90.00	179.65	9,600.0	-3,671.0	-1,011.2	500,557.62	817,240.18	32° 22' 22.567 N	103° 26' 22.811 W	
13,700.0	90.00	179.65	9,600.0	-3,771.0	-1,010.6	500,457.62	817,240.79	32° 22' 21.578 N	103° 26' 22.814 W	
13,800.0	90.00	179.65	9,600.0	-3,871.0	-1,010.0	500,357.62	817,241.40	32° 22' 20.588 N	103° 26' 22.817 W	
13,900.0	90.00	179.65	9,600.0	-3,971.0	-1,009.4	500,257.63	817,242.01	32° 22' 19.599 N	103° 26' 22.819 W	
14,000.0	90.00	179.65	9,600.0	-4,071.0	-1,008.8	500,157.63	817,242.62	32° 22' 18.609 N	103° 26' 22.822 W	
14,100.0	90.00	179.65	9,600.0	-4,171.0	-1,008.2	500,057.63	817,243.23	32° 22' 17.620 N	103° 26' 22.824 W	
14,200.0	90.00	179.65	9,600.0	-4,271.0	-1,007.5	499,957.63	817,243.83	32° 22' 16.630 N	103° 26' 22.827 W	
14,300.0	90.00	179.65	9,600.0	-4,371.0	-1,006.9	499,857.63	817,244.44	32° 22' 15.641 N	103° 26' 22.830 W	
14,400.0	90.00	179.65	9,600.0	-4,471.0	-1,006.3	499,757.63	817,245.05	32° 22' 14.651 N	103° 26' 22.832 W	
14,500.0	90.00	179.65	9,600.0	-4,571.0	-1,005.7	499,657.64	817,245.66	32° 22' 13.662 N	103° 26' 22.835 W	
14,600.0	90.00	179.65	9,600.0	-4,671.0	-1,005.1	499,557.64	817,246.27	32° 22' 12.672 N	103° 26' 22.838 W	
14,700.0	90.00	179.65	9,600.0	-4,771.0	-1,004.5	499,457.64	817,246.88	32° 22' 11.683 N	103° 26' 22.840 W	
14,800.0	90.00	179.65	9,600.0	-4,871.0	-1,003.9	499,357.64	817,247.48	32° 22' 10.693 N	103° 26' 22.843 W	
14,900.0	90.00	179.65	9,600.0	-4,971.0	-1,003.3	499,257.64	817,248.09	32° 22' 9.704 N	103° 26' 22.846 W	
15,000.0	90.00	179.65	9,600.0	-5,071.0	-1,002.7	499,157.65	817,248.70	32° 22' 8.714 N	103° 26' 22.848 W	
15,100.0	90.00	179.65	9,600.0	-5,171.0	-1,002.1	499,057.65	817,249.31	32° 22' 7.725 N	103° 26' 22.851 W	
15,200.0	90.00	179.65	9,600.0	-5,271.0	-1,001.5	498,957.65	817,249.92	32° 22' 6.735 N	103° 26' 22.854 W	
15,300.0	90.00	179.65	9,600.0	-5,371.0	-1,000.9	498,857.65	817,250.52	32° 22' 5.746 N	103° 26' 22.856 W	
15,400.0	90.00	179.65	9,600.0	-5,471.0	-1,000.2	498,757.65	817,251.13	32° 22' 4.756 N	103° 26' 22.859 W	
15,500.0	90.00	179.65	9,600.0	-5,571.0	-999.6	498,657.65	817,251.74	32° 22' 3.767 N	103° 26' 22.861 W	
15,600.0	90.00	179.65	9,600.0	-5,671.0	-999.0	498,557.66	817,252.35	32° 22' 2.777 N	103° 26' 22.864 W	
15,700.0	90.00	179.65	9,600.0	-5,771.0	-998.4	498,457.66	817,252.96	32° 22' 1.788 N	103° 26' 22.867 W	
15,800.0	90.00	179.65	9,600.0	-5,871.0	-997.8	498,357.66	817,253.57	32° 22' 0.798 N	103° 26' 22.869 W	
15,900.0	90.00	179.65	9,600.0	-5,971.0	-997.2	498,257.66	817,254.17	32° 21' 59.809 N	103° 26' 22.872 W	
16,000.0	90.00	179.65	9,600.0	-6,071.0	-996.6	498,157.66	817,254.78	32° 21' 58.819 N	103° 26' 22.875 W	
16,100.0	90.00	179.65	9,600.0	-6,171.0	-996.0	498,057.67	817,255.39	32° 21' 57.830 N	103° 26' 22.877 W	
16,200.0	90.00	179.65	9,600.0	-6,271.0	-995.4	497,957.67	817,256.00	32° 21' 56.840 N	103° 26' 22.880 W	
16,300.0	90.00	179.65	9,600.0	-6,371.0	-994.8	497,857.67	817,256.61	32° 21' 55.851 N	103° 26' 22.883 W	
16,400.0	90.00	179.65	9,600.0	-6,471.0	-994.2	497,757.67	817,257.21	32° 21' 54.861 N	103° 26' 22.885 W	
16,500.0	90.00	179.65	9,600.0	-6,571.0	-993.6	497,657.67	817,257.82	32° 21' 53.872 N	103° 26' 22.888 W	
16,600.0	90.00	179.65	9,600.0	-6,671.0	-992.9	497,557.67	817,258.43	32° 21' 52.882 N	103° 26' 22.891 W	
16,700.0	90.00	179.65	9,600.0	-6,771.0	-992.3	497,457.68	817,259.04	32° 21' 51.893 N	103° 26' 22.893 W	
16,800.0	90.00	179.65	9,600.0	-6,871.0	-991.7	497,357.68	817,259.65	32° 21' 50.903 N	103° 26' 22.896 W	
16,900.0	90.00	179.65	9,600.0	-6,971.0	-991.1	497,257.68	817,260.26	32° 21' 49.914 N	103° 26' 22.899 W	
17,000.0	90.00	179.65	9,600.0	-7,070.9	-990.5	497,157.68	817,260.86	32° 21' 48.924 N	103° 26' 22.901 W	
17,100.0	90.00	179.65	9,600.0	-7,170.9	-989.9	497,057.68	817,261.47	32° 21' 47.935 N	103° 26' 22.904 W	
17,200.0	90.00	179.65	9,600.0	-7,270.9	-989.3	496,957.69	817,262.08	32° 21' 46.945 N	103° 26' 22.906 W	
17,300.0	90.00	179.65	9,600.0	-7,370.9	-988.7	496,857.69	817,262.69	32° 21' 45.956 N	103° 26' 22.909 W	
17,400.0	90.00	179.65	9,600.0	-7,470.9	-988.1	496,757.69	817,263.30	32° 21' 44.966 N	103° 26' 22.912 W	
17,500.0	90.00	179.65	9,600.0	-7,570.9	-987.5	496,657.69	817,263.90	32° 21' 43.977 N	103° 26' 22.914 W	
17,600.0	90.00	179.65	9,600.0	-7,670.9	-986.9	496,557.69	817,264.51	32° 21' 42.987 N	103° 26' 22.917 W	
17,700.0	90.00	179.65	9,600.0	-7,770.9	-986.3	496,457.70	817,265.12	32° 21' 41.998 N	103° 26' 22.920 W	
17,800.0	90.00	179.65	9,600.0	-7,870.9	-985.6	496,357.70	817,265.73	32° 21' 41.008 N	103° 26' 22.922 W	
17,900.0	90.00	179.65	9,600.0	-7,970.9	-985.0	496,257.70	817,266.34	32° 21' 40.019 N	103° 26' 22.925 W	
18,000.0	90.00	179.65	9,600.0	-8,070.9	-984.4	496,157.70	817,266.95	32° 21' 39.029 N	103° 26' 22.928 W	
18,100.0	90.00	179.65	9,600.0	-8,170.9	-983.8	496,057.70	817,267.55	32° 21' 38.040 N	103° 26' 22.930 W	
18,200.0	90.00	179.65	9,600.0	-8,270.9	-983.2	495,957.70	817,268.16	32° 21' 37.050 N	103° 26' 22.933 W	
18,300.0	90.00	179.65	9,600.0	-8,370.9	-982.6	495,857.71	817,268.77	32° 21' 36.061 N	103° 26' 22.936 W	

Permian Resources
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Company:	NEW MEXICO	TVD Reference:	KB @ 3499.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3499.0usft
Site:	TOUR BUS PROJECT	North Reference:	Grid
Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,400.0	90.00	179.65	9,600.0	-8,470.9	-982.0	495,757.71	817,269.38	32° 21' 35.071 N	103° 26' 22.938 W
18,500.0	90.00	179.65	9,600.0	-8,570.9	-981.4	495,657.71	817,269.99	32° 21' 34.082 N	103° 26' 22.941 W
18,600.0	90.00	179.65	9,600.0	-8,670.9	-980.8	495,557.71	817,270.59	32° 21' 33.092 N	103° 26' 22.943 W
18,700.0	90.00	179.65	9,600.0	-8,770.9	-980.2	495,457.71	817,271.20	32° 21' 32.103 N	103° 26' 22.946 W
18,800.0	90.00	179.65	9,600.0	-8,870.9	-979.6	495,357.72	817,271.81	32° 21' 31.113 N	103° 26' 22.949 W
18,900.0	90.00	179.65	9,600.0	-8,970.9	-979.0	495,257.72	817,272.42	32° 21' 30.124 N	103° 26' 22.951 W
19,000.0	90.00	179.65	9,600.0	-9,070.9	-978.4	495,157.72	817,273.03	32° 21' 29.134 N	103° 26' 22.954 W
19,100.0	90.00	179.65	9,600.0	-9,170.9	-977.7	495,057.72	817,273.64	32° 21' 28.145 N	103° 26' 22.957 W
19,200.0	90.00	179.65	9,600.0	-9,270.9	-977.1	494,957.72	817,274.24	32° 21' 27.155 N	103° 26' 22.959 W
19,300.0	90.00	179.65	9,600.0	-9,370.9	-976.5	494,857.72	817,274.85	32° 21' 26.166 N	103° 26' 22.962 W
19,400.0	90.00	179.65	9,600.0	-9,470.9	-975.9	494,757.73	817,275.46	32° 21' 25.176 N	103° 26' 22.965 W
19,500.0	90.00	179.65	9,600.0	-9,570.9	-975.3	494,657.73	817,276.07	32° 21' 24.187 N	103° 26' 22.967 W
19,600.0	90.00	179.65	9,600.0	-9,670.9	-974.7	494,557.73	817,276.68	32° 21' 23.197 N	103° 26' 22.970 W
19,700.0	90.00	179.65	9,600.0	-9,770.9	-974.1	494,457.73	817,277.29	32° 21' 22.208 N	103° 26' 22.972 W
19,800.0	90.00	179.65	9,600.0	-9,870.9	-973.5	494,357.73	817,277.89	32° 21' 21.218 N	103° 26' 22.975 W
19,871.5	90.00	179.65	9,600.0	-9,942.4	-973.0	494,286.23	817,278.33	32° 21' 20.511 N	103° 26' 22.977 W
TD at 19871.5									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP-TOUR BUS 23 3	0.00	0.00	9,600.0	420.7	-1,036.1	504,649.38	817,215.30	32° 23' 3.056 N	103° 26' 22.703 W
- plan misses target center by 197.8usft at 9609.9usft MD (9459.6 TVD, 281.4 N, -1035.2 E)									
- Point									
BHL-TOUR BUS 23 3	0.00	0.00	9,600.0	-9,942.4	-973.0	494,286.23	817,278.33	32° 21' 20.511 N	103° 26' 22.977 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,600.0	2,595.6	23.6	-58.0	Start 4776.3 hold at 2600.0 MD
7,376.3	7,267.6	397.2	-978.1	Start Drop -2.00
7,976.3	7,863.2	420.7	-1,036.1	Start 1259.3 hold at 7976.3 MD
9,235.6	9,122.5	420.7	-1,036.1	Start DLS 12.00 TFO 179.65
9,985.6	9,600.0	-56.7	-1,033.2	Start 9885.9 hold at 9985.6 MD
19,871.5	9,600.0	-9,942.4	-973.0	TD at 19871.5

NEW MEXICO

(SP) LEA

TOUR BUS PROJECT

TOUR BUS 23 FED COM 303H

OWB

PWP0

Anticollision Report

31 October, 2023

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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 & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 20,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/31/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,871.5	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
TOUR BUS PROJECT						
TOUR BUS 23 FED COM 302H - OWB - PWP0	2,000.0	1,999.0	33.0	18.8	2.332	CC
TOUR BUS 23 FED COM 302H - OWB - PWP0	2,300.0	2,295.6	33.8	17.7	2.092	ES
TOUR BUS 23 FED COM 302H - OWB - PWP0	2,400.0	2,394.4	34.8	18.0	2.069	SF
TOUR BUS 23 FED COM 304H - OWB - PWP0	2,000.0	2,000.0	33.0	18.8	2.332	CC, ES, SF
TOUR BUS 23 FED COM 602H - OWB - PWP0	2,396.9	2,386.3	133.3	116.4	7.906	CC
TOUR BUS 23 FED COM 602H - OWB - PWP0	2,500.0	2,485.6	133.6	116.0	7.615	ES
TOUR BUS 23 FED COM 602H - OWB - PWP0	2,900.0	2,878.5	145.4	125.2	7.185	SF
TOUR BUS 23 FED COM 603H - OWB - PWP0	3,270.2	3,263.2	111.3	87.7	4.702	CC
TOUR BUS 23 FED COM 603H - OWB - PWP0	3,500.0	3,492.5	112.3	86.9	4.417	ES
TOUR BUS 23 FED COM 603H - OWB - PWP0	9,325.0	9,375.0	228.1	160.4	3.368	SF
TOUR BUS 23 FED COM 604H - OWB - PWP0	1,966.3	1,967.3	134.1	120.2	9.638	CC
TOUR BUS 23 FED COM 604H - OWB - PWP0	2,000.0	2,000.0	134.1	120.0	9.476	ES
TOUR BUS 23 FED COM 604H - OWB - PWP0	2,300.0	2,292.0	142.3	126.1	8.774	SF
TOUR BUS 23 STATE #503H - OWB - OWB	9,725.0	9,746.2	847.9	797.3	16.756	ES
TOUR BUS 23 STATE #503H - OWB - OWB	9,739.9	9,753.2	847.8	797.3	16.779	CC
TOUR BUS 23 STATE #503H - OWB - OWB	14,600.0	14,780.0	1,101.3	967.7	8.241	SF
TOUR BUS 23 STATE #504H - OWB - AWP	9,733.3	9,560.8	168.7	103.1	2.573	CC, ES, SF
TOUR BUS 23 STATE #505H - OWB - AWP	2,274.4	2,323.0	627.0	612.7	43.903	CC
TOUR BUS 23 STATE #505H - OWB - AWP	2,300.0	2,348.9	627.1	612.6	43.374	ES
TOUR BUS 23 STATE #505H - OWB - AWP	14,700.0	15,112.0	1,155.5	998.6	7.364	SF
TOUR BUS 23 STATE #506H - AWP - OWB	2,038.8	2,051.5	658.0	645.6	53.282	CC, ES
TOUR BUS 23 STATE #506H - AWP - OWB	14,800.0	15,298.0	2,119.9	1,967.5	13.906	SF

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	-88.16	1.1	-33.0	33.0					
100.0	100.0	99.0	99.0	0.3	0.3	-88.16	1.1	-33.0	33.0	32.5	0.53	62.508		
200.0	200.0	199.0	199.0	0.6	0.6	-88.16	1.1	-33.0	33.0	31.8	1.24	26.527		
300.0	300.0	299.0	299.0	1.0	1.0	-88.16	1.1	-33.0	33.0	31.0	1.96	16.828		
400.0	400.0	399.0	399.0	1.3	1.3	-88.16	1.1	-33.0	33.0	30.3	2.68	12.323		
500.0	500.0	499.0	499.0	1.7	1.7	-88.16	1.1	-33.0	33.0	29.6	3.39	9.720		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)													
600.0	600.0	599.0	599.0	2.1	2.1	-88.16	1.1	-33.0	33.0	28.9	4.11	8.025		
700.0	700.0	699.0	699.0	2.4	2.4	-88.16	1.1	-33.0	33.0	28.2	4.83	6.834		
800.0	800.0	799.0	799.0	2.8	2.8	-88.16	1.1	-33.0	33.0	27.5	5.55	5.950		
900.0	900.0	899.0	899.0	3.1	3.1	-88.16	1.1	-33.0	33.0	26.7	6.26	5.269		
1,000.0	1,000.0	999.0	999.0	3.5	3.5	-88.16	1.1	-33.0	33.0	26.0	6.98	4.728		
1,100.0	1,100.0	1,099.0	1,099.0	3.8	3.8	-88.16	1.1	-33.0	33.0	25.3	7.70	4.287		
1,200.0	1,200.0	1,199.0	1,199.0	4.2	4.2	-88.16	1.1	-33.0	33.0	24.6	8.41	3.922		
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-88.16	1.1	-33.0	33.0	23.9	9.13	3.614		
1,400.0	1,400.0	1,399.0	1,399.0	4.9	4.9	-88.16	1.1	-33.0	33.0	23.1	9.85	3.351		
1,500.0	1,500.0	1,499.0	1,499.0	5.3	5.3	-88.16	1.1	-33.0	33.0	22.4	10.56	3.123		
1,600.0	1,600.0	1,599.0	1,599.0	5.6	5.6	-88.16	1.1	-33.0	33.0	21.7	11.28	2.925		
1,700.0	1,700.0	1,699.0	1,699.0	6.0	6.0	-88.16	1.1	-33.0	33.0	21.0	12.00	2.750		
1,800.0	1,800.0	1,799.0	1,799.0	6.4	6.4	-88.16	1.1	-33.0	33.0	20.3	12.71	2.595		
1,900.0	1,900.0	1,899.0	1,899.0	6.7	6.7	-88.16	1.1	-33.0	33.0	19.6	13.43	2.457		
2,000.0	2,000.0	1,999.0	1,999.0	7.1	7.1	-88.16	1.1	-33.0	33.0	18.8	14.15	2.332 CC		
2,100.0	2,100.0	2,097.9	2,097.9	7.4	7.4	-20.99	1.3	-34.6	33.0	18.2	14.84	2.227		
2,200.0	2,199.8	2,196.7	2,196.6	7.8	7.8	-23.14	2.0	-39.7	33.3	17.8	15.51	2.147		
2,300.0	2,299.5	2,295.6	2,295.1	8.1	8.1	-26.63	3.2	-48.1	33.8	17.7	16.16	2.092 ES		
2,400.0	2,398.7	2,394.4	2,393.1	8.5	8.5	-31.30	4.8	-59.8	34.8	18.0	16.80	2.069 SF		
2,500.0	2,497.5	2,493.2	2,490.7	8.9	8.8	-36.87	6.9	-74.9	36.3	18.9	17.45	2.082		
2,600.0	2,595.6	2,591.9	2,587.7	9.2	9.2	-42.97	9.5	-93.3	38.7	20.5	18.11	2.135		
2,700.0	2,693.4	2,690.6	2,683.9	9.6	9.6	-47.50	12.5	-115.0	43.1	24.3	18.79	2.292		
2,800.0	2,791.3	2,789.0	2,779.0	10.0	10.0	-48.83	16.0	-139.9	50.5	31.0	19.45	2.594		
2,900.0	2,889.1	2,886.9	2,872.8	10.4	10.4	-47.94	19.9	-167.9	60.7	40.6	20.09	3.021		
3,000.0	2,986.9	2,984.1	2,964.8	10.8	10.8	-45.87	24.2	-198.7	73.7	53.1	20.69	3.565		
3,100.0	3,084.7	3,080.4	3,054.9	11.3	11.3	-43.36	28.9	-232.4	89.8	68.5	21.25	4.224		
3,200.0	3,182.5	3,175.5	3,142.8	11.7	11.8	-40.81	33.9	-268.5	108.8	87.1	21.78	4.997		
3,300.0	3,280.3	3,270.2	3,229.0	12.1	12.4	-38.43	39.3	-307.3	130.9	108.6	22.33	5.864		
3,400.0	3,378.1	3,367.3	3,317.1	12.5	13.0	-36.53	45.0	-347.9	154.1	131.1	23.05	6.687		
3,500.0	3,476.0	3,464.5	3,405.1	13.0	13.6	-35.14	50.7	-388.6	177.4	153.6	23.78	7.459		
3,600.0	3,573.8	3,561.7	3,493.2	13.4	14.2	-34.06	56.3	-429.3	200.8	176.2	24.53	8.183		
3,700.0	3,671.6	3,658.9	3,581.3	13.9	14.8	-33.21	62.0	-469.9	224.2	198.9	25.30	8.863		
3,800.0	3,769.4	3,756.0	3,669.3	14.3	15.5	-32.52	67.7	-510.6	247.7	221.6	26.07	9.500		
3,900.0	3,867.2	3,853.2	3,757.4	14.8	16.2	-31.95	73.3	-551.3	271.1	244.3	26.85	10.100		
4,000.0	3,965.0	3,950.4	3,845.5	15.2	16.9	-31.47	79.0	-592.0	294.7	267.0	27.63	10.663		
4,100.0	4,062.8	4,047.5	3,933.5	15.7	17.6	-31.06	84.7	-632.6	318.2	289.8	28.43	11.193		
4,200.0	4,160.7	4,144.7	4,021.6	16.1	18.3	-30.71	90.4	-673.3	341.7	312.5	29.22	11.693		
4,300.0	4,258.5	4,241.9	4,109.7	16.6	19.0	-30.40	96.0	-714.0	365.3	335.2	30.03	12.165		
4,400.0	4,356.3	4,339.0	4,197.7	17.1	19.7	-30.13	101.7	-754.7	388.8	358.0	30.83	12.611		
4,500.0	4,454.1	4,436.2	4,285.8	17.5	20.4	-29.90	107.4	-795.3	412.4	380.8	31.64	13.033		
4,600.0	4,551.9	4,533.4	4,373.9	18.0	21.2	-29.68	113.1	-836.0	436.0	403.5	32.46	13.432		
4,700.0	4,649.7	4,630.6	4,461.9	18.4	21.9	-29.49	118.7	-876.7	459.5	426.3	33.27	13.811		
4,800.0	4,747.5	4,727.7	4,550.0	18.9	22.7	-29.32	124.4	-917.3	483.1	449.0	34.09	14.170		
4,900.0	4,845.4	4,824.9	4,638.1	19.4	23.4	-29.16	130.1	-958.0	506.7	471.8	34.92	14.512		
5,000.0	4,943.2	4,922.1	4,726.1	19.9	24.2	-29.02	135.7	-998.7	530.3	494.6	35.74	14.837		
5,100.0	5,041.0	5,019.2	4,814.2	20.3	24.9	-28.89	141.4	-1,039.4	553.9	517.3	36.57	15.146		
5,200.0	5,138.8	5,116.4	4,902.2	20.8	25.7	-28.77	147.1	-1,080.0	577.5	540.1	37.40	15.441		
5,300.0	5,236.6	5,213.6	4,990.3	21.3	26.4	-28.66	152.8	-1,120.7	601.1	562.9	38.23	15.722		
5,400.0	5,334.4	5,310.7	5,078.4	21.7	27.2	-28.56	158.4	-1,161.4	624.7	585.6	39.07	15.990		
5,500.0	5,432.3	5,407.9	5,166.4	22.2	28.0	-28.46	164.1	-1,202.0	648.3	608.4	39.90	16.247		
5,600.0	5,530.1	5,505.1	5,254.5	22.7	28.8	-28.37	169.8	-1,242.7	671.9	631.1	40.74	16.492		
5,700.0	5,627.9	5,602.3	5,342.6	23.2	29.5	-28.29	175.5	-1,283.4	695.5	653.9	41.58	16.727		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,800.0	5,725.7	5,699.4	5,430.6	23.6	30.3	-28.22	181.1	-1,324.1	719.1	676.7	42.42	16.953		
5,900.0	5,823.5	5,796.6	5,518.7	24.1	31.1	-28.14	186.8	-1,364.7	742.7	699.4	43.26	17.169		
6,000.0	5,921.3	5,893.8	5,606.8	24.6	31.8	-28.08	192.5	-1,405.4	766.3	722.2	44.10	17.376		
6,100.0	6,019.1	5,990.9	5,694.8	25.1	32.6	-28.01	198.1	-1,446.1	789.9	745.0	44.95	17.575		
6,200.0	6,117.0	6,088.1	5,782.9	25.5	33.4	-27.95	203.8	-1,486.8	813.5	767.7	45.79	17.766		
6,300.0	6,214.8	6,185.3	5,871.0	26.0	34.2	-27.90	209.5	-1,527.4	837.1	790.5	46.64	17.950		
6,400.0	6,312.6	6,282.4	5,959.0	26.5	35.0	-27.84	215.2	-1,568.1	860.7	813.3	47.48	18.127		
6,500.0	6,410.4	6,379.6	6,047.1	27.0	35.8	-27.79	220.8	-1,608.8	884.3	836.0	48.33	18.297		
6,600.0	6,508.2	6,476.8	6,135.2	27.5	36.5	-27.75	226.5	-1,649.4	908.0	858.8	49.18	18.461		
6,700.0	6,606.0	6,574.0	6,223.2	27.9	37.3	-27.70	232.2	-1,690.1	931.6	881.5	50.03	18.619		
6,800.0	6,703.8	6,671.1	6,311.3	28.4	38.1	-27.66	237.8	-1,730.8	955.2	904.3	50.88	18.772		
6,900.0	6,801.7	6,768.3	6,399.4	28.9	38.9	-27.62	243.5	-1,771.5	978.8	927.1	51.73	18.920		
7,000.0	6,899.5	6,865.5	6,487.4	29.4	39.7	-27.58	249.2	-1,812.1	1,002.4	949.8	52.59	19.062		
7,100.0	6,997.3	6,962.6	6,575.5	29.9	40.5	-27.54	254.9	-1,852.8	1,026.0	972.6	53.44	19.199		
7,200.0	7,095.1	7,059.8	6,663.6	30.4	41.3	-27.50	260.5	-1,893.5	1,049.6	995.3	54.29	19.332		
7,300.0	7,192.9	7,157.0	6,751.6	30.8	42.1	-27.47	266.2	-1,934.1	1,073.3	1,018.1	55.15	19.461		
7,376.3	7,267.6	7,231.1	6,818.8	31.2	42.7	-27.45	270.5	-1,965.2	1,091.3	1,035.5	55.80	19.556		
7,400.0	7,290.8	7,254.1	6,839.7	31.3	42.9	-27.49	271.9	-1,974.8	1,096.9	1,040.9	56.00	19.587		
7,500.0	7,389.1	7,350.7	6,927.2	31.8	43.6	-27.64	277.5	-2,015.2	1,122.8	1,065.9	56.83	19.755		
7,600.0	7,488.0	7,446.4	7,013.9	32.2	44.4	-27.75	283.1	-2,055.3	1,151.6	1,093.9	57.63	19.981		
7,700.0	7,587.3	7,541.1	7,099.8	32.6	45.2	-27.82	288.6	-2,094.9	1,183.3	1,124.9	58.40	20.264		
7,800.0	7,687.0	7,696.4	7,242.1	33.0	46.4	-27.67	297.2	-2,156.4	1,215.8	1,156.0	59.84	20.319		
7,900.0	7,786.9	7,860.1	7,395.6	33.3	47.5	-27.47	305.1	-2,212.9	1,246.1	1,184.9	61.18	20.369		
7,976.3	7,863.2	7,987.9	7,517.4	33.5	48.3	-95.19	310.4	-2,250.8	1,267.5	1,205.5	62.08	20.417		
8,000.0	7,886.9	8,028.1	7,556.1	33.6	48.5	-95.08	311.9	-2,261.7	1,273.8	1,211.5	62.34	20.433		
8,100.0	7,986.9	8,201.0	7,724.2	33.9	49.4	-94.66	317.5	-2,302.1	1,296.9	1,233.6	63.33	20.477		
8,200.0	8,086.9	8,378.5	7,898.8	34.2	50.2	-94.36	321.8	-2,333.1	1,314.1	1,250.0	64.14	20.490		
8,300.0	8,186.9	8,559.3	8,078.4	34.5	50.8	-94.17	324.7	-2,353.5	1,325.3	1,260.6	64.73	20.475		
8,400.0	8,286.9	8,742.0	8,260.8	34.8	51.3	-94.09	326.0	-2,362.8	1,330.3	1,265.2	65.10	20.435		
8,500.0	8,386.9	8,867.1	8,385.9	35.1	51.6	-94.08	326.1	-2,363.3	1,330.6	1,265.0	65.60	20.283		
8,600.0	8,486.9	8,967.1	8,485.9	35.4	51.8	-94.08	326.1	-2,363.3	1,330.6	1,264.4	66.22	20.093		
8,700.0	8,586.9	9,067.1	8,585.9	35.7	52.0	-94.08	326.1	-2,363.3	1,330.6	1,263.7	66.84	19.906		
8,800.0	8,686.9	9,167.1	8,685.9	36.0	52.2	-94.08	326.1	-2,363.3	1,330.6	1,263.1	67.47	19.722		
8,900.0	8,786.9	9,267.1	8,785.9	36.3	52.4	-94.08	326.1	-2,363.3	1,330.6	1,262.5	68.09	19.540		
9,000.0	8,886.9	9,367.1	8,885.9	36.6	52.6	-94.08	326.1	-2,363.3	1,330.6	1,261.9	68.72	19.362		
9,100.0	8,986.9	9,467.1	8,985.9	36.9	52.8	-94.08	326.1	-2,363.3	1,330.6	1,261.2	69.35	19.186		
9,200.0	9,086.9	9,567.1	9,085.9	37.2	53.1	-94.08	326.1	-2,363.3	1,330.6	1,260.6	69.98	19.013		
9,235.6	9,122.5	9,602.7	9,121.5	37.4	53.1	-94.08	326.1	-2,363.3	1,330.6	1,260.4	70.21	18.952		
9,250.0	9,136.9	9,615.0	9,133.8	37.4	53.2	86.27	325.9	-2,363.3	1,330.6	1,260.3	70.30	18.926		
9,275.0	9,161.8	9,636.2	9,155.0	37.5	53.2	86.28	325.0	-2,363.3	1,330.6	1,260.1	70.46	18.884		
9,300.0	9,186.7	9,657.3	9,176.0	37.5	53.3	86.30	323.0	-2,363.3	1,330.5	1,259.9	70.61	18.844		
9,325.0	9,211.4	9,678.5	9,197.0	37.6	53.3	86.33	320.2	-2,363.3	1,330.5	1,259.7	70.74	18.807		
9,350.0	9,235.8	9,700.0	9,218.2	37.6	53.3	86.37	316.4	-2,363.2	1,330.4	1,259.6	70.87	18.774		
9,375.0	9,259.9	9,721.0	9,238.6	37.7	53.4	86.42	311.7	-2,363.2	1,330.4	1,259.4	70.98	18.742		
9,400.0	9,283.6	9,742.3	9,259.1	37.8	53.4	86.47	306.1	-2,363.2	1,330.3	1,259.2	71.09	18.714		
9,425.0	9,306.9	9,763.6	9,279.4	37.8	53.4	86.53	299.5	-2,363.1	1,330.2	1,259.0	71.18	18.688		
9,450.0	9,329.7	9,785.0	9,299.4	37.8	53.5	86.61	292.1	-2,363.1	1,330.1	1,258.8	71.26	18.665		
9,475.0	9,352.0	9,806.4	9,319.2	37.9	53.5	86.69	283.7	-2,363.0	1,330.0	1,258.7	71.34	18.644		
9,500.0	9,373.6	9,827.9	9,338.5	37.9	53.5	86.77	274.4	-2,363.0	1,329.9	1,258.5	71.40	18.625		
9,525.0	9,394.5	9,850.0	9,358.0	37.9	53.5	86.87	263.9	-2,362.9	1,329.8	1,258.3	71.46	18.609		
9,550.0	9,414.6	9,871.1	9,376.1	38.0	53.6	86.97	253.1	-2,362.9	1,329.6	1,258.1	71.51	18.594		
9,575.0	9,434.0	9,892.8	9,394.2	38.0	53.6	87.08	241.2	-2,362.8	1,329.5	1,258.0	71.55	18.580		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,600.0	9,452.5	9,914.6	9,411.9	38.0	53.6	87.20	228.4	-2,362.7	1,329.4	1,257.8	71.59	18.569		
9,625.0	9,470.1	9,936.5	9,429.0	38.0	53.6	87.33	214.7	-2,362.6	1,329.2	1,257.6	71.63	18.558		
9,650.0	9,486.8	9,958.5	9,445.5	38.0	53.6	87.46	200.2	-2,362.5	1,329.1	1,257.4	71.66	18.548		
9,675.0	9,502.4	9,980.6	9,461.5	38.0	53.6	87.60	184.9	-2,362.4	1,329.0	1,257.3	71.68	18.540		
9,700.0	9,517.0	10,002.8	9,476.7	38.0	53.7	87.74	168.7	-2,362.3	1,328.8	1,257.1	71.71	18.532		
9,725.0	9,530.6	10,025.0	9,491.2	38.0	53.7	87.89	151.9	-2,362.2	1,328.7	1,257.0	71.73	18.525		
9,750.0	9,543.0	10,047.7	9,505.2	38.0	53.7	88.04	134.1	-2,362.1	1,328.6	1,256.8	71.75	18.518		
9,775.0	9,554.3	10,070.3	9,518.3	38.0	53.7	88.21	115.6	-2,362.0	1,328.4	1,256.7	71.77	18.511		
9,800.0	9,564.3	10,093.1	9,530.6	38.0	53.7	88.37	96.5	-2,361.9	1,328.3	1,256.6	71.78	18.505		
9,825.0	9,573.2	10,116.0	9,542.0	38.0	53.7	88.54	76.6	-2,361.8	1,328.2	1,256.4	71.80	18.498		
9,850.0	9,580.8	10,139.1	9,552.6	38.0	53.7	88.71	56.0	-2,361.7	1,328.1	1,256.3	71.82	18.492		
9,875.0	9,587.2	10,162.4	9,562.2	38.0	53.7	88.89	34.8	-2,361.5	1,328.0	1,256.2	71.84	18.486		
9,900.0	9,592.3	10,185.9	9,570.8	37.9	53.7	89.07	13.0	-2,361.4	1,328.0	1,256.1	71.86	18.480		
9,925.0	9,596.1	10,209.5	9,578.4	37.9	53.7	89.25	-9.4	-2,361.3	1,327.9	1,256.0	71.88	18.474		
9,950.0	9,598.6	10,233.4	9,584.9	37.9	53.7	89.44	-32.3	-2,361.1	1,327.9	1,256.0	71.90	18.468		
9,975.0	9,599.8	10,257.4	9,590.3	37.9	53.7	89.63	-55.8	-2,361.0	1,327.8	1,255.9	71.92	18.462		
9,985.6	9,600.0	10,267.7	9,592.2	37.9	53.7	89.71	-65.9	-2,360.9	1,327.8	1,255.9	71.93	18.460		
10,000.0	9,600.0	10,281.7	9,594.5	37.9	53.7	89.81	-79.7	-2,360.9	1,327.8	1,255.9	71.95	18.456		
10,024.8	9,600.0	10,306.2	9,597.6	37.9	53.6	89.94	-104.0	-2,360.7	1,327.8	1,255.8	71.99	18.443		
10,100.0	9,600.0	10,381.3	9,600.0	37.9	53.6	90.04	-179.0	-2,360.3	1,327.8	1,255.6	72.22	18.387		
10,200.0	9,600.0	10,481.3	9,600.0	38.0	53.7	90.04	-279.0	-2,359.7	1,327.8	1,255.2	72.67	18.271		
10,300.0	9,600.0	10,581.3	9,600.0	38.1	53.7	90.04	-379.0	-2,359.1	1,327.8	1,254.6	73.27	18.122		
10,400.0	9,600.0	10,681.3	9,600.0	38.3	53.8	90.04	-479.0	-2,358.5	1,327.8	1,253.8	74.02	17.940		
10,500.0	9,600.0	10,781.3	9,600.0	38.7	53.9	90.04	-579.0	-2,357.9	1,327.9	1,253.0	74.90	17.729		
10,600.0	9,600.0	10,881.3	9,600.0	39.1	54.0	90.04	-679.0	-2,357.3	1,327.9	1,252.0	75.91	17.492		
10,700.0	9,600.0	10,981.3	9,600.0	39.6	54.2	90.04	-779.0	-2,356.7	1,327.9	1,250.8	77.06	17.232		
10,800.0	9,600.0	11,081.3	9,600.0	40.1	54.4	90.04	-879.0	-2,356.1	1,327.9	1,249.6	78.32	16.954		
10,900.0	9,600.0	11,181.3	9,600.0	40.8	54.6	90.04	-979.0	-2,355.5	1,327.9	1,248.2	79.71	16.660		
11,000.0	9,600.0	11,281.3	9,600.0	41.5	54.9	90.04	-1,079.0	-2,354.9	1,327.9	1,246.7	81.20	16.353		
11,100.0	9,600.0	11,381.3	9,600.0	42.3	55.3	90.04	-1,179.0	-2,354.3	1,327.9	1,245.1	82.80	16.038		
11,200.0	9,600.0	11,481.3	9,600.0	43.1	55.6	90.04	-1,279.0	-2,353.7	1,327.9	1,243.4	84.50	15.716		
11,300.0	9,600.0	11,581.3	9,600.0	44.0	56.1	90.04	-1,379.0	-2,353.1	1,327.9	1,241.6	86.29	15.390		
11,400.0	9,600.0	11,681.3	9,600.0	44.9	56.5	90.04	-1,479.0	-2,352.5	1,327.9	1,239.8	88.17	15.062		
11,500.0	9,600.0	11,781.3	9,600.0	45.9	57.1	90.04	-1,579.0	-2,351.9	1,328.0	1,237.8	90.13	14.734		
11,600.0	9,600.0	11,881.3	9,600.0	46.9	57.6	90.04	-1,679.0	-2,351.3	1,328.0	1,235.8	92.16	14.409		
11,700.0	9,600.0	11,981.3	9,600.0	47.9	58.3	90.04	-1,779.0	-2,350.7	1,328.0	1,233.7	94.27	14.087		
11,800.0	9,600.0	12,081.3	9,600.0	49.0	58.9	90.04	-1,879.0	-2,350.1	1,328.0	1,231.5	96.45	13.769		
11,900.0	9,600.0	12,181.3	9,600.0	50.1	59.7	90.04	-1,979.0	-2,349.5	1,328.0	1,229.3	98.68	13.457		
12,000.0	9,600.0	12,281.3	9,600.0	51.2	60.4	90.04	-2,079.0	-2,348.9	1,328.0	1,227.0	100.98	13.151		
12,100.0	9,600.0	12,381.3	9,600.0	52.4	61.2	90.04	-2,179.0	-2,348.3	1,328.0	1,224.7	103.33	12.852		
12,200.0	9,600.0	12,481.3	9,600.0	53.6	62.1	90.04	-2,279.0	-2,347.7	1,328.0	1,222.3	105.73	12.560		
12,300.0	9,600.0	12,581.3	9,600.0	54.8	63.0	90.04	-2,379.0	-2,347.1	1,328.0	1,219.9	108.18	12.276		
12,400.0	9,600.0	12,681.3	9,600.0	56.1	64.0	90.04	-2,479.0	-2,346.5	1,328.0	1,217.4	110.68	11.999		
12,500.0	9,600.0	12,781.3	9,600.0	57.3	65.0	90.04	-2,579.0	-2,345.9	1,328.1	1,214.8	113.21	11.731		
12,600.0	9,600.0	12,881.3	9,600.0	58.6	66.0	90.04	-2,679.0	-2,345.3	1,328.1	1,212.3	115.78	11.470		
12,700.0	9,600.0	12,981.3	9,600.0	59.9	67.0	90.04	-2,779.0	-2,344.7	1,328.1	1,209.7	118.39	11.218		
12,800.0	9,600.0	13,081.3	9,600.0	61.2	68.1	90.04	-2,879.0	-2,344.1	1,328.1	1,207.1	121.04	10.973		
12,900.0	9,600.0	13,181.3	9,600.0	62.5	69.2	90.04	-2,979.0	-2,343.5	1,328.1	1,204.4	123.71	10.735		
13,000.0	9,600.0	13,281.3	9,600.0	63.9	70.4	90.04	-3,079.0	-2,342.9	1,328.1	1,201.7	126.42	10.506		
13,100.0	9,600.0	13,381.3	9,600.0	65.2	71.5	90.04	-3,179.0	-2,342.3	1,328.1	1,199.0	129.15	10.284		
13,200.0	9,600.0	13,481.3	9,600.0	66.6	72.7	90.04	-3,279.0	-2,341.7	1,328.1	1,196.2	131.91	10.069		
13,300.0	9,600.0	13,581.3	9,600.0	68.0	74.0	90.04	-3,379.0	-2,341.1	1,328.1	1,193.4	134.69	9.861		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
13,400.0	9,600.0	13,681.3	9,600.0	69.4	75.2	90.04	-3,479.0	-2,340.5	1,328.2	1,190.7	137.50	9.659		
13,500.0	9,600.0	13,781.3	9,600.0	70.8	76.4	90.04	-3,579.0	-2,339.9	1,328.2	1,187.8	140.33	9.465		
13,600.0	9,600.0	13,881.3	9,600.0	72.2	77.7	90.04	-3,679.0	-2,339.3	1,328.2	1,185.0	143.17	9.277		
13,700.0	9,600.0	13,981.3	9,600.0	73.6	79.0	90.04	-3,779.0	-2,338.7	1,328.2	1,182.1	146.04	9.095		
13,800.0	9,600.0	14,081.3	9,600.0	75.1	80.3	90.04	-3,878.9	-2,338.1	1,328.2	1,179.3	148.93	8.918		
13,900.0	9,600.0	14,181.3	9,600.0	76.5	81.6	90.04	-3,978.9	-2,337.5	1,328.2	1,176.4	151.83	8.748		
14,000.0	9,600.0	14,281.3	9,600.0	78.0	83.0	90.04	-4,078.9	-2,336.9	1,328.2	1,173.5	154.75	8.583		
14,100.0	9,600.0	14,381.3	9,600.0	79.4	84.3	90.04	-4,178.9	-2,336.4	1,328.2	1,170.5	157.68	8.424		
14,200.0	9,600.0	14,481.3	9,600.0	80.9	85.7	90.04	-4,278.9	-2,335.8	1,328.2	1,167.6	160.63	8.269		
14,300.0	9,600.0	14,581.3	9,600.0	82.4	87.0	90.04	-4,378.9	-2,335.2	1,328.2	1,164.7	163.59	8.119		
14,400.0	9,600.0	14,681.3	9,600.0	83.8	88.4	90.04	-4,478.9	-2,334.6	1,328.3	1,161.7	166.56	7.975		
14,500.0	9,600.0	14,781.3	9,600.0	85.3	89.8	90.04	-4,578.9	-2,334.0	1,328.3	1,158.7	169.55	7.834		
14,600.0	9,600.0	14,881.3	9,600.0	86.8	91.2	90.04	-4,678.9	-2,333.4	1,328.3	1,155.7	172.55	7.698		
14,700.0	9,600.0	14,981.3	9,600.0	88.3	92.6	90.04	-4,778.9	-2,332.8	1,328.3	1,152.7	175.56	7.566		
14,800.0	9,600.0	15,081.3	9,600.0	89.8	94.0	90.04	-4,878.9	-2,332.2	1,328.3	1,149.7	178.57	7.438		
14,900.0	9,600.0	15,181.3	9,600.0	91.3	95.5	90.04	-4,978.9	-2,331.6	1,328.3	1,146.7	181.60	7.314		
15,000.0	9,600.0	15,281.3	9,600.0	92.8	96.9	90.04	-5,078.9	-2,331.0	1,328.3	1,143.7	184.64	7.194		
15,100.0	9,600.0	15,381.3	9,600.0	94.4	98.3	90.04	-5,178.9	-2,330.4	1,328.3	1,140.6	187.69	7.077		
15,200.0	9,600.0	15,481.3	9,600.0	95.9	99.8	90.04	-5,278.9	-2,329.8	1,328.3	1,137.6	190.74	6.964		
15,300.0	9,600.0	15,581.3	9,600.0	97.4	101.3	90.04	-5,378.9	-2,329.2	1,328.3	1,134.5	193.81	6.854		
15,400.0	9,600.0	15,681.3	9,600.0	98.9	102.7	90.04	-5,478.9	-2,328.6	1,328.4	1,131.5	196.88	6.747		
15,500.0	9,600.0	15,781.3	9,600.0	100.5	104.2	90.04	-5,578.9	-2,328.0	1,328.4	1,128.4	199.96	6.643		
15,600.0	9,600.0	15,881.3	9,600.0	102.0	105.7	90.04	-5,678.9	-2,327.4	1,328.4	1,125.3	203.04	6.542		
15,700.0	9,600.0	15,981.3	9,600.0	103.6	107.1	90.04	-5,778.9	-2,326.8	1,328.4	1,122.2	206.14	6.444		
15,800.0	9,600.0	16,081.3	9,600.0	105.1	108.6	90.04	-5,878.9	-2,326.2	1,328.4	1,119.2	209.24	6.349		
15,900.0	9,600.0	16,181.3	9,600.0	106.7	110.1	90.04	-5,978.9	-2,325.6	1,328.4	1,116.1	212.34	6.256		
16,000.0	9,600.0	16,281.3	9,600.0	108.2	111.6	90.04	-6,078.9	-2,325.0	1,328.4	1,113.0	215.45	6.166		
16,100.0	9,600.0	16,381.3	9,600.0	109.8	113.1	90.04	-6,178.9	-2,324.4	1,328.4	1,109.9	218.57	6.078		
16,200.0	9,600.0	16,481.3	9,600.0	111.3	114.6	90.04	-6,278.9	-2,323.8	1,328.4	1,106.7	221.69	5.992		
16,300.0	9,600.0	16,581.3	9,600.0	112.9	116.1	90.04	-6,378.9	-2,323.2	1,328.4	1,103.6	224.82	5.909		
16,400.0	9,600.0	16,681.3	9,600.0	114.4	117.6	90.04	-6,478.9	-2,322.6	1,328.5	1,100.5	227.95	5.828		
16,500.0	9,600.0	16,781.3	9,600.0	116.0	119.1	90.04	-6,578.9	-2,322.0	1,328.5	1,097.4	231.09	5.749		
16,600.0	9,600.0	16,881.3	9,600.0	117.6	120.7	90.04	-6,678.9	-2,321.4	1,328.5	1,094.3	234.23	5.672		
16,700.0	9,600.0	16,981.3	9,600.0	119.1	122.2	90.04	-6,778.9	-2,320.8	1,328.5	1,091.1	237.37	5.597		
16,800.0	9,600.0	17,081.3	9,600.0	120.7	123.7	90.04	-6,878.9	-2,320.2	1,328.5	1,088.0	240.52	5.523		
16,900.0	9,600.0	17,181.3	9,600.0	122.3	125.2	90.04	-6,978.9	-2,319.6	1,328.5	1,084.8	243.68	5.452		
17,000.0	9,600.0	17,281.3	9,600.0	123.9	126.8	90.04	-7,078.9	-2,319.0	1,328.5	1,081.7	246.84	5.382		
17,100.0	9,600.0	17,381.3	9,600.0	125.4	128.3	90.04	-7,178.9	-2,318.4	1,328.5	1,078.5	250.00	5.314		
17,200.0	9,600.0	17,481.3	9,600.0	127.0	129.9	90.04	-7,278.9	-2,317.8	1,328.5	1,075.4	253.16	5.248		
17,300.0	9,600.0	17,581.3	9,600.0	128.6	131.4	90.04	-7,378.9	-2,317.2	1,328.6	1,072.2	256.33	5.183		
17,400.0	9,600.0	17,681.3	9,600.0	130.2	132.9	90.04	-7,478.9	-2,316.6	1,328.6	1,069.1	259.50	5.120		
17,500.0	9,600.0	17,781.3	9,600.0	131.8	134.5	90.04	-7,578.9	-2,316.0	1,328.6	1,065.9	262.68	5.058		
17,600.0	9,600.0	17,881.3	9,600.0	133.3	136.0	90.04	-7,678.9	-2,315.4	1,328.6	1,062.7	265.86	4.997		
17,700.0	9,600.0	17,981.3	9,600.0	134.9	137.6	90.04	-7,778.9	-2,314.8	1,328.6	1,059.6	269.04	4.938		
17,800.0	9,600.0	18,081.3	9,600.0	136.5	139.1	90.04	-7,878.9	-2,314.2	1,328.6	1,056.4	272.22	4.881		
17,900.0	9,600.0	18,181.3	9,600.0	138.1	140.7	90.04	-7,978.9	-2,313.6	1,328.6	1,053.2	275.41	4.824		
18,000.0	9,600.0	18,281.3	9,600.0	139.7	142.3	90.04	-8,078.9	-2,313.0	1,328.6	1,050.0	278.60	4.769		
18,100.0	9,600.0	18,381.3	9,600.0	141.3	143.8	90.04	-8,178.9	-2,312.4	1,328.6	1,046.8	281.79	4.715		
18,200.0	9,600.0	18,481.3	9,600.0	142.9	145.4	90.04	-8,278.9	-2,311.8	1,328.6	1,043.7	284.99	4.662		
18,300.0	9,600.0	18,581.3	9,600.0	144.5	147.0	90.04	-8,378.9	-2,311.2	1,328.7	1,040.5	288.18	4.610		
18,400.0	9,600.0	18,681.3	9,600.0	146.1	148.5	90.04	-8,478.9	-2,310.6	1,328.7	1,037.3	291.38	4.560		
18,500.0	9,600.0	18,781.3	9,600.0	147.7	150.1	90.04	-8,578.9	-2,310.0	1,328.7	1,034.1	294.59	4.510		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 302H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,600.0	9,600.0	18,881.3	9,600.0	149.3	151.7	90.04	-8,678.9	-2,309.4	1,328.7	1,030.9	297.79	4.462		
18,700.0	9,600.0	18,981.3	9,600.0	150.9	153.2	90.04	-8,778.9	-2,308.8	1,328.7	1,027.7	301.00	4.414		
18,800.0	9,600.0	19,081.3	9,600.0	152.5	154.8	90.04	-8,878.9	-2,308.2	1,328.7	1,024.5	304.20	4.368		
18,900.0	9,600.0	19,181.3	9,600.0	154.1	156.4	90.04	-8,978.9	-2,307.6	1,328.7	1,021.3	307.41	4.322		
19,000.0	9,600.0	19,281.3	9,600.0	155.7	158.0	90.04	-9,078.9	-2,307.1	1,328.7	1,018.1	310.63	4.278		
19,100.0	9,600.0	19,381.3	9,600.0	157.3	159.5	90.04	-9,178.9	-2,306.5	1,328.7	1,014.9	313.84	4.234		
19,200.0	9,600.0	19,481.3	9,600.0	158.9	161.1	90.04	-9,278.9	-2,305.9	1,328.7	1,011.7	317.06	4.191		
19,300.0	9,600.0	19,581.3	9,600.0	160.5	162.7	90.04	-9,378.9	-2,305.3	1,328.8	1,008.5	320.27	4.149		
19,400.0	9,600.0	19,681.3	9,600.0	162.1	164.3	90.04	-9,478.8	-2,304.7	1,328.8	1,005.3	323.49	4.108		
19,500.0	9,600.0	19,781.3	9,600.0	163.7	165.9	90.04	-9,578.8	-2,304.1	1,328.8	1,002.1	326.71	4.067		
19,600.0	9,600.0	19,881.3	9,600.0	165.3	167.5	90.04	-9,678.8	-2,303.5	1,328.8	998.9	329.94	4.027		
19,700.0	9,600.0	19,981.3	9,600.0	166.9	169.0	90.04	-9,778.8	-2,302.9	1,328.8	995.6	333.16	3.988		
19,800.0	9,600.0	20,081.3	9,600.0	168.6	170.6	90.04	-9,878.8	-2,302.3	1,328.8	992.4	336.39	3.950		
19,871.5	9,600.0	20,152.8	9,600.0	169.7	171.8	90.04	-9,950.3	-2,301.8	1,328.8	990.1	338.69	3.923		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 304H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	0.0	91.84	-1.1	33.0	33.0					
100.0	100.0	100.0	100.0	0.3	0.3	91.84	-1.1	33.0	33.0	32.5	0.53	62.195		
200.0	200.0	200.0	200.0	0.6	0.6	91.84	-1.1	33.0	33.0	31.7	1.25	26.451		
300.0	300.0	300.0	300.0	1.0	1.0	91.84	-1.1	33.0	33.0	31.0	1.96	16.797		
400.0	400.0	400.0	400.0	1.3	1.3	91.84	-1.1	33.0	33.0	30.3	2.68	12.306		
500.0	500.0	500.0	500.0	1.7	1.7	91.84	-1.1	33.0	33.0	29.6	3.40	9.710		
600.0	600.0	600.0	600.0	2.1	2.1	91.84	-1.1	33.0	33.0	28.9	4.12	8.018		
700.0	700.0	700.0	700.0	2.4	2.4	91.84	-1.1	33.0	33.0	28.2	4.83	6.829		
800.0	800.0	800.0	800.0	2.8	2.8	91.84	-1.1	33.0	33.0	27.4	5.55	5.946		
900.0	900.0	900.0	900.0	3.1	3.1	91.84	-1.1	33.0	33.0	26.7	6.27	5.266		
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	91.84	-1.1	33.0	33.0	26.0	6.98	4.725		
1,100.0	1,100.0	1,100.0	1,100.0	3.8	3.8	91.84	-1.1	33.0	33.0	25.3	7.70	4.285		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	91.84	-1.1	33.0	33.0	24.6	8.42	3.920		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	91.84	-1.1	33.0	33.0	23.9	9.13	3.613		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	91.84	-1.1	33.0	33.0	23.1	9.85	3.350		
1,500.0	1,500.0	1,500.0	1,500.0	5.3	5.3	91.84	-1.1	33.0	33.0	22.4	10.57	3.122		
1,600.0	1,600.0	1,600.0	1,600.0	5.6	5.6	91.84	-1.1	33.0	33.0	21.7	11.28	2.924		
1,700.0	1,700.0	1,700.0	1,700.0	6.0	6.0	91.84	-1.1	33.0	33.0	21.0	12.00	2.749		
1,800.0	1,800.0	1,800.0	1,800.0	6.4	6.4	91.84	-1.1	33.0	33.0	20.3	12.72	2.594		
1,900.0	1,900.0	1,900.0	1,900.0	6.7	6.7	91.84	-1.1	33.0	33.0	19.6	13.44	2.456		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	91.84	-1.1	33.0	33.0	18.8	14.15	2.332 CC, ES, SF		
2,100.0	2,100.0	2,099.5	2,099.4	7.4	7.4	158.16	0.5	33.8	35.4	20.5	14.86	2.381		
2,200.0	2,199.8	2,198.5	2,198.4	7.8	7.8	154.48	5.1	36.1	42.6	27.1	15.55	2.741		
2,300.0	2,299.5	2,296.8	2,296.3	8.1	8.1	150.52	12.7	39.9	54.9	38.7	16.24	3.384		
2,400.0	2,398.7	2,394.0	2,392.7	8.5	8.5	147.21	23.1	45.1	72.3	55.4	16.91	4.278		
2,500.0	2,497.5	2,491.5	2,489.3	8.9	8.8	145.37	35.2	51.3	93.8	76.2	17.60	5.331		
2,600.0	2,595.6	2,588.5	2,585.4	9.2	9.2	145.09	47.3	57.3	118.2	99.9	18.31	6.456		
2,700.0	2,693.4	2,685.1	2,681.0	9.6	9.6	145.50	59.3	63.4	143.9	124.9	19.01	7.569		
2,800.0	2,791.3	2,781.7	2,776.7	10.0	9.9	145.79	71.3	69.4	169.7	149.9	19.72	8.601		
2,900.0	2,889.1	2,878.4	2,872.4	10.4	10.3	146.00	83.3	75.5	195.4	174.9	20.44	9.559		
3,000.0	2,986.9	2,975.0	2,968.1	10.8	10.7	146.16	95.3	81.5	221.1	200.0	21.16	10.449		
3,100.0	3,084.7	3,071.6	3,063.8	11.3	11.0	146.29	107.3	87.6	246.9	225.0	21.89	11.278		
3,200.0	3,182.5	3,168.3	3,159.5	11.7	11.4	146.40	119.3	93.6	272.6	250.0	22.62	12.052		
3,300.0	3,280.3	3,264.9	3,255.2	12.1	11.8	146.48	131.3	99.7	298.4	275.0	23.36	12.774		
3,400.0	3,378.1	3,361.5	3,350.9	12.5	12.1	146.56	143.3	105.7	324.1	300.0	24.09	13.451		
3,500.0	3,476.0	3,458.1	3,446.6	13.0	12.5	146.62	155.4	111.8	349.8	325.0	24.84	14.086		
3,600.0	3,573.8	3,554.8	3,542.2	13.4	12.9	146.67	167.4	117.8	375.6	350.0	25.58	14.682		
3,700.0	3,671.6	3,651.4	3,637.9	13.9	13.3	146.72	179.4	123.9	401.3	375.0	26.33	15.242		
3,800.0	3,769.4	3,748.0	3,733.6	14.3	13.7	146.76	191.4	129.9	427.1	400.0	27.08	15.771		
3,900.0	3,867.2	3,844.7	3,829.3	14.8	14.1	146.80	203.4	136.0	452.8	425.0	27.83	16.269		
4,000.0	3,965.0	3,941.3	3,925.0	15.2	14.4	146.83	215.4	142.0	478.6	450.0	28.59	16.740		
4,100.0	4,062.8	4,037.9	4,020.7	15.7	14.8	146.86	227.4	148.1	504.3	475.0	29.35	17.185		
4,200.0	4,160.7	4,134.6	4,116.4	16.1	15.2	146.88	239.4	154.1	530.0	499.9	30.10	17.607		
4,300.0	4,258.5	4,231.2	4,212.1	16.6	15.6	146.91	251.4	160.2	555.8	524.9	30.86	18.007		
4,400.0	4,356.3	4,327.8	4,307.7	17.1	16.0	146.93	263.4	166.2	581.5	549.9	31.63	18.387		
4,500.0	4,454.1	4,424.4	4,403.4	17.5	16.4	146.95	275.5	172.3	607.3	574.9	32.39	18.748		
4,600.0	4,551.9	4,521.1	4,499.1	18.0	16.8	146.97	287.5	178.3	633.0	599.9	33.16	19.092		
4,700.0	4,649.7	4,617.7	4,594.8	18.4	17.2	146.98	299.5	184.4	658.8	624.9	33.92	19.420		
4,800.0	4,747.5	4,714.3	4,690.5	18.9	17.5	147.00	311.5	190.4	684.5	649.8	34.69	19.732		
4,900.0	4,845.4	4,811.0	4,786.2	19.4	17.9	147.01	323.5	196.5	710.3	674.8	35.46	20.030		
5,000.0	4,943.2	4,907.6	4,881.9	19.9	18.3	147.03	335.5	202.5	736.0	699.8	36.23	20.315		
5,100.0	5,041.0	5,004.2	4,977.6	20.3	18.7	147.04	347.5	208.6	761.8	724.8	37.00	20.588		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 304H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:	0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,138.8	5,100.8	5,073.3	20.8	19.1	147.05	359.5	214.6	787.5	749.7	37.77	20.848		
5,300.0	5,236.6	5,197.5	5,168.9	21.3	19.5	147.06	371.5	220.7	813.2	774.7	38.55	21.098		
5,400.0	5,334.4	5,294.1	5,264.6	21.7	19.9	147.07	383.6	226.7	839.0	799.7	39.32	21.338		
5,500.0	5,432.3	5,390.7	5,360.3	22.2	20.3	147.08	395.6	232.8	864.7	824.6	40.09	21.568		
5,600.0	5,530.1	5,487.4	5,456.0	22.7	20.7	147.09	407.6	238.8	890.5	849.6	40.87	21.789		
5,700.0	5,627.9	5,584.0	5,551.7	23.2	21.1	147.10	419.6	244.9	916.2	874.6	41.65	22.001		
5,800.0	5,725.7	5,695.4	5,662.2	23.6	21.5	147.16	432.6	251.4	941.5	899.0	42.54	22.134		
5,900.0	5,823.5	5,816.7	5,782.9	24.1	22.0	147.45	442.5	256.4	964.5	921.0	43.46	22.191		
6,000.0	5,921.3	5,938.9	5,905.0	24.6	22.4	147.97	447.9	259.2	985.1	940.7	44.35	22.213		
6,100.0	6,019.1	6,053.1	6,019.1	25.1	22.8	148.65	448.9	259.7	1,003.4	958.3	45.15	22.225		
6,200.0	6,117.0	6,150.9	6,117.0	25.5	23.1	149.25	448.9	259.7	1,021.3	975.5	45.86	22.268		
6,300.0	6,214.8	6,248.7	6,214.8	26.0	23.5	149.84	448.9	259.7	1,039.4	992.8	46.58	22.313		
6,400.0	6,312.6	6,346.5	6,312.6	26.5	23.8	150.40	448.9	259.7	1,057.5	1,010.2	47.29	22.359		
6,500.0	6,410.4	6,444.3	6,410.4	27.0	24.1	150.94	448.9	259.7	1,075.7	1,027.7	48.01	22.406		
6,600.0	6,508.2	6,542.1	6,508.2	27.5	24.5	151.47	448.9	259.7	1,094.0	1,045.3	48.72	22.453		
6,700.0	6,606.0	6,640.0	6,606.0	27.9	24.8	151.98	448.9	259.7	1,112.4	1,063.0	49.44	22.501		
6,800.0	6,703.8	6,737.8	6,703.8	28.4	25.1	152.47	448.9	259.7	1,130.9	1,080.7	50.15	22.549		
6,900.0	6,801.7	6,835.6	6,801.7	28.9	25.5	152.95	448.9	259.7	1,149.5	1,098.6	50.87	22.597		
7,000.0	6,899.5	6,933.4	6,899.5	29.4	25.8	153.41	448.9	259.7	1,168.1	1,116.5	51.58	22.646		
7,100.0	6,997.3	7,031.2	6,997.3	29.9	26.1	153.86	448.9	259.7	1,186.8	1,134.5	52.30	22.694		
7,200.0	7,095.1	7,129.0	7,095.1	30.4	26.5	154.29	448.9	259.7	1,205.6	1,152.6	53.01	22.743		
7,300.0	7,192.9	7,226.8	7,192.9	30.8	26.8	154.71	448.9	259.7	1,224.4	1,170.7	53.72	22.791		
7,376.3	7,267.6	7,301.5	7,267.6	31.2	27.0	155.02	448.9	259.7	1,238.8	1,184.6	54.27	22.828		
7,400.0	7,290.8	7,324.7	7,290.8	31.3	27.1	155.15	448.9	259.7	1,243.2	1,188.8	54.44	22.838		
7,500.0	7,389.1	7,423.0	7,389.1	31.8	27.5	155.64	448.9	259.7	1,259.9	1,204.7	55.15	22.845		
7,600.0	7,488.0	7,521.9	7,488.0	32.2	27.8	156.03	448.9	259.7	1,273.4	1,217.6	55.85	22.799		
7,700.0	7,587.3	7,621.2	7,587.3	32.6	28.1	156.32	448.9	259.7	1,283.9	1,227.3	56.56	22.701		
7,800.0	7,687.0	7,720.9	7,687.0	33.0	28.5	156.52	448.9	259.7	1,291.1	1,233.8	57.25	22.551		
7,900.0	7,786.9	7,820.8	7,786.9	33.3	28.8	156.63	448.9	259.7	1,295.1	1,237.2	57.94	22.354		
7,976.3	7,863.2	7,897.1	7,863.2	33.5	29.1	88.75	448.9	259.7	1,296.1	1,237.6	58.46	22.171		
8,000.0	7,886.9	7,920.8	7,886.9	33.6	29.2	88.75	448.9	259.7	1,296.1	1,237.5	58.62	22.111		
8,100.0	7,986.9	8,020.8	7,986.9	33.9	29.5	88.75	448.9	259.7	1,296.1	1,236.8	59.29	21.859		
8,200.0	8,086.9	8,120.8	8,086.9	34.2	29.9	88.75	448.9	259.7	1,296.1	1,236.1	59.97	21.613		
8,300.0	8,186.9	8,220.8	8,186.9	34.5	30.2	88.75	448.9	259.7	1,296.1	1,235.4	60.64	21.372		
8,400.0	8,286.9	8,320.8	8,286.9	34.8	30.5	88.75	448.9	259.7	1,296.1	1,234.7	61.32	21.136		
8,500.0	8,386.9	8,420.8	8,386.9	35.1	30.9	88.75	448.9	259.7	1,296.1	1,234.1	62.00	20.905		
8,600.0	8,486.9	8,520.8	8,486.9	35.4	31.2	88.75	448.9	259.7	1,296.1	1,233.4	62.68	20.678		
8,700.0	8,586.9	8,620.8	8,586.9	35.7	31.6	88.75	448.9	259.7	1,296.1	1,232.7	63.36	20.456		
8,800.0	8,686.9	8,720.8	8,686.9	36.0	31.9	88.75	448.9	259.7	1,296.1	1,232.0	64.04	20.239		
8,900.0	8,786.9	8,820.8	8,786.9	36.3	32.3	88.75	448.9	259.7	1,296.1	1,231.3	64.72	20.026		
9,000.0	8,886.9	8,920.8	8,886.9	36.6	32.6	88.75	448.9	259.7	1,296.1	1,230.7	65.40	19.817		
9,100.0	8,986.9	9,020.8	8,986.9	36.9	33.0	88.75	448.9	259.7	1,296.1	1,230.0	66.09	19.612		
9,200.0	9,086.9	9,120.8	9,086.9	37.2	33.3	88.75	448.9	259.7	1,296.1	1,229.3	66.77	19.411		
9,235.6	9,122.5	9,156.4	9,122.5	37.4	33.4	88.75	448.9	259.7	1,296.1	1,229.1	67.01	19.340		
9,250.0	9,136.9	9,171.4	9,137.5	37.4	33.5	-90.90	448.7	259.7	1,296.1	1,229.0	67.11	19.313		
9,275.0	9,161.8	9,197.6	9,163.6	37.5	33.6	-90.89	447.2	259.7	1,296.1	1,228.8	67.26	19.268		
9,300.0	9,186.7	9,223.7	9,189.5	37.5	33.6	-90.89	444.2	259.7	1,296.1	1,228.7	67.41	19.226		
9,325.0	9,211.4	9,249.8	9,215.2	37.6	33.7	-90.88	439.8	259.7	1,296.1	1,228.5	67.55	19.187		
9,350.0	9,235.8	9,275.8	9,240.7	37.6	33.8	-90.87	434.1	259.8	1,296.1	1,228.4	67.68	19.151		
9,375.0	9,259.9	9,301.9	9,265.7	37.7	33.8	-90.86	427.0	259.8	1,296.1	1,228.3	67.80	19.117		
9,400.0	9,283.6	9,327.9	9,290.4	37.8	33.9	-90.84	418.5	259.9	1,296.0	1,228.1	67.91	19.086		
9,425.0	9,306.9	9,354.0	9,314.5	37.8	33.9	-90.83	408.7	259.9	1,296.0	1,228.0	68.01	19.057		

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

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Page 9

COMPASS 5000.17 Build 03

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 304H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)			
9,450.0	9,329.7	9,380.0	9,338.0	37.8	34.0	-90.80	397.6	260.0	1,296.0	1,227.9	68.10	19.030	
9,475.0	9,352.0	9,405.9	9,360.8	37.9	34.0	-90.78	385.2	260.1	1,296.0	1,227.8	68.19	19.006	
9,500.0	9,373.6	9,431.9	9,382.9	37.9	34.1	-90.76	371.7	260.1	1,296.0	1,227.7	68.27	18.983	
9,525.0	9,394.5	9,457.8	9,404.3	37.9	34.1	-90.73	356.9	260.2	1,296.0	1,227.7	68.34	18.963	
9,550.0	9,414.6	9,483.7	9,424.7	38.0	34.1	-90.70	341.1	260.3	1,296.0	1,227.6	68.41	18.944	
9,575.0	9,434.0	9,509.5	9,444.3	38.0	34.2	-90.67	324.2	260.4	1,296.0	1,227.5	68.47	18.927	
9,600.0	9,452.5	9,535.3	9,462.8	38.0	34.2	-90.64	306.4	260.5	1,296.0	1,227.5	68.53	18.911	
9,625.0	9,470.1	9,561.0	9,480.4	38.0	34.2	-90.60	287.5	260.7	1,296.0	1,227.4	68.58	18.896	
9,650.0	9,486.8	9,586.7	9,496.9	38.0	34.2	-90.57	267.8	260.8	1,296.0	1,227.3	68.63	18.882	
9,675.0	9,502.4	9,612.4	9,512.3	38.0	34.2	-90.53	247.3	260.9	1,296.0	1,227.3	68.68	18.869	
9,700.0	9,517.0	9,638.0	9,526.5	38.0	34.2	-90.49	226.0	261.0	1,296.0	1,227.2	68.73	18.857	
9,725.0	9,530.6	9,663.6	9,539.5	38.0	34.3	-90.45	204.0	261.2	1,295.9	1,227.2	68.77	18.845	
9,750.0	9,543.0	9,689.1	9,551.3	38.0	34.3	-90.41	181.4	261.3	1,295.9	1,227.1	68.81	18.833	
9,775.0	9,554.3	9,714.5	9,561.9	38.0	34.3	-90.37	158.3	261.4	1,295.9	1,227.1	68.86	18.821	
9,800.0	9,564.3	9,739.9	9,571.2	38.0	34.3	-90.32	134.6	261.6	1,295.9	1,227.0	68.90	18.809	
9,825.0	9,573.2	9,765.3	9,579.2	38.0	34.3	-90.28	110.6	261.7	1,295.9	1,227.0	68.94	18.798	
9,850.0	9,580.8	9,790.5	9,586.0	38.0	34.3	-90.23	86.2	261.9	1,295.9	1,226.9	68.98	18.786	
9,875.0	9,587.2	9,815.8	9,591.4	38.0	34.3	-90.19	61.6	262.0	1,295.9	1,226.9	69.03	18.774	
9,900.0	9,592.3	9,840.9	9,595.5	37.9	34.3	-90.14	36.8	262.2	1,295.9	1,226.8	69.07	18.761	
9,925.0	9,596.1	9,866.1	9,598.3	37.9	34.3	-90.09	11.8	262.3	1,295.9	1,226.8	69.12	18.748	
9,950.0	9,598.6	9,891.1	9,599.7	37.9	34.3	-90.05	-13.2	262.5	1,295.9	1,226.7	69.17	18.735	
9,975.0	9,599.8	9,916.1	9,600.0	37.9	34.4	-90.01	-38.2	262.6	1,295.9	1,226.7	69.22	18.721	
9,985.6	9,600.0	9,926.8	9,600.0	37.9	34.4	-90.00	-48.8	262.7	1,295.9	1,226.7	69.25	18.714	
10,000.0	9,600.0	9,941.1	9,600.0	37.9	34.4	-90.00	-63.2	262.8	1,295.9	1,226.6	69.28	18.704	
10,100.0	9,600.0	10,041.1	9,600.0	37.9	34.6	-90.00	-163.2	263.4	1,295.9	1,226.3	69.62	18.615	
10,200.0	9,600.0	10,141.1	9,600.0	38.0	34.8	-90.00	-263.2	264.0	1,295.9	1,225.8	70.10	18.486	
10,300.0	9,600.0	10,241.1	9,600.0	38.1	35.2	-90.00	-363.2	264.6	1,295.9	1,225.2	70.74	18.320	
10,400.0	9,600.0	10,341.1	9,600.0	38.3	35.6	-90.00	-463.2	265.2	1,295.9	1,224.4	71.52	18.119	
10,500.0	9,600.0	10,441.1	9,600.0	38.7	36.0	-90.00	-563.2	265.8	1,295.9	1,223.5	72.45	17.888	
10,600.0	9,600.0	10,541.1	9,600.0	39.1	36.6	-90.00	-663.2	266.4	1,295.9	1,222.4	73.51	17.629	
10,700.0	9,600.0	10,641.1	9,600.0	39.6	37.2	-90.00	-763.2	267.0	1,295.9	1,221.2	74.70	17.348	
10,800.0	9,600.0	10,741.1	9,600.0	40.1	37.9	-90.00	-863.2	267.6	1,295.9	1,219.9	76.02	17.047	
10,900.0	9,600.0	10,841.1	9,600.0	40.8	38.6	-90.00	-963.2	268.3	1,295.9	1,218.4	77.45	16.731	
11,000.0	9,600.0	10,941.1	9,600.0	41.5	39.4	-90.00	-1,063.2	268.9	1,295.9	1,216.9	79.00	16.403	
11,100.0	9,600.0	11,041.1	9,600.0	42.3	40.2	-90.00	-1,163.2	269.5	1,295.9	1,215.2	80.66	16.067	
11,200.0	9,600.0	11,141.1	9,600.0	43.1	41.1	-90.00	-1,263.2	270.1	1,295.9	1,213.5	82.41	15.725	
11,300.0	9,600.0	11,241.1	9,600.0	44.0	42.0	-90.00	-1,363.2	270.7	1,295.9	1,211.6	84.26	15.380	
11,400.0	9,600.0	11,341.1	9,600.0	44.9	43.0	-90.00	-1,463.2	271.3	1,295.9	1,209.7	86.19	15.035	
11,500.0	9,600.0	11,441.1	9,600.0	45.9	44.0	-90.00	-1,563.2	271.9	1,295.9	1,207.7	88.20	14.692	
11,600.0	9,600.0	11,541.1	9,600.0	46.9	45.0	-90.00	-1,663.2	272.5	1,295.9	1,205.6	90.29	14.352	
11,700.0	9,600.0	11,641.1	9,600.0	47.9	46.1	-90.00	-1,763.2	273.1	1,295.9	1,203.4	92.46	14.016	
11,800.0	9,600.0	11,741.1	9,600.0	49.0	47.2	-90.00	-1,863.2	273.7	1,295.9	1,201.2	94.68	13.687	
11,900.0	9,600.0	11,841.1	9,600.0	50.1	48.4	-90.00	-1,963.2	274.3	1,295.9	1,198.9	96.97	13.364	
12,000.0	9,600.0	11,941.1	9,600.0	51.2	49.6	-90.00	-2,063.2	274.9	1,295.9	1,196.6	99.32	13.048	
12,100.0	9,600.0	12,041.1	9,600.0	52.4	50.8	-90.00	-2,163.2	275.5	1,295.9	1,194.2	101.71	12.740	
12,200.0	9,600.0	12,141.1	9,600.0	53.6	52.0	-90.00	-2,263.2	276.1	1,295.9	1,191.7	104.16	12.441	
12,300.0	9,600.0	12,241.1	9,600.0	54.8	53.2	-90.00	-2,363.2	276.8	1,295.9	1,189.2	106.66	12.150	
12,400.0	9,600.0	12,341.1	9,600.0	56.1	54.5	-90.00	-2,463.2	277.4	1,295.9	1,186.7	109.19	11.868	
12,500.0	9,600.0	12,441.1	9,600.0	57.3	55.8	-90.00	-2,563.2	278.0	1,295.9	1,184.1	111.77	11.594	
12,600.0	9,600.0	12,541.1	9,600.0	58.6	57.1	-90.00	-2,663.2	278.6	1,295.9	1,181.5	114.39	11.329	
12,700.0	9,600.0	12,641.1	9,600.0	59.9	58.4	-90.00	-2,763.2	279.2	1,295.9	1,178.8	117.03	11.073	
12,800.0	9,600.0	12,741.1	9,600.0	61.2	59.8	-90.00	-2,863.2	279.8	1,295.9	1,176.2	119.72	10.824	

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 304H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)													
12,900.0	9,600.0	12,841.1	9,600.0	62.5	61.1	-90.00	-2,963.2	280.4	1,295.9	1,173.4	122.43	10.585		
13,000.0	9,600.0	12,941.1	9,600.0	63.9	62.5	-90.00	-3,063.2	281.0	1,295.9	1,170.7	125.17	10.353		
13,100.0	9,600.0	13,041.1	9,600.0	65.2	63.9	-90.00	-3,163.2	281.6	1,295.9	1,167.9	127.94	10.129		
13,200.0	9,600.0	13,141.1	9,600.0	66.6	65.3	-90.00	-3,263.2	282.2	1,295.9	1,165.1	130.73	9.913		
13,300.0	9,600.0	13,241.1	9,600.0	68.0	66.7	-90.00	-3,363.2	282.8	1,295.9	1,162.3	133.54	9.704		
13,400.0	9,600.0	13,341.1	9,600.0	69.4	68.1	-90.00	-3,463.1	283.4	1,295.9	1,159.5	136.38	9.502		
13,500.0	9,600.0	13,441.1	9,600.0	70.8	69.6	-90.00	-3,563.1	284.0	1,295.9	1,156.6	139.24	9.307		
13,600.0	9,600.0	13,541.1	9,600.0	72.2	71.0	-90.00	-3,663.1	284.6	1,295.9	1,153.7	142.11	9.118		
13,700.0	9,600.0	13,641.1	9,600.0	73.6	72.5	-90.00	-3,763.1	285.3	1,295.9	1,150.9	145.01	8.936		
13,800.0	9,600.0	13,741.1	9,600.0	75.1	73.9	-90.00	-3,863.1	285.9	1,295.9	1,147.9	147.92	8.760		
13,900.0	9,600.0	13,841.1	9,600.0	76.5	75.4	-90.00	-3,963.1	286.5	1,295.9	1,145.0	150.85	8.590		
14,000.0	9,600.0	13,941.1	9,600.0	78.0	76.9	-90.00	-4,063.1	287.1	1,295.9	1,142.1	153.79	8.426		
14,100.0	9,600.0	14,041.1	9,600.0	79.4	78.3	-90.00	-4,163.1	287.7	1,295.9	1,139.1	156.75	8.267		
14,200.0	9,600.0	14,141.1	9,600.0	80.9	79.8	-90.00	-4,263.1	288.3	1,295.9	1,136.1	159.72	8.113		
14,300.0	9,600.0	14,241.1	9,600.0	82.4	81.3	-90.00	-4,363.1	288.9	1,295.9	1,133.1	162.71	7.964		
14,400.0	9,600.0	14,341.1	9,600.0	83.8	82.8	-90.00	-4,463.1	289.5	1,295.9	1,130.2	165.70	7.820		
14,500.0	9,600.0	14,441.1	9,600.0	85.3	84.3	-90.00	-4,563.1	290.1	1,295.9	1,127.1	168.71	7.681		
14,600.0	9,600.0	14,541.1	9,600.0	86.8	85.8	-90.00	-4,663.1	290.7	1,295.9	1,124.1	171.73	7.546		
14,700.0	9,600.0	14,641.1	9,600.0	88.3	87.3	-90.00	-4,763.1	291.3	1,295.8	1,121.1	174.76	7.415		
14,800.0	9,600.0	14,741.1	9,600.0	89.8	88.9	-90.00	-4,863.1	291.9	1,295.8	1,118.1	177.79	7.288		
14,900.0	9,600.0	14,841.1	9,600.0	91.3	90.4	-90.00	-4,963.1	292.5	1,295.8	1,115.0	180.84	7.166		
15,000.0	9,600.0	14,941.1	9,600.0	92.8	91.9	-90.00	-5,063.1	293.1	1,295.8	1,111.9	183.90	7.047		
15,100.0	9,600.0	15,041.1	9,600.0	94.4	93.5	-90.00	-5,163.1	293.8	1,295.8	1,108.9	186.96	6.931		
15,200.0	9,600.0	15,141.1	9,600.0	95.9	95.0	-90.00	-5,263.1	294.4	1,295.8	1,105.8	190.04	6.819		
15,300.0	9,600.0	15,241.1	9,600.0	97.4	96.5	-90.00	-5,363.1	295.0	1,295.8	1,102.7	193.12	6.710		
15,400.0	9,600.0	15,341.1	9,600.0	98.9	98.1	-90.00	-5,463.1	295.6	1,295.8	1,099.6	196.20	6.605		
15,500.0	9,600.0	15,441.1	9,600.0	100.5	99.6	-90.00	-5,563.1	296.2	1,295.8	1,096.5	199.30	6.502		
15,600.0	9,600.0	15,541.1	9,600.0	102.0	101.2	-90.00	-5,663.1	296.8	1,295.8	1,093.4	202.40	6.402		
15,700.0	9,600.0	15,641.1	9,600.0	103.6	102.7	-90.00	-5,763.1	297.4	1,295.8	1,090.3	205.51	6.306		
15,800.0	9,600.0	15,741.1	9,600.0	105.1	104.3	-90.00	-5,863.1	298.0	1,295.8	1,087.2	208.62	6.211		
15,900.0	9,600.0	15,841.1	9,600.0	106.7	105.8	-90.00	-5,963.1	298.6	1,295.8	1,084.1	211.74	6.120		
16,000.0	9,600.0	15,941.1	9,600.0	108.2	107.4	-90.00	-6,063.1	299.2	1,295.8	1,081.0	214.86	6.031		
16,100.0	9,600.0	16,041.1	9,600.0	109.8	109.0	-90.00	-6,163.1	299.8	1,295.8	1,077.8	217.99	5.944		
16,200.0	9,600.0	16,141.1	9,600.0	111.3	110.5	-90.00	-6,263.1	300.4	1,295.8	1,074.7	221.13	5.860		
16,300.0	9,600.0	16,241.1	9,600.0	112.9	112.1	-90.00	-6,363.1	301.0	1,295.8	1,071.6	224.27	5.778		
16,400.0	9,600.0	16,341.1	9,600.0	114.4	113.7	-90.00	-6,463.1	301.6	1,295.8	1,068.4	227.41	5.698		
16,500.0	9,600.0	16,441.1	9,600.0	116.0	115.3	-90.00	-6,563.1	302.2	1,295.8	1,065.3	230.56	5.620		
16,600.0	9,600.0	16,541.1	9,600.0	117.6	116.8	-90.00	-6,663.1	302.9	1,295.8	1,062.1	233.71	5.545		
16,700.0	9,600.0	16,641.1	9,600.0	119.1	118.4	-90.00	-6,763.1	303.5	1,295.8	1,059.0	236.87	5.471		
16,800.0	9,600.0	16,741.1	9,600.0	120.7	120.0	-90.00	-6,863.1	304.1	1,295.8	1,055.8	240.03	5.399		
16,900.0	9,600.0	16,841.1	9,600.0	122.3	121.6	-90.00	-6,963.1	304.7	1,295.8	1,052.6	243.19	5.328		
17,000.0	9,600.0	16,941.1	9,600.0	123.9	123.2	-90.00	-7,063.1	305.3	1,295.8	1,049.5	246.36	5.260		
17,100.0	9,600.0	17,041.1	9,600.0	125.4	124.8	-90.00	-7,163.1	305.9	1,295.8	1,046.3	249.53	5.193		
17,200.0	9,600.0	17,141.1	9,600.0	127.0	126.3	-90.00	-7,263.1	306.5	1,295.8	1,043.1	252.71	5.128		
17,300.0	9,600.0	17,241.1	9,600.0	128.6	127.9	-90.00	-7,363.1	307.1	1,295.8	1,039.9	255.89	5.064		
17,400.0	9,600.0	17,341.1	9,600.0	130.2	129.5	-90.00	-7,463.1	307.7	1,295.8	1,036.7	259.07	5.002		
17,500.0	9,600.0	17,441.1	9,600.0	131.8	131.1	-90.00	-7,563.1	308.3	1,295.8	1,033.6	262.25	4.941		
17,600.0	9,600.0	17,541.1	9,600.0	133.3	132.7	-90.00	-7,663.1	308.9	1,295.8	1,030.4	265.44	4.882		
17,700.0	9,600.0	17,641.1	9,600.0	134.9	134.3	-90.00	-7,763.1	309.5	1,295.8	1,027.2	268.63	4.824		
17,800.0	9,600.0	17,741.1	9,600.0	136.5	135.9	-90.00	-7,863.1	310.1	1,295.8	1,024.0	271.82	4.767		
17,900.0	9,600.0	17,841.1	9,600.0	138.1	137.5	-90.00	-7,963.1	310.7	1,295.8	1,020.8	275.02	4.712		
18,000.0	9,600.0	17,941.1	9,600.0	139.7	139.1	-90.00	-8,063.1	311.4	1,295.8	1,017.6	278.22	4.658		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 304H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,100.0	9,600.0	18,041.1	9,600.0	141.3	140.7	-90.00	-8,163.1	312.0	1,295.8	1,014.4	281.42	4.605		
18,200.0	9,600.0	18,141.1	9,600.0	142.9	142.3	-90.00	-8,263.1	312.6	1,295.8	1,011.2	284.62	4.553		
18,300.0	9,600.0	18,241.1	9,600.0	144.5	143.9	-90.00	-8,363.1	313.2	1,295.8	1,008.0	287.82	4.502		
18,400.0	9,600.0	18,341.1	9,600.0	146.1	145.5	-90.00	-8,463.1	313.8	1,295.8	1,004.8	291.03	4.452		
18,500.0	9,600.0	18,441.1	9,600.0	147.7	147.1	-90.00	-8,563.1	314.4	1,295.8	1,001.6	294.24	4.404		
18,600.0	9,600.0	18,541.1	9,600.0	149.3	148.7	-90.00	-8,663.1	315.0	1,295.8	998.4	297.45	4.356		
18,700.0	9,600.0	18,641.1	9,600.0	150.9	150.3	-90.00	-8,763.1	315.6	1,295.8	995.1	300.67	4.310		
18,800.0	9,600.0	18,741.1	9,600.0	152.5	151.9	-90.00	-8,863.0	316.2	1,295.8	991.9	303.88	4.264		
18,900.0	9,600.0	18,841.1	9,600.0	154.1	153.5	-90.00	-8,963.0	316.8	1,295.8	988.7	307.10	4.220		
19,000.0	9,600.0	18,941.1	9,600.0	155.7	155.2	-90.00	-9,063.0	317.4	1,295.8	985.5	310.32	4.176		
19,100.0	9,600.0	19,041.1	9,600.0	157.3	156.8	-90.00	-9,163.0	318.0	1,295.8	982.3	313.54	4.133		
19,200.0	9,600.0	19,141.1	9,600.0	158.9	158.4	-90.00	-9,263.0	318.6	1,295.8	979.0	316.76	4.091		
19,300.0	9,600.0	19,241.1	9,600.0	160.5	160.0	-90.00	-9,363.0	319.2	1,295.8	975.8	319.98	4.050		
19,400.0	9,600.0	19,341.1	9,600.0	162.1	161.6	-90.00	-9,463.0	319.9	1,295.8	972.6	323.21	4.009		
19,500.0	9,600.0	19,441.1	9,600.0	163.7	163.2	-90.00	-9,563.0	320.5	1,295.8	969.4	326.43	3.970		
19,600.0	9,600.0	19,541.1	9,600.0	165.3	164.8	-90.00	-9,663.0	321.1	1,295.8	966.1	329.66	3.931		
19,700.0	9,600.0	19,641.1	9,600.0	166.9	166.4	-90.00	-9,763.0	321.7	1,295.8	962.9	332.89	3.893		
19,800.0	9,600.0	19,741.1	9,600.0	168.6	168.1	-90.00	-9,863.0	322.3	1,295.8	959.7	336.12	3.855		
19,868.6	9,600.0	19,809.7	9,600.0	169.7	169.2	-90.00	-9,931.6	322.7	1,295.8	957.5	338.34	3.830		
19,871.5	9,600.0	19,809.7	9,600.0	169.7	169.2	-90.00	-9,931.6	322.7	1,295.8	957.4	338.37	3.830		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 602H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program: Reference		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-12.40	131.0	-28.8	134.1						
100.0	100.0	100.0	100.0	0.3	0.3	-12.40	131.0	-28.8	134.1	133.6	0.53	252.779			
200.0	200.0	200.0	200.0	0.6	0.6	-12.40	131.0	-28.8	134.1	132.9	1.25	107.504			
300.0	300.0	300.0	300.0	1.0	1.0	-12.40	131.0	-28.8	134.1	132.1	1.96	68.269			
400.0	400.0	400.0	400.0	1.3	1.3	-12.40	131.0	-28.8	134.1	131.4	2.68	50.015			
500.0	500.0	500.0	500.0	1.7	1.7	-12.40	131.0	-28.8	134.1	130.7	3.40	39.463			
600.0	600.0	600.0	600.0	2.1	2.1	-12.40	131.0	-28.8	134.1	130.0	4.12	32.588			
700.0	700.0	700.0	700.0	2.4	2.4	-12.40	131.0	-28.8	134.1	129.3	4.83	27.753			
800.0	800.0	800.0	800.0	2.8	2.8	-12.40	131.0	-28.8	134.1	128.6	5.55	24.168			
900.0	900.0	900.0	900.0	3.1	3.1	-12.40	131.0	-28.8	134.1	127.8	6.27	21.402			
1,000.0	1,000.0	1,000.0	1,000.0	3.5	3.5	-12.40	131.0	-28.8	134.1	127.1	6.98	19.205			
1,100.0	1,100.0	1,100.0	1,100.0	3.8	3.8	-12.40	131.0	-28.8	134.1	126.4	7.70	17.417			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-12.40	131.0	-28.8	134.1	125.7	8.42	15.933			
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-12.40	131.0	-28.8	134.1	125.0	9.13	14.683			
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	-12.40	131.0	-28.8	134.1	124.3	9.85	13.614			
1,500.0	1,500.0	1,500.0	1,500.0	5.3	5.3	-12.40	131.0	-28.8	134.1	123.5	10.57	12.690			
1,600.0	1,600.0	1,600.0	1,600.0	5.6	5.6	-12.40	131.0	-28.8	134.1	122.8	11.28	11.884			
1,700.0	1,700.0	1,700.0	1,700.0	6.0	6.0	-12.40	131.0	-28.8	134.1	122.1	12.00	11.174			
1,800.0	1,800.0	1,800.0	1,800.0	6.4	6.4	-12.40	131.0	-28.8	134.1	121.4	12.72	10.544			
1,900.0	1,900.0	1,900.0	1,900.0	6.7	6.7	-12.40	131.0	-28.8	134.1	120.7	13.44	9.982			
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	-12.40	131.0	-28.8	134.1	120.0	14.15	9.476			
2,100.0	2,100.0	2,097.6	2,097.6	7.4	7.4	55.10	131.3	-31.3	134.0	119.2	14.85	9.026			
2,200.0	2,199.8	2,195.1	2,194.8	7.8	7.8	53.90	132.3	-38.7	133.7	118.2	15.53	8.613			
2,300.0	2,299.5	2,292.3	2,291.2	8.1	8.1	51.90	134.0	-50.9	133.4	117.2	16.21	8.234			
2,396.9	2,395.7	2,386.3	2,383.6	8.5	8.4	49.21	136.3	-67.4	133.3	116.4	16.86	7.906 CC			
2,400.0	2,398.7	2,389.2	2,386.5	8.5	8.5	49.11	136.3	-68.0	133.3	116.4	16.88	7.896			
2,500.0	2,497.5	2,485.6	2,480.4	8.9	8.8	45.56	139.3	-89.6	133.6	116.0	17.54	7.615 ES			
2,600.0	2,595.6	2,581.5	2,572.5	9.2	9.2	41.30	142.9	-115.8	134.6	116.4	18.18	7.406			
2,700.0	2,693.4	2,680.0	2,666.2	9.6	9.6	36.38	147.0	-145.9	137.2	118.4	18.85	7.277			
2,800.0	2,791.3	2,779.2	2,760.6	10.0	10.1	31.61	151.2	-176.3	140.9	121.3	19.55	7.205			
2,900.0	2,889.1	2,878.5	2,855.0	10.4	10.5	27.11	155.4	-206.7	145.4	125.2	20.24	7.185 SF			
3,000.0	2,986.9	2,977.7	2,949.4	10.8	11.0	22.90	159.5	-237.1	150.9	129.9	20.93	7.208			
3,100.0	3,084.7	3,077.0	3,043.8	11.3	11.5	19.00	163.7	-267.4	157.1	135.5	21.62	7.266			
3,200.0	3,182.5	3,176.2	3,138.2	11.7	12.0	15.41	167.9	-297.8	163.9	141.6	22.31	7.350			
3,300.0	3,280.3	3,275.5	3,232.6	12.1	12.6	12.12	172.0	-328.2	171.4	148.4	23.00	7.454			
3,400.0	3,378.1	3,374.8	3,327.0	12.5	13.1	9.11	176.2	-358.6	179.4	155.7	23.69	7.572			
3,500.0	3,476.0	3,474.0	3,421.4	13.0	13.6	6.36	180.4	-389.0	187.8	163.4	24.39	7.701			
3,600.0	3,573.8	3,573.3	3,515.8	13.4	14.2	3.85	184.5	-419.4	196.7	171.6	25.09	7.837			
3,700.0	3,671.6	3,672.5	3,610.2	13.9	14.7	1.56	188.7	-449.8	205.8	180.0	25.81	7.976			
3,800.0	3,769.4	3,771.8	3,704.6	14.3	15.3	-0.53	192.8	-480.1	215.3	188.8	26.53	8.117			
3,900.0	3,867.2	3,871.0	3,799.0	14.8	15.8	-2.45	197.0	-510.5	225.1	197.8	27.25	8.258			
4,000.0	3,965.0	3,970.3	3,893.4	15.2	16.4	-4.20	201.2	-540.9	235.0	207.0	27.99	8.398			
4,100.0	4,062.8	4,069.5	3,987.8	15.7	17.0	-5.81	205.3	-571.3	245.2	216.5	28.73	8.535			
4,200.0	4,160.7	4,168.8	4,082.2	16.1	17.6	-7.30	209.5	-601.7	255.6	226.1	29.48	8.669			
4,300.0	4,258.5	4,268.0	4,176.6	16.6	18.1	-8.66	213.7	-632.1	266.1	235.8	30.23	8.800			
4,400.0	4,356.3	4,367.3	4,271.0	17.1	18.7	-9.93	217.8	-662.5	276.7	245.7	31.00	8.927			
4,500.0	4,454.1	4,466.5	4,365.4	17.5	19.3	-11.10	222.0	-692.9	287.5	255.7	31.77	9.049			
4,600.0	4,551.9	4,565.8	4,459.8	18.0	19.9	-12.18	226.2	-723.2	298.3	265.8	32.54	9.168			
4,700.0	4,649.7	4,665.0	4,554.2	18.4	20.5	-13.19	230.3	-753.6	309.3	276.0	33.32	9.283			
4,800.0	4,747.5	4,764.3	4,648.5	18.9	21.1	-14.13	234.5	-784.0	320.4	286.3	34.11	9.393			
4,900.0	4,845.4	4,863.5	4,742.9	19.4	21.7	-15.00	238.7	-814.4	331.5	296.6	34.90	9.500			
5,000.0	4,943.2	4,962.8	4,837.3	19.9	22.3	-15.82	242.8	-844.8	342.7	307.1	35.69	9.603			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: Reference		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.0	5,041.0	5,062.1	4,931.7	20.3	22.9	-16.59	247.0	-875.2	354.0	317.5	36.49	9.701			
5,200.0	5,138.8	5,161.3	5,026.1	20.8	23.5	-17.31	251.2	-905.6	365.4	328.1	37.30	9.796			
5,300.0	5,236.6	5,260.6	5,120.5	21.3	24.1	-17.99	255.3	-936.0	376.8	338.7	38.10	9.888			
5,400.0	5,334.4	5,359.8	5,214.9	21.7	24.7	-18.63	259.5	-966.3	388.2	349.3	38.92	9.976			
5,500.0	5,432.3	5,459.1	5,309.3	22.2	25.3	-19.23	263.7	-996.7	399.7	360.0	39.73	10.060			
5,600.0	5,530.1	5,558.3	5,403.7	22.7	25.9	-19.79	267.8	-1,027.1	411.2	370.7	40.55	10.142			
5,700.0	5,627.9	5,657.6	5,498.1	23.2	26.5	-20.33	272.0	-1,057.5	422.8	381.4	41.37	10.220			
5,800.0	5,725.7	5,756.8	5,592.5	23.6	27.1	-20.84	276.2	-1,087.9	434.4	392.2	42.19	10.296			
5,900.0	5,823.5	5,856.1	5,686.9	24.1	27.7	-21.32	280.3	-1,118.3	446.0	403.0	43.02	10.369			
6,000.0	5,921.3	5,955.3	5,781.3	24.6	28.3	-21.77	284.5	-1,148.7	457.7	413.8	43.84	10.439			
6,100.0	6,019.1	6,054.6	5,875.7	25.1	28.9	-22.21	288.6	-1,179.0	469.4	424.7	44.67	10.506			
6,200.0	6,117.0	6,153.8	5,970.1	25.5	29.5	-22.62	292.8	-1,209.4	481.1	435.6	45.51	10.572			
6,300.0	6,214.8	6,253.1	6,064.5	26.0	30.1	-23.01	297.0	-1,239.8	492.8	446.5	46.34	10.634			
6,400.0	6,312.6	6,352.3	6,158.9	26.5	30.7	-23.39	301.1	-1,270.2	504.6	457.4	47.18	10.695			
6,500.0	6,410.4	6,451.6	6,253.3	27.0	31.4	-23.75	305.3	-1,300.6	516.4	468.3	48.02	10.754			
6,600.0	6,508.2	6,550.9	6,347.7	27.5	32.0	-24.09	309.5	-1,331.0	528.2	479.3	48.86	10.810			
6,700.0	6,606.0	6,650.1	6,442.1	27.9	32.6	-24.41	313.6	-1,361.4	540.0	490.3	49.70	10.865			
6,800.0	6,703.8	6,749.4	6,536.5	28.4	33.2	-24.73	317.8	-1,391.8	551.8	501.3	50.54	10.918			
6,900.0	6,801.7	6,848.6	6,630.8	28.9	33.8	-25.03	322.0	-1,422.1	563.7	512.3	51.39	10.969			
7,000.0	6,899.5	6,947.9	6,725.2	29.4	34.4	-25.31	326.1	-1,452.5	575.5	523.3	52.23	11.018			
7,100.0	6,997.3	7,047.1	6,819.6	29.9	35.0	-25.59	330.3	-1,482.9	587.4	534.3	53.08	11.066			
7,200.0	7,095.1	7,146.4	6,914.0	30.4	35.7	-25.86	334.5	-1,513.3	599.3	545.4	53.93	11.112			
7,300.0	7,192.9	7,245.6	7,008.4	30.8	36.3	-26.11	338.6	-1,543.7	611.2	556.4	54.78	11.157			
7,376.3	7,267.6	7,321.4	7,080.5	31.2	36.7	-26.30	341.8	-1,566.9	620.3	564.9	55.43	11.190			
7,400.0	7,290.8	7,344.9	7,102.8	31.3	36.9	-26.38	342.8	-1,574.1	623.2	567.6	55.63	11.202			
7,500.0	7,389.1	7,443.8	7,196.9	31.8	37.5	-26.64	347.0	-1,604.4	637.4	580.9	56.46	11.290			
7,600.0	7,488.0	7,542.3	7,290.6	32.2	38.1	-26.78	351.1	-1,634.5	654.7	597.4	57.25	11.435			
7,700.0	7,587.3	7,640.2	7,383.7	32.6	38.7	-26.82	355.2	-1,664.5	675.0	617.0	58.02	11.635			
7,800.0	7,687.0	7,737.4	7,476.1	33.0	39.3	-26.76	359.3	-1,694.2	698.4	639.7	58.74	11.889			
7,900.0	7,786.9	7,833.7	7,567.7	33.3	39.9	-26.63	363.3	-1,723.7	724.9	665.4	59.44	12.195			
7,976.3	7,863.2	7,906.6	7,637.0	33.5	40.4	-94.38	366.4	-1,746.0	747.1	687.1	59.95	12.462			
8,000.0	7,886.9	7,929.1	7,658.5	33.6	40.5	-94.26	367.3	-1,752.9	754.3	694.2	60.11	12.549			
8,100.0	7,986.9	8,024.2	7,748.9	33.9	41.1	-93.79	371.3	-1,782.1	784.6	723.8	60.77	12.911			
8,200.0	8,086.9	8,119.3	7,839.4	34.2	41.7	-93.36	375.3	-1,811.2	814.9	753.5	61.43	13.265			
8,300.0	8,186.9	8,214.4	7,929.8	34.5	42.3	-92.95	379.3	-1,840.3	845.3	783.2	62.10	13.611			
8,400.0	8,286.9	8,309.5	8,020.3	34.8	42.9	-92.57	383.3	-1,869.4	875.7	813.0	62.78	13.949			
8,500.0	8,386.9	8,404.6	8,110.7	35.1	43.5	-92.22	387.3	-1,898.5	906.2	842.7	63.46	14.280			
8,600.0	8,486.9	8,499.7	8,201.2	35.4	44.1	-91.89	391.3	-1,927.6	936.7	872.5	64.14	14.603			
8,700.0	8,586.9	8,594.9	8,291.6	35.7	44.7	-91.59	395.3	-1,956.8	967.2	902.4	64.83	14.918			
8,800.0	8,686.9	8,690.0	8,382.1	36.0	45.3	-91.30	399.2	-1,985.9	997.7	932.2	65.52	15.227			
8,900.0	8,786.9	8,785.1	8,472.5	36.3	45.9	-91.02	403.2	-2,015.0	1,028.3	962.1	66.22	15.529			
9,000.0	8,886.9	8,880.2	8,563.0	36.6	46.5	-90.77	407.2	-2,044.1	1,058.9	992.0	66.92	15.824			
9,100.0	8,986.9	8,975.3	8,653.4	36.9	47.1	-90.53	411.2	-2,073.2	1,089.5	1,021.9	67.61	16.113			
9,200.0	9,086.9	9,070.4	8,743.9	37.2	47.7	-90.30	415.2	-2,102.3	1,120.1	1,051.8	68.32	16.396			
9,235.6	9,122.5	9,104.3	8,776.1	37.4	47.9	-90.22	416.6	-2,112.7	1,131.0	1,062.4	68.57	16.495			
9,250.0	9,136.9	9,117.9	8,789.1	37.4	48.0	89.62	417.2	-2,116.9	1,135.4	1,066.7	68.67	16.535			
9,275.0	9,161.8	9,141.6	8,811.6	37.5	48.1	88.78	418.2	-2,124.1	1,143.1	1,074.2	68.83	16.608			
9,300.0	9,186.7	9,165.1	8,834.0	37.5	48.2	88.01	419.2	-2,131.3	1,150.7	1,081.7	68.97	16.683			
9,325.0	9,211.4	9,188.4	8,856.1	37.6	48.4	87.30	420.2	-2,138.5	1,158.3	1,089.2	69.11	16.759			
9,350.0	9,235.8	9,211.4	8,878.0	37.6	48.5	86.66	421.1	-2,145.5	1,165.9	1,096.6	69.25	16.837			
9,375.0	9,259.9	9,234.1	8,899.5	37.7	48.7	86.08	422.1	-2,152.5	1,173.4	1,104.0	69.37	16.916			
9,400.0	9,283.6	9,256.3	8,920.7	37.8	48.8	85.54	423.0	-2,159.3	1,180.9	1,111.4	69.48	16.996			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: Reference		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,425.0	9,306.9	9,278.1	8,941.4	37.8	49.0	85.05	423.9	-2,165.9	1,188.4	1,118.8	69.59	17.077		
9,450.0	9,329.7	9,299.3	8,961.6	37.8	49.1	84.61	424.8	-2,172.4	1,195.9	1,126.2	69.69	17.159		
9,475.0	9,352.0	9,319.9	8,981.2	37.9	49.2	84.19	425.7	-2,178.7	1,203.3	1,133.5	69.79	17.242		
9,500.0	9,373.6	9,339.9	9,000.2	37.9	49.3	83.80	426.5	-2,184.9	1,210.8	1,140.9	69.89	17.325		
9,525.0	9,394.5	9,359.2	9,018.6	37.9	49.5	83.43	427.3	-2,190.8	1,218.3	1,148.3	69.98	17.408		
9,550.0	9,414.6	9,377.7	9,036.2	38.0	49.6	83.06	428.1	-2,196.4	1,225.8	1,155.7	70.08	17.492		
9,575.0	9,434.0	9,395.5	9,053.0	38.0	49.7	82.70	428.9	-2,201.9	1,233.3	1,163.2	70.18	17.575		
9,600.0	9,452.5	9,412.3	9,069.1	38.0	49.8	82.32	429.6	-2,207.0	1,241.0	1,170.7	70.28	17.658		
9,625.0	9,470.1	9,428.3	9,084.3	38.0	49.9	81.94	430.2	-2,211.9	1,248.6	1,178.3	70.38	17.741		
9,650.0	9,486.8	9,443.3	9,098.6	38.0	50.0	81.52	430.9	-2,216.5	1,256.4	1,185.9	70.49	17.823		
9,675.0	9,502.4	9,457.4	9,111.9	38.0	50.1	81.08	431.5	-2,220.8	1,264.3	1,193.7	70.61	17.904		
9,700.0	9,517.0	9,471.5	9,125.3	38.0	50.2	80.65	432.0	-2,225.1	1,272.3	1,201.5	70.75	17.982		
9,725.0	9,530.6	9,493.0	9,145.9	38.0	50.3	80.53	432.9	-2,231.6	1,280.3	1,209.3	70.98	18.038		
9,750.0	9,543.0	9,512.8	9,164.8	38.0	50.4	80.34	433.7	-2,237.5	1,288.4	1,217.2	71.20	18.094		
9,775.0	9,554.3	9,530.7	9,181.9	38.0	50.5	80.08	434.4	-2,242.6	1,296.5	1,225.1	71.43	18.151		
9,800.0	9,564.3	9,546.6	9,197.1	38.0	50.6	79.74	435.1	-2,247.2	1,304.8	1,233.1	71.66	18.209		
9,825.0	9,573.2	9,560.5	9,210.5	38.0	50.7	79.30	435.6	-2,251.0	1,313.2	1,241.3	71.89	18.267		
9,850.0	9,580.8	9,572.3	9,221.8	38.0	50.8	78.76	436.0	-2,254.2	1,321.7	1,249.5	72.12	18.325		
9,875.0	9,587.2	9,581.9	9,231.0	38.0	50.8	78.11	436.4	-2,256.8	1,330.3	1,257.9	72.36	18.384		
9,900.0	9,592.3	9,589.2	9,238.0	37.9	50.9	77.35	436.7	-2,258.8	1,339.0	1,266.4	72.60	18.444		
9,925.0	9,596.1	9,594.3	9,242.9	37.9	50.9	76.47	436.8	-2,260.1	1,347.9	1,275.1	72.84	18.505		
9,950.0	9,598.6	9,597.0	9,245.6	37.9	50.9	75.47	436.9	-2,260.9	1,356.9	1,283.8	73.08	18.566		
9,975.0	9,599.8	9,597.4	9,246.0	37.9	50.9	74.36	437.0	-2,261.0	1,366.0	1,292.6	73.33	18.628		
9,985.6	9,600.0	9,596.9	9,245.5	37.9	50.9	73.86	436.9	-2,260.8	1,369.9	1,296.4	73.43	18.655		
10,000.0	9,600.0	9,595.9	9,244.5	37.9	50.9	73.81	436.9	-2,260.6	1,375.2	1,301.6	73.57	18.691		
10,100.0	9,600.0	9,588.8	9,237.6	37.9	50.9	73.49	436.6	-2,258.7	1,415.7	1,341.0	74.66	18.961		
10,200.0	9,600.0	9,581.5	9,230.6	38.0	50.8	73.16	436.4	-2,256.7	1,461.9	1,386.0	75.88	19.266		
10,300.0	9,600.0	9,574.1	9,223.5	38.1	50.8	72.83	436.1	-2,254.7	1,513.3	1,436.2	77.16	19.613		
10,400.0	9,600.0	9,566.6	9,216.3	38.3	50.7	72.49	435.8	-2,252.7	1,569.4	1,490.9	78.45	20.005		
10,500.0	9,600.0	9,558.9	9,208.9	38.7	50.7	72.15	435.5	-2,250.6	1,629.7	1,550.0	79.72	20.443		
10,600.0	9,600.0	9,551.1	9,201.4	39.1	50.6	71.80	435.2	-2,248.4	1,693.7	1,612.8	80.93	20.927		
10,700.0	9,600.0	9,543.1	9,193.7	39.6	50.6	71.44	434.9	-2,246.2	1,761.1	1,679.0	82.08	21.454		
10,800.0	9,600.0	9,535.0	9,186.0	40.1	50.6	71.08	434.6	-2,243.9	1,831.4	1,748.2	83.16	22.022		
10,900.0	9,600.0	9,526.7	9,178.0	40.8	50.5	70.71	434.3	-2,241.5	1,904.3	1,820.2	84.16	22.628		
11,000.0	9,600.0	9,518.3	9,170.0	41.5	50.5	70.33	434.0	-2,239.1	1,979.7	1,894.6	85.08	23.269		
11,100.0	9,600.0	12,945.7	11,160.0	42.3	58.8	139.61	-1,178.9	-2,353.7	2,048.2	1,988.6	59.60	34.366		
11,200.0	9,600.0	13,045.7	11,160.0	43.1	59.3	139.61	-1,278.9	-2,353.1	2,048.3	1,987.5	60.80	33.690		
11,300.0	9,600.0	13,145.7	11,160.0	44.0	59.8	139.61	-1,378.9	-2,352.5	2,048.3	1,986.2	62.07	33.000		
11,400.0	9,600.0	13,245.7	11,160.0	44.9	60.4	139.61	-1,478.9	-2,351.9	2,048.3	1,984.9	63.41	32.302		
11,500.0	9,600.0	13,345.7	11,160.0	45.9	61.0	139.61	-1,578.9	-2,351.3	2,048.3	1,983.5	64.82	31.602		
11,600.0	9,600.0	13,445.7	11,160.0	46.9	61.7	139.61	-1,678.9	-2,350.7	2,048.3	1,982.0	66.28	30.903		
11,700.0	9,600.0	13,545.7	11,160.0	47.9	62.4	139.61	-1,778.9	-2,350.1	2,048.3	1,980.5	67.80	30.209		
11,800.0	9,600.0	13,645.7	11,160.0	49.0	63.1	139.61	-1,878.9	-2,349.5	2,048.3	1,978.9	69.38	29.523		
11,900.0	9,600.0	13,745.7	11,160.0	50.1	63.9	139.61	-1,978.9	-2,348.9	2,048.3	1,977.3	71.01	28.847		
12,000.0	9,600.0	13,845.7	11,160.0	51.2	64.8	139.60	-2,078.9	-2,348.3	2,048.3	1,975.7	72.68	28.183		
12,100.0	9,600.0	13,945.7	11,160.0	52.4	65.6	139.60	-2,178.9	-2,347.8	2,048.4	1,974.0	74.40	27.533		
12,200.0	9,600.0	14,045.7	11,160.0	53.6	66.6	139.60	-2,278.9	-2,347.2	2,048.4	1,972.2	76.15	26.899		
12,300.0	9,600.0	14,145.7	11,160.0	54.8	67.5	139.60	-2,378.9	-2,346.6	2,048.4	1,970.4	77.94	26.280		
12,400.0	9,600.0	14,245.7	11,160.0	56.1	68.5	139.60	-2,478.9	-2,346.0	2,048.4	1,968.6	79.77	25.678		
12,500.0	9,600.0	14,345.7	11,160.0	57.3	69.5	139.60	-2,578.9	-2,345.4	2,048.4	1,966.8	81.63	25.093		
12,600.0	9,600.0	14,445.7	11,160.0	58.6	70.5	139.60	-2,678.9	-2,344.8	2,048.4	1,964.9	83.52	24.525		
12,700.0	9,600.0	14,545.7	11,160.0	59.9	71.6	139.60	-2,778.9	-2,344.2	2,048.4	1,963.0	85.44	23.974		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
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Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 FED COM 602H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Measured	Vertical	Reference	Offset	Highside				Distance				Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
12,800.0	9,600.0	14,645.7	11,160.0	61.2	72.7	139.60	-2,878.9	-2,343.6	2,048.4	1,961.0	87.39	23.440			
12,900.0	9,600.0	14,745.7	11,160.0	62.5	73.8	139.60	-2,978.9	-2,343.0	2,048.4	1,959.1	89.36	22.923			
13,000.0	9,600.0	14,845.7	11,160.0	63.9	75.0	139.60	-3,078.9	-2,342.4	2,048.5	1,957.1	91.36	22.422			
13,100.0	9,600.0	14,945.7	11,160.0	65.2	76.1	139.60	-3,178.9	-2,341.8	2,048.5	1,955.1	93.37	21.938			
13,200.0	9,600.0	15,045.7	11,160.0	66.6	77.3	139.60	-3,278.9	-2,341.3	2,048.5	1,953.1	95.41	21.470			
13,300.0	9,600.0	15,145.7	11,160.0	68.0	78.5	139.60	-3,378.9	-2,340.7	2,048.5	1,951.0	97.47	21.017			
13,400.0	9,600.0	15,245.7	11,160.0	69.4	79.7	139.60	-3,478.9	-2,340.1	2,048.5	1,949.0	99.54	20.580			
13,500.0	9,600.0	15,345.7	11,160.0	70.8	81.0	139.60	-3,578.9	-2,339.5	2,048.5	1,946.9	101.63	20.156			
13,600.0	9,600.0	15,445.7	11,160.0	72.2	82.2	139.60	-3,678.8	-2,338.9	2,048.5	1,944.8	103.74	19.747			
13,700.0	9,600.0	15,545.7	11,160.0	73.6	83.5	139.60	-3,778.8	-2,338.3	2,048.5	1,942.7	105.86	19.351			
13,800.0	9,600.0	15,645.7	11,160.0	75.1	84.8	139.60	-3,878.8	-2,337.7	2,048.5	1,940.5	108.00	18.969			
13,900.0	9,600.0	15,745.7	11,160.0	76.5	86.1	139.60	-3,978.8	-2,337.1	2,048.6	1,938.4	110.14	18.599			
14,000.0	9,600.0	15,845.7	11,160.0	78.0	87.4	139.60	-4,078.8	-2,336.5	2,048.6	1,936.3	112.31	18.241			
14,100.0	9,600.0	15,945.7	11,160.0	79.4	88.7	139.60	-4,178.8	-2,335.9	2,048.6	1,934.1	114.48	17.895			
14,200.0	9,600.0	16,045.7	11,160.0	80.9	90.1	139.60	-4,278.8	-2,335.3	2,048.6	1,931.9	116.66	17.560			
14,300.0	9,600.0	16,145.7	11,160.0	82.4	91.4	139.60	-4,378.8	-2,334.8	2,048.6	1,929.7	118.86	17.236			
14,400.0	9,600.0	16,245.7	11,160.0	83.8	92.8	139.60	-4,478.8	-2,334.2	2,048.6	1,927.6	121.06	16.922			
14,500.0	9,600.0	16,345.7	11,160.0	85.3	94.1	139.60	-4,578.8	-2,333.6	2,048.6	1,925.3	123.28	16.618			
14,600.0	9,600.0	16,445.7	11,160.0	86.8	95.5	139.60	-4,678.8	-2,333.0	2,048.6	1,923.1	125.50	16.324			
14,700.0	9,600.0	16,545.7	11,160.0	88.3	96.9	139.59	-4,778.8	-2,332.4	2,048.6	1,920.9	127.73	16.039			
14,800.0	9,600.0	16,645.7	11,160.0	89.8	98.3	139.59	-4,878.8	-2,331.8	2,048.7	1,918.7	129.97	15.763			
14,900.0	9,600.0	16,745.7	11,160.0	91.3	99.7	139.59	-4,978.8	-2,331.2	2,048.7	1,916.5	132.22	15.495			
15,000.0	9,600.0	16,845.7	11,160.0	92.8	101.1	139.59	-5,078.8	-2,330.6	2,048.7	1,914.2	134.47	15.235			
15,100.0	9,600.0	16,945.7	11,160.0	94.4	102.5	139.59	-5,178.8	-2,330.0	2,048.7	1,912.0	136.73	14.983			
15,200.0	9,600.0	17,045.7	11,160.0	95.9	103.9	139.59	-5,278.8	-2,329.4	2,048.7	1,909.7	139.00	14.739			
15,300.0	9,600.0	17,145.7	11,160.0	97.4	105.4	139.59	-5,378.8	-2,328.8	2,048.7	1,907.4	141.27	14.502			
15,400.0	9,600.0	17,245.7	11,160.0	98.9	106.8	139.59	-5,478.8	-2,328.3	2,048.7	1,905.2	143.55	14.272			
15,500.0	9,600.0	17,345.7	11,160.0	100.5	108.3	139.59	-5,578.8	-2,327.7	2,048.7	1,902.9	145.84	14.048			
15,600.0	9,600.0	17,445.7	11,160.0	102.0	109.7	139.59	-5,678.8	-2,327.1	2,048.7	1,900.6	148.13	13.831			
15,700.0	9,600.0	17,545.7	11,160.0	103.6	111.2	139.59	-5,778.8	-2,326.5	2,048.8	1,898.3	150.42	13.620			
15,800.0	9,600.0	17,645.7	11,160.0	105.1	112.6	139.59	-5,878.8	-2,325.9	2,048.8	1,896.0	152.72	13.415			
15,900.0	9,600.0	17,745.7	11,160.0	106.7	114.1	139.59	-5,978.8	-2,325.3	2,048.8	1,893.8	155.03	13.215			
16,000.0	9,600.0	17,845.7	11,160.0	108.2	115.6	139.59	-6,078.8	-2,324.7	2,048.8	1,891.5	157.34	13.021			
16,100.0	9,600.0	17,945.7	11,160.0	109.8	117.1	139.59	-6,178.8	-2,324.1	2,048.8	1,889.2	159.65	12.833			
16,200.0	9,600.0	18,045.7	11,160.0	111.3	118.5	139.59	-6,278.8	-2,323.5	2,048.8	1,886.8	161.97	12.649			
16,300.0	9,600.0	18,145.7	11,160.0	112.9	120.0	139.59	-6,378.8	-2,322.9	2,048.8	1,884.5	164.30	12.470			
16,400.0	9,600.0	18,245.7	11,160.0	114.4	121.5	139.59	-6,478.8	-2,322.3	2,048.8	1,882.2	166.62	12.296			
16,500.0	9,600.0	18,345.7	11,160.0	116.0	123.0	139.59	-6,578.8	-2,321.8	2,048.8	1,879.9	168.95	12.127			
16,600.0	9,600.0	18,445.7	11,160.0	117.6	124.5	139.59	-6,678.8	-2,321.2	2,048.9	1,877.6	171.28	11.962			
16,700.0	9,600.0	18,545.7	11,160.0	119.1	126.0	139.59	-6,778.8	-2,320.6	2,048.9	1,875.3	173.62	11.801			
16,800.0	9,600.0	18,645.7	11,160.0	120.7	127.5	139.59	-6,878.8	-2,320.0	2,048.9	1,872.9	175.96	11.644			
16,900.0	9,600.0	18,745.7	11,160.0	122.3	129.0	139.59	-6,978.8	-2,319.4	2,048.9	1,870.6	178.30	11.491			
17,000.0	9,600.0	18,845.7	11,160.0	123.9	130.6	139.59	-7,078.8	-2,318.8	2,048.9	1,868.3	180.65	11.342			
17,100.0	9,600.0	18,945.7	11,160.0	125.4	132.1	139.59	-7,178.8	-2,318.2	2,048.9	1,865.9	183.00	11.196			
17,200.0	9,600.0	19,045.7	11,160.0	127.0	133.6	139.59	-7,278.8	-2,317.6	2,048.9	1,863.6	185.35	11.054			
17,300.0	9,600.0	19,145.7	11,160.0	128.6	135.1	139.59	-7,378.8	-2,317.0	2,048.9	1,861.2	187.70	10.916			
17,400.0	9,600.0	19,245.7	11,160.0	130.2	136.6	139.58	-7,478.8	-2,316.4	2,049.0	1,858.9	190.06	10.781			
17,500.0	9,600.0	19,345.7	11,160.0	131.8	138.2	139.58	-7,578.8	-2,315.9	2,049.0	1,856.5	192.42	10.648			
17,600.0	9,600.0	19,445.7	11,160.0	133.3	139.7	139.58	-7,678.8	-2,315.3	2,049.0	1,854.2	194.78	10.519			
17,700.0	9,600.0	19,545.7	11,160.0	134.9	141.2	139.58	-7,778.8	-2,314.7	2,049.0	1,851.8	197.15	10.393			
17,800.0	9,600.0	19,645.7	11,160.0	136.5	142.8	139.58	-7,878.8	-2,314.1	2,049.0	1,849.5	199.51	10.270			
17,900.0	9,600.0	19,745.7	11,160.0	138.1	144.3	139.58	-7,978.8	-2,313.5	2,049.0	1,847.1	201.88	10.150			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 602H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
18,000.0	9,600.0	19,845.7	11,160.0	139.7	145.9	139.58	-8,078.8	-2,312.9	2,049.0	1,844.8	204.25	10.032
18,100.0	9,600.0	19,945.7	11,160.0	141.3	147.4	139.58	-8,178.8	-2,312.3	2,049.0	1,842.4	206.62	9.917
18,200.0	9,600.0	20,045.7	11,160.0	142.9	149.0	139.58	-8,278.8	-2,311.7	2,049.0	1,840.0	209.00	9.804
18,300.0	9,600.0	20,145.7	11,160.0	144.5	150.5	139.58	-8,378.8	-2,311.1	2,049.1	1,837.7	211.37	9.694
18,400.0	9,600.0	20,245.7	11,160.0	146.1	152.1	139.58	-8,478.8	-2,310.5	2,049.1	1,835.3	213.75	9.586
18,500.0	9,600.0	20,345.7	11,160.0	147.7	153.6	139.58	-8,578.8	-2,309.9	2,049.1	1,832.9	216.13	9.481
18,600.0	9,600.0	20,445.7	11,160.0	149.3	155.2	139.58	-8,678.8	-2,309.4	2,049.1	1,830.6	218.51	9.378
18,700.0	9,600.0	20,545.7	11,160.0	150.9	156.7	139.58	-8,778.8	-2,308.8	2,049.1	1,828.2	220.89	9.276
18,800.0	9,600.0	20,645.7	11,160.0	152.5	158.3	139.58	-8,878.8	-2,308.2	2,049.1	1,825.8	223.28	9.177
18,900.0	9,600.0	20,745.7	11,160.0	154.1	159.9	139.58	-8,978.8	-2,307.6	2,049.1	1,823.5	225.66	9.080
19,000.0	9,600.0	20,845.7	11,160.0	155.7	161.4	139.58	-9,078.8	-2,307.0	2,049.1	1,821.1	228.05	8.985
19,100.0	9,600.0	20,945.7	11,160.0	157.3	163.0	139.58	-9,178.8	-2,306.4	2,049.1	1,818.7	230.44	8.892
19,200.0	9,600.0	21,045.7	11,160.0	158.9	164.6	139.58	-9,278.8	-2,305.8	2,049.2	1,816.3	232.83	8.801
19,300.0	9,600.0	21,145.7	11,160.0	160.5	166.1	139.58	-9,378.8	-2,305.2	2,049.2	1,813.9	235.22	8.712
19,400.0	9,600.0	21,245.7	11,160.0	162.1	167.7	139.58	-9,478.7	-2,304.6	2,049.2	1,811.6	237.61	8.624
19,500.0	9,600.0	21,345.7	11,160.0	163.7	169.3	139.58	-9,578.7	-2,304.0	2,049.2	1,809.2	240.01	8.538
19,600.0	9,600.0	21,445.7	11,160.0	165.3	170.8	139.58	-9,678.7	-2,303.4	2,049.2	1,806.8	242.40	8.454
19,700.0	9,600.0	21,545.7	11,160.0	166.9	172.4	139.58	-9,778.7	-2,302.9	2,049.2	1,804.4	244.80	8.371
19,800.0	9,600.0	21,645.7	11,160.0	168.6	174.0	139.58	-9,878.7	-2,302.3	2,049.2	1,802.0	247.20	8.290
19,871.5	9,600.0	21,717.2	11,160.0	169.7	175.1	139.58	-9,950.2	-2,301.8	2,049.2	1,800.3	248.91	8.233

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program: Reference		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	1.0	1.0	0.0	0.0	1.84	129.9	4.2	130.0						
100.0	100.0	101.0	101.0	0.3	0.3	1.84	129.9	4.2	130.0	129.5	0.53	243.366			
200.0	200.0	201.0	201.0	0.6	0.6	1.84	129.9	4.2	130.0	128.7	1.25	103.901			
300.0	300.0	301.0	301.0	1.0	1.0	1.84	129.9	4.2	130.0	128.0	1.97	66.050			
400.0	400.0	401.0	401.0	1.3	1.3	1.84	129.9	4.2	130.0	127.3	2.68	48.413			
500.0	500.0	501.0	501.0	1.7	1.7	1.84	129.9	4.2	130.0	126.6	3.40	38.210			
600.0	600.0	601.0	601.0	2.1	2.1	1.84	129.9	4.2	130.0	125.9	4.12	31.559			
700.0	700.0	701.0	701.0	2.4	2.4	1.84	129.9	4.2	130.0	125.2	4.84	26.880			
800.0	800.0	801.0	801.0	2.8	2.8	1.84	129.9	4.2	130.0	124.4	5.55	23.410			
900.0	900.0	901.0	901.0	3.1	3.1	1.84	129.9	4.2	130.0	123.7	6.27	20.733			
1,000.0	1,000.0	1,001.0	1,001.0	3.5	3.5	1.84	129.9	4.2	130.0	123.0	6.99	18.605			
1,100.0	1,100.0	1,101.0	1,101.0	3.8	3.9	1.84	129.9	4.2	130.0	122.3	7.70	16.874			
1,200.0	1,200.0	1,201.0	1,201.0	4.2	4.2	1.84	129.9	4.2	130.0	121.6	8.42	15.437			
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	1.84	129.9	4.2	130.0	120.8	9.14	14.226			
1,400.0	1,400.0	1,401.0	1,401.0	4.9	4.9	1.84	129.9	4.2	130.0	120.1	9.85	13.191			
1,500.0	1,500.0	1,501.0	1,501.0	5.3	5.3	1.84	129.9	4.2	130.0	119.4	10.57	12.296			
1,600.0	1,600.0	1,601.0	1,601.0	5.6	5.6	1.84	129.9	4.2	130.0	118.7	11.29	11.515			
1,700.0	1,700.0	1,701.0	1,701.0	6.0	6.0	1.84	129.9	4.2	130.0	118.0	12.01	10.828			
1,800.0	1,800.0	1,801.0	1,801.0	6.4	6.4	1.84	129.9	4.2	130.0	117.3	12.72	10.217			
1,900.0	1,900.0	1,901.0	1,901.0	6.7	6.7	1.84	129.9	4.2	130.0	116.5	13.44	9.672			
1,966.3	1,966.3	1,967.3	1,967.3	7.0	7.0	1.84	129.9	4.2	130.0	116.1	13.91	9.342			
2,000.0	2,000.0	2,001.0	2,001.0	7.1	7.1	1.84	129.9	4.2	130.0	115.8	14.16	9.183			
2,100.0	2,100.0	2,100.0	2,100.0	7.4	7.4	69.70	130.3	2.5	129.7	114.9	14.86	8.731			
2,200.0	2,199.8	2,199.3	2,199.1	7.8	7.8	69.62	131.5	-2.6	128.9	113.4	15.55	8.289			
2,300.0	2,299.5	2,298.4	2,297.9	8.1	8.1	69.50	133.4	-11.0	127.5	111.3	16.25	7.849			
2,400.0	2,398.7	2,397.5	2,396.2	8.5	8.5	69.32	136.0	-22.7	125.6	108.7	16.96	7.409			
2,500.0	2,497.5	2,496.6	2,494.1	8.9	8.8	69.09	139.5	-37.7	123.2	105.5	17.68	6.968			
2,600.0	2,595.6	2,595.7	2,591.4	9.2	9.2	68.80	143.6	-56.0	120.2	101.8	18.42	6.525			
2,700.0	2,693.4	2,694.7	2,687.9	9.6	9.6	67.59	148.5	-77.5	117.4	98.2	19.18	6.117			
2,800.0	2,791.3	2,794.0	2,784.0	10.0	10.0	64.82	154.1	-102.1	115.4	95.4	19.96	5.781			
2,900.0	2,889.1	2,893.8	2,880.3	10.4	10.4	61.70	159.9	-127.3	113.9	93.1	20.75	5.487			
3,000.0	2,986.9	2,993.6	2,976.7	10.8	10.9	58.51	165.6	-152.5	112.7	91.1	21.55	5.230			
3,100.0	3,084.7	3,093.4	3,073.1	11.3	11.3	55.26	171.4	-177.6	111.9	89.5	22.34	5.008			
3,200.0	3,182.5	3,193.2	3,169.5	11.7	11.8	51.97	177.1	-202.8	111.4	88.3	23.13	4.818			
3,270.2	3,251.2	3,263.2	3,237.2	12.0	12.1	49.66	181.1	-220.5	111.3	87.7	23.68	4.702 CC			
3,300.0	3,280.3	3,293.0	3,265.9	12.1	12.2	48.67	182.8	-228.0	111.4	87.5	23.91	4.658			
3,400.0	3,378.1	3,392.7	3,362.3	12.5	12.7	45.37	188.6	-253.2	111.7	87.0	24.68	4.525			
3,500.0	3,476.0	3,492.5	3,458.7	13.0	13.2	42.11	194.3	-278.4	112.3	86.9	25.43	4.417 ES			
3,600.0	3,573.8	3,592.3	3,555.1	13.4	13.7	38.89	200.1	-303.6	113.3	87.2	26.17	4.331			
3,700.0	3,671.6	3,692.1	3,651.5	13.9	14.1	35.73	205.8	-328.7	114.7	87.8	26.90	4.265			
3,800.0	3,769.4	3,791.9	3,747.9	14.3	14.6	32.67	211.5	-353.9	116.4	88.8	27.62	4.217			
3,900.0	3,867.2	3,891.7	3,844.3	14.8	15.1	29.70	217.3	-379.1	118.5	90.2	28.32	4.184			
4,000.0	3,965.0	3,991.5	3,940.7	15.2	15.6	26.83	223.0	-404.3	120.8	91.8	29.02	4.164			
4,100.0	4,062.8	4,091.3	4,037.1	15.7	16.1	24.08	228.8	-429.5	123.5	93.8	29.71	4.157			
4,200.0	4,160.7	4,191.1	4,133.4	16.1	16.7	21.46	234.5	-454.6	126.4	96.0	30.39	4.159			
4,300.0	4,258.5	4,290.9	4,229.8	16.6	17.2	18.95	240.2	-479.8	129.6	98.5	31.08	4.169			
4,400.0	4,356.3	4,390.7	4,326.2	17.1	17.7	16.57	246.0	-505.0	133.0	101.2	31.76	4.186			
4,500.0	4,454.1	4,490.5	4,422.6	17.5	18.2	14.31	251.7	-530.2	136.6	104.1	32.45	4.209			
4,600.0	4,551.9	4,590.3	4,519.0	18.0	18.7	12.17	257.5	-555.4	140.4	107.3	33.14	4.237			
4,700.0	4,649.7	4,690.1	4,615.4	18.4	19.2	10.15	263.2	-580.6	144.4	110.6	33.83	4.269			
4,800.0	4,747.5	4,789.8	4,711.8	18.9	19.8	8.24	269.0	-605.7	148.6	114.1	34.53	4.303			
4,900.0	4,845.4	4,889.6	4,808.2	19.4	20.3	6.43	274.7	-630.9	152.9	117.7	35.24	4.340			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
	5,000.0	4,943.2	4,989.4	4,904.6	19.9	20.8	4.73	280.4	-656.1	157.4	121.5	35.95	4.379		
	5,100.0	5,041.0	5,089.2	5,001.0	20.3	21.3	3.12	286.2	-681.3	162.0	125.4	36.67	4.419		
	5,200.0	5,138.8	5,189.0	5,097.4	20.8	21.9	1.60	291.9	-706.5	166.8	129.4	37.40	4.460		
	5,300.0	5,236.6	5,288.8	5,193.8	21.3	22.4	0.16	297.7	-731.7	171.6	133.5	38.13	4.501		
	5,400.0	5,334.4	5,388.6	5,290.2	21.7	22.9	-1.19	303.4	-756.8	176.6	137.7	38.87	4.542		
	5,500.0	5,432.3	5,488.4	5,386.5	22.2	23.5	-2.47	309.1	-782.0	181.6	142.0	39.62	4.584		
	5,600.0	5,530.1	5,588.2	5,482.9	22.7	24.0	-3.68	314.9	-807.2	186.7	146.4	40.37	4.626		
	5,700.0	5,627.9	5,688.0	5,579.3	23.2	24.5	-4.83	320.6	-832.4	191.9	150.8	41.13	4.667		
	5,800.0	5,725.7	5,787.8	5,675.7	23.6	25.1	-5.91	326.4	-857.6	197.2	155.3	41.89	4.708		
	5,900.0	5,823.5	5,887.6	5,772.1	24.1	25.6	-6.94	332.1	-882.7	202.5	159.9	42.66	4.748		
	6,000.0	5,921.3	5,987.4	5,868.5	24.6	26.1	-7.92	337.8	-907.9	208.0	164.5	43.43	4.788		
	6,100.0	6,019.1	6,087.2	5,964.9	25.1	26.7	-8.84	343.6	-933.1	213.4	169.2	44.22	4.827		
	6,200.0	6,117.0	6,186.9	6,061.3	25.5	27.2	-9.72	349.3	-958.3	218.9	173.9	45.00	4.865		
	6,300.0	6,214.8	6,286.7	6,157.7	26.0	27.8	-10.56	355.1	-983.5	224.5	178.7	45.79	4.903		
	6,400.0	6,312.6	6,386.5	6,254.1	26.5	28.3	-11.35	360.8	-1,008.7	230.1	183.5	46.58	4.940		
	6,500.0	6,410.4	6,486.3	6,350.5	27.0	28.9	-12.11	366.5	-1,033.8	235.8	188.4	47.38	4.976		
	6,600.0	6,508.2	6,586.1	6,446.9	27.5	29.4	-12.83	372.3	-1,059.0	241.4	193.3	48.18	5.011		
	6,700.0	6,606.0	6,685.9	6,543.3	27.9	29.9	-13.52	378.0	-1,084.2	247.2	198.2	48.99	5.046		
	6,800.0	6,703.8	6,785.7	6,639.7	28.4	30.5	-14.18	383.8	-1,109.4	252.9	203.1	49.79	5.079		
	6,900.0	6,801.7	6,885.5	6,736.0	28.9	31.0	-14.81	389.5	-1,134.6	258.7	208.1	50.61	5.112		
	7,000.0	6,899.5	6,985.3	6,832.4	29.4	31.6	-15.41	395.2	-1,159.8	264.5	213.1	51.42	5.145		
	7,100.0	6,997.3	7,091.6	6,935.4	29.9	32.1	-16.04	401.2	-1,185.8	269.6	217.3	52.36	5.150		
	7,200.0	7,095.1	7,201.9	7,043.0	30.4	32.7	-16.78	406.5	-1,209.0	271.2	217.9	53.31	5.086		
	7,300.0	7,192.9	7,312.1	7,151.5	30.8	33.2	-17.65	410.8	-1,228.2	268.9	214.7	54.20	4.962		
	7,376.3	7,267.6	7,395.9	7,234.4	31.2	33.5	-18.42	413.5	-1,240.1	264.7	209.9	54.85	4.827		
	7,400.0	7,290.8	7,421.9	7,260.2	31.3	33.6	-18.66	414.3	-1,243.3	263.1	208.0	55.04	4.780		
	7,500.0	7,389.1	7,531.3	7,369.0	31.8	34.1	-19.64	416.8	-1,254.2	255.9	200.1	55.80	4.585		
	7,600.0	7,488.0	7,640.4	7,477.8	32.2	34.4	-20.56	418.3	-1,261.1	248.3	191.8	56.48	4.395		
	7,700.0	7,587.3	7,749.1	7,586.5	32.6	34.8	-21.40	419.0	-1,264.0	240.2	183.2	57.08	4.209		
	7,800.0	7,687.0	7,850.6	7,688.0	33.0	35.0	-22.07	419.0	-1,264.0	233.0	175.2	57.79	4.032		
	7,900.0	7,786.9	7,950.5	7,787.9	33.3	35.3	-22.45	419.0	-1,264.0	228.9	170.4	58.50	3.913		
	7,976.3	7,863.2	8,026.8	7,864.2	33.5	35.5	-90.44	419.0	-1,264.0	228.0	169.0	59.02	3.863		
	8,000.0	7,886.9	8,050.5	7,887.9	33.6	35.6	-90.44	419.0	-1,264.0	228.0	168.8	59.17	3.853		
	8,100.0	7,986.9	8,150.5	7,987.9	33.9	35.9	-90.44	419.0	-1,264.0	228.0	168.1	59.83	3.810		
	8,200.0	8,086.9	8,250.5	8,087.9	34.2	36.2	-90.44	419.0	-1,264.0	228.0	167.5	60.48	3.769		
	8,300.0	8,186.9	8,350.5	8,187.9	34.5	36.4	-90.44	419.0	-1,264.0	228.0	166.8	61.14	3.729		
	8,400.0	8,286.9	8,450.5	8,287.9	34.8	36.7	-90.44	419.0	-1,264.0	228.0	166.2	61.80	3.689		
	8,500.0	8,386.9	8,550.5	8,387.9	35.1	37.0	-90.44	419.0	-1,264.0	228.0	165.5	62.46	3.650		
	8,600.0	8,486.9	8,650.5	8,487.9	35.4	37.3	-90.44	419.0	-1,264.0	228.0	164.8	63.12	3.611		
	8,700.0	8,586.9	8,750.5	8,587.9	35.7	37.6	-90.44	419.0	-1,264.0	228.0	164.2	63.79	3.574		
	8,800.0	8,686.9	8,850.5	8,687.9	36.0	37.9	-90.44	419.0	-1,264.0	228.0	163.5	64.45	3.537		
	8,900.0	8,786.9	8,950.5	8,787.9	36.3	38.2	-90.44	419.0	-1,264.0	228.0	162.9	65.12	3.501		
	9,000.0	8,886.9	9,050.5	8,887.9	36.6	38.5	-90.44	419.0	-1,264.0	228.0	162.2	65.78	3.465		
	9,100.0	8,986.9	9,150.5	8,987.9	36.9	38.8	-90.44	419.0	-1,264.0	228.0	161.5	66.45	3.431		
	9,200.0	9,086.9	9,250.5	9,087.9	37.2	39.0	-90.44	419.0	-1,264.0	228.0	160.8	67.12	3.397		
	9,235.6	9,122.5	9,286.1	9,123.5	37.4	39.2	-90.44	419.0	-1,264.0	228.0	160.6	67.36	3.384		
	9,250.0	9,136.9	9,300.5	9,137.9	37.4	39.2	89.97	419.0	-1,264.0	228.0	160.5	67.45	3.380		
	9,254.0	9,140.9	9,304.5	9,141.9	37.4	39.2	90.00	419.0	-1,264.0	228.0	160.5	67.47	3.379		
	9,275.0	9,161.8	9,325.4	9,162.8	37.5	39.3	90.32	419.0	-1,264.0	228.0	160.4	67.57	3.374		
	9,300.0	9,186.7	9,350.3	9,187.7	37.5	39.3	90.99	419.0	-1,264.0	228.0	160.3	67.66	3.370		
	9,325.0	9,211.4	9,375.0	9,212.4	37.6	39.4	91.97	419.0	-1,264.0	228.1	160.4	67.73	3.368 SF		
	9,350.0	9,235.8	9,399.4	9,236.8	37.6	39.5	93.24	419.0	-1,264.0	228.4	160.6	67.77	3.369		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,375.0	9,259.9	9,423.5	9,260.9	37.7	39.6	94.77	419.0	-1,264.0	228.8	161.0	67.81	3.375		
9,400.0	9,283.6	9,447.3	9,284.6	37.8	39.6	96.52	419.0	-1,264.0	229.6	161.8	67.84	3.385		
9,425.0	9,306.9	9,470.6	9,307.9	37.8	39.7	98.45	419.0	-1,264.0	230.9	163.0	67.88	3.402		
9,450.0	9,329.7	9,493.4	9,330.7	37.8	39.8	100.52	419.0	-1,264.0	232.8	164.8	67.94	3.426		
9,475.0	9,352.0	9,515.6	9,353.0	37.9	39.8	102.66	419.0	-1,264.0	235.3	167.3	68.04	3.458		
9,500.0	9,373.6	9,537.2	9,374.6	37.9	39.9	104.84	419.0	-1,264.0	238.8	170.6	68.20	3.501		
9,525.0	9,394.5	9,558.1	9,395.5	37.9	40.0	106.98	419.0	-1,264.0	243.2	174.8	68.42	3.555		
9,550.0	9,414.6	9,578.3	9,415.6	38.0	40.0	109.04	419.0	-1,264.0	248.7	180.0	68.70	3.620		
9,575.0	9,434.0	9,597.6	9,435.0	38.0	40.1	110.97	419.0	-1,264.0	255.4	186.4	69.05	3.700		
9,600.0	9,452.5	9,616.1	9,453.5	38.0	40.1	112.72	419.0	-1,264.0	263.5	194.0	69.45	3.793		
9,625.0	9,470.1	9,633.7	9,471.1	38.0	40.2	114.25	419.0	-1,264.0	272.8	202.9	69.91	3.902		
9,650.0	9,486.8	9,650.4	9,487.8	38.0	40.2	115.53	419.0	-1,264.0	283.4	213.0	70.41	4.026		
9,675.0	9,502.4	9,666.1	9,503.4	38.0	40.3	116.53	419.0	-1,264.0	295.4	224.5	70.93	4.166		
9,700.0	9,517.0	9,680.7	9,518.0	38.0	40.3	117.22	419.0	-1,264.0	308.7	237.3	71.45	4.321		
9,725.0	9,530.6	9,694.2	9,531.6	38.0	40.4	117.57	419.0	-1,264.0	323.3	251.3	71.98	4.492		
9,750.0	9,543.0	9,706.6	9,544.0	38.0	40.4	117.54	419.0	-1,264.0	339.0	266.5	72.49	4.677		
9,775.0	9,554.3	9,717.9	9,555.3	38.0	40.4	117.10	419.0	-1,264.0	355.9	282.9	72.97	4.877		
9,800.0	9,564.3	9,728.0	9,565.3	38.0	40.5	116.22	419.0	-1,264.0	373.7	300.3	73.43	5.089		
9,825.0	9,573.2	9,736.8	9,574.2	38.0	40.5	114.83	419.0	-1,264.0	392.5	318.6	73.86	5.314		
9,850.0	9,580.8	9,744.5	9,581.8	38.0	40.5	112.88	419.0	-1,264.0	412.1	337.8	74.25	5.550		
9,875.0	9,587.2	9,750.8	9,588.2	38.0	40.5	110.31	419.0	-1,264.0	432.4	357.8	74.61	5.796		
9,900.0	9,592.3	9,755.9	9,593.3	37.9	40.5	107.05	419.0	-1,264.0	453.4	378.5	74.94	6.050		
9,925.0	9,596.1	9,759.7	9,597.1	37.9	40.6	103.03	419.0	-1,264.0	474.9	399.7	75.24	6.312		
9,950.0	9,598.6	9,762.3	9,599.6	37.9	40.6	98.22	419.0	-1,264.0	496.9	421.4	75.51	6.580		
9,975.0	9,599.8	9,763.5	9,600.8	37.9	40.6	92.61	419.0	-1,264.0	519.2	443.5	75.75	6.854		
9,985.6	9,600.0	9,763.6	9,601.0	37.9	40.6	90.00	419.0	-1,264.0	528.8	452.9	75.85	6.971		
10,000.0	9,600.0	9,763.6	9,601.0	37.9	40.6	90.00	419.0	-1,264.0	541.8	465.8	75.97	7.131		
10,100.0	9,600.0	9,763.6	9,601.0	37.9	40.6	90.00	419.0	-1,264.0	633.9	557.2	76.67	8.268		
10,200.0	9,600.0	9,763.6	9,601.0	38.0	40.6	90.00	419.0	-1,264.0	728.1	650.9	77.17	9.435		
10,300.0	9,600.0	9,763.6	9,601.0	38.1	40.6	90.00	419.0	-1,264.0	823.7	746.1	77.54	10.622		
10,400.0	9,600.0	9,763.6	9,601.0	38.3	40.6	90.00	419.0	-1,264.0	920.2	842.3	77.83	11.823		
10,500.0	9,600.0	9,763.6	9,601.0	38.7	40.6	90.00	419.0	-1,264.0	1,017.4	939.3	78.06	13.034		
10,600.0	9,600.0	9,763.6	9,601.0	39.1	40.6	90.00	419.0	-1,264.0	1,115.0	1,036.8	78.24	14.252		
10,700.0	9,600.0	9,763.6	9,601.0	39.6	40.6	90.00	419.0	-1,264.0	1,213.1	1,134.7	78.39	15.475		
10,800.0	9,600.0	9,763.6	9,601.0	40.1	40.6	90.00	419.0	-1,264.0	1,311.4	1,232.9	78.52	16.703		
10,900.0	9,600.0	9,763.6	9,601.0	40.8	40.6	90.00	419.0	-1,264.0	1,410.0	1,331.4	78.63	17.933		
11,000.0	9,600.0	9,763.6	9,601.0	41.5	40.6	90.00	419.0	-1,264.0	1,508.8	1,430.1	78.72	19.166		
11,100.0	9,600.0	12,709.1	11,160.0	42.3	48.7	171.68	-1,172.4	-1,254.4	1,575.6	1,527.6	48.00	32.827		
11,200.0	9,600.0	12,809.1	11,160.0	43.1	49.4	171.68	-1,272.4	-1,253.8	1,575.6	1,526.7	48.89	32.228		
11,300.0	9,600.0	12,909.1	11,160.0	44.0	50.2	171.68	-1,372.4	-1,253.1	1,575.6	1,525.8	49.82	31.628		
11,400.0	9,600.0	13,009.1	11,160.0	44.9	51.1	171.68	-1,472.4	-1,252.5	1,575.6	1,524.8	50.78	31.028		
11,500.0	9,600.0	13,109.1	11,160.0	45.9	51.9	171.68	-1,572.4	-1,251.9	1,575.6	1,523.8	51.78	30.431		
11,600.0	9,600.0	13,209.1	11,160.0	46.9	52.8	171.68	-1,672.4	-1,251.3	1,575.6	1,522.8	52.80	29.839		
11,700.0	9,600.0	13,309.1	11,160.0	47.9	53.8	171.68	-1,772.4	-1,250.7	1,575.6	1,521.7	53.86	29.254		
11,800.0	9,600.0	13,409.1	11,160.0	49.0	54.8	171.68	-1,872.4	-1,250.1	1,575.6	1,520.6	54.94	28.676		
11,900.0	9,600.0	13,509.1	11,160.0	50.1	55.8	171.68	-1,972.4	-1,249.5	1,575.6	1,519.5	56.05	28.108		
12,000.0	9,600.0	13,609.1	11,160.0	51.2	56.9	171.68	-2,072.4	-1,248.9	1,575.6	1,518.4	57.19	27.551		
12,100.0	9,600.0	13,709.1	11,160.0	52.4	58.0	171.68	-2,172.4	-1,248.3	1,575.6	1,517.2	58.35	27.004		
12,200.0	9,600.0	13,809.1	11,160.0	53.6	59.1	171.68	-2,272.4	-1,247.7	1,575.6	1,516.1	59.53	26.469		
12,300.0	9,600.0	13,909.1	11,160.0	54.8	60.2	171.68	-2,372.4	-1,247.1	1,575.6	1,514.9	60.73	25.946		
12,400.0	9,600.0	14,009.1	11,160.0	56.1	61.4	171.68	-2,472.4	-1,246.5	1,575.6	1,513.6	61.95	25.435		
12,500.0	9,600.0	14,109.1	11,160.0	57.3	62.6	171.68	-2,572.4	-1,245.8	1,575.6	1,512.4	63.18	24.937		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 603H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)														
12,600.0	9,600.0	14,209.1	11,160.0	58.6	63.8	171.68	-2,672.4	-1,245.2	1,575.6	1,511.1	64.44	24.451			
12,700.0	9,600.0	14,309.1	11,160.0	59.9	65.0	171.68	-2,772.4	-1,244.6	1,575.6	1,509.9	65.71	23.978			
12,800.0	9,600.0	14,409.1	11,160.0	61.2	66.2	171.68	-2,872.4	-1,244.0	1,575.6	1,508.6	66.99	23.518			
12,900.0	9,600.0	14,509.1	11,160.0	62.5	67.5	171.68	-2,972.4	-1,243.4	1,575.6	1,507.3	68.29	23.070			
13,000.0	9,600.0	14,609.1	11,160.0	63.9	68.8	171.68	-3,072.4	-1,242.8	1,575.6	1,506.0	69.61	22.635			
13,100.0	9,600.0	14,709.1	11,160.0	65.2	70.1	171.68	-3,172.4	-1,242.2	1,575.6	1,504.6	70.94	22.211			
13,200.0	9,600.0	14,809.1	11,160.0	66.6	71.4	171.68	-3,272.4	-1,241.6	1,575.6	1,503.3	72.27	21.800			
13,300.0	9,600.0	14,909.1	11,160.0	68.0	72.7	171.68	-3,372.4	-1,241.0	1,575.6	1,502.0	73.62	21.400			
13,400.0	9,600.0	15,009.1	11,160.0	69.4	74.0	171.68	-3,472.4	-1,240.4	1,575.6	1,500.6	74.99	21.012			
13,500.0	9,600.0	15,109.1	11,160.0	70.8	75.4	171.68	-3,572.4	-1,239.8	1,575.6	1,499.2	76.36	20.634			
13,600.0	9,600.0	15,209.1	11,160.0	72.2	76.8	171.68	-3,672.4	-1,239.2	1,575.6	1,497.8	77.74	20.268			
13,700.0	9,600.0	15,309.1	11,160.0	73.6	78.1	171.68	-3,772.4	-1,238.5	1,575.6	1,496.5	79.13	19.912			
13,800.0	9,600.0	15,409.1	11,160.0	75.1	79.5	171.68	-3,872.4	-1,237.9	1,575.6	1,495.1	80.53	19.566			
13,900.0	9,600.0	15,509.1	11,160.0	76.5	80.9	171.68	-3,972.4	-1,237.3	1,575.6	1,493.6	81.94	19.230			
14,000.0	9,600.0	15,609.1	11,160.0	78.0	82.3	171.68	-4,072.4	-1,236.7	1,575.6	1,492.2	83.35	18.903			
14,100.0	9,600.0	15,709.1	11,160.0	79.4	83.7	171.68	-4,172.4	-1,236.1	1,575.6	1,490.8	84.77	18.586			
14,200.0	9,600.0	15,809.1	11,160.0	80.9	85.1	171.68	-4,272.4	-1,235.5	1,575.6	1,489.4	86.20	18.278			
14,300.0	9,600.0	15,909.1	11,160.0	82.4	86.6	171.68	-4,372.4	-1,234.9	1,575.6	1,487.9	87.64	17.978			
14,400.0	9,600.0	16,009.1	11,160.0	83.8	88.0	171.68	-4,472.4	-1,234.3	1,575.6	1,486.5	89.08	17.687			
14,500.0	9,600.0	16,109.1	11,160.0	85.3	89.4	171.68	-4,572.4	-1,233.7	1,575.6	1,485.0	90.53	17.404			
14,600.0	9,600.0	16,209.1	11,160.0	86.8	90.9	171.68	-4,672.4	-1,233.1	1,575.6	1,483.6	91.99	17.128			
14,700.0	9,600.0	16,309.1	11,160.0	88.3	92.4	171.68	-4,772.4	-1,232.5	1,575.6	1,482.1	93.45	16.861			
14,800.0	9,600.0	16,409.1	11,160.0	89.8	93.8	171.68	-4,872.4	-1,231.9	1,575.6	1,480.7	94.91	16.600			
14,900.0	9,600.0	16,509.1	11,160.0	91.3	95.3	171.68	-4,972.4	-1,231.2	1,575.6	1,479.2	96.38	16.347			
15,000.0	9,600.0	16,609.1	11,160.0	92.8	96.8	171.68	-5,072.4	-1,230.6	1,575.6	1,477.7	97.86	16.100			
15,100.0	9,600.0	16,709.1	11,160.0	94.4	98.2	171.68	-5,172.4	-1,230.0	1,575.6	1,476.2	99.34	15.860			
15,200.0	9,600.0	16,809.1	11,160.0	95.9	99.7	171.68	-5,272.4	-1,229.4	1,575.6	1,474.8	100.83	15.627			
15,300.0	9,600.0	16,909.1	11,160.0	97.4	101.2	171.68	-5,372.4	-1,228.8	1,575.6	1,473.3	102.32	15.399			
15,400.0	9,600.0	17,009.1	11,160.0	98.9	102.7	171.68	-5,472.4	-1,228.2	1,575.6	1,471.8	103.81	15.178			
15,500.0	9,600.0	17,109.1	11,160.0	100.5	104.2	171.68	-5,572.4	-1,227.6	1,575.6	1,470.3	105.31	14.962			
15,600.0	9,600.0	17,209.1	11,160.0	102.0	105.7	171.68	-5,672.4	-1,227.0	1,575.6	1,468.8	106.81	14.752			
15,700.0	9,600.0	17,309.1	11,160.0	103.6	107.2	171.68	-5,772.4	-1,226.4	1,575.6	1,467.3	108.31	14.547			
15,800.0	9,600.0	17,409.1	11,160.0	105.1	108.8	171.68	-5,872.4	-1,225.8	1,575.6	1,465.8	109.82	14.347			
15,900.0	9,600.0	17,509.1	11,160.0	106.7	110.3	171.68	-5,972.4	-1,225.2	1,575.6	1,464.2	111.33	14.152			
16,000.0	9,600.0	17,609.1	11,160.0	108.2	111.8	171.68	-6,072.3	-1,224.6	1,575.6	1,462.7	112.84	13.962			
16,100.0	9,600.0	17,709.1	11,160.0	109.8	113.3	171.68	-6,172.3	-1,224.0	1,575.6	1,461.2	114.36	13.777			
16,200.0	9,600.0	17,809.1	11,160.0	111.3	114.9	171.68	-6,272.3	-1,223.3	1,575.6	1,459.7	115.88	13.596			
16,300.0	9,600.0	17,909.1	11,160.0	112.9	116.4	171.68	-6,372.3	-1,222.7	1,575.6	1,458.2	117.41	13.420			
16,400.0	9,600.0	18,009.1	11,160.0	114.4	117.9	171.68	-6,472.3	-1,222.1	1,575.6	1,456.6	118.93	13.248			
16,500.0	9,600.0	18,109.1	11,160.0	116.0	119.5	171.68	-6,572.3	-1,221.5	1,575.6	1,455.1	120.46	13.080			
16,600.0	9,600.0	18,209.1	11,160.0	117.6	121.0	171.68	-6,672.3	-1,220.9	1,575.6	1,453.6	121.99	12.916			
16,700.0	9,600.0	18,309.1	11,160.0	119.1	122.5	171.68	-6,772.3	-1,220.3	1,575.6	1,452.1	123.52	12.755			
16,800.0	9,600.0	18,409.1	11,160.0	120.7	124.1	171.68	-6,872.3	-1,219.7	1,575.6	1,450.5	125.06	12.599			
16,900.0	9,600.0	18,509.1	11,160.0	122.3	125.6	171.68	-6,972.3	-1,219.1	1,575.6	1,449.0	126.60	12.446			
17,000.0	9,600.0	18,609.1	11,160.0	123.9	127.2	171.68	-7,072.3	-1,218.5	1,575.6	1,447.4	128.14	12.296			
17,100.0	9,600.0	18,709.1	11,160.0	125.4	128.8	171.68	-7,172.3	-1,217.9	1,575.6	1,445.9	129.68	12.150			
17,200.0	9,600.0	18,809.1	11,160.0	127.0	130.3	171.68	-7,272.3	-1,217.3	1,575.6	1,444.4	131.22	12.007			
17,300.0	9,600.0	18,909.1	11,160.0	128.6	131.9	171.68	-7,372.3	-1,216.7	1,575.6	1,442.8	132.77	11.867			
17,400.0	9,600.0	19,009.1	11,160.0	130.2	133.4	171.68	-7,472.3	-1,216.0	1,575.6	1,441.3	134.32	11.730			
17,500.0	9,600.0	19,109.1	11,160.0	131.8	135.0	171.68	-7,572.3	-1,215.4	1,575.6	1,439.7	135.87	11.596			
17,600.0	9,600.0	19,209.1	11,160.0	133.3	136.6	171.68	-7,672.3	-1,214.8	1,575.6	1,438.2	137.42	11.466			
17,700.0	9,600.0	19,309.1	11,160.0	134.9	138.1	171.68	-7,772.3	-1,214.2	1,575.6	1,436.6	138.97	11.337			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 603H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-MWD										Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,800.0	9,600.0	19,409.1	11,160.0	136.5	139.7	171.68	-7,872.3	-1,213.6	1,575.6	1,435.1	140.53	11.212
17,900.0	9,600.0	19,509.1	11,160.0	138.1	141.3	171.68	-7,972.3	-1,213.0	1,575.6	1,433.5	142.08	11.089
18,000.0	9,600.0	19,609.1	11,160.0	139.7	142.8	171.68	-8,072.3	-1,212.4	1,575.6	1,431.9	143.64	10.969
18,100.0	9,600.0	19,709.1	11,160.0	141.3	144.4	171.68	-8,172.3	-1,211.8	1,575.6	1,430.4	145.20	10.851
18,200.0	9,600.0	19,809.1	11,160.0	142.9	146.0	171.68	-8,272.3	-1,211.2	1,575.6	1,428.8	146.76	10.736
18,300.0	9,600.0	19,909.1	11,160.0	144.5	147.6	171.68	-8,372.3	-1,210.6	1,575.6	1,427.3	148.32	10.623
18,400.0	9,600.0	20,009.1	11,160.0	146.1	149.2	171.68	-8,472.3	-1,210.0	1,575.6	1,425.7	149.89	10.512
18,500.0	9,600.0	20,109.1	11,160.0	147.7	150.7	171.68	-8,572.3	-1,209.4	1,575.6	1,424.1	151.45	10.403
18,600.0	9,600.0	20,209.1	11,160.0	149.3	152.3	171.68	-8,672.3	-1,208.7	1,575.6	1,422.6	153.02	10.297
18,700.0	9,600.0	20,309.1	11,160.0	150.9	153.9	171.68	-8,772.3	-1,208.1	1,575.6	1,421.0	154.58	10.192
18,800.0	9,600.0	20,409.1	11,160.0	152.5	155.5	171.68	-8,872.3	-1,207.5	1,575.6	1,419.4	156.15	10.090
18,900.0	9,600.0	20,509.1	11,160.0	154.1	157.1	171.68	-8,972.3	-1,206.9	1,575.6	1,417.9	157.72	9.990
19,000.0	9,600.0	20,609.1	11,160.0	155.7	158.7	171.68	-9,072.3	-1,206.3	1,575.6	1,416.3	159.29	9.891
19,100.0	9,600.0	20,709.1	11,160.0	157.3	160.3	171.68	-9,172.3	-1,205.7	1,575.6	1,414.7	160.86	9.794
19,200.0	9,600.0	20,809.1	11,160.0	158.9	161.8	171.68	-9,272.3	-1,205.1	1,575.6	1,413.1	162.44	9.700
19,300.0	9,600.0	20,909.1	11,160.0	160.5	163.4	171.68	-9,372.3	-1,204.5	1,575.6	1,411.6	164.01	9.607
19,400.0	9,600.0	21,009.1	11,160.0	162.1	165.0	171.68	-9,472.3	-1,203.9	1,575.6	1,410.0	165.59	9.515
19,500.0	9,600.0	21,109.1	11,160.0	163.7	166.6	171.68	-9,572.3	-1,203.3	1,575.6	1,408.4	167.16	9.425
19,600.0	9,600.0	21,209.1	11,160.0	165.3	168.2	171.68	-9,672.3	-1,202.7	1,575.6	1,406.8	168.74	9.337
19,700.0	9,600.0	21,309.1	11,160.0	166.9	169.8	171.68	-9,772.3	-1,202.1	1,575.6	1,405.3	170.32	9.251
19,800.0	9,600.0	21,409.1	11,160.0	168.6	171.4	171.68	-9,872.3	-1,201.4	1,575.6	1,403.7	171.90	9.166
19,871.5	9,600.0	21,480.6	11,160.0	169.7	172.6	171.68	-9,943.8	-1,201.0	1,575.6	1,402.6	173.02	9.106

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:	0-MWD								Rule Assigned:				Offset Well Error:	0.0 usft
Reference	Measured Depth	Vertical Depth	Offset Measured Depth	Vertical Depth	Semi Major Axis Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
0.0	0.0	1.0	1.0	0.0	0.0	16.08	128.9	37.1	134.1					
100.0	100.0	101.0	101.0	0.3	0.3	16.08	128.9	37.1	134.1	133.6	0.53	251.081		
200.0	200.0	201.0	201.0	0.6	0.6	16.08	128.9	37.1	134.1	132.9	1.25	107.195		
300.0	300.0	301.0	301.0	1.0	1.0	16.08	128.9	37.1	134.1	132.1	1.97	68.144		
400.0	400.0	401.0	401.0	1.3	1.3	16.08	128.9	37.1	134.1	131.4	2.68	49.948		
500.0	500.0	501.0	501.0	1.7	1.7	16.08	128.9	37.1	134.1	130.7	3.40	39.422		
600.0	600.0	601.0	601.0	2.1	2.1	16.08	128.9	37.1	134.1	130.0	4.12	32.560		
700.0	700.0	701.0	701.0	2.4	2.4	16.08	128.9	37.1	134.1	129.3	4.84	27.732		
800.0	800.0	801.0	801.0	2.8	2.8	16.08	128.9	37.1	134.1	128.6	5.55	24.152		
900.0	900.0	901.0	901.0	3.1	3.1	16.08	128.9	37.1	134.1	127.8	6.27	21.390		
1,000.0	1,000.0	1,001.0	1,001.0	3.5	3.5	16.08	128.9	37.1	134.1	127.1	6.99	19.195		
1,100.0	1,100.0	1,101.0	1,101.0	3.8	3.9	16.08	128.9	37.1	134.1	126.4	7.70	17.409		
1,200.0	1,200.0	1,201.0	1,201.0	4.2	4.2	16.08	128.9	37.1	134.1	125.7	8.42	15.926		
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	16.08	128.9	37.1	134.1	125.0	9.14	14.677		
1,400.0	1,400.0	1,401.0	1,401.0	4.9	4.9	16.08	128.9	37.1	134.1	124.3	9.85	13.609		
1,500.0	1,500.0	1,501.0	1,501.0	5.3	5.3	16.08	128.9	37.1	134.1	123.5	10.57	12.686		
1,600.0	1,600.0	1,601.0	1,601.0	5.6	5.6	16.08	128.9	37.1	134.1	122.8	11.29	11.880		
1,700.0	1,700.0	1,701.0	1,701.0	6.0	6.0	16.08	128.9	37.1	134.1	122.1	12.01	11.171		
1,800.0	1,800.0	1,801.0	1,801.0	6.4	6.4	16.08	128.9	37.1	134.1	121.4	12.72	10.541		
1,900.0	1,900.0	1,901.0	1,901.0	6.7	6.7	16.08	128.9	37.1	134.1	120.7	13.44	9.979		
1,966.3	1,966.3	1,967.3	1,967.3	7.0	7.0	16.08	128.9	37.1	134.1	120.2	13.91	9.638 CC		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	16.08	128.9	37.1	134.1	120.0	14.15	9.476 ES		
2,100.0	2,100.0	2,098.0	2,098.0	7.4	7.4	84.13	130.3	36.2	135.0	120.2	14.85	9.091		
2,200.0	2,199.8	2,195.1	2,194.9	7.8	7.8	84.59	134.4	33.4	137.8	122.2	15.54	8.866		
2,300.0	2,299.5	2,292.0	2,291.5	8.1	8.1	85.32	141.2	28.8	142.3	126.1	16.22	8.774 SF		
2,400.0	2,398.7	2,388.7	2,387.5	8.5	8.5	86.27	150.7	22.4	148.8	131.9	16.91	8.798		
2,500.0	2,497.5	2,485.2	2,482.9	8.9	8.8	87.36	162.8	14.2	157.1	139.5	17.60	8.922		
2,600.0	2,595.6	2,584.2	2,580.4	9.2	9.2	88.93	177.1	4.6	166.6	148.2	18.35	9.079		
2,700.0	2,693.4	2,683.5	2,678.2	9.6	9.6	91.05	191.4	-5.0	176.3	157.2	19.11	9.223		
2,800.0	2,791.3	2,782.8	2,776.0	10.0	9.9	92.96	205.7	-14.7	186.2	166.3	19.89	9.360		
2,900.0	2,889.1	2,882.2	2,873.8	10.4	10.3	94.67	220.0	-24.3	196.3	175.6	20.69	9.490		
3,000.0	2,986.9	2,981.5	2,971.6	10.8	10.7	96.21	234.3	-33.9	206.6	185.1	21.49	9.614		
3,100.0	3,084.7	3,080.8	3,069.4	11.3	11.1	97.61	248.5	-43.6	217.0	194.7	22.30	9.731		
3,200.0	3,182.5	3,180.1	3,167.3	11.7	11.5	98.87	262.8	-53.2	227.5	204.4	23.12	9.841		
3,300.0	3,280.3	3,279.5	3,265.1	12.1	11.9	100.03	277.1	-62.9	238.1	214.2	23.94	9.945		
3,400.0	3,378.1	3,378.8	3,362.9	12.5	12.3	101.09	291.4	-72.5	248.8	224.0	24.77	10.043		
3,500.0	3,476.0	3,478.1	3,460.7	13.0	12.7	102.05	305.7	-82.2	259.6	234.0	25.61	10.136		
3,600.0	3,573.8	3,577.4	3,558.5	13.4	13.2	102.95	320.0	-91.8	270.4	244.0	26.45	10.223		
3,700.0	3,671.6	3,676.8	3,656.3	13.9	13.6	103.77	334.3	-101.5	281.3	254.0	27.30	10.306		
3,800.0	3,769.4	3,776.1	3,754.2	14.3	14.0	104.53	348.6	-111.1	292.3	264.1	28.15	10.384		
3,900.0	3,867.2	3,875.4	3,852.0	14.8	14.4	105.24	362.9	-120.8	303.3	274.3	29.00	10.458		
4,000.0	3,965.0	3,974.7	3,949.8	15.2	14.8	105.90	377.2	-130.4	314.3	284.5	29.86	10.527		
4,100.0	4,062.8	4,074.1	4,047.7	15.7	15.2	106.51	391.5	-140.1	325.4	294.7	30.72	10.594		
4,200.0	4,160.7	4,176.7	4,149.0	16.1	15.7	107.41	404.8	-149.0	336.0	304.4	31.59	10.636		
4,300.0	4,258.5	4,279.1	4,250.7	16.6	16.1	108.84	414.9	-155.8	345.8	313.4	32.45	10.658		
4,400.0	4,356.3	4,380.9	4,352.1	17.1	16.5	110.75	422.1	-160.7	355.0	321.7	33.27	10.672		
4,500.0	4,454.1	4,482.0	4,453.1	17.5	16.8	113.10	426.2	-163.4	363.9	329.9	34.05	10.688		
4,600.0	4,551.9	4,581.9	4,552.9	18.0	17.2	115.84	427.4	-164.2	372.9	338.1	34.79	10.719		
4,700.0	4,649.7	4,679.7	4,650.7	18.4	17.5	118.60	427.4	-164.2	382.6	347.1	35.50	10.777		
4,800.0	4,747.5	4,777.5	4,748.5	18.9	17.8	121.21	427.4	-164.2	393.1	356.9	36.20	10.860		
4,900.0	4,845.4	4,875.3	4,846.4	19.4	18.2	123.70	427.4	-164.2	404.5	367.6	36.89	10.963		
5,000.0	4,943.2	4,973.1	4,944.2	19.9	18.5	126.04	427.4	-164.2	416.5	378.9	37.58	11.084		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,041.0	5,071.0	5,042.0	20.3	18.8	128.26	427.4	-164.2	429.3	391.0	38.26	11.220		
5,200.0	5,138.8	5,168.8	5,139.8	20.8	19.2	130.34	427.4	-164.2	442.6	403.7	38.94	11.367		
5,300.0	5,236.6	5,266.6	5,237.6	21.3	19.5	132.31	427.4	-164.2	456.5	416.9	39.61	11.525		
5,400.0	5,334.4	5,364.4	5,335.4	21.7	19.8	134.16	427.4	-164.2	470.9	430.6	40.28	11.690		
5,500.0	5,432.3	5,462.2	5,433.3	22.2	20.2	135.90	427.4	-164.2	485.8	444.8	40.95	11.861		
5,600.0	5,530.1	5,560.0	5,531.1	22.7	20.5	137.54	427.4	-164.2	501.1	459.5	41.63	12.037		
5,700.0	5,627.9	5,657.8	5,628.9	23.2	20.8	139.08	427.4	-164.2	516.8	474.5	42.30	12.217		
5,800.0	5,725.7	5,755.7	5,726.7	23.6	21.2	140.53	427.4	-164.2	532.8	489.8	42.97	12.398		
5,900.0	5,823.5	5,853.5	5,824.5	24.1	21.5	141.90	427.4	-164.2	549.1	505.5	43.65	12.582		
6,000.0	5,921.3	5,951.3	5,922.3	24.6	21.8	143.19	427.4	-164.2	565.8	521.4	44.32	12.765		
6,100.0	6,019.1	6,049.1	6,020.1	25.1	22.2	144.41	427.4	-164.2	582.7	537.7	45.00	12.949		
6,200.0	6,117.0	6,146.9	6,118.0	25.5	22.5	145.55	427.4	-164.2	599.8	554.1	45.68	13.132		
6,300.0	6,214.8	6,244.7	6,215.8	26.0	22.9	146.64	427.4	-164.2	617.2	570.8	46.36	13.314		
6,400.0	6,312.6	6,342.5	6,313.6	26.5	23.2	147.66	427.4	-164.2	634.8	587.7	47.04	13.495		
6,500.0	6,410.4	6,440.4	6,411.4	27.0	23.5	148.63	427.4	-164.2	652.5	604.8	47.72	13.674		
6,600.0	6,508.2	6,538.2	6,509.2	27.5	23.9	149.55	427.4	-164.2	670.5	622.1	48.41	13.851		
6,700.0	6,606.0	6,636.0	6,607.0	27.9	24.2	150.43	427.4	-164.2	688.6	639.5	49.09	14.026		
6,800.0	6,703.8	6,733.8	6,704.8	28.4	24.6	151.25	427.4	-164.2	706.8	657.1	49.78	14.198		
6,900.0	6,801.7	6,831.6	6,802.7	28.9	24.9	152.04	427.4	-164.2	725.2	674.8	50.47	14.369		
7,000.0	6,899.5	6,929.4	6,900.5	29.4	25.2	152.79	427.4	-164.2	743.7	692.6	51.17	14.536		
7,100.0	6,997.3	7,027.2	6,998.3	29.9	25.6	153.50	427.4	-164.2	762.4	710.5	51.86	14.701		
7,200.0	7,095.1	7,125.1	7,096.1	30.4	25.9	154.18	427.4	-164.2	781.1	728.6	52.55	14.863		
7,300.0	7,192.9	7,222.9	7,193.9	30.8	26.3	154.82	427.4	-164.2	800.0	746.7	53.25	15.023		
7,376.3	7,267.6	7,297.5	7,268.6	31.2	26.5	155.30	427.4	-164.2	814.4	760.6	53.78	15.142		
7,400.0	7,290.8	7,320.7	7,291.8	31.3	26.6	155.47	427.4	-164.2	818.8	764.9	53.95	15.178		
7,500.0	7,389.1	7,419.0	7,390.1	31.8	26.9	156.13	427.4	-164.2	835.5	780.9	54.65	15.289		
7,600.0	7,488.0	7,517.9	7,489.0	32.2	27.3	156.64	427.4	-164.2	849.1	793.8	55.34	15.342		
7,700.0	7,587.3	7,617.3	7,588.3	32.6	27.6	157.03	427.4	-164.2	859.6	803.5	56.04	15.338		
7,800.0	7,687.0	7,716.9	7,688.0	33.0	28.0	157.29	427.4	-164.2	866.9	810.1	56.74	15.279		
7,900.0	7,786.9	7,816.8	7,787.9	33.3	28.3	157.43	427.4	-164.2	870.9	813.5	57.43	15.166		
7,976.3	7,863.2	7,893.1	7,864.2	33.5	28.6	89.56	427.4	-164.2	871.9	813.9	57.95	15.045		
8,000.0	7,886.9	7,916.8	7,887.9	33.6	28.7	89.56	427.4	-164.2	871.9	813.8	58.11	15.004		
8,100.0	7,986.9	8,016.8	7,987.9	33.9	29.0	89.56	427.4	-164.2	871.9	813.1	58.79	14.830		
8,200.0	8,086.9	8,116.8	8,087.9	34.2	29.4	89.56	427.4	-164.2	871.9	812.4	59.47	14.660		
8,300.0	8,186.9	8,216.8	8,187.9	34.5	29.7	89.56	427.4	-164.2	871.9	811.7	60.16	14.493		
8,400.0	8,286.9	8,316.8	8,287.9	34.8	30.1	89.56	427.4	-164.2	871.9	811.0	60.84	14.330		
8,500.0	8,386.9	8,416.8	8,387.9	35.1	30.4	89.56	427.4	-164.2	871.9	810.3	61.53	14.171		
8,600.0	8,486.9	8,516.8	8,487.9	35.4	30.8	89.56	427.4	-164.2	871.9	809.7	62.21	14.015		
8,700.0	8,586.9	8,616.8	8,587.9	35.7	31.2	89.56	427.4	-164.2	871.9	809.0	62.90	13.862		
8,800.0	8,686.9	8,716.8	8,687.9	36.0	31.5	89.56	427.4	-164.2	871.9	808.3	63.58	13.712		
8,900.0	8,786.9	8,816.8	8,787.9	36.3	31.9	89.56	427.4	-164.2	871.9	807.6	64.27	13.566		
9,000.0	8,886.9	8,916.8	8,887.9	36.6	32.2	89.56	427.4	-164.2	871.9	806.9	64.96	13.422		
9,100.0	8,986.9	9,016.8	8,987.9	36.9	32.6	89.56	427.4	-164.2	871.9	806.2	65.65	13.281		
9,200.0	9,086.9	9,116.8	9,087.9	37.2	32.9	89.56	427.4	-164.2	871.9	805.5	66.34	13.143		
9,235.6	9,122.5	9,152.5	9,123.5	37.4	33.0	89.56	427.4	-164.2	871.9	805.3	66.58	13.095		
9,250.0	9,136.9	9,166.8	9,137.9	37.4	33.1	-90.10	427.4	-164.2	871.9	805.2	66.68	13.076		
9,275.0	9,161.8	9,191.8	9,162.8	37.5	33.2	-90.19	427.4	-164.2	871.9	805.0	66.85	13.043		
9,300.0	9,186.7	9,216.6	9,187.7	37.5	33.3	-90.37	427.4	-164.2	871.9	804.9	67.02	13.010		
9,325.0	9,211.4	9,241.3	9,212.4	37.6	33.4	-90.62	427.4	-164.2	871.9	804.7	67.19	12.978		
9,350.0	9,235.8	9,265.7	9,236.8	37.6	33.4	-90.96	427.4	-164.2	872.0	804.6	67.35	12.946		
9,375.0	9,259.9	9,289.9	9,260.9	37.7	33.5	-91.36	427.4	-164.2	872.1	804.6	67.52	12.916		
9,400.0	9,283.6	9,313.6	9,284.6	37.8	33.6	-91.82	427.4	-164.2	872.4	804.7	67.69	12.887		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,425.0	9,306.9	9,336.9	9,307.9	37.8	33.7	-92.33	427.4	-164.2	872.7	804.9	67.86	12.861		
9,450.0	9,329.7	9,359.7	9,330.7	37.8	33.8	-92.88	427.4	-164.2	873.2	805.2	68.02	12.837		
9,475.0	9,352.0	9,381.9	9,353.0	37.9	33.8	-93.46	427.4	-164.2	873.9	805.7	68.19	12.817		
9,500.0	9,373.6	9,403.5	9,374.6	37.9	33.9	-94.06	427.4	-164.2	874.9	806.5	68.35	12.800		
9,525.0	9,394.5	9,424.4	9,395.5	37.9	34.0	-94.66	427.4	-164.2	876.1	807.6	68.51	12.788		
9,550.0	9,414.6	9,444.6	9,415.6	38.0	34.1	-95.24	427.4	-164.2	877.7	809.0	68.67	12.782		
9,575.0	9,434.0	9,464.0	9,435.0	38.0	34.1	-95.80	427.4	-164.2	879.7	810.9	68.82	12.782		
9,600.0	9,452.5	9,482.5	9,453.5	38.0	34.2	-96.33	427.4	-164.2	882.1	813.1	68.97	12.789		
9,625.0	9,470.1	9,500.1	9,471.1	38.0	34.3	-96.79	427.4	-164.2	884.9	815.8	69.12	12.803		
9,650.0	9,486.8	9,516.7	9,487.8	38.0	34.3	-97.19	427.4	-164.2	888.3	819.0	69.26	12.826		
9,675.0	9,502.4	9,532.4	9,503.4	38.0	34.4	-97.50	427.4	-164.2	892.2	822.8	69.40	12.857		
9,700.0	9,517.0	9,547.0	9,518.0	38.0	34.4	-97.72	427.4	-164.2	896.8	827.2	69.53	12.898		
9,725.0	9,530.6	9,560.5	9,531.6	38.0	34.5	-97.83	427.4	-164.2	901.9	832.3	69.65	12.949		
9,750.0	9,543.0	9,573.0	9,544.0	38.0	34.5	-97.82	427.4	-164.2	907.7	838.0	69.77	13.010		
9,775.0	9,554.3	9,584.2	9,555.3	38.0	34.6	-97.67	427.4	-164.2	914.2	844.3	69.88	13.081		
9,800.0	9,564.3	9,594.3	9,565.3	38.0	34.6	-97.38	427.4	-164.2	921.3	851.3	69.99	13.164		
9,825.0	9,573.2	9,603.2	9,574.2	38.0	34.6	-96.93	427.4	-164.2	929.1	859.1	70.08	13.258		
9,850.0	9,580.8	9,610.8	9,581.8	38.0	34.7	-96.33	427.4	-164.2	937.6	867.5	70.17	13.363		
9,875.0	9,587.2	9,617.2	9,588.2	38.0	34.7	-95.55	427.4	-164.2	946.8	876.6	70.24	13.479		
9,900.0	9,592.3	9,622.3	9,593.3	37.9	34.7	-94.60	427.4	-164.2	956.6	886.3	70.31	13.606		
9,925.0	9,596.1	9,626.1	9,597.1	37.9	34.7	-93.48	427.4	-164.2	967.0	896.7	70.36	13.744		
9,950.0	9,598.6	9,628.6	9,599.6	37.9	34.7	-92.17	427.4	-164.2	978.0	907.6	70.40	13.892		
9,975.0	9,599.8	9,629.8	9,600.8	37.9	34.7	-90.68	427.4	-164.2	989.6	919.2	70.44	14.049		
9,985.6	9,600.0	9,629.9	9,601.0	37.9	34.7	-90.00	427.4	-164.2	994.7	924.2	70.45	14.119		
10,000.0	9,600.0	9,629.9	9,601.0	37.9	34.7	-90.00	427.4	-164.2	1,001.7	931.2	70.46	14.216		
10,100.0	9,600.0	9,629.9	9,601.0	37.9	34.7	-90.00	427.4	-164.2	1,054.5	984.0	70.55	14.948		
10,200.0	9,600.0	9,629.9	9,601.0	38.0	34.7	-90.00	427.4	-164.2	1,113.8	1,043.2	70.61	15.775		
10,300.0	9,600.0	9,629.9	9,601.0	38.1	34.7	-90.00	427.4	-164.2	1,178.7	1,108.0	70.65	16.683		
10,400.0	9,600.0	9,629.9	9,601.0	38.3	34.7	-90.00	427.4	-164.2	1,248.2	1,177.5	70.68	17.658		
10,500.0	9,600.0	9,629.9	9,601.0	38.7	34.7	-90.00	427.4	-164.2	1,321.6	1,250.9	70.71	18.691		
10,600.0	9,600.0	9,629.9	9,601.0	39.1	34.7	-90.00	427.4	-164.2	1,398.3	1,327.6	70.72	19.772		
10,700.0	9,600.0	9,629.9	9,601.0	39.6	34.7	-90.00	427.4	-164.2	1,477.8	1,407.0	70.73	20.894		
10,800.0	9,600.0	9,629.9	9,601.0	40.1	34.7	-90.00	427.4	-164.2	1,559.6	1,488.9	70.73	22.049		
10,900.0	9,600.0	9,629.9	9,601.0	40.8	34.7	-90.00	427.4	-164.2	1,643.5	1,572.8	70.74	23.234		
11,000.0	9,600.0	9,629.9	9,601.0	41.5	34.7	-90.00	427.4	-164.2	1,729.1	1,658.3	70.74	24.443		
11,100.0	9,600.0	12,577.2	11,160.0	42.3	45.5	-150.78	-1,165.7	-154.5	1,786.2	1,723.5	62.73	28.473		
11,200.0	9,600.0	12,677.2	11,160.0	43.1	46.4	-150.78	-1,265.7	-153.9	1,786.2	1,722.4	63.89	27.959		
11,300.0	9,600.0	12,777.2	11,160.0	44.0	47.2	-150.78	-1,365.7	-153.3	1,786.2	1,721.1	65.09	27.443		
11,400.0	9,600.0	12,877.2	11,160.0	44.9	48.1	-150.78	-1,465.7	-152.7	1,786.2	1,719.9	66.34	26.927		
11,500.0	9,600.0	12,977.2	11,160.0	45.9	49.1	-150.78	-1,565.7	-152.1	1,786.2	1,718.6	67.63	26.413		
11,600.0	9,600.0	13,077.2	11,160.0	46.9	50.1	-150.78	-1,665.7	-151.5	1,786.2	1,717.3	68.96	25.903		
11,700.0	9,600.0	13,177.2	11,160.0	47.9	51.1	-150.78	-1,765.7	-150.9	1,786.2	1,715.9	70.33	25.399		
11,800.0	9,600.0	13,277.2	11,160.0	49.0	52.2	-150.78	-1,865.7	-150.3	1,786.2	1,714.5	71.73	24.902		
11,900.0	9,600.0	13,377.2	11,160.0	50.1	53.2	-150.78	-1,965.7	-149.7	1,786.2	1,713.1	73.17	24.412		
12,000.0	9,600.0	13,477.2	11,160.0	51.2	54.4	-150.78	-2,065.7	-149.1	1,786.2	1,711.6	74.64	23.931		
12,100.0	9,600.0	13,577.2	11,160.0	52.4	55.5	-150.78	-2,165.7	-148.5	1,786.2	1,710.1	76.14	23.459		
12,200.0	9,600.0	13,677.2	11,160.0	53.6	56.7	-150.78	-2,265.7	-147.9	1,786.2	1,708.6	77.67	22.997		
12,300.0	9,600.0	13,777.2	11,160.0	54.8	57.8	-150.78	-2,365.7	-147.2	1,786.2	1,707.0	79.23	22.545		
12,400.0	9,600.0	13,877.2	11,160.0	56.1	59.1	-150.78	-2,465.7	-146.6	1,786.2	1,705.4	80.81	22.104		
12,500.0	9,600.0	13,977.2	11,160.0	57.3	60.3	-150.78	-2,565.7	-146.0	1,786.2	1,703.8	82.42	21.673		
12,600.0	9,600.0	14,077.2	11,160.0	58.6	61.5	-150.78	-2,665.7	-145.4	1,786.2	1,702.2	84.04	21.253		
12,700.0	9,600.0	14,177.2	11,160.0	59.9	62.8	-150.78	-2,765.7	-144.8	1,786.2	1,700.5	85.69	20.844		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
12,800.0	9,600.0	14,277.2	11,160.0	61.2	64.1	-150.78	-2,865.7	-144.2	1,786.2	1,698.9	87.36	20.446		
12,900.0	9,600.0	14,377.2	11,160.0	62.5	65.4	-150.78	-2,965.7	-143.6	1,786.2	1,697.2	89.05	20.059		
13,000.0	9,600.0	14,477.2	11,160.0	63.9	66.7	-150.78	-3,065.7	-143.0	1,786.2	1,695.5	90.76	19.681		
13,100.0	9,600.0	14,577.2	11,160.0	65.2	68.1	-150.78	-3,165.7	-142.4	1,786.2	1,693.8	92.48	19.315		
13,200.0	9,600.0	14,677.2	11,160.0	66.6	69.4	-150.78	-3,265.7	-141.8	1,786.2	1,692.0	94.22	18.958		
13,300.0	9,600.0	14,777.2	11,160.0	68.0	70.8	-150.78	-3,365.7	-141.2	1,786.2	1,690.3	95.97	18.612		
13,400.0	9,600.0	14,877.2	11,160.0	69.4	72.1	-150.78	-3,465.7	-140.6	1,786.2	1,688.5	97.74	18.275		
13,500.0	9,600.0	14,977.2	11,160.0	70.8	73.5	-150.78	-3,565.7	-140.0	1,786.2	1,686.7	99.52	17.948		
13,600.0	9,600.0	15,077.2	11,160.0	72.2	74.9	-150.78	-3,665.7	-139.3	1,786.2	1,684.9	101.32	17.630		
13,700.0	9,600.0	15,177.2	11,160.0	73.6	76.3	-150.78	-3,765.7	-138.7	1,786.2	1,683.1	103.12	17.322		
13,800.0	9,600.0	15,277.2	11,160.0	75.1	77.7	-150.78	-3,865.7	-138.1	1,786.2	1,681.3	104.94	17.021		
13,900.0	9,600.0	15,377.2	11,160.0	76.5	79.2	-150.78	-3,965.7	-137.5	1,786.2	1,679.5	106.77	16.730		
14,000.0	9,600.0	15,477.2	11,160.0	78.0	80.6	-150.78	-4,065.7	-136.9	1,786.2	1,677.6	108.61	16.447		
14,100.0	9,600.0	15,577.2	11,160.0	79.4	82.0	-150.78	-4,165.7	-136.3	1,786.2	1,675.8	110.46	16.171		
14,200.0	9,600.0	15,677.2	11,160.0	80.9	83.5	-150.78	-4,265.7	-135.7	1,786.2	1,673.9	112.32	15.904		
14,300.0	9,600.0	15,777.2	11,160.0	82.4	84.9	-150.78	-4,365.7	-135.1	1,786.2	1,672.1	114.18	15.644		
14,400.0	9,600.0	15,877.2	11,160.0	83.8	86.4	-150.78	-4,465.7	-134.5	1,786.2	1,670.2	116.06	15.391		
14,500.0	9,600.0	15,977.2	11,160.0	85.3	87.9	-150.78	-4,565.7	-133.9	1,786.3	1,668.3	117.94	15.145		
14,600.0	9,600.0	16,077.2	11,160.0	86.8	89.3	-150.78	-4,665.7	-133.3	1,786.3	1,666.4	119.83	14.906		
14,606.8	9,600.0	16,084.0	11,160.0	86.9	89.4	-150.78	-4,672.5	-133.2	1,786.3	1,666.3	119.96	14.890		
14,700.0	9,600.0	16,165.8	11,160.0	88.3	90.6	-150.78	-4,754.3	-132.7	1,786.3	1,664.8	121.52	14.700		
14,800.0	9,600.0	16,165.8	11,160.0	89.8	90.6	-150.78	-4,754.3	-132.7	1,789.7	1,668.3	121.41	14.741		
14,900.0	9,600.0	16,165.8	11,160.0	91.3	90.6	-150.78	-4,754.3	-132.7	1,798.7	1,677.6	121.09	14.855		
15,000.0	9,600.0	16,165.8	11,160.0	92.8	90.6	-150.78	-4,754.3	-132.7	1,813.2	1,692.6	120.55	15.041		
15,100.0	9,600.0	16,165.8	11,160.0	94.4	90.6	-150.78	-4,754.3	-132.7	1,833.0	1,713.2	119.82	15.298		
15,200.0	9,600.0	16,165.8	11,160.0	95.9	90.6	-150.78	-4,754.3	-132.7	1,858.0	1,739.1	118.92	15.623		
15,300.0	9,600.0	16,165.8	11,160.0	97.4	90.6	-150.78	-4,754.3	-132.7	1,888.0	1,770.1	117.88	16.016		
15,400.0	9,600.0	16,165.8	11,160.0	98.9	90.6	-150.78	-4,754.3	-132.7	1,922.7	1,806.0	116.72	16.473		
15,500.0	9,600.0	16,165.8	11,160.0	100.5	90.6	-150.78	-4,754.3	-132.7	1,961.9	1,846.4	115.47	16.991		
15,600.0	9,600.0	16,165.8	11,160.0	102.0	90.6	-150.78	-4,754.3	-132.7	2,005.3	1,891.2	114.15	17.568		
15,700.0	9,600.0	16,165.8	11,160.0	103.6	90.6	-150.78	-4,754.3	-132.7	2,052.7	1,939.9	112.79	18.200		
15,800.0	9,600.0	16,165.8	11,160.0	105.1	90.6	-150.78	-4,754.3	-132.7	2,103.8	1,992.4	111.41	18.883		
15,900.0	9,600.0	16,165.8	11,160.0	106.7	90.6	-150.78	-4,754.3	-132.7	2,158.3	2,048.2	110.03	19.616		
16,000.0	9,600.0	16,165.8	11,160.0	108.2	90.6	-150.78	-4,754.3	-132.7	2,215.9	2,107.3	108.66	20.393		
16,100.0	9,600.0	16,165.8	11,160.0	109.8	90.6	-150.78	-4,754.3	-132.7	2,276.5	2,169.2	107.32	21.212		
16,200.0	9,600.0	16,165.8	11,160.0	111.3	90.6	-150.78	-4,754.3	-132.7	2,339.9	2,233.8	106.02	22.070		
16,300.0	9,600.0	16,165.8	11,160.0	112.9	90.6	-150.78	-4,754.3	-132.7	2,405.7	2,300.9	104.76	22.963		
16,400.0	9,600.0	16,165.8	11,160.0	114.4	90.6	-150.78	-4,754.3	-132.7	2,473.8	2,370.2	103.55	23.889		
16,500.0	9,600.0	16,165.8	11,160.0	116.0	90.6	-150.78	-4,754.3	-132.7	2,544.0	2,441.6	102.40	24.844		
16,600.0	9,600.0	16,165.8	11,160.0	117.6	90.6	-150.78	-4,754.3	-132.7	2,616.1	2,514.8	101.30	25.826		
16,700.0	9,600.0	16,165.8	11,160.0	119.1	90.6	-150.78	-4,754.3	-132.7	2,690.0	2,589.8	100.25	26.833		
16,800.0	9,600.0	16,165.8	11,160.0	120.7	90.6	-150.78	-4,754.3	-132.7	2,765.6	2,666.3	99.26	27.861		
16,900.0	9,600.0	16,165.8	11,160.0	122.3	90.6	-150.78	-4,754.3	-132.7	2,842.7	2,744.3	98.33	28.909		
17,000.0	9,600.0	16,165.8	11,160.0	123.9	90.6	-150.78	-4,754.3	-132.7	2,921.1	2,823.7	97.45	29.975		
17,100.0	9,600.0	16,165.8	11,160.0	125.4	90.6	-150.78	-4,754.3	-132.7	3,000.9	2,904.3	96.63	31.057		
17,200.0	9,600.0	16,165.8	11,160.0	127.0	90.6	-150.78	-4,754.3	-132.7	3,081.8	2,986.0	95.85	32.153		
17,300.0	9,600.0	16,165.8	11,160.0	128.6	90.6	-150.78	-4,754.3	-132.7	3,163.8	3,068.7	95.12	33.261		
17,400.0	9,600.0	16,165.8	11,160.0	130.2	90.6	-150.78	-4,754.3	-132.7	3,246.9	3,152.4	94.44	34.381		
17,500.0	9,600.0	16,165.8	11,160.0	131.8	90.6	-150.78	-4,754.3	-132.7	3,330.8	3,237.0	93.80	35.510		
17,600.0	9,600.0	16,165.8	11,160.0	133.3	90.6	-150.78	-4,754.3	-132.7	3,415.7	3,322.5	93.20	36.648		
17,700.0	9,600.0	16,165.8	11,160.0	134.9	90.6	-150.78	-4,754.3	-132.7	3,501.3	3,408.6	92.64	37.794		
17,800.0	9,600.0	16,165.8	11,160.0	136.5	90.6	-150.78	-4,754.3	-132.7	3,587.7	3,495.5	92.12	38.946		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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: TOUR BUS PROJECT - TOUR BUS 23 FED COM 604H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
17,900.0	9,600.0	16,165.8	11,160.0	138.1	90.6	-150.78	-4,754.3	-132.7	3,674.7	3,583.1	91.63	40.103	
18,000.0	9,600.0	16,165.8	11,160.0	139.7	90.6	-150.78	-4,754.3	-132.7	3,762.4	3,671.2	91.18	41.266	
18,100.0	9,600.0	16,165.8	11,160.0	141.3	90.6	-150.78	-4,754.3	-132.7	3,850.7	3,760.0	90.75	42.432	
18,200.0	9,600.0	16,165.8	11,160.0	142.9	90.6	-150.78	-4,754.3	-132.7	3,939.6	3,849.2	90.35	43.602	
18,300.0	9,600.0	16,165.8	11,160.0	144.5	90.6	-150.78	-4,754.3	-132.7	4,029.0	3,939.0	89.98	44.775	
18,400.0	9,600.0	16,165.8	11,160.0	146.1	90.6	-150.78	-4,754.3	-132.7	4,118.8	4,029.2	89.64	45.950	
18,500.0	9,600.0	16,165.8	11,160.0	147.7	90.6	-150.78	-4,754.3	-132.7	4,209.2	4,119.9	89.32	47.127	
18,600.0	9,600.0	16,165.8	11,160.0	149.3	90.6	-150.78	-4,754.3	-132.7	4,299.9	4,210.9	89.02	48.306	
18,700.0	9,600.0	16,165.8	11,160.0	150.9	90.6	-150.78	-4,754.3	-132.7	4,391.1	4,302.4	88.74	49.485	
18,800.0	9,600.0	16,165.8	11,160.0	152.5	90.6	-150.78	-4,754.3	-132.7	4,482.6	4,394.2	88.48	50.664	
18,900.0	9,600.0	16,165.8	11,160.0	154.1	90.6	-150.78	-4,754.3	-132.7	4,574.5	4,486.3	88.24	51.844	
19,000.0	9,600.0	16,165.8	11,160.0	155.7	90.6	-150.78	-4,754.3	-132.7	4,666.7	4,578.7	88.01	53.024	
19,100.0	9,600.0	16,165.8	11,160.0	157.3	90.6	-150.78	-4,754.3	-132.7	4,759.3	4,671.5	87.80	54.203	
19,200.0	9,600.0	16,165.8	11,160.0	158.9	90.6	-150.78	-4,754.3	-132.7	4,852.1	4,764.5	87.61	55.382	
19,300.0	9,600.0	16,165.8	11,160.0	160.5	90.6	-150.78	-4,754.3	-132.7	4,945.2	4,857.8	87.43	56.560	
19,400.0	9,600.0	16,165.8	11,160.0	162.1	90.6	-150.78	-4,754.3	-132.7	5,038.6	4,951.3	87.27	57.737	
19,500.0	9,600.0	16,165.8	11,160.0	163.7	90.6	-150.78	-4,754.3	-132.7	5,132.2	5,045.1	87.12	58.912	
19,600.0	9,600.0	16,165.8	11,160.0	165.3	90.6	-150.78	-4,754.3	-132.7	5,226.1	5,139.1	86.98	60.086	
19,700.0	9,600.0	16,165.8	11,160.0	166.9	90.6	-150.78	-4,754.3	-132.7	5,320.2	5,233.3	86.85	61.259	
19,800.0	9,600.0	16,165.8	11,160.0	168.6	90.6	-150.78	-4,754.3	-132.7	5,414.5	5,327.8	86.73	62.430	
19,871.5	9,600.0	16,165.8	11,160.0	169.7	90.6	-150.78	-4,754.3	-132.7	5,482.0	5,395.4	86.65	63.266	

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #503H - OWB - OWB														Offset Site Error:	0.0 usft
Survey Program: 25-MWD+HRGM														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	186.0	186.0	0.0	0.0	-79.01	317.2	-1,633.6	1,664.1						
100.0	100.0	278.3	278.3	0.3	0.3	-79.01	317.5	-1,634.4	1,665.0	1,664.4	0.56	2,968.826			
200.0	200.0	382.2	382.1	0.6	1.3	-79.03	317.0	-1,635.5	1,666.0	1,664.2	1.86	893.884			
300.0	300.0	486.7	486.7	1.0	1.9	-79.01	317.6	-1,636.1	1,666.7	1,663.8	2.82	591.983			
400.0	400.0	592.8	592.8	1.3	2.2	-79.01	317.6	-1,636.2	1,666.7	1,663.2	3.53	471.557			
500.0	500.0	687.1	687.1	1.7	2.5	-79.03	317.1	-1,636.6	1,667.1	1,662.9	4.19	397.636			
600.0	600.0	782.1	782.1	2.1	2.8	-79.02	317.7	-1,636.9	1,667.5	1,662.6	4.86	343.428			
700.0	700.0	876.1	876.1	2.4	3.1	-79.03	317.6	-1,638.1	1,668.7	1,663.2	5.47	305.062			
800.0	800.0	997.9	997.9	2.8	3.4	-79.06	316.6	-1,638.6	1,668.9	1,662.8	6.10	273.713			
892.2	892.2	1,086.3	1,086.2	3.1	3.5	-79.08	316.1	-1,638.4	1,668.6	1,662.0	6.60	253.010			
900.0	900.0	1,093.2	1,093.1	3.1	3.6	-79.08	316.0	-1,638.4	1,668.6	1,662.0	6.64	251.449			
1,000.0	1,000.0	1,202.2	1,202.1	3.5	3.8	-79.11	315.3	-1,638.6	1,668.7	1,661.5	7.20	231.912			
1,089.3	1,089.3	1,283.3	1,283.3	3.8	3.9	-79.11	315.2	-1,638.3	1,668.3	1,660.6	7.75	215.348			
1,100.0	1,100.0	1,292.3	1,292.2	3.8	4.0	-79.11	315.1	-1,638.3	1,668.3	1,660.5	7.81	213.565			
1,200.0	1,200.0	1,399.4	1,399.3	4.2	4.1	-79.16	313.7	-1,638.2	1,667.9	1,659.6	8.32	200.452			
1,210.0	1,210.0	1,404.7	1,404.6	4.2	4.1	-79.16	313.7	-1,638.2	1,667.9	1,659.6	8.36	199.528			
1,300.0	1,300.0	1,493.7	1,493.7	4.6	4.3	-79.19	312.9	-1,638.5	1,668.1	1,659.3	8.83	188.983			
1,400.0	1,400.0	1,592.6	1,592.6	4.9	4.5	-79.21	312.3	-1,638.6	1,668.1	1,658.8	9.35	178.432			
1,500.0	1,500.0	1,709.8	1,709.8	5.3	4.7	-79.24	311.4	-1,638.2	1,667.6	1,657.8	9.88	168.808			
1,600.0	1,600.0	1,805.5	1,805.4	5.6	4.9	-79.25	310.8	-1,637.6	1,666.9	1,656.5	10.37	160.720			
1,700.0	1,700.0	1,900.0	1,899.9	6.0	5.1	-79.28	309.8	-1,637.0	1,666.1	1,655.2	10.90	152.863			
1,742.8	1,742.8	1,936.9	1,936.8	6.2	5.2	-79.30	309.2	-1,637.0	1,665.9	1,654.8	11.14	149.566			
1,800.0	1,800.0	1,977.3	1,977.2	6.4	5.3	-79.34	308.2	-1,637.3	1,666.2	1,654.7	11.43	145.760			
1,900.0	1,900.0	2,050.5	2,050.4	6.7	5.5	-79.42	306.1	-1,639.1	1,668.0	1,656.1	11.92	139.973			
2,000.0	2,000.0	2,126.5	2,126.3	7.1	5.7	-79.53	303.4	-1,642.2	1,671.4	1,659.0	12.38	134.963			
2,100.0	2,100.0	2,208.7	2,208.3	7.4	5.9	-11.78	299.9	-1,646.8	1,674.3	1,661.5	12.86	130.169			
2,200.0	2,199.8	2,303.5	2,302.7	7.8	6.1	-12.00	295.4	-1,652.7	1,674.5	1,661.2	13.37	125.269			
2,300.0	2,299.5	2,400.8	2,399.7	8.1	6.4	-12.26	290.8	-1,658.9	1,671.5	1,657.6	13.89	120.344			
2,400.0	2,398.7	2,491.2	2,489.9	8.5	6.7	-12.54	286.9	-1,665.0	1,665.4	1,651.0	14.41	115.595			
2,500.0	2,497.5	2,585.6	2,584.0	8.9	6.9	-12.86	283.1	-1,671.7	1,656.6	1,641.6	14.95	110.822			
2,600.0	2,595.6	2,690.0	2,688.0	9.2	7.2	-13.25	279.3	-1,679.0	1,644.2	1,628.7	15.53	105.895			
2,700.0	2,693.4	2,792.9	2,790.6	9.6	7.5	-13.58	276.0	-1,685.8	1,629.9	1,613.8	16.11	101.159			
2,800.0	2,791.3	2,903.8	2,901.3	10.0	7.9	-13.92	272.8	-1,692.6	1,615.3	1,598.6	16.73	96.566			
2,900.0	2,889.1	3,015.4	3,012.7	10.4	8.2	-14.26	269.9	-1,698.4	1,599.8	1,582.5	17.35	92.223			
3,000.0	2,986.9	3,109.6	3,106.7	10.8	8.5	-14.56	267.2	-1,703.1	1,584.0	1,566.1	17.93	88.345			
3,100.0	3,084.7	3,193.1	3,190.0	11.3	8.7	-14.83	264.7	-1,707.7	1,569.0	1,550.5	18.50	84.805			
3,200.0	3,182.5	3,278.5	3,275.3	11.7	9.0	-15.12	262.0	-1,713.3	1,554.9	1,535.8	19.09	81.444			
3,300.0	3,280.3	3,356.9	3,353.4	12.1	9.3	-15.41	259.4	-1,719.2	1,541.8	1,522.1	19.68	78.332			
3,400.0	3,378.1	3,435.8	3,431.9	12.5	9.6	-15.72	256.2	-1,726.4	1,530.3	1,510.0	20.29	75.422			
3,500.0	3,476.0	3,531.2	3,526.7	13.0	9.9	-16.12	252.1	-1,735.9	1,519.5	1,498.6	20.96	72.501			
3,600.0	3,573.8	3,638.3	3,633.2	13.4	10.3	-16.58	247.5	-1,746.2	1,508.7	1,487.0	21.68	69.599			
3,700.0	3,671.6	3,744.5	3,738.8	13.9	10.6	-17.03	243.0	-1,755.9	1,497.3	1,474.9	22.40	66.854			
3,800.0	3,769.4	3,847.2	3,841.1	14.3	11.0	-17.45	239.2	-1,764.8	1,485.7	1,462.5	23.11	64.283			
3,900.0	3,867.2	3,955.8	3,949.3	14.8	11.4	-17.89	235.4	-1,773.7	1,473.7	1,449.9	23.85	61.793			
4,000.0	3,965.0	4,059.4	4,052.5	15.2	11.7	-18.31	231.9	-1,781.7	1,461.2	1,436.7	24.57	59.467			
4,100.0	4,062.8	4,165.0	4,157.8	15.7	12.1	-18.75	228.4	-1,789.4	1,448.5	1,423.2	25.30	57.242			
4,200.0	4,160.7	4,265.9	4,258.3	16.1	12.5	-19.18	224.9	-1,796.4	1,435.5	1,409.4	26.02	55.159			
4,300.0	4,258.5	4,368.4	4,360.5	16.6	12.8	-19.63	221.3	-1,803.4	1,422.3	1,395.6	26.75	53.168			
4,400.0	4,356.3	4,472.4	4,464.3	17.1	13.2	-20.08	217.9	-1,810.1	1,409.0	1,381.5	27.49	51.263			
4,500.0	4,454.1	4,574.8	4,566.4	17.5	13.5	-20.53	214.5	-1,816.2	1,395.2	1,367.0	28.22	49.451			
4,600.0	4,551.9	4,665.3	4,656.8	18.0	13.9	-20.93	211.7	-1,821.7	1,381.7	1,352.8	28.92	47.776			
4,700.0	4,649.7	4,748.8	4,740.0	18.4	14.2	-21.30	209.3	-1,827.7	1,369.2	1,339.6	29.62	46.227			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #503H - OWB - OWB													Offset Site Error:	0.0 usft
Survey Program: 25-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,800.0	4,747.5	4,838.8	4,829.7	18.9	14.5	-21.69	207.0	-1,834.9	1,357.8	1,327.4	30.35	44.731		
4,900.0	4,845.4	4,944.0	4,934.5	19.4	14.8	-22.14	204.5	-1,843.4	1,346.5	1,315.3	31.15	43.232		
5,000.0	4,943.2	5,051.9	5,042.1	19.9	15.2	-22.61	202.3	-1,851.3	1,334.4	1,302.5	31.94	41.774		
5,100.0	5,041.0	5,150.5	5,140.4	20.3	15.6	-23.02	200.7	-1,858.3	1,322.3	1,289.6	32.71	40.420		
5,200.0	5,138.8	5,250.5	5,240.2	20.8	15.9	-23.43	199.3	-1,865.5	1,310.2	1,276.7	33.49	39.121		
5,300.0	5,236.6	5,350.4	5,339.8	21.3	16.2	-23.85	198.1	-1,872.4	1,298.0	1,263.8	34.27	37.876		
5,400.0	5,334.4	5,469.8	5,459.0	21.7	16.6	-24.34	197.0	-1,880.1	1,285.4	1,250.3	35.10	36.621		
5,500.0	5,432.3	5,599.5	5,588.5	22.2	16.9	-24.85	196.9	-1,885.5	1,270.5	1,234.7	35.88	35.412		
5,600.0	5,530.1	5,711.0	5,700.0	22.7	17.1	-25.23	198.2	-1,888.2	1,254.0	1,217.4	36.55	34.306		
5,700.0	5,627.9	5,813.7	5,802.7	23.2	17.3	-25.59	199.7	-1,889.9	1,236.7	1,199.5	37.19	33.254		
5,800.0	5,725.7	5,911.7	5,900.7	23.6	17.4	-25.96	200.6	-1,891.5	1,219.4	1,181.6	37.83	32.233		
5,900.0	5,823.5	6,006.5	5,995.5	24.1	17.7	-26.42	199.5	-1,893.0	1,202.3	1,163.8	38.50	31.228		
6,000.0	5,921.3	6,102.5	6,091.4	24.6	17.9	-26.96	197.4	-1,894.7	1,185.6	1,146.4	39.18	30.261		
6,100.0	6,019.1	6,199.3	6,188.1	25.1	18.2	-27.51	195.3	-1,896.6	1,169.1	1,129.2	39.87	29.325		
6,200.0	6,117.0	6,294.8	6,283.7	25.5	18.5	-28.08	193.0	-1,898.5	1,152.8	1,112.3	40.56	28.421		
6,300.0	6,214.8	6,402.8	6,391.5	26.0	18.8	-28.72	190.7	-1,900.5	1,136.5	1,095.3	41.26	27.543		
6,400.0	6,312.6	6,504.2	6,492.9	26.5	19.0	-29.30	189.6	-1,901.7	1,119.5	1,077.6	41.96	26.683		
6,500.0	6,410.4	6,603.7	6,592.5	27.0	19.3	-29.86	189.0	-1,902.8	1,102.5	1,059.8	42.66	25.846		
6,600.0	6,508.2	6,707.8	6,696.5	27.5	19.5	-30.50	187.7	-1,903.5	1,085.2	1,041.9	43.30	25.064		
6,700.0	6,606.0	6,809.7	6,798.4	27.9	19.7	-31.22	185.2	-1,903.5	1,067.7	1,023.8	43.87	24.338		
6,800.0	6,703.8	6,919.6	6,908.3	28.4	19.8	-32.02	182.8	-1,902.6	1,049.4	1,005.0	44.33	23.673		
6,900.0	6,801.7	7,019.5	7,008.2	28.9	19.7	-32.74	181.3	-1,901.1	1,030.5	985.8	44.73	23.036		
7,000.0	6,899.5	7,113.1	7,101.7	29.4	19.7	-33.38	180.9	-1,900.1	1,011.9	966.8	45.14	22.419		
7,100.0	6,997.3	7,208.2	7,196.9	29.9	19.5	-34.00	181.2	-1,899.5	993.9	948.4	45.53	21.830		
7,200.0	7,095.1	7,306.5	7,295.2	30.4	19.4	-34.67	181.6	-1,899.0	976.0	930.1	45.91	21.259		
7,300.0	7,192.9	7,403.1	7,391.8	30.8	19.2	-35.34	182.1	-1,898.5	958.3	912.0	46.31	20.694		
7,376.3	7,267.6	7,475.7	7,464.4	31.2	19.1	-35.87	182.3	-1,898.3	945.0	898.4	46.62	20.268		
7,400.0	7,290.8	7,498.8	7,487.4	31.3	19.1	-35.99	182.3	-1,898.2	941.0	894.2	46.72	20.140		
7,500.0	7,389.1	7,597.5	7,586.2	31.8	19.0	-36.46	182.5	-1,898.0	925.9	878.8	47.11	19.652		
7,600.0	7,488.0	7,695.9	7,684.5	32.2	18.9	-36.84	182.9	-1,897.7	913.6	866.1	47.50	19.235		
7,700.0	7,587.3	7,794.9	7,783.5	32.6	18.8	-37.13	183.3	-1,897.6	904.2	856.4	47.87	18.890		
7,800.0	7,687.0	7,894.5	7,883.1	33.0	18.7	-37.33	183.8	-1,897.5	897.7	849.5	48.21	18.620		
7,900.0	7,786.9	7,995.8	7,984.5	33.3	18.6	-37.42	184.4	-1,897.3	893.9	845.4	48.51	18.427		
7,976.3	7,863.2	8,072.9	8,061.5	33.5	18.5	-105.31	185.0	-1,897.1	892.8	844.0	48.71	18.328		
8,000.0	7,886.9	8,096.6	8,085.3	33.6	18.5	-105.30	185.2	-1,897.1	892.6	843.9	48.77	18.305		
8,100.0	7,986.9	8,197.1	8,185.7	33.9	18.4	-105.24	186.2	-1,896.8	892.1	843.1	49.01	18.203		
8,200.0	8,086.9	8,298.9	8,287.5	34.2	18.3	-105.19	187.2	-1,896.4	891.5	842.3	49.24	18.107		
8,300.0	8,186.9	8,400.6	8,389.2	34.5	18.2	-105.12	188.4	-1,895.9	890.7	841.2	49.45	18.013		
8,400.0	8,286.9	8,503.8	8,492.4	34.8	18.0	-105.06	189.7	-1,895.0	889.5	839.9	49.62	17.926		
8,500.0	8,386.9	8,605.8	8,594.4	35.1	17.9	-105.01	190.8	-1,893.8	888.2	838.4	49.78	17.840		
8,600.0	8,486.9	8,707.5	8,696.1	35.4	17.7	-104.96	192.0	-1,892.3	886.4	836.4	49.94	17.749		
8,700.0	8,586.9	8,801.8	8,790.4	35.7	17.5	-104.91	193.0	-1,891.3	885.1	834.9	50.15	17.648		
8,800.0	8,686.9	8,905.4	8,893.9	36.0	17.4	-104.86	194.0	-1,890.3	883.9	833.6	50.32	17.566		
8,900.0	8,786.9	9,006.7	8,995.2	36.3	17.2	-104.83	195.0	-1,888.7	882.1	831.6	50.51	17.466		
9,000.0	8,886.9	9,101.2	9,089.7	36.6	17.2	-104.92	194.0	-1,887.2	880.9	830.1	50.79	17.345		
9,100.0	8,986.9	9,199.3	9,187.8	36.9	17.2	-105.07	191.9	-1,885.8	880.0	828.9	51.09	17.224		
9,200.0	9,086.9	9,300.7	9,289.2	37.2	17.2	-105.16	190.8	-1,884.6	879.2	827.8	51.36	17.118		
9,235.6	9,122.5	9,337.1	9,325.6	37.4	17.1	-105.18	190.6	-1,884.2	878.8	827.4	51.45	17.082		
9,250.0	9,136.9	9,351.0	9,339.5	37.4	17.1	75.20	190.5	-1,884.0	878.6	827.1	51.48	17.066		
9,275.0	9,161.8	9,374.6	9,363.1	37.5	17.1	75.34	190.4	-1,883.8	878.0	826.5	51.54	17.037		
9,300.0	9,186.7	9,398.1	9,386.6	37.5	17.1	75.58	190.3	-1,883.6	877.2	825.6	51.58	17.007		
9,325.0	9,211.4	9,421.5	9,409.9	37.6	17.1	75.94	190.1	-1,883.4	876.0	824.4	51.60	16.977		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #503H - OWB - OWB													Offset Site Error:	0.0 usft
Survey Program: 25-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,350.0	9,235.8	9,445.0	9,433.4	37.6	17.1	76.40	189.8	-1,883.2	874.6	823.0	51.62	16.944		
9,375.0	9,259.9	9,468.7	9,457.1	37.7	17.1	76.98	189.6	-1,883.0	873.0	821.3	51.62	16.910		
9,400.0	9,283.6	9,492.0	9,480.5	37.8	17.1	77.66	189.4	-1,882.9	871.1	819.4	51.62	16.875		
9,425.0	9,306.9	9,515.0	9,503.4	37.8	17.1	78.42	189.2	-1,882.8	869.0	817.4	51.60	16.842		
9,450.0	9,329.7	9,537.2	9,525.6	37.8	17.2	79.27	188.9	-1,882.7	866.7	815.2	51.57	16.807		
9,475.0	9,352.0	9,558.6	9,547.0	37.9	17.2	80.17	188.7	-1,882.6	864.4	812.9	51.54	16.771		
9,500.0	9,373.6	9,579.4	9,567.8	37.9	17.2	81.13	188.5	-1,882.5	862.0	810.5	51.50	16.738		
9,525.0	9,394.5	9,599.5	9,588.0	37.9	17.2	82.13	188.3	-1,882.5	859.7	808.2	51.45	16.709		
9,550.0	9,414.6	9,619.0	9,607.4	38.0	17.3	83.16	188.1	-1,882.5	857.4	806.0	51.38	16.686		
9,575.0	9,434.0	9,637.6	9,626.1	38.0	17.3	84.20	188.0	-1,882.5	855.2	803.9	51.30	16.669		
9,600.0	9,452.5	9,655.5	9,644.0	38.0	17.3	85.23	187.8	-1,882.5	853.2	802.0	51.21	16.659		
9,625.0	9,470.1	9,673.5	9,661.9	38.0	17.4	86.29	187.6	-1,882.6	851.4	800.3	51.11	16.658		
9,650.0	9,486.8	9,690.6	9,679.0	38.0	17.4	87.32	187.4	-1,882.6	850.0	799.0	51.01	16.664		
9,675.0	9,502.4	9,706.8	9,695.2	38.0	17.4	88.29	187.2	-1,882.6	848.9	798.0	50.89	16.680		
9,700.0	9,517.0	9,722.0	9,710.5	38.0	17.4	89.20	186.9	-1,882.6	848.2	797.4	50.77	16.705		
9,725.0	9,530.6	9,746.2	9,734.6	38.0	17.5	90.59	186.3	-1,882.5	847.9	797.3	50.60	16.756 ES		
9,739.9	9,538.1	9,753.2	9,741.6	38.0	17.5	90.98	185.8	-1,882.3	847.8	797.3	50.53	16.779 CC		
9,750.0	9,543.0	9,768.2	9,756.6	38.0	17.5	91.83	185.0	-1,882.1	847.9	797.5	50.43	16.813		
9,775.0	9,554.3	9,782.0	9,770.3	38.0	17.5	92.56	183.9	-1,881.8	848.4	798.2	50.29	16.871		
9,800.0	9,564.3	9,796.5	9,784.7	38.0	17.5	93.27	182.3	-1,881.5	849.6	799.4	50.15	16.941		
9,825.0	9,573.2	9,813.4	9,801.5	38.0	17.5	94.07	180.0	-1,881.1	851.3	801.3	50.00	17.026		
9,850.0	9,580.8	9,833.8	9,821.5	38.0	17.6	95.01	176.4	-1,880.5	853.6	803.7	49.83	17.128		
9,875.0	9,587.2	9,860.4	9,847.4	38.0	17.6	96.25	170.3	-1,879.6	856.4	806.7	49.64	17.251		
9,900.0	9,592.3	9,873.4	9,859.9	37.9	17.7	96.62	166.8	-1,879.1	859.8	810.3	49.52	17.363		
9,925.0	9,596.1	9,889.1	9,874.9	37.9	17.7	97.08	162.1	-1,878.5	863.8	814.4	49.38	17.493		
9,950.0	9,598.6	9,905.0	9,889.9	37.9	17.7	97.47	156.8	-1,877.9	868.5	819.3	49.25	17.635		
9,975.0	9,599.8	9,950.3	9,931.5	37.9	17.8	99.56	139.0	-1,876.1	873.9	824.9	48.98	17.842		
9,985.6	9,600.0	9,957.2	9,937.6	37.9	17.8	99.69	135.9	-1,875.8	876.2	827.3	48.92	17.910		
10,000.0	9,600.0	9,966.9	9,946.2	37.9	17.9	100.26	131.4	-1,875.3	879.5	830.7	48.85	18.005		
10,100.0	9,600.0	10,012.0	9,985.3	37.9	18.0	102.84	108.9	-1,873.7	907.0	858.4	48.59	18.667		
10,200.0	9,600.0	10,043.0	10,011.5	38.0	18.1	104.53	92.4	-1,873.7	942.4	893.8	48.65	19.373		
10,300.0	9,600.0	10,212.6	10,144.7	38.1	18.6	112.57	-12.0	-1,877.2	983.6	935.4	48.20	20.406		
10,400.0	9,600.0	10,672.0	10,331.4	38.3	20.4	122.45	-420.0	-1,876.2	1,003.2	954.8	48.32	20.760		
10,500.0	9,600.0	10,797.0	10,336.8	38.7	21.1	122.64	-544.8	-1,877.7	1,006.9	957.5	49.36	20.398		
10,600.0	9,600.0	10,879.0	10,337.8	39.1	21.6	122.59	-626.7	-1,880.5	1,010.9	960.6	50.32	20.088		
10,700.0	9,600.0	10,986.2	10,340.2	39.6	22.5	122.57	-733.8	-1,884.0	1,015.4	963.9	51.55	19.697		
10,800.0	9,600.0	11,078.3	10,343.6	40.1	23.3	122.65	-825.9	-1,886.3	1,020.0	967.2	52.78	19.326		
10,900.0	9,600.0	11,176.2	10,348.3	40.8	24.2	122.79	-923.6	-1,888.4	1,025.0	970.9	54.12	18.939		
11,000.0	9,600.0	11,267.4	10,352.4	41.5	25.2	122.88	-1,014.7	-1,891.3	1,030.6	975.1	55.54	18.557		
11,100.0	9,600.0	11,367.6	10,356.1	42.3	26.2	122.91	-1,114.7	-1,895.4	1,036.5	979.4	57.11	18.149		
11,200.0	9,600.0	11,461.4	10,358.7	43.1	27.3	122.87	-1,208.3	-1,900.1	1,042.7	984.0	58.76	17.745		
11,300.0	9,600.0	11,564.2	10,362.0	44.0	28.4	122.84	-1,311.0	-1,905.6	1,049.5	988.9	60.54	17.336		
11,400.0	9,600.0	11,686.2	10,367.3	44.9	29.9	122.98	-1,432.8	-1,908.4	1,054.2	991.8	62.40	16.894		
11,500.0	9,600.0	11,812.1	10,372.1	45.9	31.4	123.14	-1,558.6	-1,909.4	1,057.5	993.2	64.30	16.447		
11,600.0	9,600.0	11,924.6	10,374.9	46.9	32.8	123.29	-1,671.0	-1,908.2	1,058.5	992.3	66.20	15.990		
11,700.0	9,600.0	12,023.6	10,376.3	47.9	34.1	123.36	-1,770.0	-1,907.3	1,059.0	990.9	68.13	15.545		
11,800.0	9,600.0	12,123.8	10,378.0	49.0	35.4	123.44	-1,870.2	-1,906.4	1,059.7	989.6	70.10	15.117		
11,900.0	9,600.0	12,228.5	10,379.4	50.1	36.7	123.52	-1,975.0	-1,905.3	1,060.0	987.9	72.13	14.696		
12,000.0	9,600.0	12,332.5	10,381.3	51.2	38.1	123.65	-2,078.9	-1,903.3	1,059.9	985.8	74.17	14.290		
12,100.0	9,600.0	12,433.9	10,382.6	52.4	39.4	123.75	-2,180.2	-1,901.4	1,059.7	983.4	76.25	13.896		
12,200.0	9,600.0	12,530.1	10,383.0	53.6	40.7	123.78	-2,276.4	-1,900.2	1,059.4	981.0	78.39	13.513		
12,204.4	9,600.0	12,534.1	10,383.0	53.7	40.8	123.78	-2,280.5	-1,900.1	1,059.4	980.9	78.49	13.497		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #503H - OWB - OWB													Offset Site Error:	0.0 usft
Survey Program: 25-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,300.0	9,600.0	12,622.1	10,385.1	54.8	41.9	123.91	-2,368.4	-1,898.6	1,059.7	979.2	80.50	13.165		
12,400.0	9,600.0	12,717.8	10,389.3	56.1	43.2	124.14	-2,464.0	-1,896.4	1,060.8	978.2	82.56	12.848		
12,500.0	9,600.0	12,818.5	10,393.6	57.3	44.6	124.38	-2,564.6	-1,894.4	1,062.0	977.3	84.66	12.544		
12,600.0	9,600.0	12,921.8	10,398.2	58.6	46.0	124.64	-2,667.7	-1,891.8	1,062.9	976.2	86.76	12.252		
12,700.0	9,600.0	13,026.0	10,401.8	59.9	47.4	124.86	-2,771.9	-1,889.4	1,063.6	974.7	88.90	11.963		
12,800.0	9,600.0	13,118.1	10,404.4	61.2	48.6	125.00	-2,863.9	-1,887.8	1,064.2	973.1	91.09	11.683		
12,900.0	9,600.0	13,205.0	10,407.6	62.5	49.8	125.16	-2,950.7	-1,886.9	1,066.0	972.7	93.27	11.429		
13,000.0	9,600.0	13,302.5	10,412.7	63.9	51.1	125.39	-3,048.0	-1,885.9	1,068.7	973.3	95.42	11.200		
13,100.0	9,600.0	13,405.0	10,417.1	65.2	52.6	125.58	-3,150.5	-1,885.3	1,071.2	973.6	97.62	10.973		
13,200.0	9,600.0	13,508.3	10,420.0	66.6	54.0	125.68	-3,253.8	-1,885.5	1,073.5	973.6	99.91	10.744		
13,300.0	9,600.0	13,605.2	10,422.3	68.0	55.3	125.75	-3,350.6	-1,885.9	1,075.7	973.5	102.23	10.523		
13,400.0	9,600.0	13,709.5	10,425.3	69.4	56.7	125.86	-3,454.8	-1,886.0	1,077.9	973.4	104.53	10.312		
13,500.0	9,600.0	13,811.4	10,426.6	70.8	58.2	125.87	-3,556.8	-1,886.8	1,079.8	972.9	106.93	10.098		
13,600.0	9,600.0	13,905.3	10,428.0	72.2	59.5	125.89	-3,650.6	-1,887.5	1,081.9	972.6	109.31	9.897		
13,700.0	9,600.0	13,996.9	10,431.5	73.6	60.7	126.02	-3,742.2	-1,887.7	1,084.7	973.1	111.59	9.720		
13,800.0	9,600.0	14,100.1	10,435.6	75.1	62.2	126.17	-3,845.3	-1,887.7	1,087.6	973.7	113.88	9.550		
13,900.0	9,600.0	14,193.3	10,439.9	76.5	63.5	126.34	-3,938.4	-1,887.8	1,090.8	974.7	116.14	9.393		
14,000.0	9,600.0	14,298.6	10,444.8	78.0	64.9	126.52	-4,043.5	-1,887.9	1,094.2	975.8	118.42	9.240		
14,100.0	9,600.0	14,429.2	10,445.6	79.4	66.8	126.48	-4,174.2	-1,889.5	1,096.1	975.1	120.97	9.061		
14,200.0	9,600.0	14,547.0	10,440.9	80.9	68.4	126.21	-4,291.8	-1,891.0	1,095.2	971.5	123.71	8.853		
14,300.0	9,600.0	14,652.1	10,434.2	82.4	69.9	125.84	-4,396.7	-1,893.1	1,093.6	967.0	126.57	8.640		
14,400.0	9,600.0	14,755.6	10,425.9	83.8	71.3	125.39	-4,499.8	-1,895.8	1,091.5	961.9	129.54	8.426		
14,447.7	9,600.0	14,780.0	10,423.8	84.6	71.6	125.27	-4,524.1	-1,896.5	1,090.7	959.8	130.88	8.334		
14,500.0	9,600.0	14,780.0	10,423.8	85.3	71.6	125.27	-4,524.1	-1,896.5	1,092.0	959.9	132.06	8.269		
14,600.0	9,600.0	14,780.0	10,423.8	86.8	71.6	125.27	-4,524.1	-1,896.5	1,101.3	967.7	133.63	8.241 SF		
14,700.0	9,600.0	14,780.0	10,423.8	88.3	71.6	125.27	-4,524.1	-1,896.5	1,119.5	985.2	134.31	8.335		
14,800.0	9,600.0	14,780.0	10,423.8	89.8	71.6	125.27	-4,524.1	-1,896.5	1,146.2	1,012.0	134.17	8.543		
14,900.0	9,600.0	14,780.0	10,423.8	91.3	71.6	125.27	-4,524.1	-1,896.5	1,180.8	1,047.5	133.30	8.858		
15,000.0	9,600.0	14,780.0	10,423.8	92.8	71.6	125.27	-4,524.1	-1,896.5	1,222.6	1,090.7	131.85	9.272		
15,100.0	9,600.0	14,780.0	10,423.8	94.4	71.6	125.27	-4,524.1	-1,896.5	1,270.9	1,140.9	129.96	9.779		
15,200.0	9,600.0	14,780.0	10,423.8	95.9	71.6	125.27	-4,524.1	-1,896.5	1,325.0	1,197.2	127.77	10.370		
15,300.0	9,600.0	14,780.0	10,423.8	97.4	71.6	125.27	-4,524.1	-1,896.5	1,384.2	1,258.8	125.40	11.038		
15,400.0	9,600.0	14,780.0	10,423.8	98.9	71.6	125.27	-4,524.1	-1,896.5	1,447.9	1,325.0	122.93	11.778		
15,500.0	9,600.0	14,780.0	10,423.8	100.5	71.6	125.27	-4,524.1	-1,896.5	1,515.6	1,395.1	120.44	12.583		
15,600.0	9,600.0	14,780.0	10,423.8	102.0	71.6	125.27	-4,524.1	-1,896.5	1,586.6	1,468.6	117.99	13.447		
15,700.0	9,600.0	14,780.0	10,423.8	103.6	71.6	125.27	-4,524.1	-1,896.5	1,660.7	1,545.1	115.60	14.365		
15,800.0	9,600.0	14,780.0	10,423.8	105.1	71.6	125.27	-4,524.1	-1,896.5	1,737.3	1,624.0	113.31	15.332		
15,900.0	9,600.0	14,780.0	10,423.8	106.7	71.6	125.27	-4,524.1	-1,896.5	1,816.2	1,705.1	111.13	16.343		
16,000.0	9,600.0	14,780.0	10,423.8	108.2	71.6	125.27	-4,524.1	-1,896.5	1,897.1	1,788.1	109.07	17.394		
16,100.0	9,600.0	14,780.0	10,423.8	109.8	71.6	125.27	-4,524.1	-1,896.5	1,979.8	1,872.7	107.12	18.482		
16,200.0	9,600.0	14,780.0	10,423.8	111.3	71.6	125.27	-4,524.1	-1,896.5	2,064.0	1,958.7	105.29	19.603		
16,300.0	9,600.0	14,780.0	10,423.8	112.9	71.6	125.27	-4,524.1	-1,896.5	2,149.5	2,046.0	103.58	20.753		
16,400.0	9,600.0	14,780.0	10,423.8	114.4	71.6	125.27	-4,524.1	-1,896.5	2,236.3	2,134.3	101.97	21.931		
16,500.0	9,600.0	14,780.0	10,423.8	116.0	71.6	125.27	-4,524.1	-1,896.5	2,324.1	2,223.6	100.47	23.133		
16,600.0	9,600.0	14,780.0	10,423.8	117.6	71.6	125.27	-4,524.1	-1,896.5	2,412.9	2,313.8	99.06	24.357		
16,700.0	9,600.0	14,780.0	10,423.8	119.1	71.6	125.27	-4,524.1	-1,896.5	2,502.5	2,404.7	97.75	25.601		
16,800.0	9,600.0	14,780.0	10,423.8	120.7	71.6	125.27	-4,524.1	-1,896.5	2,592.8	2,496.3	96.52	26.862		
16,900.0	9,600.0	14,780.0	10,423.8	122.3	71.6	125.27	-4,524.1	-1,896.5	2,683.9	2,588.5	95.38	28.140		
17,000.0	9,600.0	14,780.0	10,423.8	123.9	71.6	125.27	-4,524.1	-1,896.5	2,775.6	2,681.3	94.30	29.432		
17,100.0	9,600.0	14,780.0	10,423.8	125.4	71.6	125.27	-4,524.1	-1,896.5	2,867.8	2,774.5	93.30	30.738		
17,200.0	9,600.0	14,780.0	10,423.8	127.0	71.6	125.27	-4,524.1	-1,896.5	2,960.5	2,868.2	92.36	32.055		
17,300.0	9,600.0	14,780.0	10,423.8	128.6	71.6	125.27	-4,524.1	-1,896.5	3,053.7	2,962.2	91.48	33.382		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #503H - OWB - OWB													Offset Site Error:	0.0 usft	
Survey Program:		25-MWD+HRGM		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
17,400.0	9,600.0	14,780.0	10,423.8	130.2	71.6	125.27	-4,524.1	-1,896.5	3,147.3	3,056.7	90.65	34.719			
17,500.0	9,600.0	14,780.0	10,423.8	131.8	71.6	125.27	-4,524.1	-1,896.5	3,241.3	3,151.4	89.88	36.064			
17,600.0	9,600.0	14,780.0	10,423.8	133.3	71.6	125.27	-4,524.1	-1,896.5	3,335.6	3,246.5	89.15	37.417			
17,700.0	9,600.0	14,780.0	10,423.8	134.9	71.6	125.27	-4,524.1	-1,896.5	3,430.3	3,341.8	88.46	38.776			
17,800.0	9,600.0	14,780.0	10,423.8	136.5	71.6	125.27	-4,524.1	-1,896.5	3,525.2	3,437.4	87.82	40.141			
17,900.0	9,600.0	14,780.0	10,423.8	138.1	71.6	125.27	-4,524.1	-1,896.5	3,620.5	3,533.3	87.22	41.511			
18,000.0	9,600.0	14,780.0	10,423.8	139.7	71.6	125.27	-4,524.1	-1,896.5	3,715.9	3,629.3	86.65	42.886			
18,100.0	9,600.0	14,780.0	10,423.8	141.3	71.6	125.27	-4,524.1	-1,896.5	3,811.7	3,725.5	86.11	44.265			
18,200.0	9,600.0	14,780.0	10,423.8	142.9	71.6	125.27	-4,524.1	-1,896.5	3,907.6	3,822.0	85.60	45.647			
18,300.0	9,600.0	14,780.0	10,423.8	144.5	71.6	125.27	-4,524.1	-1,896.5	4,003.7	3,918.6	85.13	47.032			
18,400.0	9,600.0	14,780.0	10,423.8	146.1	71.6	125.27	-4,524.1	-1,896.5	4,100.0	4,015.3	84.68	48.419			
18,500.0	9,600.0	14,780.0	10,423.8	147.7	71.6	125.27	-4,524.1	-1,896.5	4,196.5	4,112.2	84.25	49.808			
18,600.0	9,600.0	14,780.0	10,423.8	149.3	71.6	125.27	-4,524.1	-1,896.5	4,293.1	4,209.3	83.85	51.199			
18,700.0	9,600.0	14,780.0	10,423.8	150.9	71.6	125.27	-4,524.1	-1,896.5	4,389.9	4,306.4	83.47	52.590			
18,800.0	9,600.0	14,780.0	10,423.8	152.5	71.6	125.27	-4,524.1	-1,896.5	4,486.9	4,403.7	83.12	53.983			
18,900.0	9,600.0	14,780.0	10,423.8	154.1	71.6	125.27	-4,524.1	-1,896.5	4,583.9	4,501.1	82.78	55.377			
19,000.0	9,600.0	14,780.0	10,423.8	155.7	71.6	125.27	-4,524.1	-1,896.5	4,681.1	4,598.7	82.46	56.770			
19,100.0	9,600.0	14,780.0	10,423.8	157.3	71.6	125.27	-4,524.1	-1,896.5	4,778.4	4,696.3	82.15	58.164			
19,200.0	9,600.0	14,780.0	10,423.8	158.9	71.6	125.27	-4,524.1	-1,896.5	4,875.8	4,794.0	81.87	59.557			
19,300.0	9,600.0	14,780.0	10,423.8	160.5	71.6	125.27	-4,524.1	-1,896.5	4,973.3	4,891.7	81.60	60.950			
19,400.0	9,600.0	14,780.0	10,423.8	162.1	71.6	125.27	-4,524.1	-1,896.5	5,071.0	4,989.6	81.34	62.342			
19,500.0	9,600.0	14,780.0	10,423.8	163.7	71.6	125.27	-4,524.1	-1,896.5	5,168.7	5,087.6	81.10	63.734			
19,600.0	9,600.0	14,780.0	10,423.8	165.3	71.6	125.27	-4,524.1	-1,896.5	5,266.5	5,185.6	80.87	65.124			
19,700.0	9,600.0	14,780.0	10,423.8	166.9	71.6	125.27	-4,524.1	-1,896.5	5,364.3	5,283.7	80.65	66.513			
19,800.0	9,600.0	14,780.0	10,423.8	168.6	71.6	125.27	-4,524.1	-1,896.5	5,462.3	5,381.8	80.45	67.901			
19,871.5	9,600.0	14,780.0	10,423.8	169.7	71.6	125.27	-4,524.1	-1,896.5	5,532.4	5,452.1	80.30	68.892			

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

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Page 32

COMPASS 5000.17 Build 03

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #504H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 169-MWD+HRGM														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	-78.83	316.5	-1,603.5	1,634.4						
100.0	100.0	85.4	85.4	0.3	0.7	-78.83	316.5	-1,603.7	1,634.6	1,633.6	0.96	1,698.097			
200.0	200.0	177.8	177.8	0.6	1.4	-78.83	316.6	-1,604.3	1,635.3	1,633.3	2.03	805.489			
300.0	300.0	276.8	276.8	1.0	1.8	-78.83	317.0	-1,605.2	1,636.3	1,633.5	2.75	596.003			
400.0	400.0	378.9	378.9	1.3	2.4	-78.82	317.5	-1,606.1	1,637.3	1,633.5	3.74	437.686			
500.0	500.0	484.2	484.1	1.7	3.2	-78.81	317.8	-1,606.8	1,638.0	1,633.0	4.94	331.599			
600.0	600.0	588.0	588.0	2.1	3.9	-78.81	318.0	-1,607.2	1,638.4	1,632.4	5.97	274.642			
700.0	700.0	691.5	691.5	2.4	4.5	-78.81	318.1	-1,607.4	1,638.6	1,631.6	6.95	235.725			
800.0	800.0	793.6	793.6	2.8	5.0	-78.80	318.2	-1,607.4	1,638.6	1,630.8	7.78	210.611			
900.0	900.0	895.1	895.1	3.1	5.5	-78.79	318.4	-1,607.3	1,638.5	1,629.9	8.60	190.621			
1,000.0	1,000.0	993.4	993.4	3.5	5.9	-78.79	318.6	-1,607.2	1,638.4	1,629.1	9.33	175.534			
1,020.7	1,020.7	1,013.8	1,013.7	3.6	6.0	-78.79	318.7	-1,607.1	1,638.4	1,628.9	9.49	172.700			
1,100.0	1,100.0	1,092.2	1,092.2	3.8	6.3	-78.78	318.8	-1,607.1	1,638.5	1,628.4	10.07	162.786			
1,200.0	1,200.0	1,193.1	1,193.0	4.2	6.6	-78.78	318.9	-1,607.2	1,638.5	1,627.7	10.77	152.103			
1,300.0	1,300.0	1,293.7	1,293.6	4.6	6.9	-78.78	318.8	-1,607.1	1,638.5	1,627.1	11.38	143.941			
1,397.7	1,397.7	1,390.7	1,390.7	4.9	7.0	-78.78	318.7	-1,607.1	1,638.4	1,626.5	11.91	137.576			
1,400.0	1,400.0	1,393.0	1,393.0	4.9	7.0	-78.78	318.7	-1,607.1	1,638.4	1,626.5	11.93	137.394			
1,500.0	1,500.0	1,491.1	1,491.1	5.3	7.3	-78.79	318.6	-1,607.2	1,638.5	1,625.9	12.60	130.051			
1,600.0	1,600.0	1,590.0	1,590.0	5.6	7.6	-78.79	318.6	-1,607.4	1,638.6	1,625.4	13.22	123.933			
1,700.0	1,700.0	1,689.7	1,689.7	6.0	7.8	-78.79	318.6	-1,607.6	1,638.8	1,625.0	13.80	118.799			
1,800.0	1,800.0	1,791.6	1,791.5	6.4	7.9	-78.79	318.7	-1,607.7	1,639.0	1,624.7	14.30	114.647			
1,900.0	1,900.0	1,891.4	1,891.4	6.7	8.0	-78.79	318.5	-1,607.8	1,639.1	1,624.3	14.76	111.068			
2,000.0	2,000.0	2,018.7	2,018.7	7.1	8.1	-78.80	318.2	-1,607.1	1,638.5	1,623.3	15.19	107.854			
2,100.0	2,100.0	2,172.9	2,172.8	7.4	8.2	-10.95	317.1	-1,602.4	1,633.7	1,618.1	15.60	104.750			
2,200.0	2,199.8	2,365.6	2,364.9	7.8	8.3	-11.05	314.5	-1,587.5	1,620.6	1,604.6	16.04	101.006			
2,300.0	2,299.5	2,478.9	2,477.4	8.1	8.4	-11.19	312.3	-1,575.0	1,600.9	1,584.5	16.46	97.236			
2,400.0	2,398.7	2,574.8	2,572.7	8.5	8.5	-11.35	310.5	-1,564.1	1,577.6	1,560.7	16.90	93.336			
2,500.0	2,497.5	2,673.9	2,671.2	8.9	8.6	-11.57	308.6	-1,552.8	1,551.0	1,533.6	17.36	89.357			
2,600.0	2,595.6	2,770.2	2,766.8	9.2	8.8	-11.84	306.6	-1,541.7	1,520.9	1,503.1	17.83	85.321			
2,700.0	2,693.4	2,868.4	2,864.3	9.6	8.9	-12.00	304.6	-1,530.3	1,489.1	1,470.8	18.31	81.330			
2,800.0	2,791.3	2,967.0	2,962.2	10.0	9.1	-12.17	302.8	-1,518.5	1,457.1	1,438.3	18.81	77.463			
2,900.0	2,889.1	3,062.8	3,057.3	10.4	9.2	-12.32	301.3	-1,506.8	1,424.9	1,405.5	19.33	73.727			
3,000.0	2,986.9	3,157.1	3,150.8	10.8	9.4	-12.47	299.9	-1,495.3	1,392.7	1,372.8	19.86	70.130			
3,100.0	3,084.7	3,250.6	3,243.7	11.3	9.6	-12.63	298.5	-1,483.9	1,360.5	1,340.1	20.40	66.675			
3,200.0	3,182.5	3,344.7	3,337.1	11.7	9.8	-12.79	297.3	-1,472.5	1,328.4	1,307.5	20.97	63.363			
3,300.0	3,280.3	3,437.3	3,429.0	12.1	10.1	-12.96	295.9	-1,461.3	1,296.3	1,274.8	21.54	60.187			
3,400.0	3,378.1	3,522.9	3,513.9	12.5	10.3	-13.13	294.7	-1,451.4	1,264.8	1,242.7	22.12	57.186			
3,500.0	3,476.0	3,610.9	3,601.4	13.0	10.5	-13.32	293.4	-1,441.8	1,233.9	1,211.2	22.71	54.338			
3,600.0	3,573.8	3,698.7	3,688.8	13.4	10.7	-13.52	292.3	-1,432.7	1,203.5	1,180.2	23.30	51.642			
3,700.0	3,671.6	3,787.5	3,777.1	13.9	10.9	-13.72	291.2	-1,424.0	1,173.7	1,149.8	23.91	49.089			
3,800.0	3,769.4	3,876.0	3,865.2	14.3	11.2	-13.94	290.2	-1,415.7	1,144.4	1,119.9	24.52	46.668			
3,900.0	3,867.2	3,970.0	3,958.8	14.8	11.4	-14.19	288.9	-1,407.5	1,115.5	1,090.4	25.14	44.366			
4,000.0	3,965.0	4,070.8	4,059.3	15.2	11.7	-14.49	287.3	-1,398.6	1,086.7	1,060.9	25.78	42.151			
4,100.0	4,062.8	4,172.2	4,160.1	15.7	12.0	-14.81	285.6	-1,388.9	1,057.1	1,030.7	26.43	40.003			
4,200.0	4,160.7	4,262.2	4,249.8	16.1	12.3	-15.09	284.3	-1,380.4	1,027.7	1,000.6	27.07	37.961			
4,300.0	4,258.5	4,357.8	4,345.0	16.6	12.5	-15.41	283.1	-1,371.6	998.5	970.8	27.73	36.014			
4,400.0	4,356.3	4,459.6	4,446.3	17.1	12.8	-15.80	281.1	-1,361.8	969.1	940.7	28.39	34.133			
4,500.0	4,454.1	4,557.4	4,543.5	17.5	13.2	-16.24	278.7	-1,352.1	939.2	910.1	29.06	32.317			
4,600.0	4,551.9	4,653.3	4,638.9	18.0	13.5	-16.71	276.0	-1,342.5	909.2	879.4	29.74	30.573			
4,700.0	4,649.7	4,748.4	4,733.4	18.4	13.8	-17.22	273.3	-1,332.8	879.2	848.8	30.42	28.902			
4,800.0	4,747.5	4,840.6	4,825.2	18.9	14.1	-17.74	270.6	-1,323.7	849.5	818.4	31.11	27.309			
4,900.0	4,845.4	4,933.3	4,917.4	19.4	14.4	-18.31	267.9	-1,314.8	820.1	788.3	31.80	25.793			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #504H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 169-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,943.2	5,025.8	5,009.5	19.9	14.7	-18.93	265.1	-1,306.3	791.2	758.7	32.49	24.353		
5,100.0	5,041.0	5,121.2	5,104.5	20.3	15.0	-19.61	262.3	-1,297.7	762.6	729.4	33.18	22.983		
5,200.0	5,138.8	5,223.3	5,206.1	20.8	15.3	-20.37	259.6	-1,287.9	733.6	699.7	33.87	21.656		
5,300.0	5,236.6	5,321.9	5,304.1	21.3	15.7	-21.13	257.3	-1,277.7	703.9	669.3	34.58	20.356		
5,400.0	5,334.4	5,415.2	5,396.8	21.7	16.0	-21.93	255.1	-1,268.0	674.3	639.0	35.29	19.105		
5,500.0	5,432.3	5,507.7	5,488.8	22.2	16.3	-22.81	252.7	-1,258.7	645.2	609.2	36.02	17.914		
5,600.0	5,530.1	5,601.4	5,582.1	22.7	16.6	-23.78	250.2	-1,249.7	616.6	579.9	36.73	16.790		
5,700.0	5,627.9	5,694.4	5,674.6	23.2	16.9	-24.82	247.8	-1,241.0	588.5	551.1	37.43	15.723		
5,800.0	5,725.7	5,792.7	5,772.5	23.6	17.3	-26.05	245.2	-1,231.7	560.6	522.5	38.14	14.698		
5,900.0	5,823.5	5,891.9	5,871.1	24.1	17.6	-27.40	242.8	-1,221.7	532.2	493.4	38.85	13.698		
6,000.0	5,921.3	5,988.0	5,966.7	24.6	18.0	-28.86	240.5	-1,211.4	503.6	464.0	39.58	12.725		
6,100.0	6,019.1	6,083.5	6,061.6	25.1	18.3	-30.52	237.9	-1,201.2	475.3	435.0	40.30	11.793		
6,200.0	6,117.0	6,180.9	6,158.4	25.5	18.7	-32.42	235.3	-1,190.5	447.1	406.1	41.02	10.901		
6,300.0	6,214.8	6,278.5	6,255.3	26.0	19.0	-34.52	233.2	-1,179.1	418.7	377.0	41.73	10.034		
6,400.0	6,312.6	6,374.7	6,350.8	26.5	19.4	-36.92	231.1	-1,167.3	390.5	348.0	42.45	9.199		
6,500.0	6,410.4	6,470.5	6,445.8	27.0	19.8	-39.70	228.9	-1,155.3	362.5	319.4	43.15	8.402		
6,600.0	6,508.2	6,566.3	6,540.7	27.5	20.2	-42.97	226.7	-1,142.8	335.2	291.4	43.83	7.648		
6,700.0	6,606.0	6,660.5	6,634.0	27.9	20.5	-46.75	224.3	-1,130.1	308.7	264.3	44.49	6.940		
6,800.0	6,703.8	6,753.9	6,726.6	28.4	20.9	-51.13	222.0	-1,117.8	284.1	239.0	45.09	6.300		
6,900.0	6,801.7	6,848.0	6,819.9	28.9	21.3	-56.29	219.6	-1,105.6	261.5	215.9	45.59	5.736		
7,000.0	6,899.5	6,942.4	6,913.4	29.4	21.6	-62.36	217.0	-1,093.1	241.5	195.6	45.95	5.256		
7,100.0	6,997.3	7,036.9	7,007.0	29.9	22.0	-69.33	214.5	-1,080.6	224.7	178.6	46.15	4.870		
7,200.0	7,095.1	7,131.6	7,100.9	30.4	22.4	-77.03	212.6	-1,068.5	211.7	165.5	46.18	4.584		
7,300.0	7,192.9	7,224.9	7,193.6	30.8	22.7	-84.91	211.6	-1,057.9	203.2	157.0	46.14	4.403		
7,376.3	7,267.6	7,295.8	7,264.2	31.2	23.0	-90.86	210.7	-1,051.3	200.4	154.3	46.14	4.344		
7,400.0	7,290.8	7,318.0	7,286.3	31.3	23.1	-92.67	210.3	-1,049.5	200.2	154.0	46.15	4.338		
7,407.6	7,298.2	7,325.2	7,293.4	31.4	23.1	-93.24	210.2	-1,048.9	200.2	154.0	46.16	4.337		
7,500.0	7,389.1	7,415.3	7,383.3	31.8	23.4	-99.89	208.8	-1,041.9	201.6	155.2	46.36	4.348		
7,600.0	7,488.0	7,514.5	7,482.1	32.2	23.8	-106.29	208.2	-1,033.6	204.3	157.5	46.77	4.367		
7,700.0	7,587.3	7,610.6	7,577.9	32.6	24.1	-111.59	207.7	-1,025.0	208.0	160.7	47.31	4.397		
7,800.0	7,687.0	7,707.2	7,674.1	33.0	24.5	-115.85	206.0	-1,016.6	213.3	165.4	47.91	4.452		
7,900.0	7,786.9	7,806.1	7,772.6	33.3	24.9	-119.15	203.7	-1,008.2	218.5	169.9	48.55	4.500		
7,976.3	7,863.2	7,882.0	7,848.2	33.5	25.1	171.06	202.0	-1,001.7	221.6	172.6	49.03	4.520		
8,000.0	7,886.9	7,905.6	7,871.7	33.6	25.2	170.57	201.4	-999.7	222.5	173.3	49.17	4.525		
8,100.0	7,986.9	8,006.9	7,972.6	33.9	25.6	168.54	199.4	-991.2	226.0	176.2	49.81	4.537		
8,200.0	8,086.9	8,107.9	8,073.2	34.2	26.0	166.51	198.1	-982.7	229.0	178.6	50.47	4.538		
8,300.0	8,186.9	8,207.7	8,172.7	34.5	26.3	164.54	197.3	-974.3	232.0	180.9	51.12	4.538		
8,400.0	8,286.9	8,307.3	8,271.9	34.8	26.7	162.55	196.5	-965.6	235.2	183.4	51.81	4.540		
8,500.0	8,386.9	8,407.2	8,371.4	35.1	27.1	160.51	195.9	-956.5	238.7	186.2	52.53	4.544		
8,600.0	8,486.9	8,507.5	8,471.3	35.4	27.4	158.66	195.3	-948.0	242.2	189.0	53.24	4.549		
8,700.0	8,586.9	8,607.3	8,570.8	35.7	27.8	157.08	194.5	-940.4	245.8	191.9	53.95	4.556		
8,800.0	8,686.9	8,706.2	8,669.5	36.0	28.2	155.66	193.5	-933.3	249.7	195.0	54.65	4.569		
8,900.0	8,786.9	8,804.6	8,767.5	36.3	28.5	154.07	192.4	-925.0	254.2	198.8	55.38	4.590		
9,000.0	8,886.9	8,904.4	8,866.9	36.6	28.9	152.36	191.4	-916.0	259.2	203.0	56.17	4.615		
9,100.0	8,986.9	9,004.3	8,966.4	36.9	29.3	150.74	190.6	-907.1	264.2	207.2	56.96	4.638		
9,200.0	9,086.9	9,103.4	9,065.2	37.2	29.6	149.25	189.5	-898.5	269.5	211.7	57.74	4.667		
9,235.6	9,122.5	9,138.9	9,100.5	37.4	29.8	148.77	189.0	-895.6	271.4	213.4	58.01	4.679		
9,250.0	9,136.9	9,153.2	9,114.7	37.4	29.8	-31.05	188.8	-894.4	272.1	213.9	58.13	4.680		
9,275.0	9,161.8	9,178.4	9,139.8	37.5	29.9	-31.51	188.4	-892.4	272.2	213.9	58.34	4.666		
9,300.0	9,186.7	9,203.5	9,164.9	37.5	30.0	-32.17	188.0	-890.5	271.3	212.7	58.58	4.632		
9,325.0	9,211.4	9,228.4	9,189.8	37.6	30.1	-33.04	187.5	-888.6	269.3	210.4	58.83	4.577		
9,350.0	9,235.8	9,252.9	9,214.2	37.6	30.2	-34.12	187.1	-886.9	266.2	207.1	59.11	4.503		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #504H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 169-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,375.0	9,259.9	9,276.4	9,237.6	37.7	30.3	-35.41	186.6	-885.2	262.1	202.7	59.40	4.413		
9,400.0	9,283.6	9,299.5	9,260.6	37.8	30.4	-36.96	186.1	-883.6	257.2	197.5	59.72	4.306		
9,425.0	9,306.9	9,322.3	9,283.4	37.8	30.4	-38.80	185.6	-881.9	251.5	191.4	60.07	4.186		
9,450.0	9,329.7	9,344.8	9,305.8	37.8	30.5	-40.94	185.0	-880.2	245.0	184.5	60.46	4.052		
9,475.0	9,352.0	9,367.3	9,328.2	37.9	30.6	-43.47	184.3	-878.5	237.8	176.9	60.89	3.906		
9,500.0	9,373.6	9,389.2	9,350.0	37.9	30.7	-46.36	183.7	-876.9	230.1	168.7	61.36	3.750		
9,525.0	9,394.5	9,410.4	9,371.2	37.9	30.8	-49.63	183.2	-875.3	221.9	160.0	61.86	3.587		
9,550.0	9,414.6	9,430.9	9,391.6	38.0	30.8	-53.29	182.6	-873.7	213.4	151.1	62.39	3.421		
9,575.0	9,434.0	9,452.0	9,412.7	38.0	30.9	-57.53	182.1	-872.2	204.9	141.9	62.98	3.254		
9,600.0	9,452.5	9,472.4	9,433.0	38.0	31.0	-62.17	181.7	-870.8	196.4	132.9	63.59	3.089		
9,625.0	9,470.1	9,491.6	9,452.2	38.0	31.1	-67.07	181.4	-869.6	188.4	124.2	64.19	2.935		
9,650.0	9,486.8	9,509.6	9,470.2	38.0	31.1	-72.07	181.2	-868.6	181.2	116.4	64.74	2.798		
9,675.0	9,502.4	9,526.4	9,486.9	38.0	31.2	-77.02	181.1	-867.7	175.2	110.0	65.20	2.686		
9,700.0	9,517.0	9,542.0	9,502.5	38.0	31.2	-81.75	181.1	-866.9	170.9	105.4	65.50	2.609		
9,725.0	9,530.6	9,556.3	9,516.8	38.0	31.3	-86.08	181.2	-866.3	168.8	103.2	65.58	2.574		
9,733.3	9,534.8	9,560.8	9,521.2	38.0	31.3	-87.40	181.2	-866.1	168.7	103.1	65.55	2.573 CC, ES, SF		
9,750.0	9,543.0	9,569.3	9,529.8	38.0	31.3	-89.87	181.3	-865.8	169.3	103.9	65.40	2.588		
9,775.0	9,554.3	9,581.0	9,541.4	38.0	31.3	-93.01	181.4	-865.4	172.5	107.6	64.95	2.656		
9,800.0	9,564.3	9,591.3	9,551.7	38.0	31.3	-95.43	181.5	-865.1	178.7	114.4	64.26	2.781		
9,825.0	9,573.2	9,600.2	9,560.7	38.0	31.4	-97.08	181.6	-864.8	187.6	124.2	63.39	2.960		
9,850.0	9,580.8	9,607.8	9,568.2	38.0	31.4	-97.93	181.7	-864.7	199.1	136.7	62.43	3.189		
9,875.0	9,587.2	9,614.0	9,574.4	38.0	31.4	-97.95	181.8	-864.5	212.9	151.4	61.45	3.464		
9,900.0	9,592.3	9,618.8	9,579.3	37.9	31.4	-97.11	181.9	-864.4	228.5	168.0	60.52	3.776		
9,925.0	9,596.1	9,622.3	9,582.7	37.9	31.4	-95.40	181.9	-864.3	245.8	186.1	59.67	4.119		
9,950.0	9,598.6	9,624.4	9,584.8	37.9	31.4	-92.77	182.0	-864.3	264.3	205.4	58.92	4.486		
9,975.0	9,599.8	9,625.1	9,585.6	37.9	31.4	-89.25	182.0	-864.3	283.9	225.6	58.27	4.872		
9,985.6	9,600.0	9,625.0	9,585.5	37.9	31.4	-87.48	182.0	-864.3	292.5	234.5	58.03	5.041		
10,000.0	9,600.0	9,624.8	9,585.2	37.9	31.4	-87.40	182.0	-864.3	304.3	246.6	57.72	5.272		
10,100.0	9,600.0	9,623.0	9,583.4	37.9	31.4	-86.80	181.9	-864.3	391.1	334.9	56.27	6.951		
10,200.0	9,600.0	9,621.3	9,581.7	38.0	31.4	-86.22	181.9	-864.4	483.1	427.5	55.56	8.694		
10,300.0	9,600.0	9,619.6	9,580.0	38.1	31.4	-85.66	181.9	-864.4	577.7	522.5	55.21	10.465		
10,400.0	9,600.0	9,618.0	9,578.4	38.3	31.4	-85.12	181.9	-864.4	673.9	618.9	55.02	12.249		
10,500.0	9,600.0	9,616.5	9,576.9	38.7	31.4	-84.61	181.8	-864.5	771.1	716.1	54.92	14.039		
10,600.0	9,600.0	10,969.5	10,353.5	39.1	34.6	-167.39	-679.0	-859.2	779.3	735.8	43.59	17.880		
10,688.4	9,600.0	11,049.0	10,353.4	39.5	35.1	-167.54	-758.5	-860.8	778.8	734.7	44.04	17.683		
10,700.0	9,600.0	11,059.3	10,353.4	39.6	35.1	-167.55	-768.7	-861.0	778.8	734.7	44.10	17.659		
10,800.0	9,600.0	11,152.3	10,354.3	40.1	35.7	-167.64	-861.8	-861.5	779.4	734.7	44.70	17.436		
10,900.0	9,600.0	11,249.0	10,355.6	40.8	36.3	-167.66	-958.4	-860.8	780.7	735.3	45.39	17.200		
11,000.0	9,600.0	11,362.1	10,356.3	41.5	37.2	-167.62	-1,071.5	-859.5	781.5	735.2	46.25	16.896		
11,100.0	9,600.0	11,472.1	10,354.8	42.3	38.0	-167.56	-1,181.5	-858.3	780.2	733.0	47.16	16.544		
11,200.0	9,600.0	11,567.4	10,353.9	43.1	38.8	-167.50	-1,276.8	-857.1	779.4	731.4	47.99	16.242		
11,300.0	9,600.0	11,676.9	10,351.6	44.0	39.7	-167.40	-1,386.2	-855.5	777.5	728.5	48.99	15.871		
11,400.0	9,600.0	11,766.7	10,349.9	44.9	40.5	-167.32	-1,476.0	-854.2	775.9	726.1	49.86	15.563		
11,436.8	9,600.0	11,797.5	10,349.7	45.3	40.8	-167.29	-1,506.8	-853.7	775.8	725.6	50.16	15.464		
11,500.0	9,600.0	11,846.6	10,350.0	45.9	41.3	-167.26	-1,555.9	-852.9	776.3	725.6	50.68	15.317		
11,600.0	9,600.0	11,919.9	10,352.5	46.9	42.0	-167.22	-1,629.1	-851.4	779.9	728.4	51.50	15.143		
11,700.0	9,600.0	12,016.5	10,357.5	47.9	42.9	-167.16	-1,725.6	-848.7	785.4	732.8	52.53	14.952		
11,800.0	9,600.0	12,122.9	10,362.5	49.0	44.0	-167.06	-1,831.8	-845.6	790.5	736.8	53.68	14.727		
11,900.0	9,600.0	12,219.6	10,367.0	50.1	45.0	-167.00	-1,928.3	-843.1	795.5	740.7	54.77	14.524		
12,000.0	9,600.0	12,314.0	10,372.2	51.2	46.0	-166.99	-2,022.7	-841.1	801.1	745.3	55.85	14.343		
12,100.0	9,600.0	12,415.7	10,377.9	52.4	47.1	-167.01	-2,124.1	-839.6	806.9	749.8	57.02	14.149		
12,200.0	9,600.0	12,513.5	10,383.8	53.6	48.2	-167.11	-2,221.7	-839.0	812.6	754.5	58.17	13.971		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #504H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 169-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,300.0	9,600.0	12,616.1	10,390.2	54.8	49.3	-167.26	-2,324.1	-839.1	818.6	759.3	59.37	13.789		
12,400.0	9,600.0	12,736.5	10,396.1	56.1	50.7	-167.43	-2,444.4	-839.6	823.2	762.4	60.77	13.547		
12,500.0	9,600.0	12,860.5	10,398.7	57.3	52.1	-167.65	-2,568.4	-841.5	824.8	762.6	62.21	13.258		
12,600.0	9,600.0	12,963.5	10,399.1	58.6	53.3	-167.79	-2,671.4	-842.9	824.8	761.3	63.48	12.994		
12,636.5	9,600.0	12,998.6	10,399.2	59.1	53.7	-167.83	-2,706.5	-843.2	824.7	760.8	63.92	12.903		
12,700.0	9,600.0	13,061.5	10,399.4	59.9	54.4	-167.89	-2,769.4	-843.6	824.8	760.1	64.72	12.745		
12,800.0	9,600.0	13,166.2	10,399.2	61.2	55.7	-167.94	-2,874.1	-843.8	824.4	758.3	66.05	12.480		
12,840.6	9,600.0	13,202.8	10,399.1	61.7	56.1	-167.96	-2,910.6	-843.9	824.3	757.7	66.54	12.387		
12,900.0	9,600.0	13,255.8	10,399.4	62.5	56.7	-167.99	-2,963.7	-843.9	824.5	757.2	67.25	12.260		
13,000.0	9,600.0	13,348.0	10,401.0	63.9	57.9	-168.08	-3,055.9	-844.4	825.9	757.4	68.47	12.062		
13,100.0	9,600.0	13,458.8	10,402.4	65.2	59.2	-168.20	-3,166.6	-845.1	827.0	757.1	69.90	11.830		
13,200.0	9,600.0	13,563.0	10,402.6	66.6	60.5	-168.26	-3,270.9	-845.3	826.9	755.6	71.29	11.599		
13,235.5	9,600.0	13,597.7	10,402.6	67.1	60.9	-168.27	-3,305.5	-845.3	826.9	755.1	71.76	11.523		
13,300.0	9,600.0	13,656.3	10,402.9	68.0	61.7	-168.30	-3,364.1	-845.3	827.1	754.5	72.57	11.396		
13,400.0	9,600.0	13,752.2	10,404.1	69.4	62.8	-168.33	-3,460.0	-845.0	828.3	754.4	73.90	11.208		
13,500.0	9,600.0	13,859.2	10,404.9	70.8	64.2	-168.31	-3,567.0	-843.8	829.1	753.7	75.38	10.999		
13,600.0	9,600.0	13,946.0	10,405.3	72.2	65.3	-168.27	-3,653.8	-842.7	829.8	753.2	76.65	10.826		
13,700.0	9,600.0	14,040.3	10,408.1	73.6	66.5	-168.28	-3,748.1	-841.6	832.7	754.7	78.01	10.675		
13,800.0	9,600.0	14,139.7	10,410.3	75.1	67.8	-168.29	-3,847.4	-840.8	835.0	755.6	79.42	10.514		
13,900.0	9,600.0	14,233.5	10,413.3	76.5	69.0	-168.29	-3,941.2	-839.5	838.2	757.4	80.78	10.377		
14,000.0	9,600.0	14,336.9	10,416.5	78.0	70.3	-168.24	-4,044.5	-837.4	841.6	759.3	82.28	10.228		
14,100.0	9,600.0	14,442.6	10,419.0	79.4	71.7	-168.16	-4,150.1	-835.1	844.2	760.4	83.83	10.070		
14,200.0	9,600.0	14,546.5	10,420.9	80.9	73.0	-168.06	-4,254.0	-832.6	846.3	761.0	85.38	9.912		
14,300.0	9,600.0	14,656.0	10,422.0	82.4	74.5	-167.96	-4,363.4	-830.2	847.7	760.7	87.01	9.743		
14,400.0	9,600.0	14,761.2	10,422.0	83.8	75.9	-167.85	-4,468.6	-827.8	848.0	759.4	88.59	9.572		
14,500.0	9,600.0	14,782.0	10,422.0	85.3	76.1	-167.83	-4,489.4	-827.4	851.9	762.9	88.98	9.574		
14,600.0	9,600.0	14,782.0	10,422.0	86.8	76.1	-167.83	-4,489.4	-827.4	867.1	778.6	88.49	9.799		
14,700.0	9,600.0	14,782.0	10,422.0	88.3	76.1	-167.83	-4,489.4	-827.4	893.2	805.8	87.46	10.214		
14,800.0	9,600.0	14,782.0	10,422.0	89.8	76.1	-167.83	-4,489.4	-827.4	929.5	843.5	86.03	10.805		
14,900.0	9,600.0	14,782.0	10,422.0	91.3	76.1	-167.83	-4,489.4	-827.4	974.7	890.4	84.36	11.554		
15,000.0	9,600.0	14,782.0	10,422.0	92.8	76.1	-167.83	-4,489.4	-827.4	1,027.7	945.1	82.60	12.442		
15,100.0	9,600.0	14,782.0	10,422.0	94.4	76.1	-167.83	-4,489.4	-827.4	1,087.3	1,006.5	80.84	13.450		
15,200.0	9,600.0	14,782.0	10,422.0	95.9	76.1	-167.83	-4,489.4	-827.4	1,152.5	1,073.4	79.16	14.560		
15,300.0	9,600.0	14,782.0	10,422.0	97.4	76.1	-167.83	-4,489.4	-827.4	1,222.5	1,144.9	77.60	15.755		
15,400.0	9,600.0	14,782.0	10,422.0	98.9	76.1	-167.83	-4,489.4	-827.4	1,296.4	1,220.2	76.17	17.020		
15,500.0	9,600.0	14,782.0	10,422.0	100.5	76.1	-167.83	-4,489.4	-827.4	1,373.6	1,298.7	74.88	18.345		
15,600.0	9,600.0	14,782.0	10,422.0	102.0	76.1	-167.83	-4,489.4	-827.4	1,453.5	1,379.8	73.72	19.717		
15,700.0	9,600.0	14,782.0	10,422.0	103.6	76.1	-167.83	-4,489.4	-827.4	1,535.9	1,463.2	72.69	21.128		
15,800.0	9,600.0	14,782.0	10,422.0	105.1	76.1	-167.83	-4,489.4	-827.4	1,620.2	1,548.4	71.78	22.572		
15,900.0	9,600.0	14,782.0	10,422.0	106.7	76.1	-167.83	-4,489.4	-827.4	1,706.2	1,635.2	70.97	24.041		
16,000.0	9,600.0	14,782.0	10,422.0	108.2	76.1	-167.83	-4,489.4	-827.4	1,793.6	1,723.4	70.25	25.532		
16,100.0	9,600.0	14,782.0	10,422.0	109.8	76.1	-167.83	-4,489.4	-827.4	1,882.3	1,812.7	69.62	27.039		
16,200.0	9,600.0	14,782.0	10,422.0	111.3	76.1	-167.83	-4,489.4	-827.4	1,972.1	1,903.1	69.05	28.561		
16,300.0	9,600.0	14,782.0	10,422.0	112.9	76.1	-167.83	-4,489.4	-827.4	2,062.9	1,994.3	68.55	30.093		
16,400.0	9,600.0	14,782.0	10,422.0	114.4	76.1	-167.83	-4,489.4	-827.4	2,154.4	2,086.3	68.11	31.634		
16,500.0	9,600.0	14,782.0	10,422.0	116.0	76.1	-167.83	-4,489.4	-827.4	2,246.7	2,179.0	67.71	33.181		
16,600.0	9,600.0	14,782.0	10,422.0	117.6	76.1	-167.83	-4,489.4	-827.4	2,339.6	2,272.2	67.36	34.734		
16,700.0	9,600.0	14,782.0	10,422.0	119.1	76.1	-167.83	-4,489.4	-827.4	2,433.1	2,366.0	67.04	36.290		
16,800.0	9,600.0	14,782.0	10,422.0	120.7	76.1	-167.83	-4,489.4	-827.4	2,527.0	2,460.3	66.77	37.849		
16,900.0	9,600.0	14,782.0	10,422.0	122.3	76.1	-167.83	-4,489.4	-827.4	2,621.5	2,554.9	66.52	39.410		
17,000.0	9,600.0	14,782.0	10,422.0	123.9	76.1	-167.83	-4,489.4	-827.4	2,716.3	2,650.0	66.30	40.972		
17,100.0	9,600.0	14,782.0	10,422.0	125.4	76.1	-167.83	-4,489.4	-827.4	2,811.4	2,745.3	66.10	42.534		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #504H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	169-MWD+HRGM		Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	Offset Well Error:	0.0 usft
Reference	Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
	17,200.0	9,600.0	14,782.0	10,422.0	127.0	76.1	-167.83	-4,489.4	-827.4	2,906.9	2,841.0	65.92	44.096
	17,300.0	9,600.0	14,782.0	10,422.0	128.6	76.1	-167.83	-4,489.4	-827.4	3,002.7	2,937.0	65.77	45.657
	17,400.0	9,600.0	14,782.0	10,422.0	130.2	76.1	-167.83	-4,489.4	-827.4	3,098.8	3,033.2	65.63	47.217
	17,500.0	9,600.0	14,782.0	10,422.0	131.8	76.1	-167.83	-4,489.4	-827.4	3,195.1	3,129.6	65.51	48.775
	17,600.0	9,600.0	14,782.0	10,422.0	133.3	76.1	-167.83	-4,489.4	-827.4	3,291.6	3,226.2	65.40	50.332
	17,700.0	9,600.0	14,782.0	10,422.0	134.9	76.1	-167.83	-4,489.4	-827.4	3,388.3	3,323.0	65.30	51.886
	17,800.0	9,600.0	14,782.0	10,422.0	136.5	76.1	-167.83	-4,489.4	-827.4	3,485.2	3,420.0	65.22	53.437
	17,900.0	9,600.0	14,782.0	10,422.0	138.1	76.1	-167.83	-4,489.4	-827.4	3,582.3	3,517.2	65.15	54.986
	18,000.0	9,600.0	14,782.0	10,422.0	139.7	76.1	-167.83	-4,489.4	-827.4	3,679.5	3,614.5	65.09	56.532
	18,100.0	9,600.0	14,782.0	10,422.0	141.3	76.1	-167.83	-4,489.4	-827.4	3,776.9	3,711.9	65.04	58.074
	18,200.0	9,600.0	14,782.0	10,422.0	142.9	76.1	-167.83	-4,489.4	-827.4	3,874.4	3,809.4	64.99	59.614
	18,300.0	9,600.0	14,782.0	10,422.0	144.5	76.1	-167.83	-4,489.4	-827.4	3,972.1	3,907.1	64.96	61.150
	18,400.0	9,600.0	14,782.0	10,422.0	146.1	76.1	-167.83	-4,489.4	-827.4	4,069.8	4,004.9	64.93	62.682
	18,500.0	9,600.0	14,782.0	10,422.0	147.7	76.1	-167.83	-4,489.4	-827.4	4,167.7	4,102.8	64.91	64.211
	18,600.0	9,600.0	14,782.0	10,422.0	149.3	76.1	-167.83	-4,489.4	-827.4	4,265.6	4,200.7	64.89	65.736
	18,700.0	9,600.0	14,782.0	10,422.0	150.9	76.1	-167.83	-4,489.4	-827.4	4,363.7	4,298.8	64.88	67.258
	18,800.0	9,600.0	14,782.0	10,422.0	152.5	76.1	-167.83	-4,489.4	-827.4	4,461.8	4,396.9	64.88	68.775
	18,900.0	9,600.0	14,782.0	10,422.0	154.1	76.1	-167.83	-4,489.4	-827.4	4,560.0	4,495.2	64.88	70.288
	19,000.0	9,600.0	14,782.0	10,422.0	155.7	76.1	-167.83	-4,489.4	-827.4	4,658.3	4,593.4	64.88	71.797
	19,100.0	9,600.0	14,782.0	10,422.0	157.3	76.1	-167.83	-4,489.4	-827.4	4,756.7	4,691.8	64.89	73.303
	19,200.0	9,600.0	14,782.0	10,422.0	158.9	76.1	-167.83	-4,489.4	-827.4	4,855.1	4,790.2	64.91	74.803
	19,300.0	9,600.0	14,782.0	10,422.0	160.5	76.1	-167.83	-4,489.4	-827.4	4,953.6	4,888.7	64.92	76.300
	19,400.0	9,600.0	14,782.0	10,422.0	162.1	76.1	-167.83	-4,489.4	-827.4	5,052.2	4,987.2	64.94	77.792
	19,500.0	9,600.0	14,782.0	10,422.0	163.7	76.1	-167.83	-4,489.4	-827.4	5,150.8	5,085.8	64.97	79.280
	19,600.0	9,600.0	14,782.0	10,422.0	165.3	76.1	-167.83	-4,489.4	-827.4	5,249.4	5,184.4	65.00	80.763
	19,700.0	9,600.0	14,782.0	10,422.0	166.9	76.1	-167.83	-4,489.4	-827.4	5,348.2	5,283.1	65.03	82.242
	19,800.0	9,600.0	14,782.0	10,422.0	168.6	76.1	-167.83	-4,489.4	-827.4	5,446.9	5,381.8	65.06	83.717
	19,871.5	9,600.0	14,782.0	10,422.0	169.7	76.1	-167.83	-4,489.4	-827.4	5,517.6	5,452.5	65.09	84.768

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #505H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	5.2	5.2	0.0	0.0	68.95	233.3	606.2	649.6					
100.0	100.0	109.3	109.3	0.3	0.7	68.95	233.2	605.9	649.2	648.2	1.01	640.851		
200.0	200.0	207.7	207.7	0.6	1.2	68.92	233.3	605.2	648.6	646.9	1.78	364.362		
300.0	300.0	312.0	312.0	1.0	1.4	68.93	232.9	604.6	648.0	645.6	2.37	273.733		
400.0	400.0	408.2	408.2	1.3	1.6	68.94	232.7	604.1	647.4	644.5	2.90	223.054		
500.0	500.0	511.4	511.4	1.7	1.8	68.95	232.3	603.7	646.9	643.4	3.52	183.672		
600.0	600.0	611.7	611.7	2.1	2.0	68.95	232.1	603.1	646.2	642.2	4.07	158.938		
700.0	700.0	711.2	711.2	2.4	2.2	68.96	231.6	602.1	645.1	640.5	4.63	139.328		
800.0	800.0	808.6	808.6	2.8	2.4	68.97	231.2	601.4	644.3	639.1	5.17	124.545		
900.0	900.0	907.8	907.8	3.1	2.6	68.94	231.3	600.9	643.9	638.2	5.68	113.283		
1,000.0	1,000.0	1,007.4	1,007.4	3.5	2.7	68.91	231.5	600.3	643.4	637.2	6.22	103.404		
1,100.0	1,100.0	1,107.1	1,107.1	3.8	3.0	68.90	231.5	600.1	643.2	636.4	6.82	94.291		
1,200.0	1,200.0	1,207.7	1,207.7	4.2	3.1	68.88	231.6	599.6	642.8	635.4	7.33	87.637		
1,300.0	1,300.0	1,309.6	1,309.6	4.6	3.4	68.81	232.0	598.6	642.0	634.1	7.91	81.206		
1,400.0	1,400.0	1,412.8	1,412.8	4.9	3.6	68.77	232.1	597.6	641.1	632.7	8.45	75.852		
1,500.0	1,500.0	1,512.1	1,512.0	5.3	3.8	68.68	232.7	596.3	640.2	631.2	8.98	71.279		
1,600.0	1,600.0	1,615.0	1,614.9	5.6	4.0	68.61	232.9	594.5	638.6	629.0	9.55	66.851		
1,700.0	1,700.0	1,712.9	1,712.8	6.0	4.2	68.57	232.9	593.4	637.5	627.3	10.14	62.846		
1,800.0	1,800.0	1,813.9	1,813.8	6.4	4.5	68.51	233.0	591.8	636.0	625.3	10.75	59.174		
1,900.0	1,900.0	1,916.8	1,916.7	6.7	4.9	68.41	233.4	589.9	634.5	623.0	11.53	55.024		
2,000.0	2,000.0	2,024.0	2,023.8	7.1	5.4	68.32	233.5	587.2	632.2	619.9	12.34	51.241		
2,100.0	2,100.0	2,135.8	2,135.6	7.4	5.8	136.11	234.5	582.1	629.5	616.5	13.06	48.217		
2,200.0	2,199.8	2,246.1	2,245.6	7.8	6.3	136.08	236.5	574.5	627.6	613.8	13.77	45.574		
2,274.4	2,273.9	2,323.0	2,322.1	8.0	6.5	136.12	238.3	568.2	627.0	612.7	14.28	43.903 CC		
2,300.0	2,299.5	2,348.9	2,348.0	8.1	6.6	136.15	239.0	566.0	627.1	612.6	14.46	43.374 ES		
2,400.0	2,398.7	2,447.8	2,446.4	8.5	7.0	136.38	241.7	557.6	629.0	613.9	15.14	41.538		
2,500.0	2,497.5	2,546.5	2,544.8	8.9	7.4	136.79	244.3	549.4	633.7	617.8	15.84	40.015		
2,600.0	2,595.6	2,645.7	2,643.6	9.2	7.8	137.34	247.3	541.2	641.1	624.5	16.54	38.765		
2,700.0	2,693.4	2,744.4	2,741.9	9.6	8.2	138.03	250.8	532.9	649.8	632.6	17.24	37.701		
2,800.0	2,791.3	2,841.4	2,838.5	10.0	8.5	138.66	254.6	524.8	659.0	641.0	17.93	36.748		
2,900.0	2,889.1	2,936.7	2,933.4	10.4	8.9	139.24	258.7	517.2	668.6	650.0	18.62	35.916		
3,000.0	2,986.9	3,027.1	3,023.5	10.8	9.2	139.77	263.0	510.8	679.3	660.1	19.27	35.253		
3,100.0	3,084.7	3,125.7	3,121.8	11.3	9.5	140.34	267.8	504.5	690.7	670.8	19.93	34.658		
3,200.0	3,182.5	3,222.7	3,218.5	11.7	9.9	140.88	272.6	498.5	702.5	681.9	20.59	34.126		
3,300.0	3,280.3	3,326.8	3,322.2	12.1	10.2	141.42	277.8	491.7	714.0	692.7	21.27	33.574		
3,400.0	3,378.1	3,424.8	3,419.9	12.5	10.6	141.92	282.7	485.0	725.2	703.3	21.94	33.051		
3,500.0	3,476.0	3,523.3	3,518.1	13.0	11.0	142.45	287.0	478.9	737.0	714.3	22.63	32.568		
3,600.0	3,573.8	3,629.2	3,623.6	13.4	11.3	143.01	291.5	471.5	748.0	724.7	23.35	32.035		
3,700.0	3,671.6	3,728.7	3,722.8	13.9	11.7	143.52	295.5	464.2	758.7	734.6	24.07	31.522		
3,800.0	3,769.4	3,828.9	3,822.6	14.3	12.1	144.04	299.4	457.0	769.5	744.7	24.80	31.034		
3,900.0	3,867.2	3,928.1	3,921.4	14.8	12.5	144.54	303.0	449.6	780.2	754.6	25.53	30.562		
4,000.0	3,965.0	4,032.0	4,025.0	15.2	12.9	145.08	306.6	441.9	790.8	764.5	26.28	30.089		
4,100.0	4,062.8	4,135.7	4,128.3	15.7	13.3	145.59	310.1	433.4	800.7	773.7	27.05	29.604		
4,200.0	4,160.7	4,230.3	4,222.5	16.1	13.6	146.02	313.6	425.5	810.7	782.9	27.79	29.178		
4,300.0	4,258.5	4,328.1	4,320.0	16.6	14.0	146.52	316.5	418.0	821.2	792.7	28.54	28.776		
4,400.0	4,356.3	4,429.8	4,421.4	17.1	14.4	147.09	318.4	410.4	831.7	802.4	29.32	28.366		
4,500.0	4,454.1	4,534.0	4,525.2	17.5	14.8	147.67	320.3	402.0	841.8	811.7	30.12	27.949		
4,600.0	4,551.9	4,635.2	4,626.0	18.0	15.2	148.22	322.0	393.5	851.5	820.6	30.92	27.543		
4,700.0	4,649.7	4,730.3	4,720.8	18.4	15.5	148.71	323.8	385.6	861.5	829.8	31.69	27.187		
4,800.0	4,747.5	4,826.2	4,816.4	18.9	15.9	149.18	325.9	378.1	872.0	839.6	32.45	26.871		
4,900.0	4,845.4	4,930.3	4,920.1	19.4	16.3	149.66	328.4	369.6	882.3	849.1	33.25	26.540		
5,000.0	4,943.2	5,028.4	5,017.8	19.9	16.7	150.10	330.9	361.4	892.6	858.5	34.02	26.237		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #505H - OWB - AWP														Offset Site Error: 0.0 usft	
Survey Program: 143-MWD+HRGM				Offset				Rule Assigned:				Offset Well Error: 0.0 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.0	5,041.0	5,124.4	5,113.5	20.3	17.1	150.51	333.4	353.7	903.1	868.4	34.78	25.967			
5,200.0	5,138.8	5,220.6	5,209.4	20.8	17.4	150.91	336.1	346.3	914.0	878.5	35.53	25.722			
5,300.0	5,236.6	5,318.5	5,307.0	21.3	17.8	151.28	339.1	339.0	925.4	889.1	36.29	25.500			
5,400.0	5,334.4	5,419.0	5,407.1	21.7	18.2	151.65	342.5	331.4	936.5	899.5	37.05	25.278			
5,500.0	5,432.3	5,513.8	5,501.6	22.2	18.5	151.97	345.8	324.3	947.9	910.1	37.78	25.087			
5,600.0	5,530.1	5,605.1	5,592.6	22.7	18.9	152.30	348.7	318.1	960.0	921.5	38.50	24.936			
5,700.0	5,627.9	5,697.4	5,684.7	23.2	19.2	152.65	351.2	312.7	973.0	933.8	39.20	24.818			
5,800.0	5,725.7	5,790.4	5,777.6	23.6	19.5	153.00	353.7	307.8	986.5	946.6	39.91	24.721			
5,900.0	5,823.5	5,890.9	5,877.9	24.1	19.9	153.37	356.4	302.9	1,000.6	960.0	40.64	24.620			
6,000.0	5,921.3	6,013.4	6,000.1	24.6	20.4	153.79	359.9	295.4	1,013.5	972.0	41.49	24.427			
6,100.0	6,019.1	6,136.9	6,123.0	25.1	20.8	154.07	365.7	284.4	1,023.7	981.4	42.34	24.177			
6,200.0	6,117.0	6,246.8	6,232.1	25.5	21.3	154.25	371.6	272.8	1,032.3	989.1	43.15	23.923			
6,300.0	6,214.8	6,349.1	6,333.6	26.0	21.7	154.42	377.2	261.3	1,040.3	996.4	43.94	23.676			
6,400.0	6,312.6	6,450.6	6,434.3	26.5	22.1	154.58	382.7	249.8	1,048.2	1,003.4	44.73	23.432			
6,500.0	6,410.4	6,544.7	6,527.7	27.0	22.5	154.76	387.2	239.1	1,056.0	1,010.5	45.51	23.206			
6,600.0	6,508.2	6,635.6	6,618.1	27.5	22.9	154.99	390.6	229.7	1,064.8	1,018.6	46.27	23.013			
6,700.0	6,606.0	6,734.3	6,716.2	27.9	23.3	155.25	394.0	219.9	1,074.0	1,027.0	47.06	22.822			
6,800.0	6,703.8	6,835.2	6,816.6	28.4	23.7	155.50	397.6	209.8	1,083.2	1,035.3	47.86	22.633			
6,900.0	6,801.7	6,937.5	6,918.2	28.9	24.1	155.75	401.3	199.4	1,092.2	1,043.5	48.66	22.443			
7,000.0	6,899.5	7,034.2	7,014.3	29.4	24.5	155.99	404.6	189.4	1,101.1	1,051.6	49.45	22.266			
7,100.0	6,997.3	7,132.1	7,111.7	29.9	24.9	156.24	407.8	179.6	1,110.4	1,060.1	50.24	22.100			
7,200.0	7,095.1	7,231.3	7,210.4	30.4	25.3	156.48	411.1	169.8	1,119.7	1,068.6	51.04	21.939			
7,300.0	7,192.9	7,326.9	7,305.5	30.8	25.7	156.73	414.2	160.4	1,129.2	1,077.3	51.82	21.791			
7,376.3	7,267.6	7,383.0	7,361.3	31.2	25.9	156.87	415.9	155.4	1,137.1	1,084.7	52.32	21.731			
7,400.0	7,290.8	7,393.2	7,371.5	31.3	26.0	156.91	416.2	154.6	1,139.8	1,087.4	52.43	21.738			
7,500.0	7,389.1	7,438.0	7,416.2	31.8	26.1	157.07	418.2	152.7	1,152.5	1,099.6	52.82	21.819			
7,600.0	7,488.0	7,477.0	7,455.1	32.2	26.1	157.18	420.6	152.8	1,166.6	1,113.7	52.97	22.024			
7,700.0	7,587.3	7,530.7	7,508.6	32.6	26.1	157.21	424.8	155.4	1,182.1	1,129.1	52.99	22.308			
7,800.0	7,687.0	7,627.0	7,604.2	33.0	26.0	157.07	433.1	163.0	1,197.3	1,144.2	53.08	22.556			
7,900.0	7,786.9	7,813.3	7,789.8	33.3	26.0	156.58	447.8	169.2	1,204.7	1,151.0	53.63	22.464			
7,976.3	7,863.2	7,931.3	7,907.6	33.5	26.3	88.40	454.4	166.9	1,204.1	1,149.9	54.14	22.241			
8,000.0	7,886.9	7,963.0	7,939.2	33.6	26.4	88.32	456.0	165.7	1,203.2	1,149.0	54.30	22.161			
8,100.0	7,986.9	8,099.9	8,075.8	33.9	26.8	88.05	461.4	158.0	1,197.7	1,142.7	55.06	21.754			
8,200.0	8,086.9	8,217.1	8,192.5	34.2	27.3	87.91	464.0	148.6	1,189.8	1,133.9	55.82	21.314			
8,300.0	8,186.9	8,308.9	8,284.0	34.5	27.6	87.82	465.5	141.1	1,181.6	1,125.1	56.47	20.923			
8,400.0	8,286.9	8,401.0	8,375.9	34.8	28.0	87.78	466.2	134.2	1,174.2	1,117.1	57.13	20.554			
8,500.0	8,386.9	8,502.3	8,476.9	35.1	28.3	87.76	466.3	126.9	1,167.0	1,109.1	57.83	20.180			
8,600.0	8,486.9	8,610.5	8,584.8	35.4	28.7	87.74	466.2	118.8	1,159.5	1,101.0	58.57	19.798			
8,700.0	8,586.9	8,713.8	8,687.7	35.7	29.0	87.78	465.2	110.1	1,151.0	1,091.7	59.30	19.411			
8,800.0	8,686.9	8,823.2	8,796.7	36.0	29.4	87.85	463.5	101.0	1,142.7	1,082.7	60.06	19.026			
8,900.0	8,786.9	8,942.0	8,914.9	36.3	29.8	87.87	462.5	89.0	1,132.5	1,071.7	60.87	18.607			
9,000.0	8,886.9	9,039.5	9,011.8	36.6	30.2	87.87	462.1	78.4	1,121.7	1,060.1	61.59	18.212			
9,100.0	8,986.9	9,147.2	9,118.9	36.9	30.6	87.87	461.7	66.5	1,110.6	1,048.2	62.36	17.810			
9,200.0	9,086.9	9,233.0	9,204.2	37.2	30.9	87.86	461.6	57.0	1,099.6	1,036.5	63.04	17.443			
9,235.6	9,122.5	9,263.5	9,234.5	37.4	31.1	87.85	461.7	53.9	1,095.9	1,032.7	63.28	17.320			
9,250.0	9,136.9	9,274.1	9,245.1	37.4	31.1	-91.98	461.7	52.8	1,094.6	1,031.2	63.36	17.275			
9,275.0	9,161.8	9,292.7	9,263.5	37.5	31.2	-92.32	461.9	51.1	1,092.3	1,028.8	63.49	17.204			
9,300.0	9,186.7	9,311.1	9,281.9	37.5	31.2	-92.68	462.1	49.5	1,090.3	1,026.7	63.61	17.139			
9,325.0	9,211.4	9,327.0	9,297.7	37.6	31.3	-93.04	462.3	48.3	1,088.5	1,024.8	63.71	17.085			
9,350.0	9,235.8	9,350.7	9,321.4	37.6	31.4	-93.52	462.7	46.4	1,086.8	1,023.0	63.82	17.030			
9,375.0	9,259.9	9,371.3	9,341.9	37.7	31.5	-94.00	463.0	44.9	1,085.4	1,021.5	63.90	16.985			
9,400.0	9,283.6	9,391.5	9,362.1	37.8	31.5	-94.50	463.3	43.5	1,084.2	1,020.2	63.97	16.948			

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #505H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,425.0	9,306.9	9,411.4	9,381.9	37.8	31.6	-95.02	463.7	42.2	1,083.2	1,019.2	64.03	16.918		
9,450.0	9,329.7	9,421.0	9,391.5	37.8	31.7	-95.31	463.8	41.5	1,082.6	1,018.6	64.01	16.913		
9,475.0	9,352.0	9,446.8	9,417.3	37.9	31.7	-95.99	464.3	39.9	1,082.2	1,018.1	64.06	16.893		
9,485.3	9,361.0	9,453.7	9,424.1	37.9	31.8	-96.18	464.4	39.6	1,082.2	1,018.1	64.06	16.893		
9,500.0	9,373.6	9,463.4	9,433.8	37.9	31.8	-96.44	464.5	39.0	1,082.2	1,018.2	64.05	16.896		
9,525.0	9,394.5	9,479.4	9,449.8	37.9	31.9	-96.87	464.8	38.2	1,082.7	1,018.7	64.02	16.911		
9,550.0	9,414.6	9,494.9	9,465.2	38.0	31.9	-97.25	465.0	37.5	1,083.6	1,019.6	63.98	16.937		
9,575.0	9,434.0	9,515.0	9,485.3	38.0	32.0	-97.78	465.3	36.7	1,084.9	1,021.0	63.94	16.967		
9,600.0	9,452.5	9,525.2	9,495.6	38.0	32.0	-97.94	465.4	36.3	1,086.7	1,022.9	63.83	17.025		
9,625.0	9,470.1	9,540.7	9,511.0	38.0	32.1	-98.24	465.6	35.7	1,089.1	1,025.3	63.74	17.087		
9,650.0	9,486.8	9,555.3	9,525.6	38.0	32.1	-98.48	465.8	35.2	1,091.9	1,028.3	63.62	17.163		
9,675.0	9,502.4	9,569.0	9,539.3	38.0	32.2	-98.64	465.9	34.8	1,095.3	1,031.8	63.49	17.253		
9,700.0	9,517.0	9,581.7	9,552.0	38.0	32.2	-98.71	466.1	34.3	1,099.3	1,036.0	63.34	17.357		
9,725.0	9,530.6	9,594.3	9,564.6	38.0	32.2	-98.72	466.2	34.0	1,103.9	1,040.7	63.17	17.475		
9,750.0	9,543.0	9,607.6	9,577.8	38.0	32.3	-98.71	466.4	33.6	1,109.0	1,046.0	62.99	17.605		
9,775.0	9,554.3	9,619.5	9,589.8	38.0	32.3	-98.57	466.5	33.2	1,114.8	1,052.0	62.80	17.752		
9,800.0	9,564.3	9,648.5	9,618.7	38.0	32.5	-99.19	466.5	32.1	1,121.1	1,058.3	62.79	17.855		
9,825.0	9,573.2	10,103.4	10,009.0	38.0	33.0	-114.26	273.8	-10.7	1,123.7	1,059.6	64.17	17.513		
9,850.0	9,580.8	10,132.8	10,025.5	38.0	33.0	-114.65	249.6	-13.7	1,124.3	1,060.1	64.17	17.521		
9,875.0	9,587.2	10,158.9	10,039.1	38.0	33.0	-114.93	227.5	-15.8	1,125.4	1,061.2	64.17	17.539		
9,900.0	9,592.3	10,189.7	10,054.1	37.9	33.0	-115.23	200.6	-17.9	1,127.0	1,062.8	64.19	17.557		
9,925.0	9,596.1	10,209.7	10,063.3	37.9	33.0	-115.31	182.9	-19.0	1,129.2	1,065.0	64.16	17.599		
9,950.0	9,598.6	10,233.5	10,073.5	37.9	33.1	-115.40	161.5	-19.9	1,132.0	1,067.8	64.15	17.647		
9,975.0	9,599.8	10,265.7	10,085.8	37.9	33.1	-115.55	131.7	-20.3	1,135.3	1,071.1	64.21	17.683		
9,985.6	9,600.0	10,286.8	10,093.1	37.9	33.1	-115.71	111.9	-20.4	1,136.9	1,072.6	64.30	17.682		
10,000.0	9,600.0	10,371.1	10,114.5	37.9	33.2	-116.68	30.4	-20.0	1,138.5	1,073.5	64.99	17.519		
10,100.0	9,600.0	10,520.1	10,128.2	37.9	33.6	-117.23	-117.8	-16.1	1,144.4	1,078.2	66.14	17.303		
10,200.0	9,600.0	10,617.9	10,131.4	38.0	34.0	-117.31	-215.4	-12.5	1,148.6	1,081.7	66.88	17.173		
10,300.0	9,600.0	10,724.4	10,135.9	38.1	34.4	-117.44	-321.8	-9.1	1,152.8	1,085.0	67.86	16.989		
10,400.0	9,600.0	10,831.6	10,139.4	38.3	34.9	-117.55	-428.9	-6.4	1,156.1	1,087.1	68.97	16.762		
10,500.0	9,600.0	10,936.8	10,142.4	38.7	35.4	-117.64	-534.0	-3.8	1,159.0	1,088.9	70.16	16.519		
10,600.0	9,600.0	11,040.3	10,146.1	39.1	35.9	-117.78	-637.4	-2.3	1,161.5	1,090.1	71.42	16.263		
10,700.0	9,600.0	11,148.5	10,149.2	39.6	36.6	-117.89	-745.6	-0.7	1,163.6	1,090.7	72.87	15.968		
10,800.0	9,600.0	11,262.5	10,150.3	40.1	37.3	-117.93	-859.5	0.4	1,164.3	1,089.8	74.55	15.617		
10,900.0	9,600.0	11,355.4	10,151.7	40.8	37.9	-117.99	-952.5	1.2	1,165.2	1,089.3	75.89	15.354		
11,000.0	9,600.0	11,460.6	10,154.2	41.5	38.7	-118.10	-1,057.6	1.5	1,166.1	1,088.5	77.54	15.038		
11,100.0	9,600.0	11,566.5	10,156.2	42.3	39.5	-118.20	-1,163.5	1.4	1,166.3	1,087.1	79.29	14.710		
11,200.0	9,600.0	11,666.0	10,157.4	43.1	40.3	-118.27	-1,263.0	1.5	1,166.4	1,085.5	80.97	14.406		
11,300.0	9,600.0	11,758.7	10,158.2	44.0	41.1	-118.30	-1,355.7	2.0	1,166.8	1,084.3	82.56	14.133		
11,400.0	9,600.0	11,856.7	10,160.5	44.9	41.9	-118.40	-1,453.6	2.6	1,167.9	1,083.6	84.31	13.852		
11,500.0	9,600.0	11,970.7	10,163.0	45.9	42.9	-118.53	-1,567.6	2.5	1,168.3	1,081.8	86.50	13.508		
11,600.0	9,600.0	12,087.0	10,166.1	46.9	44.0	-118.73	-1,683.9	0.2	1,167.4	1,078.6	88.77	13.151		
11,700.0	9,600.0	12,180.3	10,168.5	47.9	44.9	-118.90	-1,777.1	-1.9	1,166.1	1,075.5	90.54	12.880		
11,800.0	9,600.0	12,281.8	10,171.6	49.0	45.8	-119.11	-1,878.6	-4.3	1,165.0	1,072.4	92.53	12.590		
11,900.0	9,600.0	12,381.9	10,175.0	50.1	46.8	-119.33	-1,978.5	-6.9	1,163.8	1,069.3	94.52	12.312		
12,000.0	9,600.0	12,480.0	10,177.6	51.2	47.8	-119.51	-2,076.6	-9.1	1,162.6	1,066.1	96.51	12.047		
12,100.0	9,600.0	12,575.9	10,179.6	52.4	48.8	-119.64	-2,172.4	-10.4	1,161.9	1,063.5	98.48	11.799		
12,200.0	9,600.0	12,687.1	10,180.4	53.6	50.0	-119.72	-2,283.6	-11.6	1,160.8	1,059.9	100.91	11.504		
12,300.0	9,600.0	12,790.3	10,181.4	54.8	51.1	-119.84	-2,386.8	-13.9	1,158.9	1,055.7	103.14	11.236		
12,400.0	9,600.0	12,886.2	10,182.3	56.1	52.2	-119.93	-2,482.7	-15.6	1,157.2	1,052.0	105.21	10.999		
12,500.0	9,600.0	12,974.5	10,182.9	57.3	53.1	-120.00	-2,571.0	-16.7	1,156.0	1,048.9	107.11	10.793		
12,532.4	9,600.0	13,000.8	10,183.5	57.7	53.4	-120.03	-2,597.3	-17.0	1,155.9	1,048.3	107.65	10.738		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #505H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,600.0	9,600.0	13,060.7	10,185.5	58.6	54.1	-120.14	-2,657.1	-17.4	1,156.2	1,047.3	108.91	10.616		
12,700.0	9,600.0	13,156.7	10,188.1	59.9	55.2	-120.26	-2,753.1	-17.4	1,157.1	1,046.1	111.03	10.422		
12,800.0	9,600.0	13,262.8	10,189.9	61.2	56.4	-120.34	-2,859.2	-16.7	1,158.0	1,044.5	113.48	10.204		
12,900.0	9,600.0	13,371.5	10,191.6	62.5	57.7	-120.43	-2,967.8	-16.9	1,158.1	1,042.1	116.02	9.982		
12,989.9	9,600.0	13,458.5	10,192.5	63.7	58.7	-120.49	-3,054.8	-17.2	1,157.9	1,039.9	118.02	9.811		
13,000.0	9,600.0	13,467.9	10,192.5	63.9	58.8	-120.49	-3,064.3	-17.1	1,157.9	1,039.6	118.23	9.793		
13,100.0	9,600.0	13,563.8	10,193.0	65.2	59.9	-120.51	-3,160.2	-16.5	1,158.1	1,037.7	120.47	9.614		
13,200.0	9,600.0	13,663.7	10,192.9	66.6	61.1	-120.50	-3,260.1	-15.4	1,158.6	1,035.7	122.85	9.431		
13,300.0	9,600.0	13,761.7	10,192.3	68.0	62.3	-120.44	-3,358.0	-13.8	1,159.1	1,033.9	125.22	9.257		
13,400.0	9,600.0	13,862.0	10,192.2	69.4	63.5	-120.42	-3,458.4	-12.5	1,159.7	1,032.0	127.66	9.084		
13,500.0	9,600.0	13,959.0	10,192.3	70.8	64.7	-120.41	-3,555.3	-11.2	1,160.4	1,030.4	130.00	8.926		
13,600.0	9,600.0	14,065.6	10,194.0	72.2	66.1	-120.48	-3,662.0	-10.7	1,161.0	1,028.4	132.61	8.755		
13,700.0	9,600.0	14,192.6	10,195.1	73.6	67.6	-120.59	-3,788.9	-12.1	1,159.9	1,024.1	135.80	8.541		
13,800.0	9,600.0	14,292.4	10,196.2	75.1	68.9	-120.72	-3,888.7	-14.9	1,157.5	1,019.4	138.18	8.377		
13,900.0	9,600.0	14,400.4	10,199.1	76.5	70.2	-120.95	-3,996.6	-18.4	1,155.7	1,014.9	140.74	8.212		
14,000.0	9,600.0	14,496.6	10,200.4	78.0	71.5	-121.11	-4,092.7	-22.0	1,152.7	1,009.7	143.00	8.060		
14,100.0	9,600.0	14,590.2	10,202.7	79.4	72.6	-121.30	-4,186.2	-25.0	1,150.7	1,005.6	145.18	7.927		
14,200.0	9,600.0	14,678.7	10,205.6	80.9	73.8	-121.51	-4,274.6	-27.7	1,149.2	1,002.1	147.18	7.809		
14,264.3	9,600.0	14,733.5	10,208.0	81.8	74.5	-121.65	-4,329.3	-29.1	1,149.0	1,000.6	148.38	7.744		
14,300.0	9,600.0	14,765.6	10,209.4	82.4	74.9	-121.74	-4,361.4	-29.7	1,149.1	1,000.0	149.10	7.707		
14,400.0	9,600.0	14,857.8	10,213.4	83.8	76.1	-121.95	-4,453.5	-30.9	1,149.8	998.6	151.19	7.605		
14,500.0	9,600.0	14,951.8	10,216.4	85.3	77.3	-122.09	-4,547.5	-30.8	1,151.0	997.6	153.39	7.504		
14,600.0	9,600.0	15,045.0	10,219.0	86.8	78.5	-122.19	-4,640.6	-29.8	1,152.8	997.2	155.60	7.409		
14,700.0	9,600.0	15,112.0	10,220.5	88.3	79.4	-122.23	-4,707.6	-28.7	1,155.5	998.6	156.90	7.364 SF		
14,800.0	9,600.0	15,112.0	10,220.5	89.8	79.4	-122.23	-4,707.6	-28.7	1,164.7	1,009.6	155.16	7.507		
14,900.0	9,600.0	15,112.0	10,220.5	91.3	79.4	-122.23	-4,707.6	-28.7	1,182.4	1,029.9	152.50	7.754		
15,000.0	9,600.0	15,112.0	10,220.5	92.8	79.4	-122.23	-4,707.6	-28.7	1,208.1	1,059.1	149.07	8.105		
15,100.0	9,600.0	15,112.0	10,220.5	94.4	79.4	-122.23	-4,707.6	-28.7	1,241.4	1,096.4	145.03	8.559		
15,200.0	9,600.0	15,112.0	10,220.5	95.9	79.4	-122.23	-4,707.6	-28.7	1,281.6	1,141.1	140.58	9.117		
15,300.0	9,600.0	15,112.0	10,220.5	97.4	79.4	-122.23	-4,707.6	-28.7	1,328.2	1,192.3	135.88	9.775		
15,400.0	9,600.0	15,112.0	10,220.5	98.9	79.4	-122.23	-4,707.6	-28.7	1,380.4	1,249.3	131.08	10.531		
15,500.0	9,600.0	15,112.0	10,220.5	100.5	79.4	-122.23	-4,707.6	-28.7	1,437.7	1,311.4	126.30	11.383		
15,600.0	9,600.0	15,112.0	10,220.5	102.0	79.4	-122.23	-4,707.6	-28.7	1,499.5	1,377.9	121.63	12.328		
15,700.0	9,600.0	15,112.0	10,220.5	103.6	79.4	-122.23	-4,707.6	-28.7	1,565.3	1,448.1	117.14	13.362		
15,800.0	9,600.0	15,112.0	10,220.5	105.1	79.4	-122.23	-4,707.6	-28.7	1,634.5	1,521.6	112.87	14.481		
15,900.0	9,600.0	15,112.0	10,220.5	106.7	79.4	-122.23	-4,707.6	-28.7	1,706.8	1,597.9	108.84	15.681		
16,000.0	9,600.0	15,112.0	10,220.5	108.2	79.4	-122.23	-4,707.6	-28.7	1,781.7	1,676.6	105.07	16.957		
16,100.0	9,600.0	15,112.0	10,220.5	109.8	79.4	-122.23	-4,707.6	-28.7	1,859.0	1,757.5	101.55	18.306		
16,200.0	9,600.0	15,112.0	10,220.5	111.3	79.4	-122.23	-4,707.6	-28.7	1,938.4	1,840.1	98.29	19.722		
16,300.0	9,600.0	15,112.0	10,220.5	112.9	79.4	-122.23	-4,707.6	-28.7	2,019.7	1,924.4	95.27	21.200		
16,400.0	9,600.0	15,112.0	10,220.5	114.4	79.4	-122.23	-4,707.6	-28.7	2,102.5	2,010.0	92.47	22.737		
16,500.0	9,600.0	15,112.0	10,220.5	116.0	79.4	-122.23	-4,707.6	-28.7	2,186.8	2,096.9	89.89	24.327		
16,600.0	9,600.0	15,112.0	10,220.5	117.6	79.4	-122.23	-4,707.6	-28.7	2,272.3	2,184.8	87.52	25.965		
16,700.0	9,600.0	15,112.0	10,220.5	119.1	79.4	-122.23	-4,707.6	-28.7	2,359.0	2,273.7	85.33	27.647		
16,800.0	9,600.0	15,112.0	10,220.5	120.7	79.4	-122.23	-4,707.6	-28.7	2,446.7	2,363.4	83.31	29.370		
16,900.0	9,600.0	15,112.0	10,220.5	122.3	79.4	-122.23	-4,707.6	-28.7	2,535.3	2,453.9	81.45	31.127		
17,000.0	9,600.0	15,112.0	10,220.5	123.9	79.4	-122.23	-4,707.6	-28.7	2,624.8	2,545.0	79.74	32.916		
17,100.0	9,600.0	15,112.0	10,220.5	125.4	79.4	-122.23	-4,707.6	-28.7	2,715.0	2,636.8	78.17	34.732		
17,200.0	9,600.0	15,112.0	10,220.5	127.0	79.4	-122.23	-4,707.6	-28.7	2,805.8	2,729.1	76.72	36.572		
17,300.0	9,600.0	15,112.0	10,220.5	128.6	79.4	-122.23	-4,707.6	-28.7	2,897.2	2,821.8	75.38	38.432		
17,400.0	9,600.0	15,112.0	10,220.5	130.2	79.4	-122.23	-4,707.6	-28.7	2,989.2	2,915.1	74.16	40.310		
17,500.0	9,600.0	15,112.0	10,220.5	131.8	79.4	-122.23	-4,707.6	-28.7	3,081.7	3,008.7	73.03	42.201		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #505H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,600.0	9,600.0	15,112.0	10,220.5	133.3	79.4	-122.23	-4,707.6	-28.7	3,174.7	3,102.7	71.98	44.102		
17,700.0	9,600.0	15,112.0	10,220.5	134.9	79.4	-122.23	-4,707.6	-28.7	3,268.0	3,197.0	71.02	46.013		
17,800.0	9,600.0	15,112.0	10,220.5	136.5	79.4	-122.23	-4,707.6	-28.7	3,361.8	3,291.6	70.14	47.929		
17,900.0	9,600.0	15,112.0	10,220.5	138.1	79.4	-122.23	-4,707.6	-28.7	3,455.9	3,386.5	69.33	49.849		
18,000.0	9,600.0	15,112.0	10,220.5	139.7	79.4	-122.23	-4,707.6	-28.7	3,550.3	3,481.7	68.58	51.770		
18,100.0	9,600.0	15,112.0	10,220.5	141.3	79.4	-122.23	-4,707.6	-28.7	3,645.0	3,577.1	67.89	53.692		
18,200.0	9,600.0	15,112.0	10,220.5	142.9	79.4	-122.23	-4,707.6	-28.7	3,740.0	3,672.7	67.25	55.611		
18,300.0	9,600.0	15,112.0	10,220.5	144.5	79.4	-122.23	-4,707.6	-28.7	3,835.2	3,768.5	66.67	57.528		
18,400.0	9,600.0	15,112.0	10,220.5	146.1	79.4	-122.23	-4,707.6	-28.7	3,930.7	3,864.6	66.13	59.439		
18,500.0	9,600.0	15,112.0	10,220.5	147.7	79.4	-122.23	-4,707.6	-28.7	4,026.4	3,960.8	65.64	61.345		
18,600.0	9,600.0	15,112.0	10,220.5	149.3	79.4	-122.23	-4,707.6	-28.7	4,122.3	4,057.1	65.18	63.244		
18,700.0	9,600.0	15,112.0	10,220.5	150.9	79.4	-122.23	-4,707.6	-28.7	4,218.4	4,153.6	64.76	65.136		
18,800.0	9,600.0	15,112.0	10,220.5	152.5	79.4	-122.23	-4,707.6	-28.7	4,314.7	4,250.3	64.38	67.018		
18,900.0	9,600.0	15,112.0	10,220.5	154.1	79.4	-122.23	-4,707.6	-28.7	4,411.1	4,347.1	64.03	68.892		
19,000.0	9,600.0	15,112.0	10,220.5	155.7	79.4	-122.23	-4,707.6	-28.7	4,507.7	4,444.0	63.71	70.756		
19,100.0	9,600.0	15,112.0	10,220.5	157.3	79.4	-122.23	-4,707.6	-28.7	4,604.4	4,541.0	63.41	72.610		
19,200.0	9,600.0	15,112.0	10,220.5	158.9	79.4	-122.23	-4,707.6	-28.7	4,701.3	4,638.2	63.14	74.453		
19,300.0	9,600.0	15,112.0	10,220.5	160.5	79.4	-122.23	-4,707.6	-28.7	4,798.3	4,735.4	62.90	76.285		
19,400.0	9,600.0	15,112.0	10,220.5	162.1	79.4	-122.23	-4,707.6	-28.7	4,895.4	4,832.8	62.68	78.106		
19,500.0	9,600.0	15,112.0	10,220.5	163.7	79.4	-122.23	-4,707.6	-28.7	4,992.7	4,930.2	62.47	79.916		
19,600.0	9,600.0	15,112.0	10,220.5	165.3	79.4	-122.23	-4,707.6	-28.7	5,090.0	5,027.7	62.29	81.714		
19,700.0	9,600.0	15,112.0	10,220.5	166.9	79.4	-122.23	-4,707.6	-28.7	5,187.5	5,125.3	62.13	83.500		
19,800.0	9,600.0	15,112.0	10,220.5	168.6	79.4	-122.23	-4,707.6	-28.7	5,285.0	5,223.0	61.98	85.274		
19,871.5	9,600.0	15,112.0	10,220.5	169.7	79.4	-122.23	-4,707.6	-28.7	5,354.8	5,292.9	61.88	86.536		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #506H - AWP - OWB													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	6.1	6.1	0.0	0.0	69.84	233.5	635.9	677.4					
100.0	100.0	107.6	107.6	0.3	0.7	69.85	233.3	635.8	677.3	676.3	1.00	679.028		
200.0	200.0	210.0	210.0	0.6	1.2	69.86	233.0	635.5	676.9	675.0	1.82	371.184		
300.0	300.0	310.1	310.1	1.0	1.4	69.94	232.0	635.5	676.5	674.2	2.34	288.522		
400.0	400.0	410.6	410.6	1.3	1.6	69.98	231.4	635.2	676.1	673.2	2.86	235.997		
500.0	500.0	508.3	508.3	1.7	1.7	70.01	231.1	635.1	675.8	672.5	3.36	201.335		
600.0	600.0	608.2	608.2	2.1	1.9	70.01	230.9	634.8	675.5	671.6	3.86	175.016		
700.0	700.0	709.4	709.4	2.4	2.0	70.03	230.5	634.3	674.9	670.5	4.38	153.958		
800.0	800.0	810.6	810.6	2.8	2.2	70.03	230.3	633.7	674.3	669.3	4.96	136.001		
873.9	873.9	879.9	879.9	3.0	2.4	70.02	230.2	633.3	673.9	668.5	5.38	125.363		
900.0	900.0	904.8	904.8	3.1	2.4	70.01	230.4	633.3	673.9	668.4	5.50	122.503		
1,000.0	1,000.0	1,012.9	1,012.9	3.5	2.6	69.95	230.8	632.4	673.3	667.2	6.04	111.497		
1,100.0	1,100.0	1,119.5	1,119.5	3.8	2.9	69.92	230.8	631.1	672.1	665.4	6.71	100.185		
1,200.0	1,200.0	1,214.4	1,214.4	4.2	3.1	69.88	230.6	629.5	670.4	663.1	7.29	92.012		
1,300.0	1,300.0	1,313.8	1,313.8	4.6	3.2	69.82	230.9	628.2	669.4	661.6	7.81	85.736		
1,400.0	1,400.0	1,415.3	1,415.2	4.9	3.4	69.76	231.1	626.8	668.1	659.8	8.36	79.958		
1,500.0	1,500.0	1,517.3	1,517.2	5.3	3.6	69.67	231.6	625.1	666.7	657.8	8.90	74.950		
1,600.0	1,600.0	1,619.2	1,619.1	5.6	3.8	69.65	231.2	623.4	665.0	655.5	9.47	70.216		
1,700.0	1,700.0	1,718.5	1,718.4	6.0	4.0	69.65	230.6	621.8	663.3	653.3	10.05	66.036		
1,800.0	1,800.0	1,815.9	1,815.8	6.4	4.3	69.68	229.8	620.4	661.6	650.9	10.71	61.802		
1,900.0	1,900.0	1,917.6	1,917.4	6.7	4.7	69.67	229.3	618.9	660.1	648.7	11.39	57.940		
2,000.0	2,000.0	2,016.2	2,016.0	7.1	5.0	69.66	228.7	617.2	658.3	646.2	12.11	54.378		
2,038.8	2,038.8	2,051.5	2,051.4	7.2	5.1	137.58	228.6	616.7	658.0	645.6	12.35	53.282 CC, ES		
2,100.0	2,100.0	2,107.7	2,107.5	7.4	5.3	137.65	228.5	616.4	658.7	646.0	12.68	51.931		
2,200.0	2,199.8	2,200.7	2,200.5	7.8	5.3	137.87	228.7	616.7	662.9	649.8	13.11	50.575		
2,300.0	2,299.5	2,296.6	2,296.4	8.1	5.3	138.23	229.2	617.6	670.5	657.1	13.43	49.931		
2,400.0	2,398.7	2,395.3	2,395.2	8.5	5.3	138.74	230.0	618.8	681.1	667.3	13.75	49.516		
2,500.0	2,497.5	2,495.2	2,495.0	8.9	5.3	139.40	230.7	620.0	694.3	680.2	14.10	49.238		
2,600.0	2,595.6	2,594.6	2,594.4	9.2	5.3	140.14	231.8	620.8	710.1	695.6	14.48	49.047		
2,700.0	2,693.4	2,692.0	2,691.8	9.6	5.3	141.10	233.1	621.5	727.3	712.4	14.87	48.897		
2,800.0	2,791.3	2,789.7	2,789.4	10.0	5.4	142.01	234.4	622.2	744.8	729.5	15.28	48.733		
2,900.0	2,889.1	2,885.7	2,885.5	10.4	5.5	142.86	235.9	622.9	762.5	746.8	15.70	48.559		
3,000.0	2,986.9	2,980.1	2,979.8	10.8	5.5	143.66	237.3	623.9	780.7	764.6	16.11	48.458		
3,100.0	3,084.7	3,076.1	3,075.8	11.3	5.6	144.45	238.7	625.4	799.5	783.0	16.52	48.390		
3,200.0	3,182.5	3,173.5	3,173.2	11.7	5.7	145.24	239.8	627.0	818.5	801.5	16.94	48.323		
3,300.0	3,280.3	3,270.0	3,269.7	12.1	5.7	146.01	240.6	628.7	837.6	820.3	17.36	48.248		
3,400.0	3,378.1	3,373.2	3,372.9	12.5	5.8	146.78	241.5	630.4	856.8	839.0	17.81	48.119		
3,500.0	3,476.0	3,477.1	3,476.8	13.0	5.9	147.57	241.7	631.4	875.3	857.1	18.27	47.917		
3,600.0	3,573.8	3,575.6	3,575.3	13.4	5.9	148.30	241.6	631.9	893.6	874.8	18.73	47.711		
3,700.0	3,671.6	3,676.0	3,675.7	13.9	6.0	149.01	241.6	632.3	911.8	892.6	19.20	47.482		
3,800.0	3,769.4	3,774.5	3,774.2	14.3	6.2	149.65	241.8	632.4	929.9	910.3	19.68	47.251		
3,900.0	3,867.2	3,873.7	3,873.3	14.8	6.3	150.28	242.1	632.4	948.1	927.9	20.17	47.005		
4,000.0	3,965.0	3,975.4	3,975.1	15.2	6.4	150.88	242.5	632.2	966.1	945.4	20.67	46.737		
4,100.0	4,062.8	4,076.0	4,075.7	15.7	6.6	151.46	242.9	631.5	983.8	962.6	21.18	46.457		
4,200.0	4,160.7	4,176.1	4,175.7	16.1	6.8	152.01	243.2	630.7	1,001.5	979.8	21.69	46.173		
4,300.0	4,258.5	4,274.9	4,274.6	16.6	6.9	152.55	243.3	629.7	1,018.9	996.7	22.21	45.883		
4,400.0	4,356.3	4,366.9	4,366.5	17.1	7.0	153.04	243.4	629.1	1,036.8	1,014.1	22.71	45.660		
4,500.0	4,454.1	4,463.2	4,462.8	17.5	7.2	153.53	243.5	628.8	1,055.2	1,032.0	23.21	45.456		
4,600.0	4,551.9	4,563.5	4,563.1	18.0	7.3	154.04	243.6	628.4	1,073.5	1,049.8	23.73	45.234		
4,700.0	4,649.7	4,660.8	4,660.4	18.4	7.4	154.52	243.3	627.9	1,091.9	1,067.6	24.24	45.035		
4,800.0	4,747.5	4,757.4	4,757.1	18.9	7.5	154.99	243.0	627.6	1,110.4	1,085.7	24.75	44.869		
4,900.0	4,845.4	4,855.4	4,855.0	19.4	7.6	155.45	242.7	627.3	1,129.1	1,103.8	25.25	44.709		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #506H - AWP - OWB													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,943.2	4,952.8	4,952.4	19.9	7.7	155.88	242.6	627.0	1,147.7	1,122.0	25.76	44.552		
5,100.0	5,041.0	5,051.5	5,051.1	20.3	7.9	156.31	242.4	626.7	1,166.6	1,140.3	26.27	44.401		
5,200.0	5,138.8	5,151.3	5,150.9	20.8	8.0	156.73	242.1	626.3	1,185.2	1,158.5	26.80	44.232		
5,300.0	5,236.6	5,247.1	5,246.7	21.3	8.1	157.12	242.0	625.8	1,204.0	1,176.7	27.31	44.081		
5,400.0	5,334.4	5,343.7	5,343.3	21.7	8.2	157.50	241.9	625.6	1,223.0	1,195.1	27.83	43.948		
5,500.0	5,432.3	5,432.6	5,432.2	22.2	8.4	157.82	242.1	625.6	1,242.3	1,214.0	28.30	43.902		
5,600.0	5,530.1	5,516.2	5,515.8	22.7	8.4	158.08	243.1	626.5	1,262.6	1,233.9	28.70	43.999		
5,700.0	5,627.9	5,598.1	5,597.7	23.2	8.5	158.28	245.1	628.3	1,284.1	1,255.1	29.05	44.203		
5,800.0	5,725.7	5,681.4	5,680.8	23.6	8.5	158.43	248.1	631.2	1,306.9	1,277.4	29.41	44.436		
5,900.0	5,823.5	5,764.1	5,763.5	24.1	8.6	158.58	251.1	634.8	1,330.5	1,300.8	29.78	44.685		
6,000.0	5,921.3	5,840.0	5,839.1	24.6	8.6	158.68	254.3	639.3	1,355.6	1,325.5	30.11	45.015		
6,100.0	6,019.1	5,902.8	5,901.7	25.1	8.6	158.74	257.6	644.2	1,382.6	1,352.1	30.44	45.417		
6,200.0	6,117.0	5,975.2	5,973.5	25.5	8.7	158.77	262.2	651.6	1,411.7	1,380.9	30.78	45.869		
6,300.0	6,214.8	6,065.4	6,063.0	26.0	8.8	158.79	268.3	661.6	1,441.8	1,410.6	31.16	46.274		
6,400.0	6,312.6	6,164.3	6,161.0	26.5	8.9	158.79	275.3	672.4	1,471.6	1,440.0	31.58	46.595		
6,500.0	6,410.4	6,255.9	6,251.8	27.0	9.0	158.80	281.7	682.5	1,501.6	1,469.6	32.00	46.928		
6,600.0	6,508.2	6,347.3	6,342.4	27.5	9.1	158.80	288.3	692.8	1,531.8	1,499.4	32.43	47.239		
6,700.0	6,606.0	6,444.9	6,439.0	27.9	9.3	158.78	295.8	704.1	1,562.2	1,529.3	32.89	47.493		
6,800.0	6,703.8	6,563.1	6,556.3	28.4	9.5	158.75	305.2	716.7	1,591.9	1,558.4	33.46	47.575		
6,900.0	6,801.7	6,674.8	6,667.1	28.9	9.7	158.74	313.6	727.0	1,620.1	1,586.1	34.01	47.636		
7,000.0	6,899.5	6,779.1	6,770.8	29.4	9.9	158.79	319.9	736.0	1,647.8	1,613.2	34.54	47.707		
7,100.0	6,997.3	6,885.6	6,876.9	29.9	10.1	158.90	324.7	744.5	1,674.9	1,639.8	35.08	47.739		
7,200.0	7,095.1	6,987.4	6,978.3	30.4	10.3	159.01	329.0	752.1	1,701.5	1,665.9	35.62	47.771		
7,300.0	7,192.9	7,084.9	7,075.4	30.8	10.6	159.10	333.2	759.2	1,728.0	1,691.9	36.15	47.807		
7,376.3	7,267.6	7,161.2	7,151.5	31.2	10.7	159.18	336.3	764.7	1,748.1	1,711.6	36.56	47.815		
7,400.0	7,290.8	7,184.9	7,175.1	31.3	10.8	159.25	337.2	766.4	1,754.3	1,717.6	36.69	47.813		
7,500.0	7,389.1	7,286.4	7,276.3	31.8	11.0	159.49	341.5	773.5	1,778.1	1,740.9	37.24	47.744		
7,600.0	7,488.0	7,392.8	7,382.3	32.2	11.3	159.62	347.4	780.6	1,798.4	1,760.6	37.81	47.559		
7,700.0	7,587.3	7,492.4	7,481.5	32.6	11.6	159.67	353.3	786.8	1,815.1	1,776.7	38.36	47.322		
7,800.0	7,687.0	7,596.8	7,585.6	33.0	11.8	159.67	358.9	793.4	1,828.6	1,789.7	38.92	46.989		
7,900.0	7,786.9	7,706.4	7,694.9	33.3	12.1	159.61	364.5	799.7	1,838.3	1,798.8	39.49	46.550		
7,976.3	7,863.2	7,776.5	7,764.8	33.5	12.3	91.63	368.3	803.6	1,843.4	1,803.5	39.87	46.234		
8,000.0	7,886.9	7,797.4	7,785.5	33.6	12.4	91.59	369.5	804.9	1,844.8	1,804.8	39.98	46.137		
8,100.0	7,986.9	7,888.8	7,876.6	33.9	12.7	91.40	375.6	810.5	1,850.8	1,810.4	40.49	45.716		
8,200.0	8,086.9	7,991.8	7,979.1	34.2	13.0	91.15	383.5	817.2	1,857.1	1,816.1	41.04	45.247		
8,300.0	8,186.9	8,101.7	8,088.5	34.5	13.3	90.89	391.7	823.8	1,863.0	1,821.4	41.63	44.750		
8,400.0	8,286.9	8,192.0	8,178.3	34.8	13.6	90.68	398.7	829.2	1,869.0	1,826.8	42.14	44.350		
8,500.0	8,386.9	8,279.1	8,264.9	35.1	13.9	90.46	405.8	835.0	1,875.5	1,832.9	42.65	43.978		
8,600.0	8,486.9	8,388.3	8,373.5	35.4	14.3	90.20	414.3	842.2	1,882.1	1,838.9	43.26	43.510		
8,700.0	8,586.9	8,474.0	8,458.8	35.7	14.6	89.99	421.0	847.9	1,888.7	1,845.0	43.77	43.155		
8,800.0	8,686.9	8,556.2	8,540.5	36.0	14.8	89.80	427.2	854.0	1,896.2	1,851.9	44.27	42.830		
8,900.0	8,786.9	8,650.3	8,634.1	36.3	15.2	89.61	433.7	861.7	1,904.5	1,859.6	44.85	42.466		
9,000.0	8,886.9	8,780.8	8,764.0	36.6	15.6	89.37	441.6	871.4	1,911.9	1,866.4	45.59	41.933		
9,100.0	8,986.9	8,885.6	8,868.4	36.9	15.9	89.21	447.1	878.3	1,918.6	1,872.4	46.21	41.516		
9,200.0	9,086.9	8,980.7	8,963.2	37.2	16.2	89.06	452.4	884.3	1,925.0	1,878.2	46.79	41.141		
9,235.6	9,122.5	9,009.6	8,991.9	37.4	16.3	89.00	454.4	886.3	1,927.5	1,880.5	46.98	41.031		
9,250.0	9,136.9	9,021.2	9,003.5	37.4	16.4	-90.56	455.2	887.1	1,928.5	1,881.5	47.05	40.988		
9,275.0	9,161.8	9,042.3	9,024.5	37.5	16.5	-90.42	456.8	888.6	1,930.4	1,883.2	47.18	40.914		
9,300.0	9,186.7	9,070.7	9,052.7	37.5	16.6	-90.35	459.1	890.6	1,932.2	1,884.9	47.35	40.809		
9,325.0	9,211.4	9,098.7	9,080.6	37.6	16.7	-90.33	461.4	892.6	1,934.1	1,886.6	47.51	40.705		
9,350.0	9,235.8	9,126.3	9,108.0	37.6	16.8	-90.35	463.8	894.4	1,935.9	1,888.2	47.68	40.601		
9,375.0	9,259.9	9,152.6	9,134.1	37.7	16.9	-90.40	466.0	896.2	1,937.7	1,889.9	47.84	40.501		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #506H - AWP - OWB													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,400.0	9,283.6	9,178.2	9,159.6	37.8	16.9	-90.47	467.9	897.8	1,939.5	1,891.5	48.01	40.402		
9,425.0	9,306.9	9,203.3	9,184.6	37.8	17.0	-90.56	469.7	899.4	1,941.4	1,893.3	48.17	40.306		
9,450.0	9,329.7	9,228.0	9,209.2	37.8	17.1	-90.67	471.2	901.0	1,943.3	1,895.0	48.33	40.211		
9,475.0	9,352.0	9,249.8	9,230.9	37.9	17.2	-90.75	472.4	902.3	1,945.3	1,896.9	48.48	40.128		
9,500.0	9,373.6	9,271.0	9,252.0	37.9	17.3	-90.84	473.7	903.6	1,947.4	1,898.8	48.63	40.048		
9,525.0	9,394.5	9,291.4	9,272.4	37.9	17.3	-90.93	474.8	904.9	1,949.6	1,900.9	48.78	39.972		
9,550.0	9,414.6	9,311.0	9,291.9	38.0	17.4	-91.02	475.9	906.1	1,952.0	1,903.1	48.92	39.899		
9,575.0	9,434.0	9,331.4	9,312.2	38.0	17.5	-91.12	477.1	907.3	1,954.5	1,905.4	49.08	39.825		
9,600.0	9,452.5	9,353.1	9,333.8	38.0	17.5	-91.25	478.2	908.6	1,957.1	1,907.9	49.24	39.747		
9,625.0	9,470.1	9,373.8	9,354.5	38.0	17.6	-91.36	479.2	909.9	1,959.9	1,910.5	49.40	39.675		
9,650.0	9,486.8	9,393.5	9,374.2	38.0	17.7	-91.45	480.0	911.0	1,962.9	1,913.4	49.56	39.609		
9,675.0	9,502.4	9,412.1	9,392.7	38.0	17.7	-91.50	480.8	912.0	1,966.1	1,916.4	49.71	39.549		
9,700.0	9,517.0	9,443.8	9,424.4	38.0	17.8	-91.87	481.9	913.6	1,969.5	1,919.5	49.93	39.446		
9,725.0	9,530.6	9,477.2	9,457.7	38.0	17.9	-92.29	482.9	915.0	1,972.9	1,922.8	50.15	39.340		
9,750.0	9,543.0	9,508.1	9,488.6	38.0	18.0	-92.64	483.8	915.9	1,976.6	1,926.2	50.36	39.246		
9,775.0	9,554.3	9,490.8	9,471.3	38.0	18.0	-91.70	483.2	915.2	1,980.4	1,930.0	50.36	39.321		
9,800.0	9,564.3	9,541.3	9,521.8	38.0	18.1	-92.55	484.5	916.7	1,984.6	1,933.9	50.65	39.184		
9,825.0	9,573.2	9,554.9	9,535.3	38.0	18.2	-92.39	484.8	917.0	1,989.0	1,938.3	50.78	39.170		
9,850.0	9,580.8	9,566.5	9,546.9	38.0	18.2	-92.13	485.0	917.2	1,993.8	1,942.9	50.90	39.168		
9,875.0	9,587.2	9,576.1	9,556.6	38.0	18.2	-91.79	485.2	917.4	1,998.8	1,947.8	51.02	39.177		
9,900.0	9,592.3	9,583.8	9,564.3	37.9	18.2	-91.34	485.3	917.5	2,004.2	1,953.1	51.13	39.198		
9,925.0	9,596.1	9,589.4	9,569.9	37.9	18.3	-90.81	485.4	917.5	2,009.9	1,958.7	51.23	39.232		
9,950.0	9,598.6	9,592.9	9,573.4	37.9	18.3	-90.17	485.5	917.6	2,015.9	1,964.6	51.32	39.279		
9,975.0	9,599.8	9,594.3	9,574.8	37.9	18.3	-89.43	485.5	917.6	2,022.2	1,970.8	51.41	39.338		
9,985.6	9,600.0	9,594.2	9,574.7	37.9	18.3	-89.08	485.5	917.6	2,025.0	1,973.5	51.44	39.368		
10,000.0	9,600.0	9,593.9	9,574.3	37.9	18.3	-89.07	485.5	917.6	2,028.8	1,977.3	51.48	39.410		
10,100.0	9,600.0	9,591.3	9,571.8	37.9	18.3	-89.00	485.5	917.6	2,057.9	2,006.1	51.78	39.744		
10,200.0	9,600.0	9,588.6	9,569.1	38.0	18.3	-88.92	485.4	917.5	2,091.4	2,039.3	52.08	40.155		
10,300.0	9,600.0	10,938.5	10,373.7	38.1	19.2	-111.36	-339.9	931.5	2,107.8	2,055.4	52.36	40.252		
10,400.0	9,600.0	11,003.8	10,375.8	38.3	19.7	-111.41	-405.2	932.2	2,109.4	2,056.2	53.23	39.627		
10,500.0	9,600.0	11,160.7	10,379.4	38.7	20.8	-111.48	-561.9	935.0	2,111.8	2,056.9	54.90	38.468		
10,520.7	9,600.0	11,178.6	10,380.1	38.7	21.0	-111.50	-579.8	934.8	2,111.8	2,056.6	55.15	38.290		
10,600.0	9,600.0	11,250.9	10,383.7	39.1	21.6	-111.61	-652.1	934.0	2,112.0	2,055.8	56.16	37.608		
10,700.0	9,600.0	11,362.7	10,388.6	39.6	22.5	-111.75	-763.7	932.8	2,112.0	2,054.3	57.72	36.592		
10,800.0	9,600.0	11,470.2	10,391.9	40.1	23.6	-111.85	-871.1	931.7	2,111.6	2,052.2	59.36	35.573		
10,900.0	9,600.0	11,566.4	10,393.8	40.8	24.5	-111.91	-967.3	930.9	2,111.0	2,050.0	60.99	34.613		
11,000.0	9,600.0	11,672.4	10,396.5	41.5	25.7	-112.00	-1,073.3	930.1	2,110.7	2,047.9	62.81	33.604		
11,100.0	9,600.0	11,769.9	10,398.4	42.3	26.7	-112.06	-1,170.8	929.0	2,109.9	2,045.3	64.62	32.652		
11,184.7	9,600.0	11,843.1	10,400.9	43.0	27.6	-112.13	-1,243.9	928.3	2,109.7	2,043.6	66.08	31.925		
11,200.0	9,600.0	11,856.2	10,401.3	43.1	27.7	-112.15	-1,257.0	928.2	2,109.7	2,043.3	66.35	31.798		
11,300.0	9,600.0	11,966.2	10,404.4	44.0	29.0	-112.24	-1,367.0	927.7	2,109.8	2,041.4	68.44	30.826		
11,400.0	9,600.0	12,087.3	10,405.1	44.9	30.4	-112.27	-1,488.1	927.0	2,108.9	2,038.1	70.77	29.801		
11,500.0	9,600.0	12,176.0	10,405.5	45.9	31.5	-112.29	-1,576.8	926.3	2,107.8	2,035.1	72.71	28.987		
11,600.0	9,600.0	12,270.0	10,407.0	46.9	32.7	-112.34	-1,670.7	925.7	2,107.2	2,032.4	74.77	28.181		
11,632.2	9,600.0	12,290.7	10,407.4	47.2	32.9	-112.35	-1,691.4	925.6	2,107.1	2,031.8	75.31	27.979		
11,700.0	9,600.0	12,345.7	10,408.7	47.9	33.6	-112.39	-1,746.4	925.6	2,107.4	2,030.8	76.60	27.509		
11,800.0	9,600.0	12,445.4	10,410.9	49.0	34.9	-112.45	-1,846.1	926.1	2,108.1	2,029.2	78.82	26.744		
11,900.0	9,600.0	12,533.8	10,412.3	50.1	36.0	-112.48	-1,934.4	926.8	2,108.9	2,028.0	80.92	26.063		
12,000.0	9,600.0	12,632.2	10,415.2	51.2	37.3	-112.55	-2,032.8	927.6	2,110.2	2,027.0	83.19	25.367		
12,100.0	9,600.0	12,734.1	10,419.1	52.4	38.6	-112.65	-2,134.7	927.9	2,111.4	2,025.9	85.53	24.685		
12,200.0	9,600.0	12,838.9	10,422.8	53.6	40.0	-112.75	-2,239.4	928.2	2,112.5	2,024.5	87.96	24.017		
12,300.0	9,600.0	12,965.3	10,426.2	54.8	41.7	-112.85	-2,365.8	927.8	2,112.7	2,021.9	90.76	23.277		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #506H - AWP - OWB													Offset Site Error:	0.0 usft
Survey Program: 143-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,400.0	9,600.0	13,069.4	10,430.0	56.1	43.1	-112.96	-2,469.8	926.3	2,112.2	2,018.9	93.22	22.657		
12,500.0	9,600.0	13,177.9	10,432.6	57.3	44.5	-113.05	-2,578.3	925.2	2,111.6	2,015.8	95.79	22.044		
12,600.0	9,600.0	13,292.7	10,433.7	58.6	46.1	-113.10	-2,693.0	923.8	2,110.3	2,011.8	98.50	21.426		
12,700.0	9,600.0	13,390.5	10,435.4	59.9	47.4	-113.16	-2,790.8	922.0	2,108.7	2,007.8	100.93	20.892		
12,800.0	9,600.0	13,492.0	10,437.2	61.2	48.8	-113.24	-2,892.2	920.0	2,107.1	2,003.6	103.45	20.368		
12,900.0	9,600.0	13,586.0	10,438.8	62.5	50.0	-113.30	-2,986.2	918.4	2,105.6	1,999.7	105.86	19.890		
13,000.0	9,600.0	13,680.0	10,440.3	63.9	51.3	-113.36	-3,080.2	916.9	2,104.3	1,996.0	108.29	19.432		
13,088.9	9,600.0	13,747.9	10,441.4	65.1	52.2	-113.40	-3,148.1	916.3	2,103.7	1,993.5	110.20	19.090		
13,100.0	9,600.0	13,755.7	10,441.6	65.2	52.4	-113.40	-3,155.9	916.3	2,103.7	1,993.3	110.42	19.052		
13,200.0	9,600.0	13,847.0	10,444.0	66.6	53.6	-113.47	-3,247.1	916.3	2,104.2	1,991.4	112.82	18.651		
13,300.0	9,600.0	13,948.4	10,446.3	68.0	55.0	-113.53	-3,348.5	916.6	2,104.8	1,989.3	115.42	18.236		
13,400.0	9,600.0	14,037.1	10,449.2	69.4	56.2	-113.61	-3,437.2	916.6	2,105.5	1,987.7	117.78	17.876		
13,500.0	9,600.0	14,124.8	10,452.6	70.8	57.4	-113.70	-3,524.8	916.9	2,106.8	1,986.7	120.13	17.538		
13,600.0	9,600.0	14,215.1	10,455.3	72.2	58.7	-113.76	-3,615.1	918.1	2,108.7	1,986.2	122.55	17.207		
13,700.0	9,600.0	14,311.8	10,457.9	73.6	60.1	-113.81	-3,711.7	919.9	2,110.9	1,985.8	125.11	16.873		
13,800.0	9,600.0	14,412.1	10,461.2	75.1	61.5	-113.88	-3,811.9	921.5	2,113.2	1,985.5	127.73	16.545		
13,900.0	9,600.0	14,557.0	10,463.1	76.5	63.5	-113.92	-3,956.8	923.3	2,114.3	1,983.1	131.21	16.113		
14,000.0	9,600.0	14,654.8	10,461.8	78.0	64.9	-113.88	-4,054.6	924.6	2,114.4	1,980.5	133.88	15.794		
14,100.0	9,600.0	14,753.6	10,460.9	79.4	66.2	-113.84	-4,153.4	926.0	2,114.7	1,978.2	136.56	15.486		
14,200.0	9,600.0	14,854.3	10,458.6	80.9	67.7	-113.78	-4,254.1	927.8	2,114.9	1,975.6	139.32	15.180		
14,300.0	9,600.0	14,967.5	10,457.9	82.4	69.2	-113.75	-4,367.2	929.0	2,115.1	1,972.8	142.28	14.866		
14,400.0	9,600.0	15,082.9	10,457.3	83.8	70.9	-113.75	-4,482.6	928.9	2,114.2	1,969.0	145.27	14.554		
14,500.0	9,600.0	15,162.4	10,455.9	85.3	72.0	-113.71	-4,562.1	929.4	2,113.6	1,965.9	147.64	14.316		
14,513.0	9,600.0	15,172.5	10,455.7	85.5	72.1	-113.71	-4,572.2	929.6	2,113.6	1,965.6	147.94	14.286		
14,600.0	9,600.0	15,255.8	10,453.9	86.8	73.3	-113.65	-4,655.4	931.0	2,113.7	1,963.4	150.28	14.065		
14,700.0	9,600.0	15,298.0	10,452.9	88.3	73.9	-113.62	-4,697.6	931.8	2,114.7	1,962.8	151.91	13.921		
14,800.0	9,600.0	15,298.0	10,452.9	89.8	73.9	-113.62	-4,697.6	931.8	2,119.9	1,967.5	152.45	13.906 SF		
14,900.0	9,600.0	15,298.0	10,452.9	91.3	73.9	-113.62	-4,697.6	931.8	2,129.9	1,977.2	152.70	13.948		
15,000.0	9,600.0	15,298.0	10,452.9	92.8	73.9	-113.62	-4,697.6	931.8	2,144.5	1,991.8	152.66	14.047		
15,100.0	9,600.0	15,298.0	10,452.9	94.4	73.9	-113.62	-4,697.6	931.8	2,163.6	2,011.2	152.34	14.202		
15,200.0	9,600.0	15,298.0	10,452.9	95.9	73.9	-113.62	-4,697.6	931.8	2,187.1	2,035.3	151.77	14.411		
15,300.0	9,600.0	15,298.0	10,452.9	97.4	73.9	-113.62	-4,697.6	931.8	2,214.9	2,063.9	150.96	14.672		
15,400.0	9,600.0	15,298.0	10,452.9	98.9	73.9	-113.62	-4,697.6	931.8	2,246.8	2,096.9	149.93	14.986		
15,500.0	9,600.0	15,298.0	10,452.9	100.5	73.9	-113.62	-4,697.6	931.8	2,282.6	2,133.9	148.71	15.349		
15,600.0	9,600.0	15,298.0	10,452.9	102.0	73.9	-113.62	-4,697.6	931.8	2,322.2	2,174.9	147.33	15.762		
15,700.0	9,600.0	15,298.0	10,452.9	103.6	73.9	-113.62	-4,697.6	931.8	2,365.4	2,219.6	145.81	16.223		
15,800.0	9,600.0	15,298.0	10,452.9	105.1	73.9	-113.62	-4,697.6	931.8	2,411.9	2,267.7	144.17	16.730		
15,900.0	9,600.0	15,298.0	10,452.9	106.7	73.9	-113.62	-4,697.6	931.8	2,461.6	2,319.2	142.44	17.282		
16,000.0	9,600.0	15,298.0	10,452.9	108.2	73.9	-113.62	-4,697.6	931.8	2,514.3	2,373.7	140.65	17.877		
16,100.0	9,600.0	15,298.0	10,452.9	109.8	73.9	-113.62	-4,697.6	931.8	2,569.9	2,431.1	138.80	18.515		
16,200.0	9,600.0	15,298.0	10,452.9	111.3	73.9	-113.62	-4,697.6	931.8	2,628.0	2,491.1	136.93	19.193		
16,300.0	9,600.0	15,298.0	10,452.9	112.9	73.9	-113.62	-4,697.6	931.8	2,688.7	2,553.6	135.04	19.910		
16,400.0	9,600.0	15,298.0	10,452.9	114.4	73.9	-113.62	-4,697.6	931.8	2,751.6	2,618.4	133.14	20.666		
16,500.0	9,600.0	15,298.0	10,452.9	116.0	73.9	-113.62	-4,697.6	931.8	2,816.6	2,685.4	131.26	21.458		
16,600.0	9,600.0	15,298.0	10,452.9	117.6	73.9	-113.62	-4,697.6	931.8	2,883.7	2,754.3	129.40	22.286		
16,700.0	9,600.0	15,298.0	10,452.9	119.1	73.9	-113.62	-4,697.6	931.8	2,952.6	2,825.1	127.56	23.147		
16,800.0	9,600.0	15,298.0	10,452.9	120.7	73.9	-113.62	-4,697.6	931.8	3,023.3	2,897.6	125.76	24.041		
16,900.0	9,600.0	15,298.0	10,452.9	122.3	73.9	-113.62	-4,697.6	931.8	3,095.6	2,971.6	123.99	24.966		
17,000.0	9,600.0	15,298.0	10,452.9	123.9	73.9	-113.62	-4,697.6	931.8	3,169.4	3,047.1	122.27	25.921		
17,100.0	9,600.0	15,298.0	10,452.9	125.4	73.9	-113.62	-4,697.6	931.8	3,244.6	3,124.0	120.59	26.906		
17,200.0	9,600.0	15,298.0	10,452.9	127.0	73.9	-113.62	-4,697.6	931.8	3,321.1	3,202.1	118.96	27.917		
17,300.0	9,600.0	15,298.0	10,452.9	128.6	73.9	-113.62	-4,697.6	931.8	3,398.8	3,281.4	117.38	28.955		

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: TOUR BUS PROJECT - TOUR BUS 23 STATE #506H - AWP - OWB												Offset Site Error:	0.0 usft
Survey Program:	143-MWD+HRGM		Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Offset Well Error:	0.0 usft
Reference	Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning	
17,400.0	9,600.0	15,298.0	10,452.9	130.2	73.9	-113.62	-4,697.6	931.8	3,477.7	3,361.8	115.85	30.019	
17,500.0	9,600.0	15,298.0	10,452.9	131.8	73.9	-113.62	-4,697.6	931.8	3,557.6	3,443.2	114.37	31.106	
17,600.0	9,600.0	15,298.0	10,452.9	133.3	73.9	-113.62	-4,697.6	931.8	3,638.5	3,525.6	112.94	32.217	
17,700.0	9,600.0	15,298.0	10,452.9	134.9	73.9	-113.62	-4,697.6	931.8	3,720.4	3,608.8	111.56	33.349	
17,800.0	9,600.0	15,298.0	10,452.9	136.5	73.9	-113.62	-4,697.6	931.8	3,803.1	3,692.9	110.23	34.503	
17,900.0	9,600.0	15,298.0	10,452.9	138.1	73.9	-113.62	-4,697.6	931.8	3,886.6	3,777.7	108.94	35.676	
18,000.0	9,600.0	15,298.0	10,452.9	139.7	73.9	-113.62	-4,697.6	931.8	3,970.9	3,863.2	107.70	36.869	
18,100.0	9,600.0	15,298.0	10,452.9	141.3	73.9	-113.62	-4,697.6	931.8	4,055.9	3,949.4	106.51	38.079	
18,200.0	9,600.0	15,298.0	10,452.9	142.9	73.9	-113.62	-4,697.6	931.8	4,141.6	4,036.2	105.37	39.307	
18,300.0	9,600.0	15,298.0	10,452.9	144.5	73.9	-113.62	-4,697.6	931.8	4,227.9	4,123.6	104.26	40.551	
18,400.0	9,600.0	15,298.0	10,452.9	146.1	73.9	-113.62	-4,697.6	931.8	4,314.8	4,211.6	103.20	41.810	
18,500.0	9,600.0	15,298.0	10,452.9	147.7	73.9	-113.62	-4,697.6	931.8	4,402.2	4,300.1	102.18	43.084	
18,600.0	9,600.0	15,298.0	10,452.9	149.3	73.9	-113.62	-4,697.6	931.8	4,490.2	4,389.0	101.19	44.372	
18,700.0	9,600.0	15,298.0	10,452.9	150.9	73.9	-113.62	-4,697.6	931.8	4,578.7	4,478.4	100.25	45.673	
18,800.0	9,600.0	15,298.0	10,452.9	152.5	73.9	-113.62	-4,697.6	931.8	4,667.6	4,568.3	99.34	46.986	
18,900.0	9,600.0	15,298.0	10,452.9	154.1	73.9	-113.62	-4,697.6	931.8	4,757.0	4,658.5	98.47	48.311	
19,000.0	9,600.0	15,298.0	10,452.9	155.7	73.9	-113.62	-4,697.6	931.8	4,846.8	4,749.2	97.62	49.647	
19,100.0	9,600.0	15,298.0	10,452.9	157.3	73.9	-113.62	-4,697.6	931.8	4,937.0	4,840.1	96.82	50.993	
19,200.0	9,600.0	15,298.0	10,452.9	158.9	73.9	-113.62	-4,697.6	931.8	5,027.5	4,931.5	96.04	52.349	
19,300.0	9,600.0	15,298.0	10,452.9	160.5	73.9	-113.62	-4,697.6	931.8	5,118.4	5,023.1	95.29	53.713	
19,400.0	9,600.0	15,298.0	10,452.9	162.1	73.9	-113.62	-4,697.6	931.8	5,209.7	5,115.1	94.57	55.086	
19,500.0	9,600.0	15,298.0	10,452.9	163.7	73.9	-113.62	-4,697.6	931.8	5,301.2	5,207.3	93.88	56.467	
19,600.0	9,600.0	15,298.0	10,452.9	165.3	73.9	-113.62	-4,697.6	931.8	5,393.1	5,299.9	93.22	57.855	
19,700.0	9,600.0	15,298.0	10,452.9	166.9	73.9	-113.62	-4,697.6	931.8	5,485.2	5,392.6	92.58	59.250	
19,800.0	9,600.0	15,298.0	10,452.9	168.6	73.9	-113.62	-4,697.6	931.8	5,577.6	5,485.7	91.96	60.652	
19,871.5	9,600.0	15,298.0	10,452.9	169.7	73.9	-113.62	-4,697.6	931.8	5,643.9	5,552.3	91.54	61.657	

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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 relative to KB @ 3499.0usft

Offset Depths are relative to Offset Datum

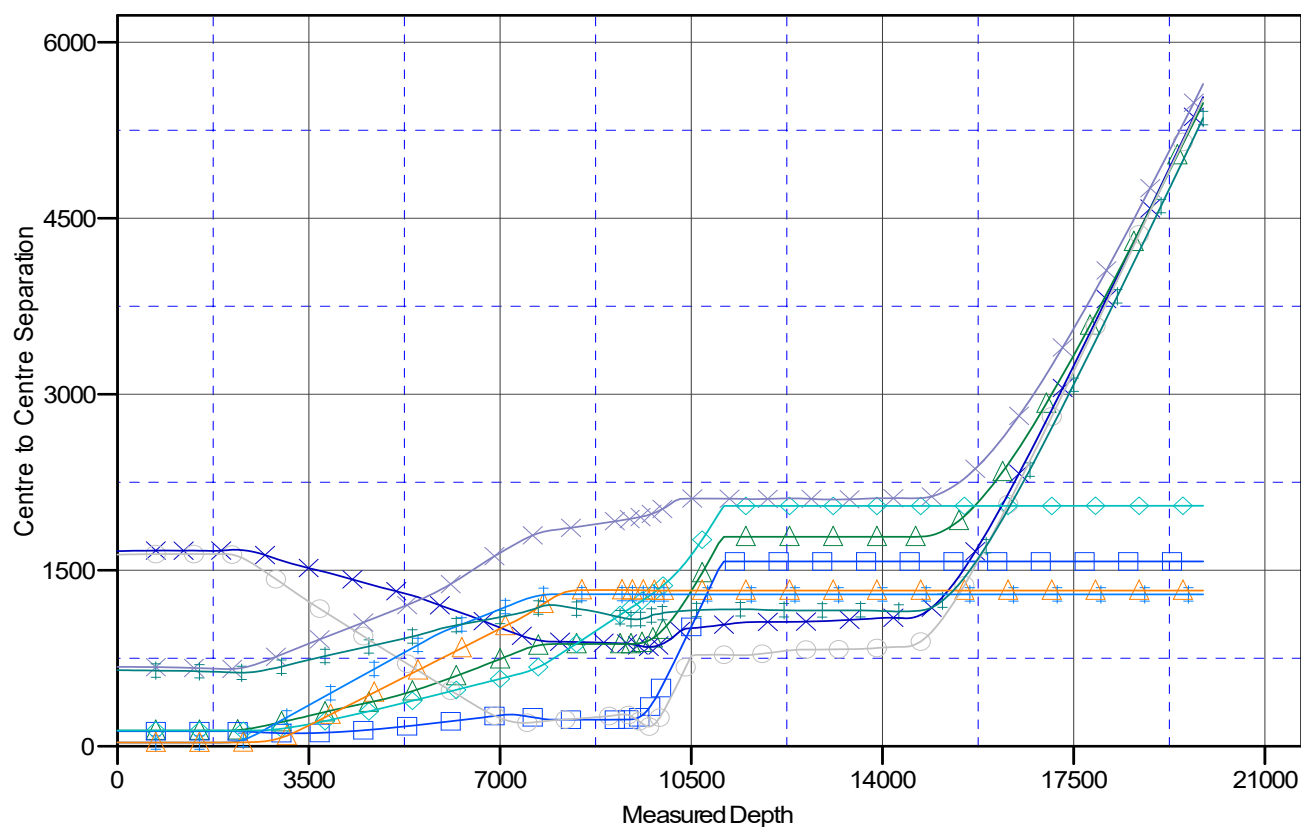
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: TOUR BUS 23 FED COM 303H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.48°

Ladder Plot



LEGEND

TOUR BUS 23 STATE #50H, OWB, OWB V0	TOUR BUS 23 STATE #50H, OWB, AWP V0	TOUR BUS 23 STATE #50H, AWP, OWB V0
TOUR BUS 23 FED COM 60H, OWB, PWP0V0	TOUR BUS 23 FED COM 60H, OWB, PWP0V0	TOUR BUS 23 FED COM 30H, OWB, PWP0V0
TOUR BUS 23 FED COM 60H, OWB, PWP0V0	TOUR BUS 23 STATE #50H, OWB, AWP V0	

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

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well TOUR BUS 23 FED COM 303H
Project:	(SP) LEA	TVD Reference:	KB @ 3499.0usft
Reference Site:	TOUR BUS PROJECT	MD Reference:	KB @ 3499.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	TOUR BUS 23 FED COM 303H	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 relative to KB @ 3499.0usft

Offset Depths are relative to Offset Datum

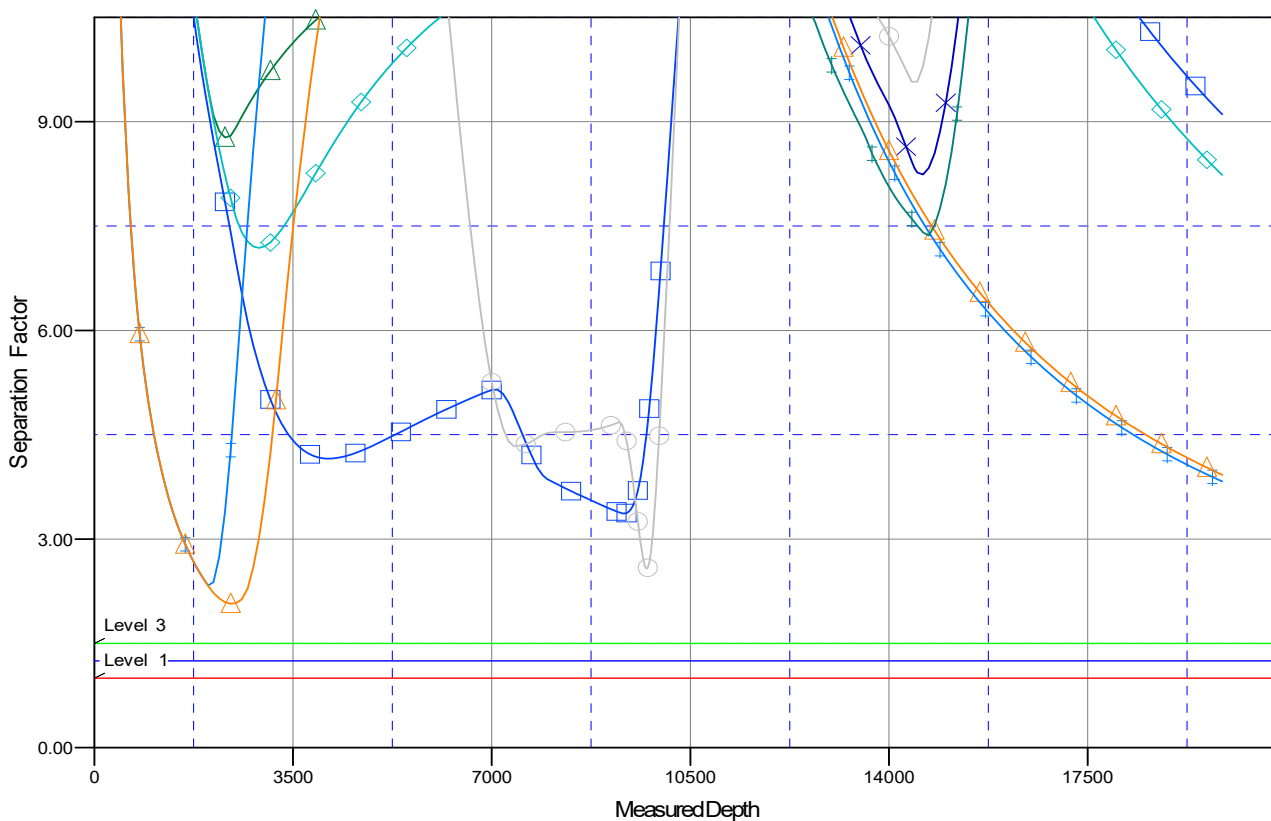
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: TOUR BUS 23 FED COM 303H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.48°

Separation Factor Plot



LEGEND

TOUR BUS 23 STATE #59H, OWB, OWB V0	TOUR BUS 23 STATE #59H, OWB, AWP V0	TOUR BUS 23 STATE #59H, AWP, OWB V0
TOUR BUS 23 FED COM 60H, OWB, PWP0V0	TOUR BUS 23 FED COM 60H, OWB, PWP0V0	TOUR BUS 23 FED COM 30H, OWB, PWP0V0
TOUR BUS 23 FED COM 30H, OWB, PWP0V0	TOUR BUS 23 FED COM 30H, OWB, AWP V0	TOUR BUS 23 FED COM 30H, OWB, AWP V0

PERMIAN

R E S O U R C E S

H₂S CONTINGENCY PLAN

FOR

Permian Resources Corporation

Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H

Lea County, New Mexico

12-07-2023

This plan is subject to updating

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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Table of Contents

Section 1.0 – Introduction	3
I. Purpose	
II. Scope & Applicability	
Section 2.0 - Plan Implementation.....	3
I. Activation Requirements	
II. Emergency Evacuation	
III. Emergency Response Activities	
Section 3.0 - Potential Hazardous Conditions.....	4
Section 4.0 - Notification of H₂S Release Event.....	6
I. Local & State Law Enforcement	
II. General Public	
III. New Mexico Oil Conservation Division	
IV. New Mexico Environment Department	
V. Bureau of Land Management	
Section 5.0 - Emergency Contact List.....	7
I. Permian Resources Management Personnel	
II. Lea County Sheriff	
III. New Mexico State Highway Patrol	
IV. Fire / EMS	
V. Lea County Hospital	
VI. Emergency Response Contractors	
VII. New Mexico Oil Conservation Division	
VIII. New Mexico Environment Department	
IX. Bureau of Land Management	
X. Other Agencies	
Section 6.0 – Drilling Location Information.....	9-12
I. Site Safety Information	
II. Directions to Location	
III. Plat of Location including GPS Coordinates	
IV. Routes of Ingress & Egress (MAP)	
V. ROE Map	
VI. Residences in ROE	
VII. Public Roads in ROE	
Section 7.0 – Hazard Communication.....	13-15
I. Physical Characteristics of Hydrogen Sulfide Gas	
II. Human Health Hazards / Toxicological Information	
III. Environmental Hazards	
Section 8.0 - Regulatory Information.....	15-17
I. OSHA Information	
II. New Mexico Oil Conservation Division & Bureau of Land Management	
Section 9.0 - Training Requirements.....	17
Section 10.0 - Personal Protective Equipment.....	18
Appendices	
I. Appendix A – H ₂ S SDS	
II. Appendix B – SO ₂ SDS	

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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Section 1.0 – Introduction**I. Purpose**

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

II. Scope & Applicability

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

Section 2.0 - Plan Implementation**I. Activation Requirements**

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

II. Emergency Evacuation

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

III. Emergency Response Activities

The purpose of emergency response actions is to take steps to quickly mitigate / stop the ongoing release of the hazardous source of H₂S. Upon discovery of any hazardous release, immediately notify Permian Resources management to activate the Emergency Response Team (ERT). Once Permian Resources supervision arrives and assesses the situation, a work plan identifying the proper procedures shall be developed to stop the release.

Section 3.0 - Potential Hazardous Conditions & Response Actions

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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are identified in the tables below.

H ₂ S OPERATING CONDITIONS – RESPONSE ACTIONS TO CONSIDER		✓
H₂S CONDITION 1: POTENTIAL DANGER TO LIFE AND HEALTH → WARNING SIGN GREEN		
H₂S concentration <10 ppm detected by location monitors		☐
General Actions During Condition 1		☐
Notify Site Supervisor / Permian Resources Person-in-Charge (PIC) of any observed increase in ambient H 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		
H₂S 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 H ₂ S discharge and eliminate possible ignition sources. Initiate Emergency Shutdown procedures as deemed necessary to correct or control the specific situation.		☐
Account for on-site personnel at safe briefing area.		☐
Stay in safe briefing area if not working to correct the situation.		☐
Keep Site Supervisor / Permian Resources PIC informed. Notify applicable government agencies (Appendix A) If off-site impact; notify any neighbors within Radius of Exposure (ROE), Fig 5.11		☐
Continuously monitor H ₂ S until readings below 10 ppm.		☐
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until “all clear” sounded by Permian Resources PIC / Site Supervisor.		

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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H₂S CONDITION 3: EXTREME DANGER TO LIFE AND HEALTH → WARNING SIGN RED	
> 30 ppm H ₂ S concentration in air detected by location monitors: Extreme danger to life	☐
General Actions During Condition 3	☐
Sound H ₂ S alarm and/or display red flag.	☐
Account for on-site personnel	☐
Move away from H ₂ S source and get out of the affected area.	☐
Proceed to designated safe briefing area; alert other affected personnel.	☐
Account for personnel at safe briefing area.	☐
If trained and safe to do so undertake measures to control source H ₂ S 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 Person-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 ₂ S until readings fall below 10 ppm.	☐
Evacuated area shall not be re-entered except by trained and authorized personnel utilizing appropriate respiratory protection; or until “all clear” sounded by Permian Resources PIC / Site Supervisor.	☐
IF ABOVE ACTIONS CANNOT BE ACCOMPLISHED IN TIME TO PREVENT EXPOSURE TO THE PUBLIC	

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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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 H₂S gas or any associated byproducts of the combustion of H₂S 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 H₂S gas or any associated byproducts of combustion.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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Section 5.0 - Emergency Contact List

EMERGENCY CONTACT LIST				
PERMIAN RESOURCES CORPORATION.				
POSITION	NAME	OFFICE	CELL	ALT PHONE
Operations				
Production Superintendent	Rick Lawson		432.530.3188	
TX Production Superintendent	Josh Graham	432.940.3191	432.940.3191	
NM Production Superintendent	Manual Mata	432.664.0278	575.408.0216	
Drilling Manager	Jason Fitzgerald	432.315.0146	318.347.3916	
Drilling Engineer	Parker Simmons	432.400.1038	281.536.9813	
Production Manager	Levi Harris	432.219.8568	720.261.4633	
SVP Development Ops	Clayton Smith	720.499.1416	361.215.2494	
SVP Production Ops	Casey McCain	432.695.4239	432.664.6140	
HSE & Regulatory				
H&S Manager	Adam Hicks	720.499.2377	903.426.4556	
Regulatory Manager	Stephanie Rabadue		432.260.4388	
Environmental Manager	Montgomery Floyd	432-315-0123	432-425-8321	
HSE Consultant	Blake Wisdom		918-323-2343	
Local, State, & Federal Agencies				
Lea County Sheriff		575-396-3611		911
New Mexico State Highway Patrol		505-757-2297		911
Eunice Fire / EMS		575-394-3258		911
Lea County Hospital		575-492-5000		
Secorp – Safety Contractor	Ricky Stephens		(325)-262-0707	
New Mexico Oil Conservation Division – District 1 Office – Hobbs, NM.		575-393-6161		
New Mexico Environment Department – District III Office – Hobbs, NM		575-397-6910		
New Mexico Oil Conservation Division – Hobbs, NM	24 Hour Emergency	575-393-6161		
Bureau of Land Management – Carlsbad, NM		575-234-5972		
U.S. Fish & Wildlife		502-248-6911		

Section 6.0 – Drilling Location Information**I. Site Safety Information****1. Safe Briefing Area**

- a. There shall be two areas that will be designated as "SAFE BRIEFING AREAS". If 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 up-wind from the well at all times.

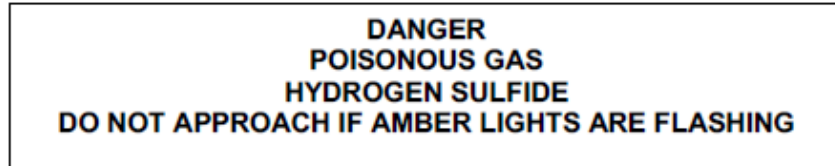
Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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2. Wind Indicators

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

3. Danger Signs

- a. A warning sign indicating the possible well conditions will be displayed at the location entrance.



4. H₂S Detectors and Alarms

- a. Continuous monitoring type H₂S detectors, capable of sensing a minimum of 5ppm H₂S in air will be located centrally located at the tanks, heater treater, and combustor. Continuous monitoring type SO₂ detector will also be located at the combustor. The automatic H₂S alarm/flashing light will be located at the site entrance and in front of tank battery.

5. Safety Trailer

- a. A safety trailer equipped with an emergency cascade breathing air system with 2 ea. Work/escape packs, a stretcher, 2 OSHA approved full body harnesses, and a 20# Class ABC fire extinguisher shall be available at the site in close proximity to the safe briefing area. The cascade system shall be able to be deployed to the drill floor when needed to provide safe breathing air to the workers as needed.

6. Well Control Equipment

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

7. Mud Program

- a. Company shall have a mud program that contains sufficient weight and additives to control H₂S.

8. Metallurgy

- a. All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure.

9. Communication

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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II. Directions to Location

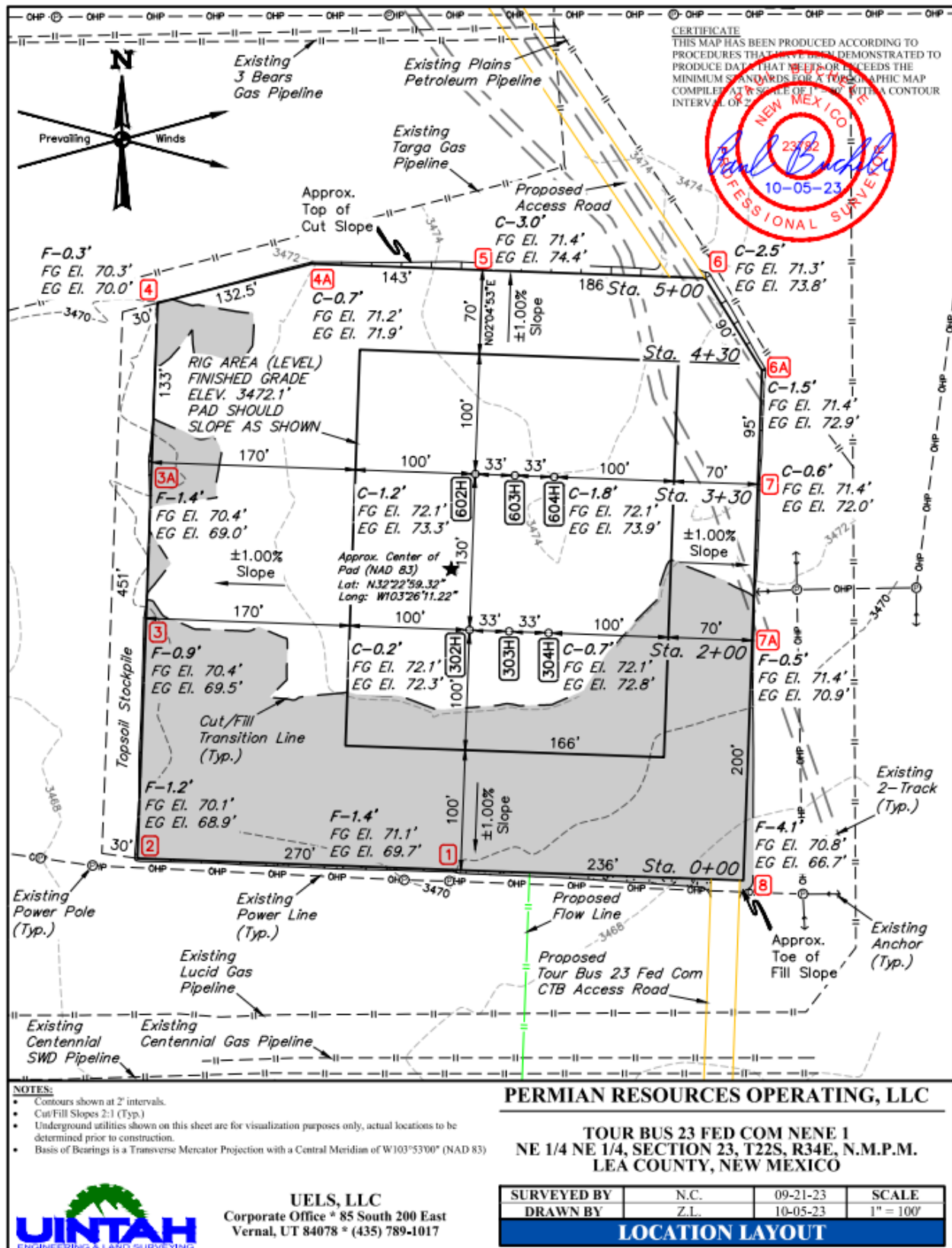
BEGINNING AT THE INTERSECTION OF AVENUE O AND STATE HIGHWAY 207 IN EUNICE, NEW MEXICO, PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 207 APPROXIMATELY 3.0 MILES TO THE JUNCTION OF THIS ROAD AND DELAWARE BASIN ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHERLY, THEN WESTERLY, THEN SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 20.3 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 32 TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN AN SOUTHERLY DIRECTION APPROXIMATELY 316' TO THE PROPOSED LOCATION. TOTAL DISTANCE FROM INTERSECTION OF AVENUE O AND STATE HIGHWAY 207 IN EUNICE, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 27.7 MILES.

Permian Resources Corporation

H₂S Contingency Plan
 Tour Bus 23 Fed Com 302H, 303H,
 304H, 602H, 603H, 604H

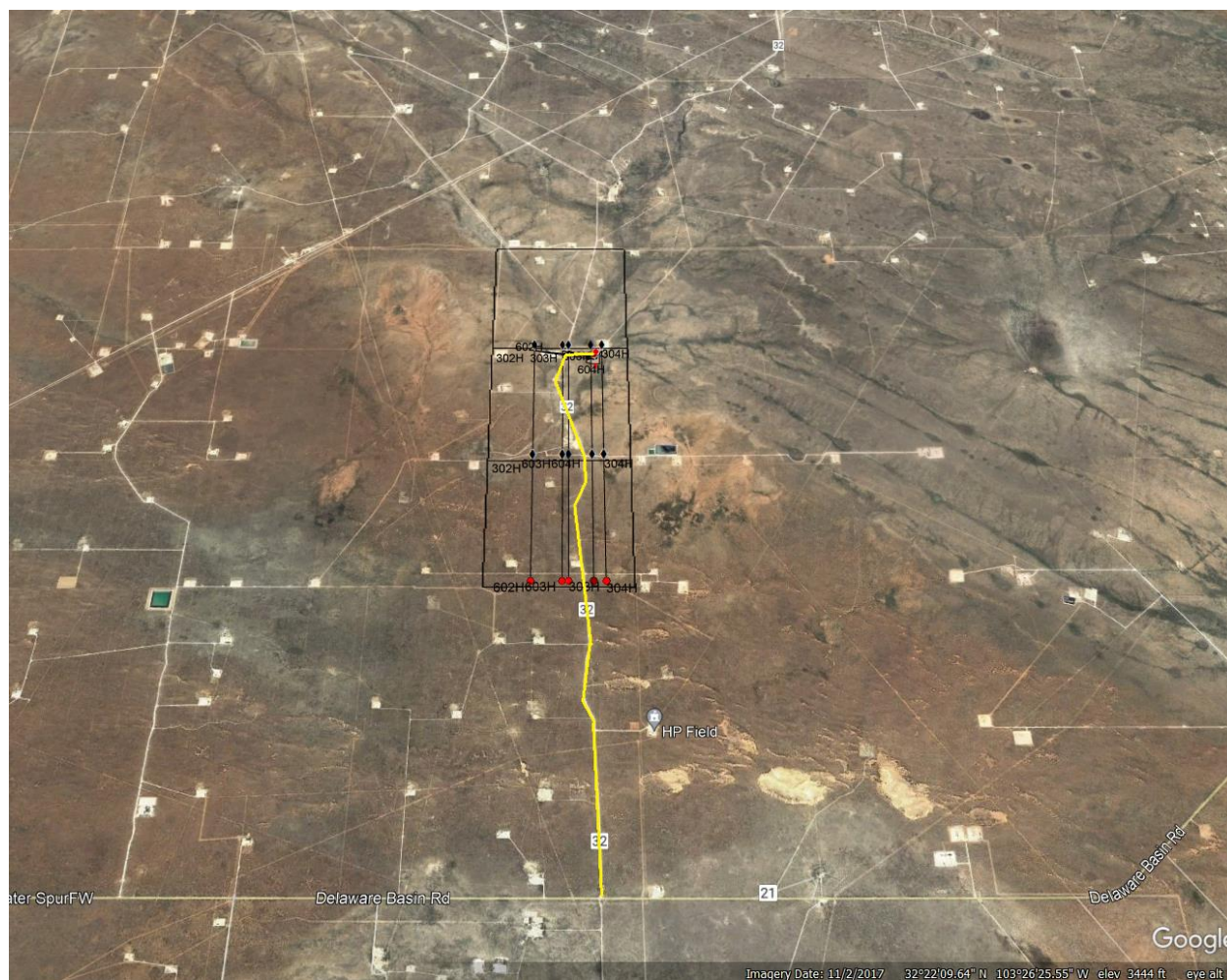
Lea County, New Mexico

Plat of Location



Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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1. Routes of Ingress & Egress (MAP)

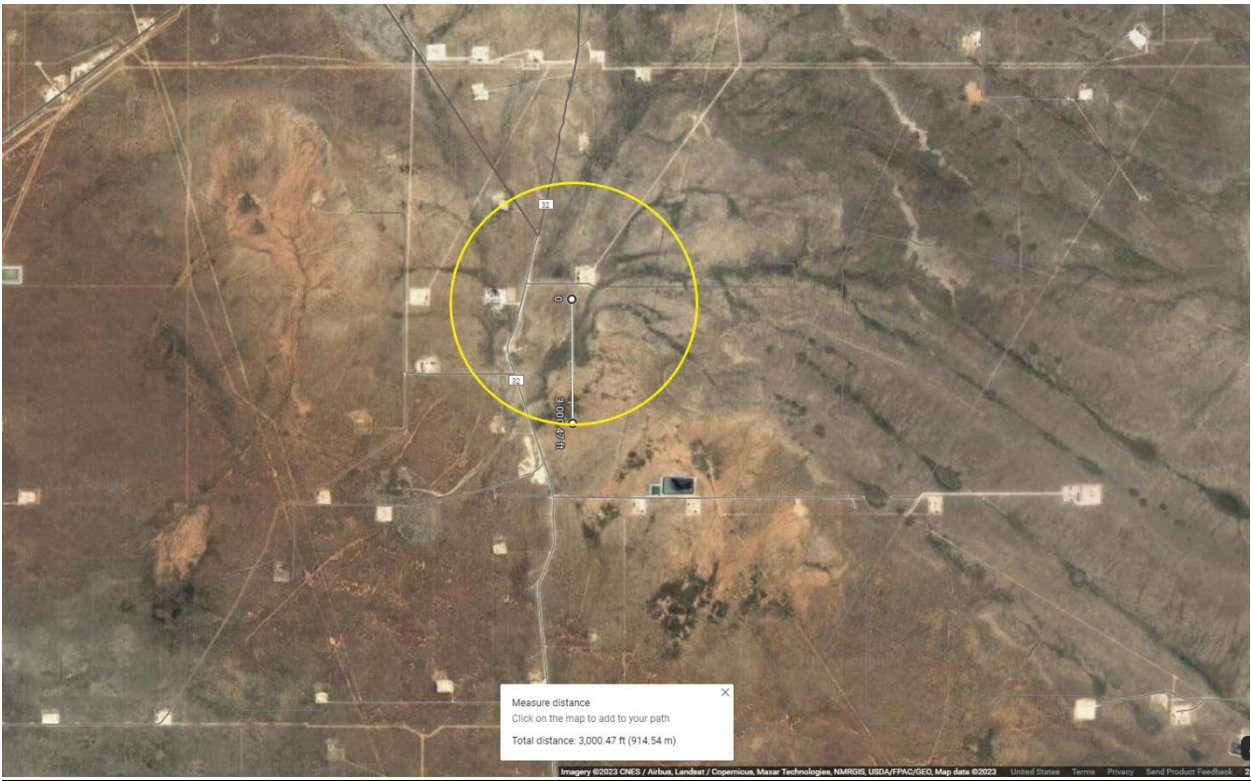


2. Residences in proximity to the 3000' Radius of Exposure (ROE) (MAP)

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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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: 32.383006, Long-103.436402**

3. Public Roads in proximity of the Radius of Exposure (ROE)

There are no public roads that would be within the 500 PPM ROE. The closest public road is New Mexico Highway 32, which is 1200' from the location.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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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.

H₂S is heavier than air with a vapor density of 1.189 (air = 1.0); however, H₂S is most often mixed with other gases. These mixtures of H₂S and other gases can be heavier or lighter than air. If the H₂S-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 H ₂ S	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

Concentration (ppm)	Symptoms/Effects
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Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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0.00011-0.00033 ppm	Typical background concentrations
0.01-1.5 ppm	Odor threshold (when rotten egg smell is first noticeable to some). Odor becomes more offensive at 3-5 ppm. Above 30 ppm, odor described as sweet or sickeningly sweet.
2-5 ppm	Prolonged exposure may cause nausea, tearing of the eyes, headaches or loss of sleep. Airway problems (bronchial constriction) in some asthma patients.
20 ppm	Possible fatigue, loss of appetite, headache, irritability, poor memory, dizziness.
50-100 ppm	Slight conjunctivitis ("gas eye") and respiratory tract irritation after 1 hour. May cause digestive upset and loss of appetite.
100 ppm	Coughing, eye irritation, loss of smell after 2-15 minutes (olfactory fatigue). Altered breathing, drowsiness after 15-30 minutes. Throat irritation after 1 hour. Gradual increase in severity of symptoms over several hours. Death may occur after 48 hours.
100-150 ppm	Loss of smell (olfactory fatigue or paralysis).
200-300 ppm	Marked conjunctivitis and respiratory tract irritation after 1 hour. Pulmonary edema may occur from prolonged exposure.
500-700 ppm	Staggering, collapse in 5 minutes. Serious damage to the eyes in 30 minutes. Death after 30-60 minutes.
700-1000 ppm	Rapid unconsciousness, "knockdown" or immediate collapse within 1 to 2 breaths, breathing stops, death within minutes.
1000-2000 ppm	Nearly instant death

III. Environmental Hazards

H₂S and its associated byproducts from combustion presents a serious environmental hazard. Sulphur Dioxide SO₂ is produced as a constituent of flaring H₂S Gas and can present hazards associated, which are similar to H₂S. Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas. Please see the attached SDS in Appendix B for reference.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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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 H₂S Radius of Exposure

H ₂ S Radius of Exposure	Description	Control and Equipment Requirements
100 ppm	Distance from a release to where the H ₂ S concentration in the air will dilute below 100ppm	ROE > 50-ft and includes any part of a “public area” (residence, school, business, etc., or any area that can be expected to be populated). ROE > 3,000-ft
500 ppm	Distance from a release to where the H ₂ S concentration in the air will dilute below 500ppm	ROE > 50-ft and includes any part of a public road (public roads are tax supported roads or any road used for public access or use)

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

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 **100 ppm ROE**:

$$x = [(1.589) (\text{mole fraction H}_2\text{S})(Q)]^{(.6258)}.$$

To determine the extent of the **500 ppm ROE**:

$$x = [(0.4546) (\text{mole fraction H}_2\text{S})(Q)]^{(.6258)}.$$

Table 8.2. Calculating H₂S Radius of Exposure

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

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

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

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

- Two cleared areas will be designated as Safe Briefing Areas. During an emergency, personnel will assemble in one of these areas for instructions from the Permian Resources Person-in-Charge. Prevailing wind direction should be considered in locating the briefing areas 200’ or more on either side of the well head. One area should offset the other at an angle of 45° to 90° with respect to prevailing wind direction to allow for wind shifts during the work period.
- In the event of either an intentional or accidental releases of hydrogen sulfide, safeguards to protect the general public from the harmful effects of hydrogen sulfide must be in place for operations. A summary of the provisions in each of three H₂S ROE cases is included in **Table 8.3**.
 - **CASE 1** -100 ppm ROE < 50’
 - **CASE 2** - 100 ppm ROE is 50’ or greater, but < 3000’ and does not penetrate public area.
 - **CASE 3** -100 ppm ROE is 50’ or greater and penetrates a public area or 500 ppm ROE includes a public road. Also if 100 ppm ROE > 3000’ regardless of public area.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

Table 8.3. NMAC 19.15.11 Compliance Requirements Drilling & Production

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

Section 9.0 - Training Requirements**Training**

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

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

- Locations of safe briefing areas.

Refresher training will be conducted annually.

Section 10.0 - Personal Protective Equipment

I. Personal H₂S Monitors

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

II. Fixed H₂S Detection and Alarms

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

III. Flame Resistant Clothing

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

IV. Respiratory Protection

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

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

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

- When routine or maintenance work tasks involve exposure to H₂S concentrations of 10 ppm or greater.
- When a fixed location area monitor alarms, and re-entry to the work area is required to complete a job.
- When confined spaces are to be entered without knowledge of H₂S levels present, or if initial measurements are to be taken of H₂S levels.
- During rescue of employees suspected of H₂S overexposure.
- For specific tasks identified with significant exposure potential and outlined in local program guidelines.
- All respiratory equipment for hydrogen sulfide must be of the supplied-air type, equipped with pressure-demand regulators and operated in the pressure-demand mode only. This is the only type of respiratory protection recommended for hydrogen sulfide application. Equipment should be approved by NIOSH/MSHA or other recognized national authority as required. If airline units are used, a five-minute egress bottle should also be carried.
- Gas masks or other air-purifying respirators MUST NEVER BE USED FOR HYDROGEN SULFIDE due to the poor warning properties of the gas.
- Use of respiratory protection should be accompanied by a written respiratory protection program.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

Appendix A
H₂S SDS

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

SECTION 1: Identification

1.1. Product identifier

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

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Industrial use
Use as directed

1.3. Supplier

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-CA classification

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

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms



Signal word

: DANGER

Hazard statements

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

Precautionary statements

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

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EN (English)

SDS ID : E-4611

1/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



Hydrogen sulfide

Safety Data Sheet E-4611

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

Date of issue: 10-15-1979

Revision date: 08-10-2016

Supersedes: 10-15-2013

Do not breathe gas
Use and store only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves, protective clothing, eye protection, respiratory protection, and/or face protection
Leaking gas fire: Do not extinguish, unless leak can be stopped safely
In case of leakage, eliminate all ignition sources
Store locked up
Dispose of contents/container in accordance with container Supplier/owner instructions
Protect from sunlight when ambient temperature exceeds 52°C (125°F)
Close valve after each use and when empty
Do not open valve until connected to equipment prepared for use
When returning cylinder, install leak tight valve outlet cap or plug
Do not depend on odour to detect the presence of gas

2.3. Other hazards

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

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	CAS No.	% (Vol.)	Common Name (synonyms)
Hydrogen sulfide (Main constituent)	(CAS No) 7783-06-4	100	Hydrogen sulfide (H ₂ S) / Hydrogen sulphide / Sulfur hydride / Sulfureted hydrogen / Dihydrogen sulphide / Hydrogensulfide

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact : The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

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

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Obtain medical assistance. Treat with corticosteroid spray as soon as possible after inhalation.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

No additional information available

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EN (English)

SDS ID : E-4611

2/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

5.3. Specific hazards arising from the hazardous product

- Fire hazard : **EXTREMELY FLAMMABLE GAS.** If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.
- Explosion hazard : **EXTREMELY FLAMMABLE GAS.** Forms explosive mixtures with air and oxidizing agents.
- Reactivity : No reactivity hazard other than the effects described in sub-sections below.
- Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : **DANGER! Toxic, flammable liquefied gas**
- Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.
- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
- Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Methods and materials for containment and cleaning up

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

6.3. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Leak-check system with soapy water; never use a flame
- All piped systems and associated equipment must be grounded
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment
- Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

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EN (English)

SDS ID : E-4611

3/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

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EN (English)

SDS ID : E-4611

4/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

Hydrogen sulfide (7783-06-4)		
Northwest Territories	OEL TWA (ppm)	10 ppm
Ontario	OEL STEL (ppm)	15 ppm
Ontario	OEL TWA (ppm)	10 ppm
Prince Edward Island	OEL STEL (ppm)	5 ppm
Prince Edward Island	OEL TWA (ppm)	1 ppm
Québec	VECD (mg/m ³)	21 mg/m ³
Québec	VECD (ppm)	15 ppm
Québec	VEMP (mg/m ³)	14 mg/m ³
Québec	VEMP (ppm)	10 ppm
Saskatchewan	OEL STEL (ppm)	15 ppm
Saskatchewan	OEL TWA (ppm)	10 ppm
Yukon	OEL STEL (mg/m ³)	27 mg/m ³
Yukon	OEL STEL (ppm)	15 ppm
Yukon	OEL TWA (mg/m ³)	15 mg/m ³
Yukon	OEL TWA (ppm)	10 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment

: Safety glasses. Face shield. Gloves.



Hand protection

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

Eye protection

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

Respiratory protection

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

Thermal hazard protection

: Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves.

Other information

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Colorless gas. Colorless liquid at low temperature or under high pressure.
Molecular mass	: 34 g/mol
Colour	: Colourless.
Odour	: Odour can persist. Poor warning properties at low concentrations. Rotten eggs.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.

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EN (English)

SDS ID : E-4611

5/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: May react violently with oxidants. Can form explosive mixture with air.
Conditions to avoid	: Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Incompatible materials	: Ammonia. Bases. Bromine pentafluoride. Chlorine trifluoride. chromium trioxide. (and heat). Copper. (powdered). Fluorine. Lead. Lead oxide. Mercury. Nitric acid. Nitrogen trifluoride. nitrogen sulfide. Organic compounds. Oxidizing agents. Oxygen difluoride. Rubber. Sodium. (and moisture). Water.
Hazardous decomposition products	: Thermal decomposition may produce : Sulfur. Hydrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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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

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

Hydrogen sulfide (\f)7783-06-4	
LC50 inhalation rat (mg/l)	0.99 mg/l (Exposure time: 1 h)
LC50 inhalation rat (ppm)	356 ppm/4h
ATE CA (gases)	356.00000000 ppmv/4h
ATE CA (vapours)	0.99000000 mg/l/4h
ATE CA (dust,mist)	0.99000000 mg/l/4h

Skin corrosion/irritation : Not classified

pH: Not applicable.

Serious eye damage/irritation : Not classified

pH: Not applicable.

Respiratory or skin sensitization : Not classified

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : VERY TOXIC TO AQUATIC LIFE.

Hydrogen sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

12.2. Persistence and degradability

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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SDS ID : E-4611

7/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG) : UN1053
 TDG Primary Hazard Classes : 2.3 - Class 2.3 - Toxic Gas.
 TDG Subsidiary Classes : 2.1
 Proper shipping name : HYDROGEN SULPHIDE

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

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1053
 Proper Shipping Name (IMDG) : HYDROGEN SULPHIDE
 Class (IMDG) : 2 - Gases
 MFAG-No : 117

IATA

UN-No. (IATA) : 1053
 Proper Shipping Name (IATA) : Hydrogen sulphide
 Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

Hydrogen sulfide (7783-06-4)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Hydrogen sulfide (7783-06-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on the Korean ECL (Existing Chemicals List)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Listed on INSQ (Mexican national Inventory of Chemical Substances)

SECTION 16: Other information

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

Indication of changes:

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

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SDS ID : E-4611

8/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



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

Other information

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

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

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

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NFPA health hazard

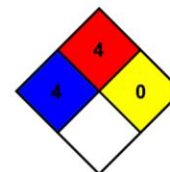
: 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.

NFPA fire hazard

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

NFPA reactivity

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



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

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

Physical

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

SDS Canada (GHS) - Praxair

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

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SDS ID : E-4611

9/9

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

Appendix B
SO₂ SDS



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SULFUR DIOXIDE

Synonyms

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

Chemical Family

inorganic, gas

Product Description

Classification determined in accordance with Compressed Gas Association standards.

Product Use

Industrial and Specialty Gas Applications.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

MATHESON TRI-GAS, INC.

3 Mountainview Road

Warren, NJ 07059

General Information: 1-800-416-2505

Emergency #: 1-800-424-9300 (CHEMTREC)

Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

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

Gases Under Pressure - Liquefied gas

Acute Toxicity - Inhalation - Gas - Category 3

Skin Corrosion/Irritation - Category 1B

Serious Eye Damage/Eye Irritation - Category 1

Simple Asphyxiant

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)

Contains gas under pressure; may explode if heated.

Toxic if inhaled.

Causes severe skin burns and eye damage.

May displace oxygen and cause rapid suffocation.

Precautionary Statement(s)

Prevention

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

Wash thoroughly after handling.

Do not breathe dusts or mists.

Response

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

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

Continue rinsing.

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

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

Storage

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

Store locked up.

Protect from sunlight.

Disposal

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

Other Hazards

Contact with liquified gas may cause frostbite.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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

Section 4 - FIRST AID MEASURES

Inhalation

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

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.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Negligible fire hazard.

Hazardous Combustion Products

sulfur oxides

Fire Fighting Measures

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

Special Protective Equipment and Precautions for Firefighters

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

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

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

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

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

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

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

Conditions for Safe Storage, Including any Incompatibilities

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

Store locked up.

Protect from sunlight.

Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Keep separated from incompatible substances.

Incompatible Materials

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

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

NIOSH:	2 ppm TWA ; 5 mg/m ³ TWA
	5 ppm STEL ; 13 mg/m ³ STEL
	100 ppm IDLH
OSHA (US):	5 ppm TWA ; 13 mg/m ³ TWA
Mexico:	0.25 ppm STEL [PPT-CT]

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

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

Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

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

Skin Protection

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

Respiratory Protection

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

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------



Safety Data Sheet

Material Name: SULFUR DIOXIDE

SDS ID: MAT22290

Water Solubility	22.8 % (@ 0 °C)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	Not available
Physical Form	liquified gas	Molecular Formula	S-O ₂
Molecular Weight	64.06		

Solvent Solubility**Soluble**

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

Section 10 - STABILITY AND REACTIVITY**Reactivity**

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

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

Incompatible Materials

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

Hazardous decomposition products

oxides of sulfur

Section 11 - TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Inhalation**

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

Skin Contact

skin burns

Eye Contact

eye burns

Ingestion

burns, nausea, vomiting, diarrhea, stomach pain

Acute and Chronic Toxicity**Component Analysis - LD50/LC50**

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

Sulfur dioxide (7446-09-5)

Inhalation LC50 Rat 965 - 1168 ppm 4 h

Product Toxicity Data**Acute Toxicity Estimate**

No data available.

Immediate Effects

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

**MATHESON**

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Safety Data Sheet**Material Name: SULFUR DIOXIDE****SDS ID: MAT22290**

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

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

respiratory tract burns, skin burns, eye burns

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

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

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration hazard

Not applicable.

Medical Conditions Aggravated by Exposure

respiratory disorders

Section 12 - ECOLOGICAL INFORMATION**Component Analysis - Aquatic Toxicity**

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

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Section 13 - DISPOSAL CONSIDERATIONS**Disposal Methods**

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

Component Waste Numbers

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

Section 14 - TRANSPORT INFORMATION**US DOT Information:****Shipping Name:** SULFUR DIOXIDE

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
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**MATHESON**

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Safety Data Sheet**Material Name: SULFUR DIOXIDE****SDS ID: MAT22290****Hazard Class: 2.3****UN/NA #: UN1079****Required Label(s): 2.3****IMDG Information:****Shipping Name: SULPHUR DIOXIDE****Hazard Class: 2.3****UN#: UN1079****Required Label(s): 2.3****TDG Information:****Shipping Name: SULFUR DIOXIDE****Hazard Class: 2.3****UN#: UN1079****Required Label(s): 2.3****International Bulk Chemical Code**

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

Section 15 - REGULATORY INFORMATION**U.S. Federal Regulations**

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

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

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

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

U.S. State Regulations

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

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

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**WARNING**This product can expose you to chemicals including Sulfur dioxide , which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Permian Resources Corporation	H ₂ S Contingency Plan Tour Bus 23 Fed Com 302H, 303H, 304H, 602H, 603H, 604H	Lea County, New Mexico
-------------------------------	--	------------------------

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Safety Data Sheet**Material Name: SULFUR DIOXIDE****SDS ID: MAT22290**

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

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

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

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

Section 16 - OTHER INFORMATION**NFPA Ratings**

Health: 3 Fire: 0 Instability: 0

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

Summary of Changes

SDS update: 02/10/2016

Key / Legend

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

Operator Name: PERMIAN RESOURCES OPERATING LLC

Well Name: TOUR BUS 23 FEDERAL COMWell Number: 303H

Waste disposal type: OTHER

Disposal location ownership: OTHER

Disposal type description: Public

Disposal location description: All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 390786

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:	372165
	Action Number:	390786
	Action Type:	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/11/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	10/11/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	10/11/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	10/11/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	10/11/2024