

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED 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	3b. Phone No. (include area code)	9. API Well No. 30-025-55830
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
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)



Approval Date: 09/23/2025

INSTRUCTIONS

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

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

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

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the 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 a new 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: SESE / 1051 FSL / 1137 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.699644 / LONG: -103.783584 (TVD: 0 feet, MD: 0 feet)
PPP: NESW / 2230 FSL / 1319 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7028361 / LONG: -103.7584411 (TVD: 10150 feet, MD: 17107 feet)
PPP: NWSE / 2235 FSL / 2634 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7028631 / LONG: -103.7713269 (TVD: 10150 feet, MD: 13143 feet)
PPP: NESW / 2232 FSL / 1318 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7028703 / LONG: -103.7756065 (TVD: 10150 feet, MD: 11827 feet)
PPP: NWSW / 2230 FSL / 100 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702876 / LONG: -103.779565 (TVD: 10150 feet, MD: 10614 feet)
PPP: NWSW / 2230 FSL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7028449 / LONG: -103.76273 (TVD: 10150 feet, MD: 15788 feet)
BHL: NESE / 2230 FSL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.702809 / LONG: -103.745588 (TVD: 10150 feet, MD: 20971 feet)

BLM Point of Contact

Name: SAMUEL J TRUJILLO
Title: Legal Instruments Examiner
Phone: (575) 234-5943
Email: STRUJILLO@BLM.GOV

CONFIDENTIAL

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	PBEX Operations LLC
LOCATION:	Section 32, T.18 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Bond 32-34 Fed Com 301H
ATS/API ID:	ATS-25-1231
APD ID:	10400103832
Sundry ID:	N/a

WELL NAME & NO.:	Bond 32-34 Fed Com 302H
ATS/API ID:	ATS-25-1232
APD ID:	10400103833
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 304H
ATS/API ID:	ATS-25-1222
APD ID:	10400103894
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 305H
ATS/API ID:	ATS-25-1229
APD ID:	10400103911
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 306H
ATS/API ID:	ATS-25-1223
APD ID:	10400103912
Sundry ID:	N/a

COA

H2S	Yes ▼		
Potash	None ▼	None ▼	
Cave/Karst Potential	Low ▼		
Cave/Karst Potential	☐ Critical		
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	Conventional and Multibowl ▼		
Other	☐ 4 String ☐ 5 String	Capitan Reef None ▼	☐ WIPP
Other	Pilot Hole None ▼	☐ Open Annulus	
Cementing	Contingency Squeeze None ▼	Echo-Meter None ▼	Primary Cement Squeeze None ▼
Special Requirements	☐ Water Disposal/Injection	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP ▼	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1213 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
 - 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:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. 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 3172.6(b)(9) 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 part 3170 Subpart 3171**
- 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.

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)

☒ Lea County

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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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.

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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)

- c. 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 part 3170 Subpart 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).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

Long Vo (LVO) 4/14/2025



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

Operator Certification Data Report

11/30/2025

Operator

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

NAME: MIKAH THOMAS

Signed on: 04/02/2025

Title: Regulatory Manager

Street Address: 223 WEST WALL STREET STE 900

City: MIDLAND

State: TX

Zip: 79701

Phone: (432)661-7106

Email address: MIKAH@PBEX.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

11/30/2025

APD ID: 10400103894

Submission Date: 03/16/2025

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400103894

Tie to previous NOS? N

Submission Date: 03/16/2025

BLM Office: Carlsbad

User: MIKAH THOMAS

Title: Regulatory Manager

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM26690

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: PBEX OPERATIONS LLC

Operator letter of

Operator Info

Operator Organization Name: PBEX OPERATIONS LLC

Operator Address: 223 WEST WALL STREET STE 900

Zip: 79701

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)661-7106

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BOND 33-34 FED COM

Well Number: 304H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: LUSK

Pool Name: BONE SPRING,
NORTH

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 304H**Is the proposed well in an area containing other mineral resources?** NATURAL GAS,OIL**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?****Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:** BOND 32-34 FED COM SOUTH**Number:** 2**Well Class:** HORIZONTAL**Number of Legs:** 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:** 10 Miles**Distance to nearest well:** 863 FT**Distance to lease line:** 1051 FT**Reservoir well spacing assigned acres Measurement:** 640 Acres**Well plat:** 24_041778_BOND_FED_COM_304H_C102_20250303073148.pdf**Well work start Date:** 08/01/2025**Duration:** 90 DAYS**Section 3 - Well Location Table****Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:** 29796**Reference Datum:** KELLY BUSHING

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1051	FSL	1137	FEL	18S	32E	32	Aliquot SESE	32.699644	-103.783584	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3683			N
KOP Leg #1	1051	FSL	1137	FEL	18S	32E	32	Aliquot SESE	32.699644	-103.783584	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-5894	9697	9577	N
PPP Leg #1-1	2230	FSL	100	FWL	18S	32E	33	Aliquot NWSW	32.702876	-103.779565	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 26690	-6467	10614	10150	Y

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	2232	FSL	1318	FWL	18S	32E	33	Aliquot NESW	32.7028703	- 103.7756065	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 25877	- 6467	11827	10150	Y
PPP Leg #1-3	2235	FSL	2634	FWL	18S	32E	33	Aliquot NWSE	32.7028631	- 103.7713269	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 24161	- 6467	13143	10150	Y
PPP Leg #1-4	2230	FSL	0	FWL	18S	32E	34	Aliquot NWSW	32.7028449	- 103.76273	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 96235	- 6467	15788	10150	Y
PPP Leg #1-5	2230	FSL	1319	FWL	18S	32E	34	Aliquot NESW	32.7028361	- 103.7584411	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 6467	17107	10150	Y
EXIT Leg #1	2230	FSL	100	FEL	18S	32E	34	Aliquot NESE	32.70281	- 103.745881	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 6467	20971	10150	Y
BHL Leg #1	2230	FSL	10	FEL	18S	32E	34	Aliquot NESE	32.702809	- 103.745588	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 6467	20971	10150	Y

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	Pool Code 41450	Pool Name LUSK;BONE SPRING, NORTH
Property Code	Property Name BOND 33-34 FED COM	Well Number 304H
OGRID No. 332544	Operator Name PBEX Operations, LLC	Ground Level Elevation 3,682.50'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL P	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,051' FSL	Ft. from E/W 1,137' FEL	Latitude 32.699644°	Longitude -103.783584°	County LEA
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Bottom Hole Location

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,230' FSL	Ft. from E/W 10' FEL	Latitude 32.702809°	Longitude -103.745588°	County LEA
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Dedicated Acres 640	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL P	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,051' FSL	Ft. from E/W 1,137' FEL	Latitude 32.699644°	Longitude -103.783584°	County LEA
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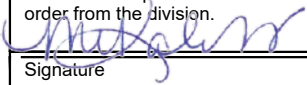
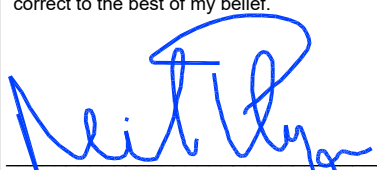
First Take Point (FTP)

UL L	Section 33	Township 18S	Range 32E	Lot	Ft. from N/S 2,230' FSL	Ft. from E/W 100' FWL	Latitude 32.702876°	Longitude -103.779565°	County LEA
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Last Take Point (LTP)

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,230' FSL	Ft. from E/W 100' FEL	Latitude 32.702810°	Longitude -103.745881°	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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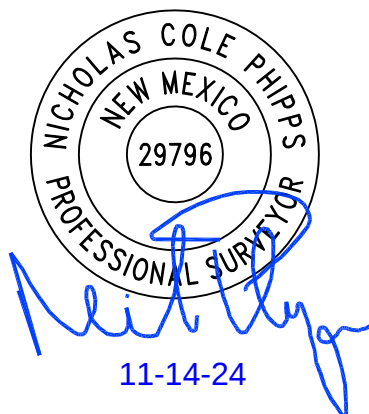
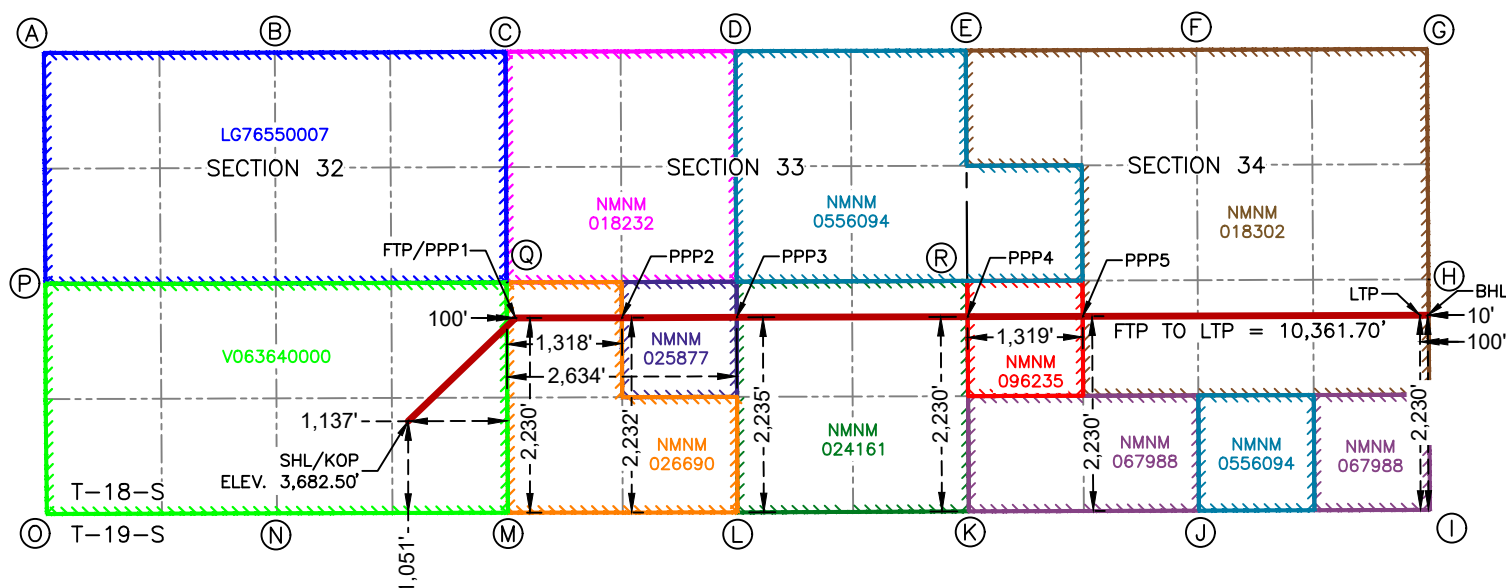
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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. 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.  Signature 02/01/2025 Date Mikah Thomas Printed Name mikah@pbex.com Email Address		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  NICHOLAS COLE PHIPPS P.S. 29796 COOSA CONSULTING CORPORATION PO BOX 1583, MIDLAND, TEXAS 79701 Signature and Seal of Professional Surveyor  Certificate Number 29796 Date of Survey 11/14/2024	
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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



CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A	N:622,919.18' E:706,274.71'
B	N:622,925.94' E:708,919.07'
C	N:622,933.11' E:711,562.90'
D	N:622,939.79' E:714,200.05'
E	N:622,946.74' E:716,835.71'
F	N:622,955.24' E:719,478.22'
G	N:622,964.56' E:722,119.22'
H	N:620,324.44' E:722,136.67'
I	N:617,684.31' E:722,154.13'
J	N:617,675.56' E:719,507.45'
K	N:617,667.42' E:716,871.24'
L	N:617,654.91' E:714,220.52'
M	N:617,652.16' E:711,590.74'
N	N:617,645.07' E:708,944.55'
O	N:617,637.10' E:706,308.57'
P	N:620,268.56' E:706,292.10'
Q	N:620,290.05' E:711,575.35'
R	N:620,307.39' E:716,853.63'

SURFACE HOLE LOCATION
& KICK-OFF POINT
1,051' FSL & 1,137' FEL
ELEV. = 3,682.50'

NAD 83 X = 710,447.69'
NAD 83 Y = 618,700.24'
NAD 83 LAT = 32.699644°
NAD 83 LONG = -103.783584°

FIRST TAKE POINT &
PENETRATION POINT 1
2,230' FSL & 100' FWL

NAD 83 X = 711,677.73'
NAD 83 Y = 619,882.26'
NAD 83 LAT = 32.702876°
NAD 83 LONG = -103.779565°

PENETRATION POINT 2
2,232' FSL & 1,318' FWL

NAD 83 X = 712,895.42'
NAD 83 Y = 619,885.81'
NAD 83 LAT = 32.702868°
NAD 83 LONG = -103.775607°

PENETRATION POINT 3
2,235' FSL & 2,634' FWL

NAD 83 X = 714,211.86'
NAD 83 Y = 619,889.65'
NAD 83 LAT = 32.702859°
NAD 83 LONG = -103.771327°

PENETRATION POINT 4
2,230' FSL & 0' FWL

NAD 83 X = 716,856.36'
NAD 83 Y = 619,897.37'
NAD 83 LAT = 32.702842°
NAD 83 LONG = -103.762730°

PENETRATION POINT 5
2,230' FSL & 1,319' FWL

NAD 83 X = 718,175.67'
NAD 83 Y = 619,901.59'
NAD 83 LAT = 32.702834°
NAD 83 LONG = -103.758441°

LAST TAKE POINT
2,230' FSL & 100' FEL

NAD 83 X = 722,039.39'
NAD 83 Y = 619,913.95'
NAD 83 LAT = 32.702810°
NAD 83 LONG = -103.745881°

BOTTOM HOLE LOCATION
2,230' FSL & 10' FEL

NAD 83 X = 722,129.39'
NAD 83 Y = 619,914.24'
NAD 83 LAT = 32.702809°
NAD 83 LONG = -103.745588°



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

Drilling Plan Data Report

11/30/2025

APD ID: 10400103894

Submission Date: 03/16/2025

Highlighted data
reflects the most
recent changes

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

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
16453310	QUATERNARY	3683	0	0	ALLUVIUM	NONE	N
16453312	RUSTLER	2533	1150	1150	ANHYDRITE, LIMESTONE, SALT	NONE	N
16453313	TOP OF SALT	2253	1430	1430	ANHYDRITE, SALT	NONE	N
16453314	BASE OF SALT	1508	2175	2175	ANHYDRITE, SALT	NONE	N
16453329	YATES	811	2872	2892	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16453330	SEVEN RIVERS	488	3195	3215	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16453331	QUEEN	-92	3775	3795	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16453333	SAN ANDRES	-582	4265	4285	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16453318	CHERRY CANYON	-932	4615	4615	LIMESTONE, SANDSTONE, SHALE	NONE	N
16453319	BRUSHY CANYON	-1362	5045	5045	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453320	BONE SPRING LIME	-3286	6969	6989	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453321	AVALON SAND	-3507	7190	7190	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453334	BONE SPRING 1ST	-4637	8320	8370	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453335	BONE SPRING 2ND	-4942	8625	8675	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453336	BONE SPRING 2ND	-5207	8890	8940	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453337	BONE SPRING 3RD	-5747	9430	9490	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16453338	BONE SPRING 3RD	-6152	9835	9915	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 304H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16453339	WOLFCAMP	-6502	10185	10275	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M**Rating Depth:** 5000

Equipment: A 13.625" 5M Blowout Preventer system will be installed on a multi-bowl (speed head) wellhead with a 13.625" flanged casing spool. Top flange of casing spool will be set in a cellar below ground level. BOP system will consist of a single pipe ram on the bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top, and annular preventer. Blowout preventer will be installed on top of the 13.375 surface casing and will remain installed to TD of the well. Wellhead, blowout preventer, and choke manifold diagram are included.

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex hose between the BOP system and choke manifold. A typical co-flex pressure test certificate is attached. An equipment specific co-flex pressure test certificate will be on site when testing the BOP.

Testing Procedure: All casing strings will be tested in accordance with Onshore Order 2 III.B.1.h. The BOP system will be isolated and tested by an independent tester to 250 psi low and 5,000 psi high for 10 minutes. per CFR 3172 requirements. If 10M system, we will test annular to 100% of WP (5,000 psi) The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Length Of Casing, which is equivalent to 1130.8 psi OR 1,500 psi, whichever is higher) for 30 minutes

Choke Diagram Attachment:

5M_Choke_EGL_20241218135422.pdf

PBEX_10M_Choke_Manifold_20250303074238.pdf

BOP Diagram Attachment:

5M_BOP_EGL_20241218135409.pdf

PBEX_10M_BOP_Diagram_20250303074241.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	1310	0	1310	3683	2373	1310	J-55	54.5	BUTT	1.12 5	1.12 5	BUOY	1.6	BUOY	1.6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	9450	9450	9350	9350	-5667	-5667	0	HCL -80	40	BUTT	1.12 5	1.12 5	BUOY	1.6	BUOY	1.6

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

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
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	21061	0	10150	3643	-6467	21061	P- 110	20	OTHER - CDC HTQ	1.12 5	1.12 5	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_54.5000_0.3800_J55_data_sheet_20250303074313.pdf

Casing_Design_Assmpt_3_string_casing_20250303074317.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assmpt_3_string_casing_20241218135530.pdf

9.625in_40.00lb_ft_L80_HC_BORUSAN_20250224115542.pdf

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

Casing Attachments

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 5.5_20.00_P110HP_CDC_HTQ_Data_Sheet_20250303074403.pdf
- Casing_Design_Assmpt_3_string_casing_20250303074409.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1200	751	2.22	12.5	1667.3	100	C	Gel, Accelerator, LCM
SURFACE	Tail		1200	1310	83	1.84	13.2	152.8	100	C	Gel, Accelerator, LCM
INTERMEDIATE	Lead		0	8350	694	6.19	10	4297	60	C or H	Fluid Loss, Retarder, LCM, Possibly Beads
INTERMEDIATE	Tail		8350	21061	130	1.38	13.8	179.4	15	C or H	Fluid Loss, Retarder, LCM
PRODUCTION	Lead		5850	8850	525	1.49	12.5	782.3	0	H	Fluid Loss, Retarder, LCM
PRODUCTION	Tail		8850	21061	2572	1.49	13.5	3832	20	H	Fluid Loss, Retarder, LCM

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 304H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (barite, bentonite, LCM) to control weight and fluid loss will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Describe the mud monitoring system utilized: An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1310	SPUD MUD	8.3	8.3							
1310	9450	SALT SATURATED	8.8	9.6							
9450	2106 1	OIL-BASED MUD	11	12.5							

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 3000 to TD. GR log will be acquired by MWD tools from the intermediate casing to TD.

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

GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 304H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6598**Anticipated Surface Pressure:** 4364**Anticipated Bottom Hole Temperature(F):** 240**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

PBEX_Operations_LLC_H2S_Contengency_Plan_20241229103612.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BOND_33_34_FED_COM__304H__Plan_1__20250303074707.pdf

BOND_33_34_FED_COM__304H__Plan_1_AC_Report_20250303074710.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

Choke_Kill_Line_Certs_20240221201455.pdf

NGMP_Bond_32_34_Fed_Com_20250224105901.pdf

PBEX_Operations__LLC_NGMP_Best_Practices_20250212141054.pdf

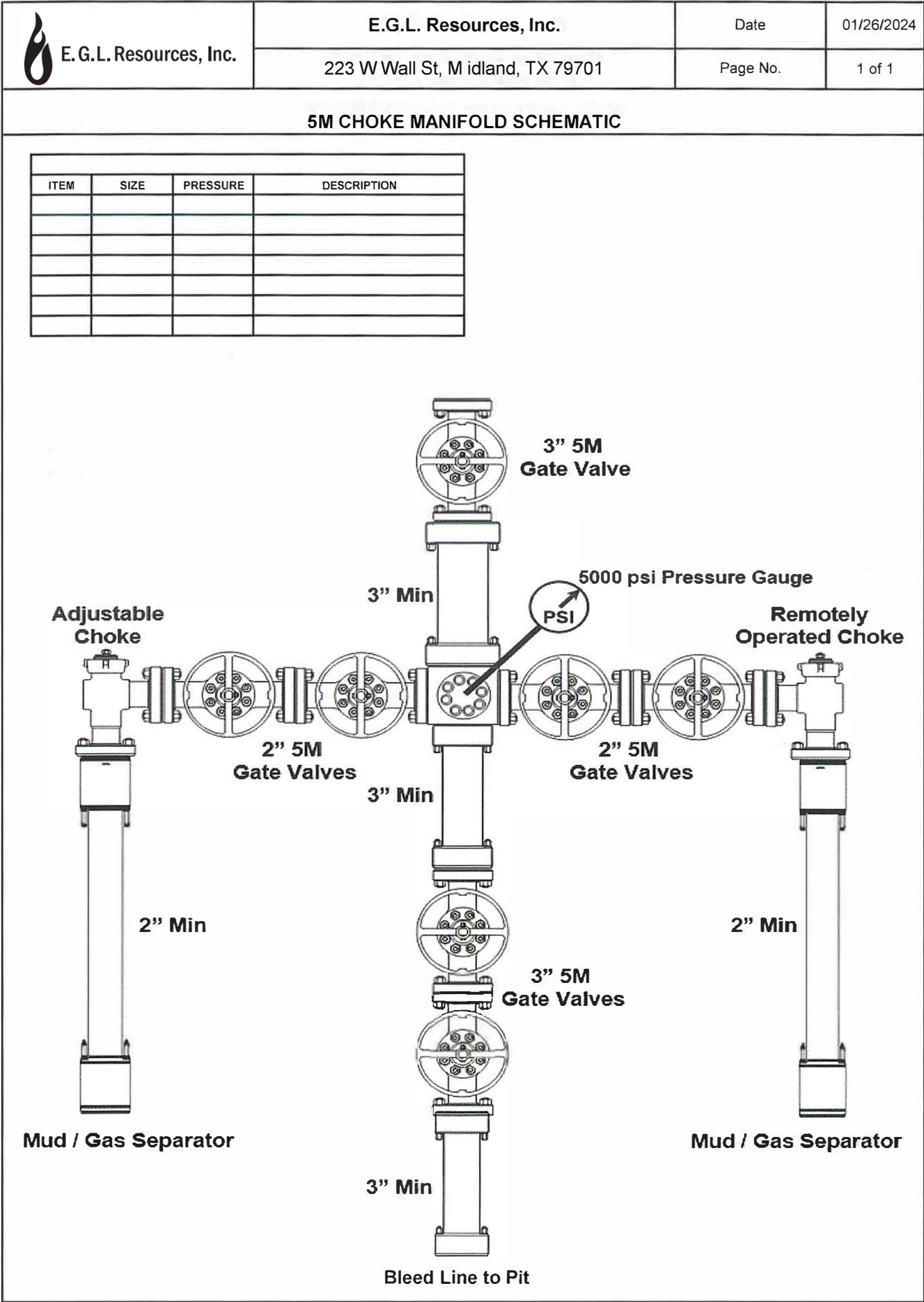
Wellhead_Schematic_9.625_10M_3T_20250212135648.pdf

Well_Control_Plan_PBEX_v2_20250303074731.pdf

PBEX_NM_Curve_volumes_3BSS_20250303074743.pdf

Bond_33_34_FED_COM__304H_Drill_Plan_v5_20250316221604.pdf

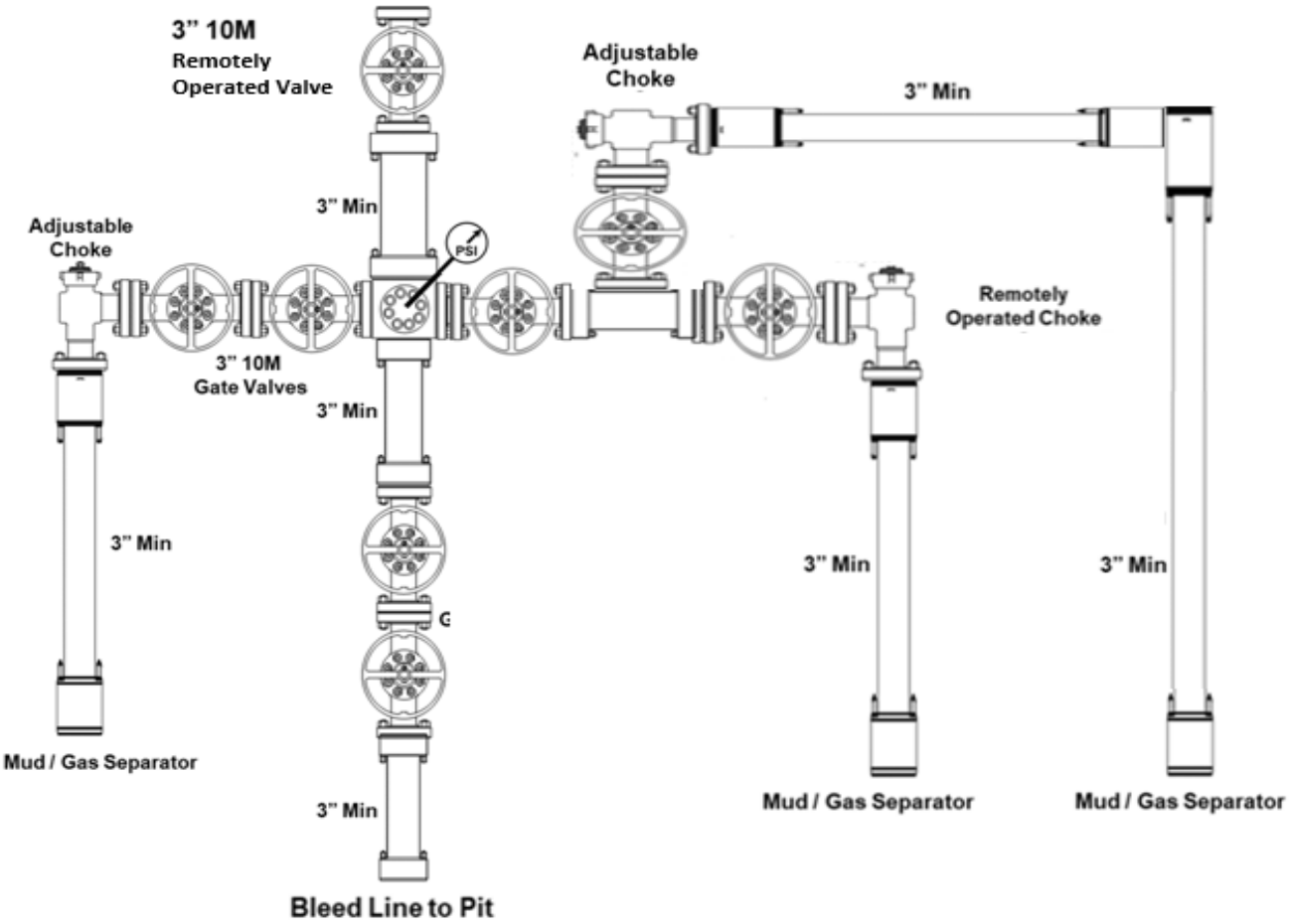
Other Variance request(s)?: N**Other Variance attachment:**



	PBEX	Date	6/05/2024
	223 W. Wall St #900 Midland, TX 79701	Page No.	1 of 1

10M CHOKE MANIFOLD SCHEMATIC

ITEM	SIZE	PRESSURE	DESCRIPTION





E. G. L. Resources, Inc.

E.G.L. Resources, Inc.

Date

1/26/2024

223 W Wall St, Midland, TX 79701

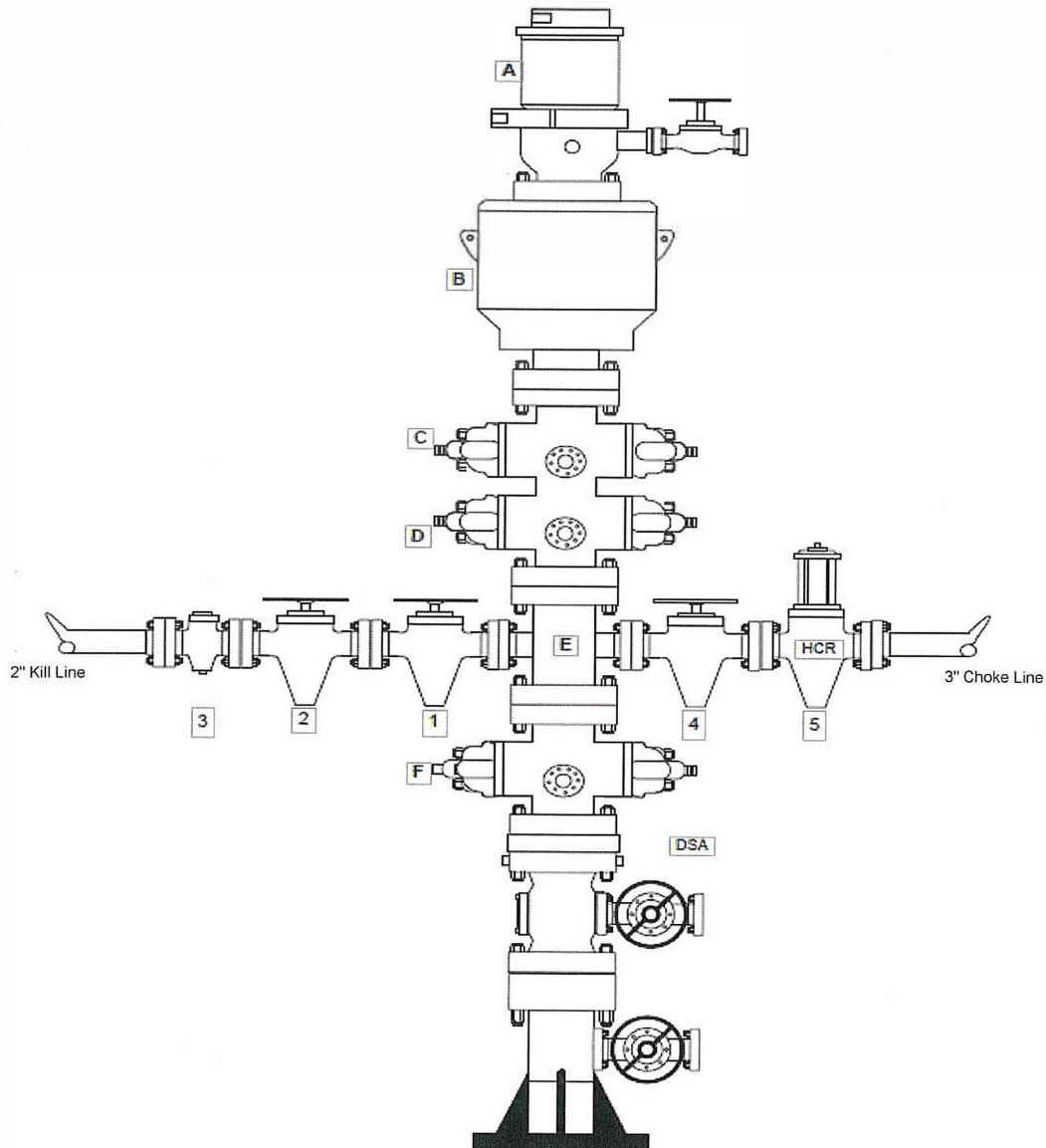
Page No.

1 of 1

5M BLOWOUT PREVENTER SCHEMATIC

BLOWOUT PREVENTER COMPONENTS

ITEM	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	1,500 psi	Rotating Head + Valve
B	13-5/8"	5,000 psi	Annular Preventer
C	13-5/8"	5,000 psi	Pipe Rams
D	13-5/8"	5,000 psi	Blind Rams
E	13-5/8"	5,000 psi	Mud Cross
F	13-5/8"	5,000 psi	Pipe Rams



KILL LINE

ITEM	SIZE	PRESSURE	DESCRIPTION
1	2"	5,000 psi	Gate Valve
2	2"	5,000 psi	Gate Valve
3	2"	5,000 psi	Check Valve

CHOKE LINE

ITEM	SIZE	PRESSURE	DESCRIPTION
4	3"	5,000 psi	Gate Valve
5	3"	5,000 psi	HCR Valve



PBEX

Date

6/05/2024

223 W. Wall St #900 Midland, TX 79701

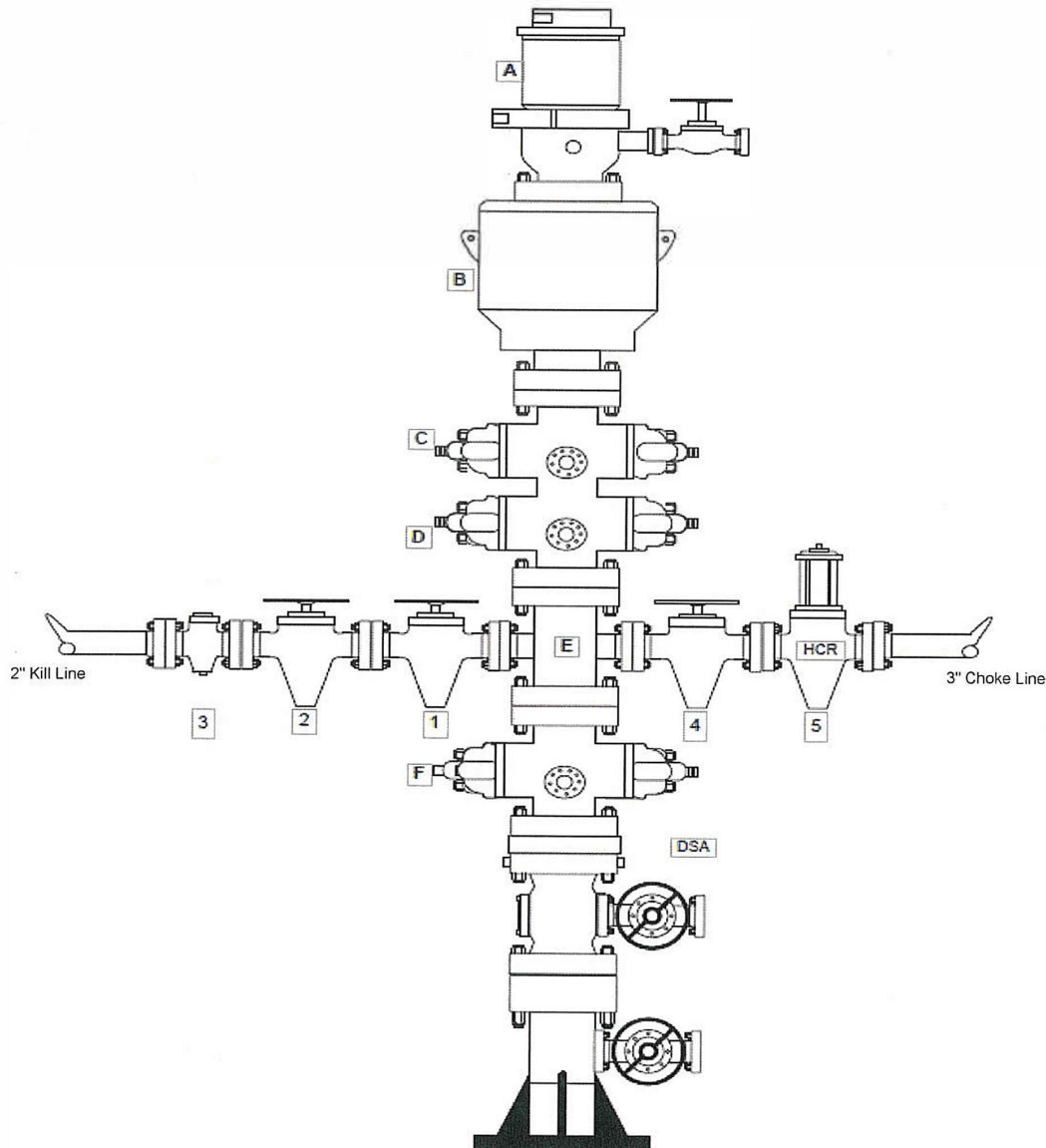
Page No.

1 of 1

10M BLOWOUT PREVENTER SCHEMATIC

BLOWOUT PREVENTOR COMPONENTS

ITEM	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	1,500 psi	Rotating Head + Valve
B	13-5/8"	5,000 psi	Annular Preventer
C	13-5/8"	10,000 psi	Pipe Rams
D	13-5/8"	10,000 psi	Blind Rams
E	13-5/8"	10,000 psi	Mud Cross
F	13-5/8"	10,000 psi	Pipe Rams



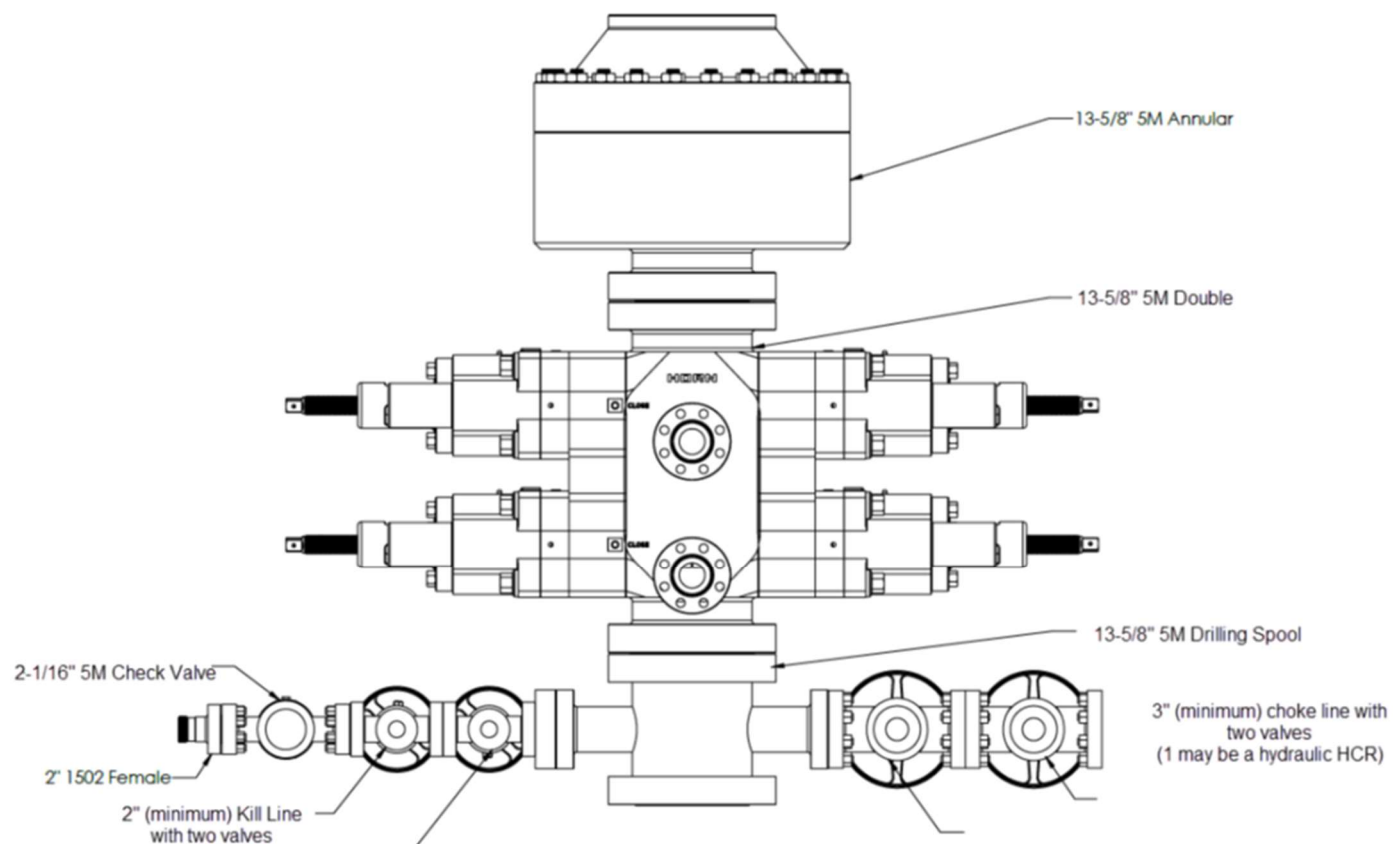
KILL LINE

ITEM	SIZE	PRESSURE	DESCRIPTION
1	2"	10,000 psi	Gate Valve
2	2"	10,000 psi	Gate Valve
3	2"	10,000 psi	Check Valve

CHOKE LINE

ITEM	SIZE	PRESSURE	DESCRIPTION
4	3"	10,000 psi	Gate Valve
5	3"	10,000 psi	HCR Valve

BOP Diagram 502H



3-string Casing Design Assumptions

Surface Casing

Collapse: $DF_C = 1.125$

- a. Full internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement of fluid gradient.

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but to exceed 70% of the minimum internal yield.
- b. Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drill pipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).

API 5CT Casing Performance Data Sheet

9 5/8" 40.00 lb/ft L80 HC

Properties are based on the requirements of API 5CT 10th edition and service characteristics of L80 Grade, and bears the API monogram.
Designed for enhanced performance through increased collapse resistance.

Grade	L80 HC
-------	--------

Sizes and Weights

OD	9.625 in
Nominal Wall Thickness	0.395 in
Nominal Weight, T&C	40.00 lb/ft
Nominal Weight, PE	38.97 lb/ft
Nominal ID	8.835 in
Standard Drift	8.679 in
Alternate Drift	8.750 in

Pipe Body Mechanical Properties

Minimum Yield Strength	80,000 psi
Maximum Yield Strength	95,000 psi
Minimum Tensile Strength	95,000 psi
Maximum Hardness	23 HRC

Minimum Performance

Collapse Pressure (Tested per heat for each run)	3,870 psi
Minimal Internal Pressure Yield	5,750
Pipe body Tension Yield	916,000 lbs
Joint Strength STC	N/A
Joint Strength LTC	727,000 lbs
Joint Strength BTC	947,000 lbs
Internal Pressure Leak Resistance STC/LTC Connections	8,460 lbs
Internal Pressure Leak Resistance BTC Connections	9,190 lbs

Inspection and Testing

Visual	OD Longitudinal and independent 3rd party SEA
NDT	Independent 3rd party full body EMI and End Area Inspection after hydrotest. Calibration noth sensitivity: 10% of specified wall thickness.

Color code

Pipe ends	One red, one brown and one blue bands
Couplings	Red with one brown band



U. S. Steel Tubular Products
13.375" 54.50lb/ft (0.380" Wall) J55

11/1/2023 1:00:21 PM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC		--
Minimum Yield Strength	55,000	--	--	--	psi	--
Maximum Yield Strength	80,000	--	--	--	psi	--
Minimum Tensile Strength	75,000	--	--	--	psi	--
DIMENSIONS	Pipe	BTC	LTC	STC		--
Outside Diameter	13.375	14.375	0.000	14.375	in.	--
Wall Thickness	0.380	--	--	--	in.	--
Inside Diameter	12.615	12.615	--	12.615	in.	--
Standard Drift	12.459	12.459	12.459	12.459	in.	--
Alternate Drift	--	12.500	--	--	in.	--
Nominal Linear Weight, T&C	54.50	--	--	--	lb/ft	--
Plain End Weight	52.79	--	--	--	lb/ft	--
PERFORMANCE	Pipe	BTC	LTC	STC		--
Minimum Collapse Pressure	1,130	1,130	1,130	1,130	psi	--
Minimum Internal Yield Pressure	2,740	2,740	2,740	2,740	psi	--
Minimum Pipe Body Yield Strength	853	--	--	--	1,000 lbs	--
Joint Strength	--	909	--	514	1,000 lbs	--
Reference Length	--	11,119	--	6,290	ft	--
MAKE-UP DATA	Pipe	BTC	LTC	STC		--
Make-Up Loss	--	4.81	--	3.50	in.	--
Minimum Make-Up Torque	--	--	--	3,860	ft-lb	--
Maximum Make-Up Torque	--	--	--	6,430	ft-lb	--

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Notes

Legal Notice

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 U. S. Steel Tubular Products
13.375" 54.50lb/ft (0.380" Wall) J55

11/1/2023 1:00:21 PM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC		--
Minimum Yield Strength	55,000	--	--	--	psi	--
Maximum Yield Strength	80,000	--	--	--	psi	--
Minimum Tensile Strength	75,000	--	--	--	psi	--
DIMENSIONS	Pipe	BTC	LTC	STC		--
Outside Diameter	13.375	14.375	0.000	14.375	in.	--
Wall Thickness	0.380	--	--	--	in.	--
Inside Diameter	12.615	12.615	--	12.615	in.	--
Standard Drift	12.459	12.459	12.459	12.459	in.	--
Alternate Drift	--	12.500	--	--	in.	--
Nominal Linear Weight, T&C	54.50	--	--	--	lb/ft	--
Plain End Weight	52.79	--	--	--	lb/ft	--
PERFORMANCE	Pipe	BTC	LTC	STC		--
Minimum Collapse Pressure	1,130	1,130	1,130	1,130	psi	--
Minimum Internal Yield Pressure	2,740	2,740	2,740	2,740	psi	--
Minimum Pipe Body Yield Strength	853	--	--	--	1,000 lbs	--
Joint Strength	--	909	--	514	1,000 lbs	--
Reference Length	--	11,119	--	6,290	ft	--
MAKE-UP DATA	Pipe	BTC	LTC	STC		--
Make-Up Loss	--	4.81	--	3.50	in.	--
Minimum Make-Up Torque	--	--	--	3,860	ft-lb	--
Maximum Make-Up Torque	--	--	--	6,430	ft-lb	--

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1-877-893-9461
connections@uss.com
www.usstubular.com



U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-CDC HTQ[®]

5/3/2024 11:30:57 AM

MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		--
Minimum Yield Strength	125,000	--	psi	--
Maximum Yield Strength	140,000	--	psi	--
Minimum Tensile Strength	130,000	--	psi	--
DIMENSIONS	Pipe	USS-CDC HTQ [®]		--
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	Pipe	USS-CDC HTQ [®]		--
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	97.0	%	--
PERFORMANCE	Pipe	USS-CDC HTQ [®]		--
Minimum Collapse Pressure	13,150	13,150	psi	--
External Pressure Leak Resistance	--	10,520	psi	--
Minimum Internal Yield Pressure	14,360	14,360	psi	--
Minimum Pipe Body Yield Strength	729,000	--	lb	--
Joint Strength	--	707,000	lb	--
Compression Rating	--	424,000	lb	--
Reference Length	--	23,567	ft	--
Maximum Uniaxial Bend Rating	--	60.6	deg/100 ft	--
MAKE-UP DATA	Pipe	USS-CDC HTQ [®]		--
Make-Up Loss	--	4.63	in.	--
Minimum Make-Up Torque	--	14,500	ft-lb	--
Maximum Make-Up Torque	--	20,500	ft-lb	--
Connection Yield Torque	--	25,300	ft-lb	--

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Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
2.

Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4.

Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
5.

Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.



PBEX Operations, LLC

Hydrogen Sulfide Contingency Plan

pbEX

Safety Is Paramount!

PBEX believes **Safety is Paramount** to success! Any employee or contractor has the responsibility to cease work and evaluate safety or environmental risks.

No one should put themselves or others in danger to complete a task.

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1. INTRODUCTION

H2S equipment will be rigged up 2 days prior to reaching any potential H2S containing zone or 1,000 feet before the top of the first H2S zone, whichever comes first. Drilling into any potential H2S zone shall not commence until the On-Site Supervisor has confirmed this plan is active and in place.

It is the intention of PBEX Operations, LLC (PBEX) and the drilling, completion, or work-over contractor to make every effort to provide adequate safeguards against harm to people from the effects of hydrogen sulfide, which may be released into the atmosphere under emergency conditions. The ideas and suggestions of the individuals involved in the well work are highly welcomed and act as a fundamental tool for providing the safest working conditions possible.

The On-Site Supervisor is required to enforce these procedures; they are set up for your safety and the safety of all others.

2. PURPOSE

It is PBEX's intent to provide a safe working environment and the safety of the general public is of utmost concern. All precautions will be taken to maintain a safe working environment and protect the general public.

The On-Site Supervisor will enforce all aspects of the H2S Contingency Plan.

In the event there is an accidental H2S release:

- Notify and protect the general public.

- Notify the state and local government agencies.

- Notify the regulatory agencies the OCD, the BLM, the TxRRC.

This is a mandatory notification.

A. OPERATING PROCEDURES

On-Site personnel shall be referred to as "In Scope Personnel" or "Out of Scope Personnel", per the following definitions:

In Scope Personnel – Personnel who will be working or present in potential H2S release areas, including the rig floor, cellar, pits, core handling areas, and shaker areas who duties would require them to don a respirator and perform a task under air during an H2S release. Completions, work-over, or production will include work areas where H2S could also be released.

Out of Scope Personnel – Personnel who will not be working or present in potential H2S areas. Such personnel include rig site visitors, delivery drivers, trucking, camp services personnel, and other non-essential personnel. Such personnel would only proceed to Muster Area for further instructions.

GENERAL:

All regularly assigned In Scope Personnel shall be thoroughly trained in the use of breathing equipment, emergency procedures, as well as their personal roles and responsibilities. The On-Site Supervisor shall keep a list of all personnel who have been through the on-site H2S training program. This documentation will remain onsite until the project is completed.

All personnel arriving on site must notify the On-Site Supervisor of their presence and sign-in. In Scope Personnel will be required to complete the on-site H2S training as well as respirator fit testing before starting work.



B. PROCEDURES TO BE INITIATED PRIOR TO H2S**H2S CONTINGENCY PLAN COMPLIANCE:**

All H2S safety equipment must be in place, inspected, tested, and calibrated. Inspections must be documented for auditing purposes.

H2S Safety Company Representative will be responsible for rigging up and maintaining all continuous H2S fixed point detectors and bump testing of the monitoring equipment.

C. DRILLING BELOW CONTINGENCY PLAN DEPTH

The H2S Safety Company Representative will conduct regular safety talks, maintain site safety equipment, and support safety efforts. H2S training records will be kept on location for all personnel and for auditing purposes.

All on site personnel will be made aware of the location of spare air bottles, briefing areas, visual alarms, windsocks, resuscitation equipment, portable fire extinguishers, H2S monitors, sensors, etc.

Upon the initial detection of H2S, all areas of poor ventilation shall be inspected by utilizing a portable H2S detector and the buddy system, the buddy system will be utilized during all alarm situations. When an alarm sounds, In Scope Personnel will don Self-Contained Breathing Apparatus (SCBA), shut the well in, and proceed to the Muster Area for roll call.

D. PROCEDURES PROGRAM

- a. Muster Areas will have two 30-minute SCBA's. On-Site Personnel will assemble to the up-wind Muster Area under alarm conditions or when instructed to do so by the On-Site Supervisor or the H2S Safety Company Representative. Windsocks will be placed in strategic and highly visible areas.
- b. One multi-channel, fixed point H2S/ LEL monitor with sensors will be located at the shale shaker, bell nipple, mud pits, and rig floor. Should the alarms be shut off to silence the sirens, the visual alarms must remain in service to warn of potential H2S presence. The H2S Safety Company Representative will continuously monitor H2S levels and will reactivate the alarms if H2S concentrations increase to a dangerous level.
- c. At a minimum, one direct means of egress will always be available for onsite personnel.
- d. Explosion-proof electric fans (bug blowers) will be positioned on drilling jobs to ensure adequate circulation at all critical work areas. The on-site supervisor will notify the drilling contractor of any additional gas dispersion needs.
- e. A kill line securely anchored and of ample strength, will be laid to the well-head from a safe location. This line is to be used only in an emergency.

E. GENERAL

- a. The On-Site Supervisor will have complete charge of the rig and will take whatever action is deemed necessary to ensure safety, protect the well, and prevent additional damage.



3. EMERGENCY PHONE NUMBERS

Emergency Contact List			
Person	State	Location	Cell Phone
PBEX Operations, LLC Contacts			
EHS/Regulatory Manager - Mikah Thomas	Tx	Midland	(432) 661-7106
VP of Operations - Bryce Oman	Tx	Midland	(281) 627-6166
Regulatory Agencies			
Bureau of Land Management	NM	Carlsbad	(575) 886-6544
Bureau of Land Management	NM	Hobbs	(575) 393-3612
Bureau of Land Management	NM	Roswell	(575) 622-5335
Bureau of Land Management	NM	Santa Fe	(505) 954-2000
DOT Judicial Pipelines - Incident Reporting NM Public Regulation Commission	NM	Santa Fe	(505) 827-3549
New Mexico Air Quality Bureau	NM	Santa Fe	(505) 827-1494
New Mexico Oil Conservation Division	NM	Artesia	(575) 748-1283
New Mexico Oil Conservation Division	NM	Hobbs	(575) 393-6161
New Mexico Oil Conservation Division	NM	Santa Fe	(505) 476-3770
New Mexico OCD Environmental Bureau	NM	Santa Fe	(505) 827-7152
New Mexico Environmental Department	NM	Hobbs	(575) 827-9329
NM State Emergency Response Center	NM	Santa Fe	(505) 476-9600
EPA Hotline	Tx	Dallas	(214) 665-6444
Federal OSHA, Area Office	Tx	Lubbock	(806) 472-7681
National Response Center		Washington, D.C.	(800) 424-8803
National Infrastructure Coordinator Center		Washington, D.C.	(202) 282-2901
OSHA	Tx	Lubbock	(806) 472-7681
Railroad Commission of Texas	Tx	Austin	(512) 463-6838
Railroad Commission of Texas- District 08	Tx	Midland	(432) 684-5581
Railroad Commission of Texas- District 8A	Tx	Lubbock	(806) 698-6509
Texas Commission of Environmental Quality	Tx	Austin	(512) 239-1000
Texas Commission of Environmental Quality- Region 2	Tx	Lubbock	(806) 796-7092
Texas Commission of Environmental Quality- Region 7	Tx	Midland	(432) 570-1359
Medical Facilities			
Artesia General Hospital	NM	Artesia	(575) 748-3333
Guadalupe County Hospital	NM	Carlsbad	(575) 887-6633
Lea Regional Hospital	NM	Hobbs	(575) 492-5000
Nor-Lea General Hospital	NM	Lovington	(575) 396-6611
Covenant Medical Center	Tx	Lubbock	(806) 725-1011
Covenant Medical Center Lakeside	Tx	Lubbock	(806) 725-6000
Medical Center Hospital	Tx	Odessa	(432) 640-4000
Midland Memorial Hospital	Tx	Midland	(432) 685-1111
Odessa Regional Hospital	Tx	Odessa	(432) 334-8200
University Medical Center	Tx	Lubbock	(806) 725-8200
Law Enforcement - Sheriff			
Eddy County Sheriff's Department	NM	Artesia	(575) 746-2704
Eddy County Sheriff's Department	NM	Carlsbad	(575) 887-7551
Lea County Sheriff's Department	NM	Eunice	(575) 384-2020
Lea County Sheriff's Department	NM	Hobbs	(575) 393-2515
Lea County Sheriff's Department	NM	Lovington	(575) 396-3611
Ector County Sheriff's Department	Tx	Odessa	(432) 335-3050
Lubbock County Sheriff's Department	Tx	Lubbock	(806) 775-7009
Midland County Sheriff's Department	Tx	Midland	(432) 688-1277



Person	State	Location	Cell Phone
Law Enforcement - Police			
Artesia City Police	NM	Artesia	(575) 746-2704
Carlsbad City Police	NM	Carlsbad	(575) 885-2111
Eunice City Police	NM	Eunice	(575) 394-2112
Hobbs City Police	NM	Hobbs	(575) 397-9265
Jal City Police	NM	Jal	(575) 395-2501
Lovington City Police	NM	Lovington	(575) 396-2811
Lubbock City Police	Tx	Lubbock	(806) 775-2865
Midland City Police	Tx	Midland	(432) 685-7113
Odessa City Police	Tx	Odessa	(432) 335-3378
Law Enforcement - FBI			
FBI	NM	Albuquerque	(505) 224-2000
FBI	Tx	Midland	(432) 570-0255
Law Enforcement - DPS (911)			
NM State Police	NM	Artesia	(575) 746-2704
NM State Police	NM	Carlsbad	(575) 885-3137
NM State Police	NM	Eunice	(575) 392-5588
NM State Police	NM	Hobbs	(575) 392-5588
Firefighting and Rescue (911)			
Artesia	NM	Artesia	(575) 746-5751
Carlsbad	NM	Carlsbad	(575) 885-3125
Eunice	NM	Eunice	(575) 394-2111
Hobbs	NM	Hobbs	(575) 397-9308
Jal	NM	Jal	(575) 395-2221
Maljamar	NM	Maljamar	(575) 676-4100
Lovington	Tx	Lovington	(575) 396-2359
Midland	Tx	Midland	(432) 685-7346
Odessa	Tx	Odessa	(432) 335-4659
West Odessa	Tx	Odessa	(432) 381-3033
Ambulance (911)			
Artesia Ambulance	NM	Artesia	(575) 746-2701
Carlsbad Ambulance	NM	Carlsbad	(575) 885-2111
Eunice Ambulance	NM	Eunice	(575) 394-3258
Hobbs Ambulance	NM	Hobbs	(575) 397-9308
Jal Ambulance	NM	Jal	(575) 395-3501
Lovington Ambulance	NM	Lovington	(575) 396-2811
Midland Ambulance	Tx	Midland	(432) 685-7499
Odessa Ambulance	Tx	Odessa	(432) 335-3378
Medical Air Ambulance Service			
AEROCARE	Tx	Lubbock	(800) 627-2376
Odessa Care Star	Tx	Odessa	(888) 624-3571
Flight for Life	Tx	Lubbock	(806) 743-9911
Med Flight Air Amb	NM	Albuquerque	(505) 842-4433
SB Air Med Service	NM	Albuquerque	(505) 842-4949
Southwest MediVac	NM	Hobbs	(800) 242-6199

Emergency Call Guidance

- Give the Dispatcher the nature of the emergency, your callback number, and location.
- If there is a fire, keep in mind not all volunteer firefighters are trained to properly respond to gas and other releases.
- If caller cannot contact Dispatch using the phone numbers above, dial 911. Cell phone and satellite phone calls to 911 will go to the nearest tower.

Always send a person to flag and direct incoming emergency response vehicles to the scene.



4. CONDITIONS AND EMERGENCY PROCEDURES

The “H2S Emergency Duties” will be followed as initial means of emergency response in the event of an H2S release. Once the well is secured and all personnel have been accounted for, other operational conditions will apply.

H2S EMERGENCY DUTIES		
ALARMS-->	WELL CONTROL 1 LONG BLAST	H2S EMERGENCY LIGHTS & SIRENS
POSITION	RESPONSIBILITY	AREA
OPERATOR REPRESENTATIVE	Proceed to Muster Area for Headcount. Assist with Personnel Accountability	MUSTER AREA
RIG MANAGER	Proceed to Muster Area. Assess the Current Situation and Notify on-site supervisor and HSE Manager. If Personnel are Missing, Don SCBA and Start Search and Rescue.	MUSTER AREA
DRILLER	<u>While Drilling</u> - Don SCBA, Secure Well, Proceed Down, and Ensure Well is Secure at Accumulator and Proceed to Muster Area. <u>While Tripping</u> - Don SCBA and Assist Floorhand in Installing Full Opening Safety Valve (FOSV). Proceed to Accumulator and Ensure the Well is Secure. Proceed to Muster Area. (Off duty Driller: If Personnel are Missing, Don SCBA and Start Search and Rescue.)	RIG/MUSTER AREA
DERRICKHAND	<u>While Drilling</u> - Evacuate to Muster Area. Do not Close Valves or Turn off Equipment. <u>While Tripping</u> - Remain on the Derrick Board Unless Otherwise Notified.	RIG/MUSTER AREA
MOTORHAND	Evacuate Immediately and Proceed to Muster Area. If Needed, Inspect Personnel.	MUSTER AREA/TRAILERS
MAKE-UP FLOORHAND	<u>While Drilling</u> - Evacuate Area and Proceed to Muster Area. <u>While Tripping</u> - Employee is to Don SCBA and Assist Driller in Installing FOSV. Proceed to Muster Area.	RIG FLOOR/MUSTER AREA
LEAD TONG FLOORHAND	Evacuate Area and Proceed to Muster Area. If the Make up Hand is Not Present, Don SCBA and Assist Driller in Installing the FOSV.	RIG FLOOR/MUSTER AREA
ADDITIONAL HANDS	Evacuate Area. Proceed to Muster Area.	RIG FLOOR/MUSTER AREA
H2S TECHNICIAN	Don SCBA/On-Site Evaluation	RIG/MUSTER AREA

A. Definition of Operational “Conditions”

CONDITION I	
Warning Flags:	Green
Alarms:	No Alarm. Less than 10 ppm
Characterized By:	Drilling operations in formations that may contain hydrogen sulfide. This condition remains in effect unless H ₂ S is detected and it becomes necessary to go to Condition II.
General Action:	a. Be alert for a condition change.
	b. Check all safety equipment for availability and proper functioning.
	c. Perform all drills for familiarization and proficiency.
CONDITION II	
Warning Flags:	Yellow
Alarms:	Activated at 10 ppm H ₂ S. Continuous flashing light.
Characterized By:	Drilling operations in formations containing hydrogen sulfide. This condition will remain in effect until adding chemicals to the mud system neutralizes the hydrogen sulfide or it becomes necessary to go to Condition III.
General Action:	a. Be alert for a condition change.
	b. <u>WHEN DRILLING AHEAD</u> - Driller and designated crewmember will don 5 min SCBA, shut-in well and immediately proceed to the muster area.
	<u>WHEN TRIPPING</u> – Driller and two designated crewmembers will don 30 min SCBA, shut in well and immediately proceed to the muster area. Derrickman will stay on the board until well is secure and instructed to come down.
	c. All In-Scope Personnel will proceed directly to the appropriate muster area.
	d. Remain in muster area, take roll call and wait for instructions
	e. Contact the H ₂ S Safety Company Representative if not on location.
	f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H ₂ S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases.
	g. All Out of Scope Personnel will report to the appropriate muster area.
CONDITION III	
Warning Flags:	Red
Alarms:	Actuate at 15 ppm. Continuous Sirens and Flashing Lights
Characterized by:	Critical well operations which pose an immediate threat of H ₂ S exposure to on-site personnel and potential threat to the public.
General Action:	a. <u>WHEN DRILLING AHEAD</u> - Driller and designated crewmember will don 30 min SCBA, shut-in well and immediately proceed to the muster area.
	<u>WHEN TRIPPING</u> - Driller and two designated crewmembers will don 30 min SCBA, shut in well and immediately proceed to the muster area. Derrickman will stay on the board until well is secure and instructed to come down.
	b. All In-Scope Personnel should don SCBA if nearby and immediately proceed to muster area. If SCBA is not nearby at time of alarm, DO NOT GO TOWARDS RIG AREA, but proceed directly to the muster area.
	c. All Out of Scope Personnel shall go to the muster area and then evacuate the location as applicable.
	d. Remain in the muster area, take roll call, and wait for instructions.
	e. Contact H ₂ S Safety Company Representative
	f. On-site personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H ₂ S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases. Use the buddy system.
	g. A cascade breathing air systems shall be utilized to conduct any additional on rig work required to correct the H ₂ S release condition.
	h. If well is ignited do not assume area is safe. SO ₂ is hazardous and not all H ₂ S will burn.

B. H2S Emergency Procedures- On-Site Personnel

Upon discovering the release of H2S gas in the ambient air by warning alarms or in any other way.

Do Not Panic!

Hold your breath donning the nearest SCBA, move up or across-wind from the H2S sensing devices. Go to the closest available muster area. Do Not Panic!

1. Responsibilities of Well-Site Personnel

In the event of a Condition II or Condition III H2S release, all In-Scope Personnel will immediately don their SCBA, shut in the well, and proceed upwind to the nearest Muster Area.

All Out of Scope Personnel will immediately proceed upwind to the nearest Muster Area. Consideration will be given to evacuating Out of Scope Personnel.

a. Well-Site Representatives

1. Level III Conditions will deem public and police notification as applicable.
2. Immediately upon assessing the situation, set this plan into action by initiating the proper procedures to contain the gas and notify the appropriate people and agencies.
3. Ensure that Out of Scope Personnel proceed to the Muster Area.
4. Ensure location entrance has barricades (hi-visibility cones) and entrance is closed. Keep the number of persons on location to a minimum during hazardous operations.
5. Advise anyone allowed to enter the site H2S gas may be encountered and the potential hazards that may exist.
6. Out of Scope Personnel should be evacuated from location if the situation warrants.

b. On-Site Supervisor

1. On-Site Supervisor will assume responsibilities of well-site.
2. Ensure that the alarm area indicated by the fixed H2S monitor is checked and verified with a portable H2S gas detector.
3. Ensure On-Site Personnel in the Muster Area are instructed on emergency actions required.
4. Ensure On-Site Personnel at the drill floor area are instructed on emergency actions required.
5. Ensure all On-Site Personnel observe the appropriate safety and emergency procedures.
6. Ensure all On-Site Personnel are accounted for and provided emergency assistance as necessary.

c. H2S Safety Company Representative

1. Don nearest SCBA and report to Muster Area for roll call, take a buddy masked up and check monitor.
2. If H2S is flared, check for sulfur dioxide (SO2) near the flare as necessary. Take hourly readings at different perimeters, log readings and record all findings.
3. Ensure personnel at Muster Area are instructed on emergency actions required.
4. Ensure explosion-proof electric fans (bug blowers) are positioned as necessary to disperse H2S away from workers.
5. Ensure appropriate warning flags are displayed.
6. Ensure that all On-Site Personnel are in SCBA as necessary.
7. Ensure that all On-Site Personnel are accounted for and provide emergency assistance as necessary.
8. Be prepared to evacuate.



5. SAFETY EQUIPMENT

- a. All respirators will be used and maintained in conformance with ANSI Z88.2, American National Standard for respiratory protection.
- b. PPE must be provided and used.
- c. In the event of an alarm the derrick hand will stay in the derrick until the well is secured, then proceed to the muster area.
- d. If asphyxiation occurs, the victim must be moved to fresh air and immediately given artificial respiration. To assure readiness, bottles of oxygen will be checked at regular intervals and an extra tank kept on hand.
- e. All equipment must be stored in an available location so that anyone engaged in normal work situations is no more than "one breath away" from a mask.

6. TOXICITY OF VARIOUS GASES

Common Name ppm ₁	Lethal Formula	Gravity ₁	PEL (OSHA) ₂	STEL ₃	LD
Hydrogen Cyanide	HCN	0.94	10	150	300
Hydrogen Sulfide	H ₂ S	1.18	20	Peak- 50ppm	600
Sulfur Dioxide	SO ₂	2.21	2	5 ppm	1000
Chlorine	CL ₂	2.45	1		
Carbon Monoxide	CO	0.97	35	200/1 Hour	1000
Carbon Dioxide	CO ₂	1.52	5000	5%	10%
Methane	CH ₄	0.55	90000		

1 Air = 1.0

2 Permissible - Concentration believed that all workers may repeatedly be exposed, day after day, without adverse effect.

3 STEL - Short Term Exposure Limit. A 15-minute time weighted average.

4 LD (Lethal Dose) - Concentration that will cause death with short-term exposure.

7. PROPERTIES OF GASES

1. CARBON DIOXIDE

- a. Carbon Dioxide (CO₂) is considered inert and is commonly used to extinguish fires. It is 1.52 times heavier than air and will concentrate in low areas of still air. Humans cannot breathe air containing more than 10% CO₂ without losing conscience or becoming disorientated in a few minutes. Continued exposure to CO₂ after being affected will cause convulsions, coma, and respiratory failure.
- b. The threshold limit of CO₂ is 5000 ppm. Short-term exposure to 50,000 ppm (5%) is reasonable. This gas is colorless, odorless, and can be tolerated in relatively high concentrations.

2. HYDROGEN SULFIDE

- a. Hydrogen Sulfide (H₂S) is a colorless, transparent, flammable gas. It is heavier than air and may accumulate in low places.
- b. Although the slightest presence of H₂S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of H₂S.



H2S CONCENTRATION		
% H2S	PPM	EFFECTS
0.001	10	Safe for 8 hours without respirator. Obvious and unpleasant odor.
0.0015	15	Safe for 15 minutes of exposure without respirator.
0.01	100	Kills smell in 3-15 minutes; may sting eyes and throat.
0.02	200	Kills smell quickly; stings eyes and throat.
0.05	500	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.
0.07	700	Rapid Unconsciousness; death will result if not rescued promptly.
0.1	1000	Instant unconsciousness, followed by death within minutes.

3. SULPHUR DIOXIDE

- a. Sulfur Dioxide (SO₂) is a colorless, non-flammable, transparent gas.
- b. SO₂ is produced during the burning of H₂S. Although SO₂ is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO₂ 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 SO₂:

SO2 CONCENTRATION		
% SO2	PPM	EFFECTS
0.0005	3 to 5	Pungent odor, normally a person can detect SO ₂ in this range.
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of eyes.
0.015	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, event with the first breath.

8. EVACUATION OF THE GENERAL PUBLIC

In the event of an emergency, the following steps will be immediately taken:

1. Warn each resident and transient's down-wind within 3,000' or calculated ROE.
2. Warn all residences in the 3,000' or calculated ROE.
3. Notify proper authorities and enlist their assistance in warning residents and transients.
4. Divert traffic in the vicinity away from the potentially dangerous area.
5. Have a guard at the entrance of the well site to monitor essential and non-essential traffic.



PBEX

Lea, County NM (NAD 83)

Sec 33-18S-32E

BOND 33-34 FED COM #304H

Wellbore #1

Plan: Plan 1

Standard Planning Report

04 February, 2025





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Project	Lea, County NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 33-18S-32E				
Site Position:		Northing:	620,912.64 usft	Latitude:	32.70570655
From:	Map	Easting:	711,762.40 usft	Longitude:	-103.77927233
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	BOND 33-34 FED COM #304H					
Well Position	+N/-S	0.00 usft	Northing:	618,700.24 usft	Latitude:	32.69964442
	+E/-W	0.00 usft	Easting:	710,447.69 usft	Longitude:	-103.78358364
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,682.50 usft
Grid Convergence:		0.30 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM CURRENT	1/30/2025	6.58	60.40	47,434.10000000

Design	Plan 1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.00	

Plan Survey Tool Program	Date	2/4/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,060.83	Plan 1 (Wellbore #1)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	



Planning Report



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Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,076.45	11.53	32.51	2,072.57	48.74	31.06	2.00	2.00	0.00	32.51	
7,615.11	11.53	32.51	7,499.48	982.28	625.98	0.00	0.00	0.00	0.00	
8,191.56	0.00	0.00	8,072.05	1,031.02	657.04	2.00	-2.00	0.00	180.00	
9,696.55	0.00	0.00	9,577.04	1,031.02	657.04	0.00	0.00	0.00	0.00	
10,596.55	90.00	79.45	10,150.00	1,135.92	1,220.31	10.00	10.00	0.00	79.45	
11,115.51	90.00	89.83	10,150.00	1,184.34	1,736.29	2.00	0.00	2.00	90.00	
21,060.96	90.00	89.83	10,150.00	1,214.00	11,681.70	0.00	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,600.00	2.00	32.51	1,599.98	1.47	0.94	0.94	2.00	2.00	0.00
1,700.00	4.00	32.51	1,699.84	5.89	3.75	3.75	2.00	2.00	0.00
1,800.00	6.00	32.51	1,799.45	13.23	8.43	8.43	2.00	2.00	0.00
1,900.00	8.00	32.51	1,898.70	23.51	14.98	14.98	2.00	2.00	0.00
2,000.00	10.00	32.51	1,997.47	36.70	23.39	23.39	2.00	2.00	0.00
2,076.45	11.53	32.51	2,072.57	48.74	31.06	31.06	2.00	2.00	0.00
Start 5538.66 hold at 2076.45 MD									
2,100.00	11.53	32.51	2,095.64	52.71	33.59	33.59	0.00	0.00	0.00
2,200.00	11.53	32.51	2,193.63	69.57	44.33	44.33	0.00	0.00	0.00
2,300.00	11.53	32.51	2,291.61	86.42	55.08	55.08	0.00	0.00	0.00
2,400.00	11.53	32.51	2,389.59	103.28	65.82	65.82	0.00	0.00	0.00
2,500.00	11.53	32.51	2,487.57	120.13	76.56	76.56	0.00	0.00	0.00
2,600.00	11.53	32.51	2,585.55	136.99	87.30	87.30	0.00	0.00	0.00
2,700.00	11.53	32.51	2,683.54	153.84	98.04	98.04	0.00	0.00	0.00
2,800.00	11.53	32.51	2,781.52	170.70	108.78	108.78	0.00	0.00	0.00
2,900.00	11.53	32.51	2,879.50	187.55	119.52	119.52	0.00	0.00	0.00
3,000.00	11.53	32.51	2,977.48	204.41	130.26	130.26	0.00	0.00	0.00
3,100.00	11.53	32.51	3,075.47	221.26	141.00	141.00	0.00	0.00	0.00
3,200.00	11.53	32.51	3,173.45	238.12	151.74	151.74	0.00	0.00	0.00
3,300.00	11.53	32.51	3,271.43	254.97	162.49	162.49	0.00	0.00	0.00
3,400.00	11.53	32.51	3,369.41	271.83	173.23	173.23	0.00	0.00	0.00
3,500.00	11.53	32.51	3,467.40	288.68	183.97	183.97	0.00	0.00	0.00
3,600.00	11.53	32.51	3,565.38	305.54	194.71	194.71	0.00	0.00	0.00
3,700.00	11.53	32.51	3,663.36	322.39	205.45	205.45	0.00	0.00	0.00
3,800.00	11.53	32.51	3,761.34	339.25	216.19	216.19	0.00	0.00	0.00
3,900.00	11.53	32.51	3,859.33	356.10	226.93	226.93	0.00	0.00	0.00
4,000.00	11.53	32.51	3,957.31	372.96	237.67	237.67	0.00	0.00	0.00
4,100.00	11.53	32.51	4,055.29	389.81	248.41	248.41	0.00	0.00	0.00
4,200.00	11.53	32.51	4,153.27	406.66	259.16	259.16	0.00	0.00	0.00
4,300.00	11.53	32.51	4,251.25	423.52	269.90	269.90	0.00	0.00	0.00
4,400.00	11.53	32.51	4,349.24	440.37	280.64	280.64	0.00	0.00	0.00
4,500.00	11.53	32.51	4,447.22	457.23	291.38	291.38	0.00	0.00	0.00
4,600.00	11.53	32.51	4,545.20	474.08	302.12	302.12	0.00	0.00	0.00
4,700.00	11.53	32.51	4,643.18	490.94	312.86	312.86	0.00	0.00	0.00
4,800.00	11.53	32.51	4,741.17	507.79	323.60	323.60	0.00	0.00	0.00
4,900.00	11.53	32.51	4,839.15	524.65	334.34	334.34	0.00	0.00	0.00
5,000.00	11.53	32.51	4,937.13	541.50	345.08	345.08	0.00	0.00	0.00



Planning Report



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Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.00	11.53	32.51	5,035.11	558.36	355.83	355.83	0.00	0.00	0.00	
5,200.00	11.53	32.51	5,133.10	575.21	366.57	366.57	0.00	0.00	0.00	
5,300.00	11.53	32.51	5,231.08	592.07	377.31	377.31	0.00	0.00	0.00	
5,400.00	11.53	32.51	5,329.06	608.92	388.05	388.05	0.00	0.00	0.00	
5,500.00	11.53	32.51	5,427.04	625.78	398.79	398.79	0.00	0.00	0.00	
5,600.00	11.53	32.51	5,525.03	642.63	409.53	409.53	0.00	0.00	0.00	
5,700.00	11.53	32.51	5,623.01	659.49	420.27	420.27	0.00	0.00	0.00	
5,800.00	11.53	32.51	5,720.99	676.34	431.01	431.01	0.00	0.00	0.00	
5,900.00	11.53	32.51	5,818.97	693.20	441.75	441.75	0.00	0.00	0.00	
6,000.00	11.53	32.51	5,916.96	710.05	452.50	452.50	0.00	0.00	0.00	
6,100.00	11.53	32.51	6,014.94	726.91	463.24	463.24	0.00	0.00	0.00	
6,200.00	11.53	32.51	6,112.92	743.76	473.98	473.98	0.00	0.00	0.00	
6,300.00	11.53	32.51	6,210.90	760.62	484.72	484.72	0.00	0.00	0.00	
6,400.00	11.53	32.51	6,308.88	777.47	495.46	495.46	0.00	0.00	0.00	
6,500.00	11.53	32.51	6,406.87	794.33	506.20	506.20	0.00	0.00	0.00	
6,600.00	11.53	32.51	6,504.85	811.18	516.94	516.94	0.00	0.00	0.00	
6,700.00	11.53	32.51	6,602.83	828.03	527.68	527.68	0.00	0.00	0.00	
6,800.00	11.53	32.51	6,700.81	844.89	538.42	538.42	0.00	0.00	0.00	
6,900.00	11.53	32.51	6,798.80	861.74	549.17	549.17	0.00	0.00	0.00	
7,000.00	11.53	32.51	6,896.78	878.60	559.91	559.91	0.00	0.00	0.00	
7,100.00	11.53	32.51	6,994.76	895.45	570.65	570.65	0.00	0.00	0.00	
7,200.00	11.53	32.51	7,092.74	912.31	581.39	581.39	0.00	0.00	0.00	
7,300.00	11.53	32.51	7,190.73	929.16	592.13	592.13	0.00	0.00	0.00	
7,400.00	11.53	32.51	7,288.71	946.02	602.87	602.87	0.00	0.00	0.00	
7,500.00	11.53	32.51	7,386.69	962.87	613.61	613.61	0.00	0.00	0.00	
7,600.00	11.53	32.51	7,484.67	979.73	624.35	624.35	0.00	0.00	0.00	
7,615.11	11.53	32.51	7,499.48	982.28	625.98	625.98	0.00	0.00	0.00	
Start Drop -2.00										
7,700.00	9.83	32.51	7,582.89	995.54	634.43	634.43	2.00	-2.00	0.00	
7,800.00	7.83	32.51	7,681.70	1,008.49	642.68	642.68	2.00	-2.00	0.00	
7,900.00	5.83	32.51	7,780.99	1,018.52	649.07	649.07	2.00	-2.00	0.00	
8,000.00	3.83	32.51	7,880.63	1,025.62	653.60	653.60	2.00	-2.00	0.00	
8,100.00	1.83	32.51	7,980.50	1,029.79	656.25	656.25	2.00	-2.00	0.00	
8,191.56	0.00	0.00	8,072.05	1,031.02	657.04	657.04	2.00	-2.00	0.00	
Start 1504.99 hold at 8191.56 MD										
8,200.00	0.00	0.00	8,080.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,180.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,280.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,380.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,480.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,580.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,680.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,780.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,880.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,980.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,080.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,180.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,280.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,380.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,480.49	1,031.02	657.04	657.04	0.00	0.00	0.00	
9,696.55	0.00	0.00	9,577.04	1,031.02	657.04	657.04	0.00	0.00	0.00	
Start Build 10.00										
9,700.00	0.34	79.45	9,580.49	1,031.02	657.05	657.05	10.00	10.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,750.00	5.34	79.45	9,630.41	1,031.48	659.49	659.49	10.00	10.00	0.00	
9,800.00	10.34	79.45	9,679.92	1,032.73	666.20	666.20	10.00	10.00	0.00	
9,850.00	15.34	79.45	9,728.66	1,034.76	677.12	677.12	10.00	10.00	0.00	
9,900.00	20.34	79.45	9,776.24	1,037.56	692.18	692.18	10.00	10.00	0.00	
9,950.00	25.34	79.45	9,822.30	1,041.12	711.26	711.26	10.00	10.00	0.00	
10,000.00	30.34	79.45	9,866.50	1,045.39	734.21	734.21	10.00	10.00	0.00	
10,050.00	35.34	79.45	9,908.49	1,050.36	760.86	760.86	10.00	10.00	0.00	
10,100.00	40.34	79.45	9,947.96	1,055.97	791.01	791.01	10.00	10.00	0.00	
10,150.00	45.34	79.45	9,984.61	1,062.19	824.42	824.42	10.00	10.00	0.00	
10,200.00	50.34	79.45	10,018.16	1,068.98	860.85	860.85	10.00	10.00	0.00	
10,250.00	55.34	79.45	10,048.35	1,076.27	900.01	900.01	10.00	10.00	0.00	
10,300.00	60.34	79.45	10,074.95	1,084.02	941.61	941.61	10.00	10.00	0.00	
10,350.00	65.34	79.45	10,097.76	1,092.16	985.34	985.34	10.00	10.00	0.00	
10,400.00	70.34	79.45	10,116.61	1,100.64	1,030.85	1,030.85	10.00	10.00	0.00	
10,450.00	75.34	79.45	10,131.36	1,109.38	1,077.80	1,077.80	10.00	10.00	0.00	
10,500.00	80.34	79.45	10,141.88	1,118.33	1,125.84	1,125.84	10.00	10.00	0.00	
10,550.00	85.34	79.45	10,148.11	1,127.41	1,174.60	1,174.60	10.00	10.00	0.00	
10,596.55	90.00	79.45	10,150.00	1,135.92	1,220.31	1,220.31	10.00	10.00	0.00	
Start DLS 2.00 TFO 90.00										
10,600.00	90.00	79.52	10,150.00	1,136.55	1,223.70	1,223.70	2.00	0.00	2.00	
10,700.00	90.00	81.52	10,150.00	1,153.03	1,322.33	1,322.33	2.00	0.00	2.00	
10,800.00	90.00	83.52	10,150.00	1,166.04	1,421.47	1,421.47	2.00	0.00	2.00	
10,900.00	90.00	85.52	10,150.00	1,175.60	1,521.01	1,521.01	2.00	0.00	2.00	
11,000.00	90.00	87.52	10,150.00	1,181.67	1,620.82	1,620.82	2.00	0.00	2.00	
11,100.00	90.00	89.52	10,150.00	1,184.25	1,720.78	1,720.78	2.00	0.00	2.00	
11,115.51	90.00	89.83	10,150.00	1,184.34	1,736.29	1,736.29	2.00	0.00	2.00	
Start 9945.45 hold at 11115.51 MD										
11,200.00	90.00	89.83	10,150.00	1,184.59	1,820.78	1,820.78	0.00	0.00	0.00	
11,300.00	90.00	89.83	10,150.00	1,184.89	1,920.78	1,920.78	0.00	0.00	0.00	
11,400.00	90.00	89.83	10,150.00	1,185.19	2,020.78	2,020.78	0.00	0.00	0.00	
11,500.00	90.00	89.83	10,150.00	1,185.49	2,120.78	2,120.78	0.00	0.00	0.00	
11,600.00	90.00	89.83	10,150.00	1,185.78	2,220.78	2,220.78	0.00	0.00	0.00	
11,700.00	90.00	89.83	10,150.00	1,186.08	2,320.78	2,320.78	0.00	0.00	0.00	
11,800.00	90.00	89.83	10,150.00	1,186.38	2,420.78	2,420.78	0.00	0.00	0.00	
11,900.00	90.00	89.83	10,150.00	1,186.68	2,520.78	2,520.78	0.00	0.00	0.00	
12,000.00	90.00	89.83	10,150.00	1,186.98	2,620.78	2,620.78	0.00	0.00	0.00	
12,100.00	90.00	89.83	10,150.00	1,187.28	2,720.78	2,720.78	0.00	0.00	0.00	
12,200.00	90.00	89.83	10,150.00	1,187.57	2,820.78	2,820.78	0.00	0.00	0.00	
12,300.00	90.00	89.83	10,150.00	1,187.87	2,920.78	2,920.78	0.00	0.00	0.00	
12,400.00	90.00	89.83	10,150.00	1,188.17	3,020.78	3,020.78	0.00	0.00	0.00	
12,500.00	90.00	89.83	10,150.00	1,188.47	3,120.78	3,120.78	0.00	0.00	0.00	
12,600.00	90.00	89.83	10,150.00	1,188.77	3,220.78	3,220.78	0.00	0.00	0.00	
12,700.00	90.00	89.83	10,150.00	1,189.07	3,320.78	3,320.78	0.00	0.00	0.00	
12,800.00	90.00	89.83	10,150.00	1,189.36	3,420.77	3,420.77	0.00	0.00	0.00	
12,900.00	90.00	89.83	10,150.00	1,189.66	3,520.77	3,520.77	0.00	0.00	0.00	
13,000.00	90.00	89.83	10,150.00	1,189.96	3,620.77	3,620.77	0.00	0.00	0.00	
13,100.00	90.00	89.83	10,150.00	1,190.26	3,720.77	3,720.77	0.00	0.00	0.00	
13,200.00	90.00	89.83	10,150.00	1,190.56	3,820.77	3,820.77	0.00	0.00	0.00	
13,300.00	90.00	89.83	10,150.00	1,190.85	3,920.77	3,920.77	0.00	0.00	0.00	
13,400.00	90.00	89.83	10,150.00	1,191.15	4,020.77	4,020.77	0.00	0.00	0.00	
13,500.00	90.00	89.83	10,150.00	1,191.45	4,120.77	4,120.77	0.00	0.00	0.00	
13,600.00	90.00	89.83	10,150.00	1,191.75	4,220.77	4,220.77	0.00	0.00	0.00	
13,700.00	90.00	89.83	10,150.00	1,192.05	4,320.77	4,320.77	0.00	0.00	0.00	
13,800.00	90.00	89.83	10,150.00	1,192.35	4,420.77	4,420.77	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.00	90.00	89.83	10,150.00	1,192.64	4,520.77	4,520.77	0.00	0.00	0.00
14,000.00	90.00	89.83	10,150.00	1,192.94	4,620.77	4,620.77	0.00	0.00	0.00
14,100.00	90.00	89.83	10,150.00	1,193.24	4,720.77	4,720.77	0.00	0.00	0.00
14,200.00	90.00	89.83	10,150.00	1,193.54	4,820.77	4,820.77	0.00	0.00	0.00
14,300.00	90.00	89.83	10,150.00	1,193.84	4,920.77	4,920.77	0.00	0.00	0.00
14,400.00	90.00	89.83	10,150.00	1,194.14	5,020.77	5,020.77	0.00	0.00	0.00
14,500.00	90.00	89.83	10,150.00	1,194.43	5,120.77	5,120.77	0.00	0.00	0.00
14,600.00	90.00	89.83	10,150.00	1,194.73	5,220.77	5,220.77	0.00	0.00	0.00
14,700.00	90.00	89.83	10,150.00	1,195.03	5,320.77	5,320.77	0.00	0.00	0.00
14,800.00	90.00	89.83	10,150.00	1,195.33	5,420.77	5,420.77	0.00	0.00	0.00
14,900.00	90.00	89.83	10,150.00	1,195.63	5,520.77	5,520.77	0.00	0.00	0.00
15,000.00	90.00	89.83	10,150.00	1,195.92	5,620.77	5,620.77	0.00	0.00	0.00
15,100.00	90.00	89.83	10,150.00	1,196.22	5,720.76	5,720.76	0.00	0.00	0.00
15,200.00	90.00	89.83	10,150.00	1,196.52	5,820.76	5,820.76	0.00	0.00	0.00
15,300.00	90.00	89.83	10,150.00	1,196.82	5,920.76	5,920.76	0.00	0.00	0.00
15,400.00	90.00	89.83	10,150.00	1,197.12	6,020.76	6,020.76	0.00	0.00	0.00
15,500.00	90.00	89.83	10,150.00	1,197.42	6,120.76	6,120.76	0.00	0.00	0.00
15,600.00	90.00	89.83	10,150.00	1,197.71	6,220.76	6,220.76	0.00	0.00	0.00
15,700.00	90.00	89.83	10,150.00	1,198.01	6,320.76	6,320.76	0.00	0.00	0.00
15,800.00	90.00	89.83	10,150.00	1,198.31	6,420.76	6,420.76	0.00	0.00	0.00
15,900.00	90.00	89.83	10,150.00	1,198.61	6,520.76	6,520.76	0.00	0.00	0.00
16,000.00	90.00	89.83	10,150.00	1,198.91	6,620.76	6,620.76	0.00	0.00	0.00
16,100.00	90.00	89.83	10,150.00	1,199.21	6,720.76	6,720.76	0.00	0.00	0.00
16,200.00	90.00	89.83	10,150.00	1,199.50	6,820.76	6,820.76	0.00	0.00	0.00
16,300.00	90.00	89.83	10,150.00	1,199.80	6,920.76	6,920.76	0.00	0.00	0.00
16,400.00	90.00	89.83	10,150.00	1,200.10	7,020.76	7,020.76	0.00	0.00	0.00
16,500.00	90.00	89.83	10,150.00	1,200.40	7,120.76	7,120.76	0.00	0.00	0.00
16,600.00	90.00	89.83	10,150.00	1,200.70	7,220.76	7,220.76	0.00	0.00	0.00
16,700.00	90.00	89.83	10,150.00	1,200.99	7,320.76	7,320.76	0.00	0.00	0.00
16,800.00	90.00	89.83	10,150.00	1,201.29	7,420.76	7,420.76	0.00	0.00	0.00
16,900.00	90.00	89.83	10,150.00	1,201.59	7,520.76	7,520.76	0.00	0.00	0.00
17,000.00	90.00	89.83	10,150.00	1,201.89	7,620.76	7,620.76	0.00	0.00	0.00
17,100.00	90.00	89.83	10,150.00	1,202.19	7,720.76	7,720.76	0.00	0.00	0.00
17,200.00	90.00	89.83	10,150.00	1,202.49	7,820.76	7,820.76	0.00	0.00	0.00
17,300.00	90.00	89.83	10,150.00	1,202.78	7,920.75	7,920.75	0.00	0.00	0.00
17,400.00	90.00	89.83	10,150.00	1,203.08	8,020.75	8,020.75	0.00	0.00	0.00
17,500.00	90.00	89.83	10,150.00	1,203.38	8,120.75	8,120.75	0.00	0.00	0.00
17,600.00	90.00	89.83	10,150.00	1,203.68	8,220.75	8,220.75	0.00	0.00	0.00
17,700.00	90.00	89.83	10,150.00	1,203.98	8,320.75	8,320.75	0.00	0.00	0.00
17,800.00	90.00	89.83	10,150.00	1,204.27	8,420.75	8,420.75	0.00	0.00	0.00
17,900.00	90.00	89.83	10,150.00	1,204.57	8,520.75	8,520.75	0.00	0.00	0.00
18,000.00	90.00	89.83	10,150.00	1,204.87	8,620.75	8,620.75	0.00	0.00	0.00
18,100.00	90.00	89.83	10,150.00	1,205.17	8,720.75	8,720.75	0.00	0.00	0.00
18,200.00	90.00	89.83	10,150.00	1,205.47	8,820.75	8,820.75	0.00	0.00	0.00
18,300.00	90.00	89.83	10,150.00	1,205.77	8,920.75	8,920.75	0.00	0.00	0.00
18,400.00	90.00	89.83	10,150.00	1,206.06	9,020.75	9,020.75	0.00	0.00	0.00
18,500.00	90.00	89.83	10,150.00	1,206.36	9,120.75	9,120.75	0.00	0.00	0.00
18,600.00	90.00	89.83	10,150.00	1,206.66	9,220.75	9,220.75	0.00	0.00	0.00
18,700.00	90.00	89.83	10,150.00	1,206.96	9,320.75	9,320.75	0.00	0.00	0.00
18,800.00	90.00	89.83	10,150.00	1,207.26	9,420.75	9,420.75	0.00	0.00	0.00
18,900.00	90.00	89.83	10,150.00	1,207.56	9,520.75	9,520.75	0.00	0.00	0.00
19,000.00	90.00	89.83	10,150.00	1,207.85	9,620.75	9,620.75	0.00	0.00	0.00
19,100.00	90.00	89.83	10,150.00	1,208.15	9,720.75	9,720.75	0.00	0.00	0.00
19,200.00	90.00	89.83	10,150.00	1,208.45	9,820.75	9,820.75	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,300.00	90.00	89.83	10,150.00	1,208.75	9,920.75	9,920.75	0.00	0.00	0.00	
19,400.00	90.00	89.83	10,150.00	1,209.05	10,020.75	10,020.75	0.00	0.00	0.00	
19,500.00	90.00	89.83	10,150.00	1,209.34	10,120.75	10,120.75	0.00	0.00	0.00	
19,600.00	90.00	89.83	10,150.00	1,209.64	10,220.74	10,220.74	0.00	0.00	0.00	
19,700.00	90.00	89.83	10,150.00	1,209.94	10,320.74	10,320.74	0.00	0.00	0.00	
19,800.00	90.00	89.83	10,150.00	1,210.24	10,420.74	10,420.74	0.00	0.00	0.00	
19,900.00	90.00	89.83	10,150.00	1,210.54	10,520.74	10,520.74	0.00	0.00	0.00	
20,000.00	90.00	89.83	10,150.00	1,210.84	10,620.74	10,620.74	0.00	0.00	0.00	
20,100.00	90.00	89.83	10,150.00	1,211.13	10,720.74	10,720.74	0.00	0.00	0.00	
20,200.00	90.00	89.83	10,150.00	1,211.43	10,820.74	10,820.74	0.00	0.00	0.00	
20,300.00	90.00	89.83	10,150.00	1,211.73	10,920.74	10,920.74	0.00	0.00	0.00	
20,400.00	90.00	89.83	10,150.00	1,212.03	11,020.74	11,020.74	0.00	0.00	0.00	
20,500.00	90.00	89.83	10,150.00	1,212.33	11,120.74	11,120.74	0.00	0.00	0.00	
20,600.00	90.00	89.83	10,150.00	1,212.63	11,220.74	11,220.74	0.00	0.00	0.00	
20,700.00	90.00	89.83	10,150.00	1,212.92	11,320.74	11,320.74	0.00	0.00	0.00	
20,800.00	90.00	89.83	10,150.00	1,213.22	11,420.74	11,420.74	0.00	0.00	0.00	
20,900.00	90.00	89.83	10,150.00	1,213.52	11,520.74	11,520.74	0.00	0.00	0.00	
21,000.00	90.00	89.83	10,150.00	1,213.82	11,620.74	11,620.74	0.00	0.00	0.00	
21,060.96	90.00	89.83	10,150.00	1,214.00	11,681.70	11,681.70	0.00	0.00	0.00	
TD at 21060.96										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BOND 33-34 304H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	618,700.24	710,447.69	32.69964442	-103.78358364	
BOND 33-34 304H PP5 - plan misses target center by 0.86usft at 17107.22usft MD (10150.00 TVD, 1202.21 N, 7727.98 E) - Point	0.00	0.00	10,150.00	1,201.35	7,727.98	619,901.59	718,175.67	32.70283378	-103.75844113	
BOND 33-34 304H FTP - plan misses target center by 43.59usft at 10613.74usft MD (10150.00 TVD, 1139.02 N, 1237.22 E) - Point	0.00	0.00	10,150.00	1,182.02	1,230.04	619,882.26	711,677.73	32.70287570	-103.77956508	
BOND 33-34 304H PP3 - plan misses target center by 0.98usft at 13143.39usft MD (10150.00 TVD, 1190.39 N, 3764.17 E) - Point	0.00	0.00	10,150.00	1,189.41	3,764.17	619,889.65	714,211.86	32.70285937	-103.77132695	
BOND 33-34 304H PP2 - plan misses target center by 0.89usft at 11826.95usft MD (10150.00 TVD, 1186.46 N, 2447.73 E) - Point	0.00	0.00	10,150.00	1,185.57	2,447.73	619,885.81	712,895.42	32.70286791	-103.77560652	
BOND 33-34 304H LTP - plan misses target center by 0.02usft at 20970.96usft MD (10150.00 TVD, 1213.73 N, 11591.70 E) - Point	0.00	0.00	10,150.00	1,213.71	11,591.70	619,913.95	722,039.39	32.70280955	-103.74588071	
BOND 33-34 304H PP4 - plan misses target center by 1.14usft at 15787.91usft MD (10150.00 TVD, 1198.27 N, 6408.67 E) - Point	0.00	0.00	10,150.00	1,197.13	6,408.67	619,897.37	716,856.36	32.70284177	-103.76273003	
BOND 33-34 304H BHL - plan hits target center - Point	0.00	0.00	10,150.00	1,214.00	11,681.70	619,914.24	722,129.39	32.70280898	-103.74558813	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,682.50' GL @ 3712.50usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
21,075.51	20" Casing		20	24

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	Start Build 2.00	
2,076.45	2,072.57	48.74	31.06	Start 5538.66 hold at 2076.45 MD	
7,615.11	7,499.48	982.28	625.98	Start Drop -2.00	
8,191.56	8,072.05	1,031.02	657.04	Start 1504.99 hold at 8191.56 MD	
9,696.55	9,577.04	1,031.02	657.04	Start Build 10.00	
10,596.55	10,150.00	1,135.92	1,220.31	Start DLS 2.00 TFO 90.00	
11,115.51	10,150.00	1,184.34	1,736.29	Start 9945.45 hold at 11115.51 MD	
21,060.96	10,150.00	1,214.00	11,681.70	TD at 21060.96	



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-052-006

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×35ft (10.67m)	Quantity	8PCS
Serial Number	7660103~7660110	FSL	FSL3
Temperature Range	-29℃~+121℃	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.04.22

Inspection Items		Inspection results			
Appearance Checking		In accordance with API Spec 16C 3 rd edition			
Size and Lengths		In accordance with API Spec 16C 3 rd edition			
Dimensions and Tolerances		In accordance with API Spec 16C 3 rd edition			
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 6A 21 st edition			
Hydrostatic Testing		In accordance with API Spec 16C 3 rd edition			
product Marking		In accordance with API Spec 16C 3 rd edition			
Inspection conclusion		The inspected items meet standard requirements of API Spec 16C 3 rd edition			
Remarks					
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESING REPORT

LTTY/QR-5.7.1-28

No: 230422006

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3″×10000psi×35ft (10.67m)	Serial Number	7660103
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.04.20
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.8%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		
Graph of pressure testing:			
Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition		
Approver	Jiaolong Chen	Auditor	Huiling Dong
		Inspector	Zhangsheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

No:LT230422014

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×35ft(10.67m)

Serial Number: 7660103~7660110

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in April 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on April 22, 2023. The overall condition is good. This is to certify that the high pressure steel wire drilling hose assembly complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager:

Jiaolong Chen

Date:April 22, 2023

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: PBEX Operations, LLC **OGRID:** 332544 **Date:** 12/15/2024

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
BOND 33-34 FED COM #001H	30-025-	F-32-18S-32E	1726 FNL 2465 FWL	1347	5058	2401
BOND 33-34 FED COM #002H	30-025-	F-32-18S-32E	1726 FNL 2385 FWL	1347	5058	2401
BOND 33-34 FED COM #003H	30-025-	F-32-18S-32E	1625 FNL 1221 FEL	1347	5058	2401
BOND 33-34 FED COM #004H	30-025-	F-32-18S-32E	1071 FSL 1140 FEL	1347	5058	2401
BOND 33-34 FED COM #005H	30-025-	F-32-18S-32E	1031 FSL 1134 FEL	1347	5058	2401
BOND 33-34 FED COM #006H	30-025-	F-32-18S-32E	972 FSL 1125 FEL	1347	5058	2401
BOND 33-34 FED COM #101H	30-025-	F-32-18S-32E	1726 FNL 2445 FWL	1141	3197	2862
BOND 33-34 FED COM #102H	30-025-	F-32-18S-32E	1726 FNL 2365 FWL	1141	3197	2862
BOND 33-34 FED COM #103H	30-025-	F-32-18S-32E	1605 FSL 1218 FEL	1141	3197	2862
BOND 33-34 FED COM #104H	30-025-	F-32-18S-32E	1348 FSL 1180 FEL	1141	3197	2862
BOND 33-34 FED COM #105H	30-025-	F-32-18S-32E	1308 FSL 1175 FEL	1141	3197	2862
BOND 33-34 FED COM #106H	30-025-	F-32-18S-32E	1269 FSL 1169 FEL	1141	3197	2862
BOND 33-34 FED COM #201H	30-025-	F-32-18S-32E	1726 FNL 2425 FWL	1176	1733	2585
BOND 33-34 FED COM #203H	30-025-	F-32-18S-32E	1726 FNL 2345 FWL	1176	1733	2585
BOND 33-34 FED COM #205H	30-025-	F-32-18S-32E	1585 FSL 1215 FEL	1176	1733	2585
BOND 33-34 FED COM #207H	30-025-	F-32-18S-32E	1368 FSL 1183 FEL	1176	1733	2585
BOND 33-34 FED COM #209H	30-025-	F-32-18S-32E	1328 FSL 1177 FEL	1176	1733	2585
BOND 33-34 FED COM #211H	30-025-	F-32-18S-32E	1288 FSL 1172 FEL	1176	1733	2585
BOND 33-34 FED COM #301H	30-025-	F-32-18S-32E	1726 FNL 2405 FWL	1171	1946	3188
BOND 33-34 FED COM #302H	30-025-	F-32-18S-32E	1725 FNL 2325 FWL	1171	1946	3188
BOND 33-34 FED COM #303H	30-025-	F-32-18S-32E	1565 FSL 1212 FEL	1171	1946	3188
BOND 33-34 FED COM #304H	30-025-	F-32-18S-32E	1051 FSL 1137 FEL	1171	1946	3188
BOND 33-34 FED COM #305H	30-025-	F-32-18S-32E	1012 FSL 1131 FEL	1171	1946	3188
BOND 33-34 FED COM #306H	30-025-	F-32-18S-32E	992 FSL 1128 FEL	1171	1946	3188

IV. Central Delivery Point Name: Bond 33-34 Fed Com Battery [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
BOND 33-34 FED COM #001H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #002H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #003H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #004H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #005H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #006H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #101H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #102H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #103H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #104H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #105H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #106H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #201H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #203H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #205H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #207H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #209H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #211H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #301H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #302H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #303H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #304H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #305H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #306H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ 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.

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

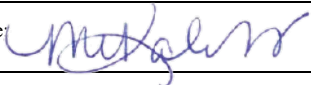
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 
Printed Name: Mikah Thomas
Title: Regulatory & HSE Manager
E-mail Address: mikah@pbex.com
Date: 02/24/2025
Phone: 432.661.7106
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

PBEX Operations, LLC

VI. Separation Equipment:

Separation equipment installed at each PBEX facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

VII./VIII. Operational & Best Management Practices:**1. General Requirements for Venting and Flaring of Natural Gas:**

- In all circumstances, PBEX will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- PBEX installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring. If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

2. During Drilling Operations:

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

3. During Completions:

- PBEX typically does not complete traditional flowback, instead PBEX will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If PBEX completes traditional flowback, PBEX conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator. Venting does not occur once there is enough gas to operate a separator
- Normally, during completion, a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.

4. During Production:

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable.
- In all circumstances, PBEX will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.

NATURAL GAS MANAGEMEN PLAN

PBEX Operations, LLC

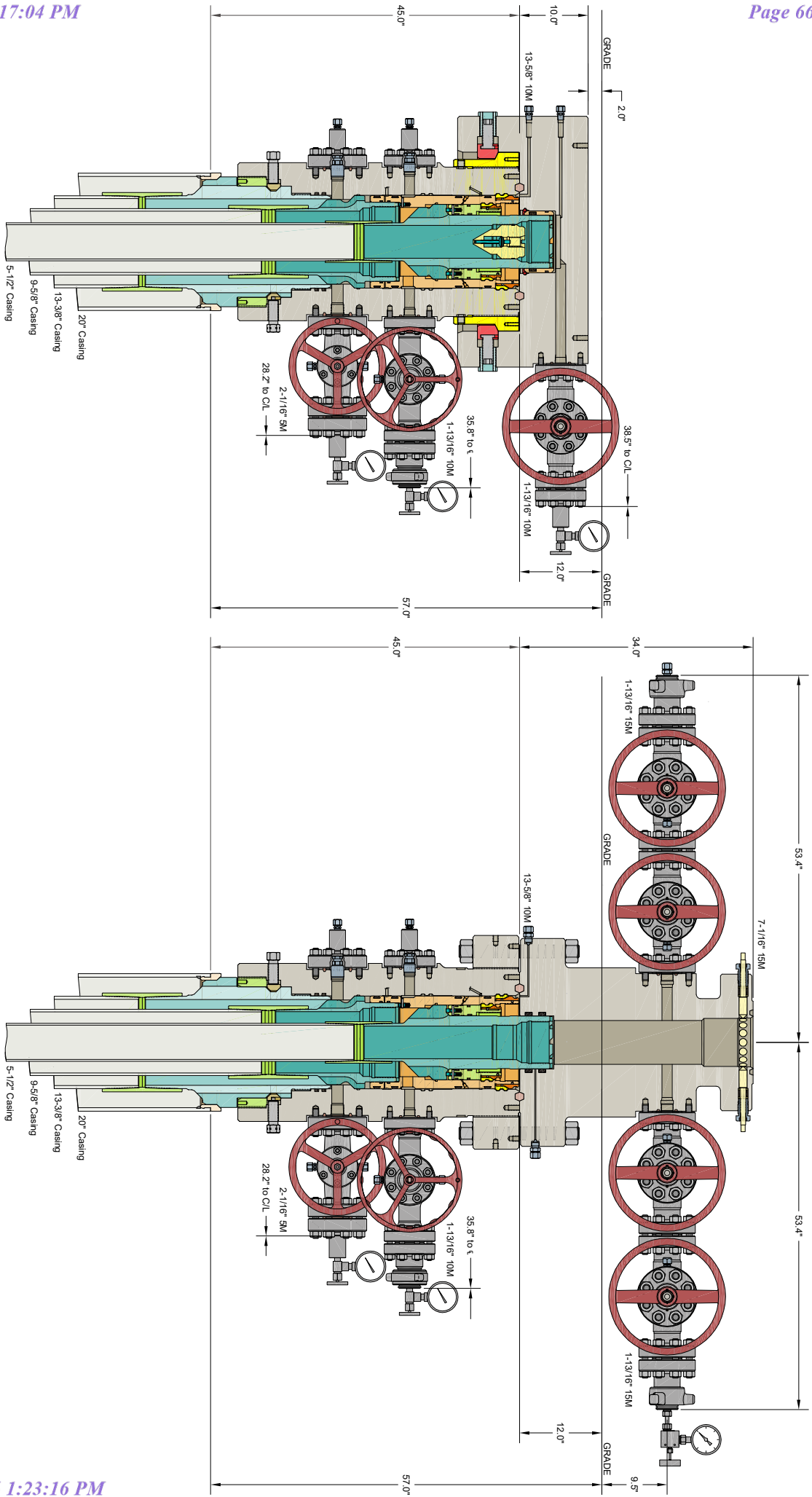
- PBEX's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.
- PBEX does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. The new flares will have a continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely anchored.
- New tanks will be equipped with an automatic gauging system.
- An AVO inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.

6. Measurement or Estimation of Vented and Flared Natural Gas

- PBEX estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, PBEX will install meters on flares installed after May 25, 2021. Meters will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the meter.



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FROM HBE1335

ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

PBEX OPERATIONS LLC
NEW MEXICO

20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO Wellhead Sys.
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8" And 5-1/2" Fluted Mandrel Casing Hangers

DRAWN	DLE	12FEB25
APPRV		
DRAWING NO.	SDT-5235	

Drilling Practices for Well Control

1. **BOP Drills:** Conduct planned and unplanned BOP drills with each tour during drilling and tripping operations at least 1 time per week.
2. **BOP Tests:** Function test BOP's once out of hole during trips, but no more than once per 24-hour period. Function test remote BOP controls to verify functioning properly. Check regulatory reqs.
3. **Trips:** During trips verify wellbore is taking proper fill or displacing calculated volumes. In the event a string must be pulled wet confirm fill calculations with engineer prior to TOH. Once BHA has cleared the floor close blind rams. Prior to opening blind rams confirm there is no pressure, if pressure is observed, note any pressure and discuss with office prior to bleeding off. Bleed pressure off through choke prior to opening blind rams. During trips it is vital that fluids are not transferred in and out of the active system to minimize confusion. Always utilize the trip tank and PVT for the trip tank, so that it can be monitored on the EDR. Also, during trips, it is vital to stop and check for flow multiple times throughout the trip.
4. **Trip Sheets:** Verify crews understand the importance of a trip sheet. Trip sheets must be utilized on every trip to monitor for proper fill and displacement every 5-10 stands. If incorrect fill or displacement is observed, stop trip and discuss with engineer.
5. **Slow Pump Rates:** Slow pump rates must be recorded every 24 hours or 500' of new hole drilled during drilling operations. It is also good practice to record SPR with any mud weight change greater than 0.5 ppg and every tour if applicable. Note SPR on daily drilling reports as they are taken.
6. **Pressure Control Equipment:** Once BOPE has been nipped up and tested, prior to drilling ahead, pump through equipment (Kill Line, HCR/Choke(s), gas buster) to verify working properly. Also pump through and verify that all equipment is functioning properly after every casing string that is run and cemented. Under no circumstance shall drilling ahead in the production interval be permitted prior to verifying pressure control equipment is functioning properly. Document and always know BOP configuration, size and rating. Always keep HCR closed and chokes closed during drilling or tripping operations. HCR only to be opened while monitoring pressure. Always confirm that Full Opening Safety Valves are the correct thread, functioned each tour and in the open position.
7. **Well Control:** Always assume influxes are hydrocarbon and real. In the event a shut-in is required, plan to follow the "Hard Shut-In" procedure. **If Shut-In Casing Pressure increases higher than 3,500 psi, we will move to the pipe rams that are more adequately rated for those pressures.** Keep kill sheets filled out properly and daily. ALWAYS make sure that PVT alarms are working properly and set to sound at 5 bbls. In "hard shut-in" situation, always PU to space out tool joints properly in BOP. Refer to Appendix A for "Hard Shut-in" procedure.
8. **Accumulator:** Verify pressures on accumulator once every 24 hours. Document and confirm pressures are consistent, report any discrepancies. Verify that the accumulator recharge pumps are working properly and discuss bleeding off system on a weekly basis to confirm pumps are operating properly.
9. **Wellhead:** If wellhead has lock down pins, verify all gland packing nuts are tight.
10. **BOP Tests, inspections and recordkeeping:** Maintain BOP test pressure records and charts on the rig. The failure to conduct test or to record test results could cause the BOP to function improperly in the event of a kick, resulting in a blowout. Test Record Checklist below.
 - Wellhead Pressure Rating.
 - Date of last test.
 - Low pressure and the high pressure for the annular, pipe rams, blind rams, kill line, choke line, standpipe system and safety valves.
 - Annular preventer should be tested to 70% of rated capacity. The rest of the BOP system should be tested at the rated capacity of the weakest component.
 - BOP equipment should be inspected daily, and a preventer actuation test should be performed on each round trip, but not more than once per 24-hour period.
 - The BOP should be shopped every five years for an OEM inspection.

Rig Management Protocol

- The day Supervisor (Company Man/Foreman) is the lead supervisor on location and is ultimately responsible for the operation.
- If a night foreman is on location it is his duty to wake the lead foremen when problems or irregular situations arise.

Appendix A

HARD SHUT-IN PROCEDURE - WHILE TRIPPING

- A. After kick is indicated, position the upper tool joint above the rotary table/rig floor.
- B. Install Full Opening Safety Valve in drill string (torque to proper specs) and place in closed position.
- C. Perform hard shut-in by closing annular preventer and opening HCR.
- D. Notify Supervisor if not present.
- E. Make up top drive or kelly to the closed FOSV.
- F. Open FOSV and record the SIDPP, SICP, pit gain, Depth/TVD and time.
- G. Prepare to implement kill procedures.

LSE_NAME	ProdDate	Proj Oil	Proj Gas	Proj NGL	Proj Water
3BSS TIER 1	Month 1	12489	18672	101947	54250
3BSS TIER 1	Month 2	35477	58969	321970	96582
3BSS TIER 1	Month 3	29843	52446	286357	73714
3BSS TIER 1	Month 4	25696	46558	254207	63160
3BSS TIER 1	Month 5	21361	39555	215969	52327
3BSS TIER 1	Month 6	19384	36481	199184	47367
3BSS TIER 1	Month 7	17270	32922	179752	42123
3BSS TIER 1	Month 8	15109	29093	158848	36798
3BSS TIER 1	Month 9	14259	27683	151147	34687
3BSS TIER 1	Month 10	12706	24837	135609	30879
3BSS TIER 1	Month 11	12174	23934	130682	29561
3BSS TIER 1	Month 12	11341	22409	122351	27518
3BSS TIER 1	Month 13	9620	19088	104222	23330
3BSS TIER 1	Month 14	10045	20004	109220	24347
3BSS TIER 1	Month 15	9183	18349	100184	22248
3BSS TIER 1	Month 16	8995	18025	98419	21783
3BSS TIER 1	Month 17	8275	16628	90787	20033
3BSS TIER 1	Month 18	8152	16418	89641	19727
3BSS TIER 1	Month 19	7783	15711	85780	18830
3BSS TIER 1	Month 20	7213	14588	79650	17446
3BSS TIER 1	Month 21	7152	14490	79116	17293
3BSS TIER 1	Month 22	6653	13501	73716	16083
3BSS TIER 1	Month 23	6619	13453	73453	15998
3BSS TIER 1	Month 24	6379	12983	70889	15415
3BSS TIER 1	Month 25	5570	11351	61976	13458
3BSS TIER 1	Month 26	5969	12178	66493	14420
3BSS TIER 1	Month 27	5592	11421	62358	13506
3BSS TIER 1	Month 28	5599	11449	62511	13523
3BSS TIER 1	Month 29	5257	10759	58743	12694
3BSS TIER 1	Month 30	5275	10806	58998	12736
3BSS TIER 1	Month 31	5125	10507	57367	12371
3BSS TIER 1	Month 32	4824	9899	54050	11645
3BSS TIER 1	Month 33	4854	9967	54418	11715
3BSS TIER 1	Month 34	4576	9404	51348	11045
3BSS TIER 1	Month 35	4611	9482	51771	11127
3BSS TIER 1	Month 36	4497	9254	50527	10852
3BSS TIER 1	Month 37	4109	8461	46194	9914
3BSS TIER 1	Month 38	4293	8844	48288	10357

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 30-025-55830	Pool Code 41450	Pool Name LUSK;BONE SPRING, NORTH
Property Code 338342	Property Name BOND 33-34 FED COM	Well Number #304H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,683.69'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL I	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,328' FSL	Ft. from E/W 1,177' FEL	Latitude 32.700406°	Longitude -103.783715°	County LEA
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Bottom Hole Location

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,230' FSL	Ft. from E/W 50' FEL	Latitude 32.702810°	Longitude -103.745718°	County LEA
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Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API 30-025-55721	Overlapping Spacing Unit (Y/N) N	Consolidation Code F
Order Numbers. R-23684			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL I	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,328' FSL	Ft. from E/W 1,177' FEL	Latitude 32.700406°	Longitude -103.783715°	County LEA
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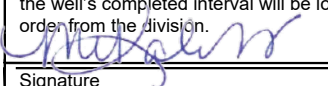
First Take Point (FTP)

UL L	Section 33	Township 18S	Range 32E	Lot	Ft. from N/S 2,231' FSL	Ft. from E/W 100' FWL	Latitude 32.702879°	Longitude -103.779565°	County LEA
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Last Take Point (LTP)

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,230' FSL	Ft. from E/W 100' FEL	Latitude 32.702810°	Longitude -103.745881°	County LEA
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Unitized Area or Area of Uniform Interest n/a	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,683.69
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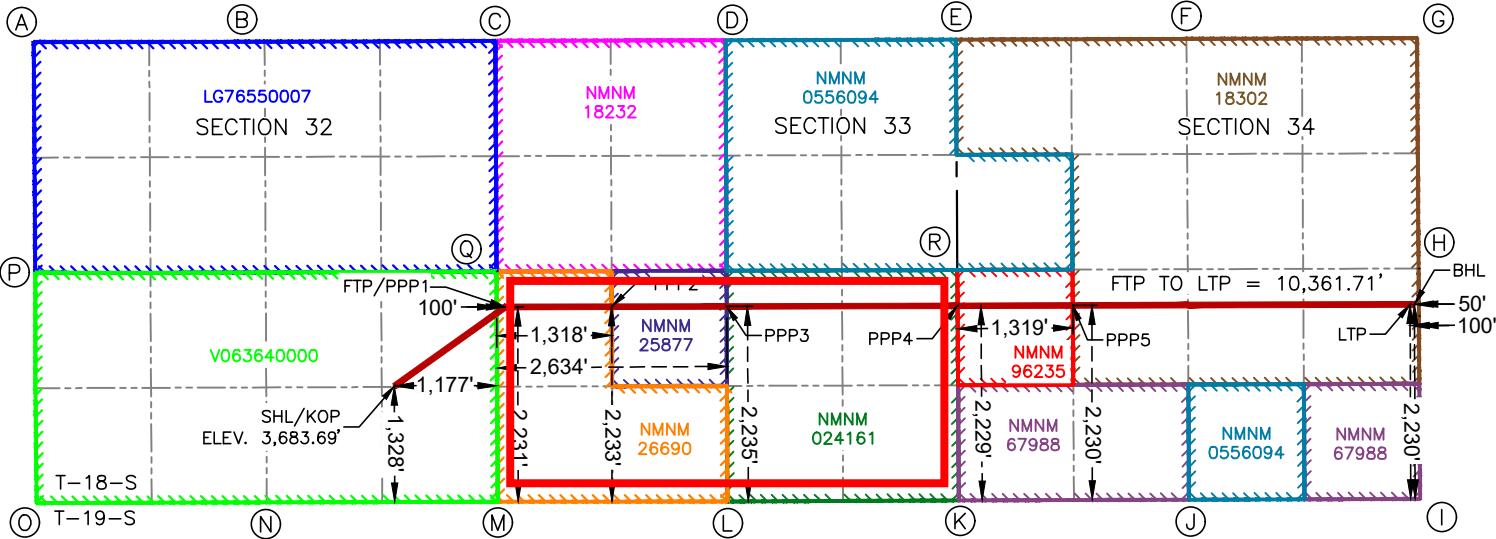
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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. 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.  11/30/25		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 11/28/2025	
Signature Mikah Thomas		Signature and Seal of Professional Surveyor	
Printed Name mikah@pbex.com		Certificate Number 12177	Date of Survey 11/28/2025
Email Address		Revision Number 1	

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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



BOND 33-34 FED COM #304H

SURFACE HOLE LOCATION
& KICK-OFF POINT
1,328' FSL & 1,177' FEL
ELEV. = 3,683.69'
NAD 83 X = 710,405.99'
NAD 83 Y = 618,976.99'
NAD 83 LAT = 32.700406°
NAD 83 LONG = -103.783715°

FIRST TAKE POINT &
PENETRATION POINT 1
2,231' FSL & 100' FWL
NAD 83 X = 711,677.72'
NAD 83 Y = 619,883.39'
NAD 83 LAT = 32.702879°
NAD 83 LONG = -103.779565°

PENETRATION POINT 2
2,233' FSL & 1,318' FWL
NAD 83 X = 712,895.42'
NAD 83 Y = 619,886.48'
NAD 83 LAT = 32.702870°
NAD 83 LONG = -103.775607°

PENETRATION POINT 3
2,235' FSL & 2,634' FWL
NAD 83 X = 714,211.86'
NAD 83 Y = 619,889.81'
NAD 83 LAT = 32.702860°
NAD 83 LONG = -103.771327°

PENETRATION POINT 4
2,230' FSL & 0' FWL
NAD 83 X = 716,856.37'
NAD 83 Y = 619,896.81'
NAD 83 LAT = 32.702840°
NAD 83 LONG = -103.762730°

PENETRATION POINT 5
2,230' FSL & 1,319' FWL
NAD 83 X = 718,175.67'
NAD 83 Y = 619,901.05'
NAD 83 LAT = 32.702832°
NAD 83 LONG = -103.758441°

LAST TAKE POINT
2,230' FSL & 100' FEL
NAD 83 X = 722,039.38'
NAD 83 Y = 619,914.26'
NAD 83 LAT = 32.702810°
NAD 83 LONG = -103.745881°

BOTTOM HOLE LOCATION
2,230' FSL & 50' FEL
NAD 83 X = 722,089.38'
NAD 83 Y = 619,914.44'
NAD 83 LAT = 32.702810°
NAD 83 LONG = -103.745718°

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
POINT	NORTHING/EASTING
A	N:622,919.18' E:706,274.71'
B	N:622,925.94' E:708,919.07'
C	N:622,933.11' E:711,562.90'
D	N:622,939.79' E:714,200.05'
E	N:622,946.74' E:716,835.71'
F	N:622,955.24' E:719,478.22'
G	N:622,964.56' E:722,119.22'
H	N:620,324.44' E:722,136.67'
I	N:617,684.31' E:722,154.13'
J	N:617,675.56' E:719,507.45'
K	N:617,667.42' E:716,871.24'
L	N:617,654.91' E:714,220.52'
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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 30-025-55830	Pool Code 50510	Pool Name QUERECH PLAINS; LOWER BONE SPRING
Property Code 338342	Property Name BOND 33-34 FED COM	Well Number #304H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,683.69'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

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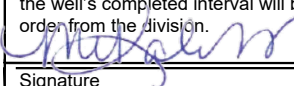
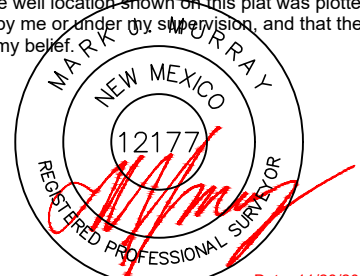
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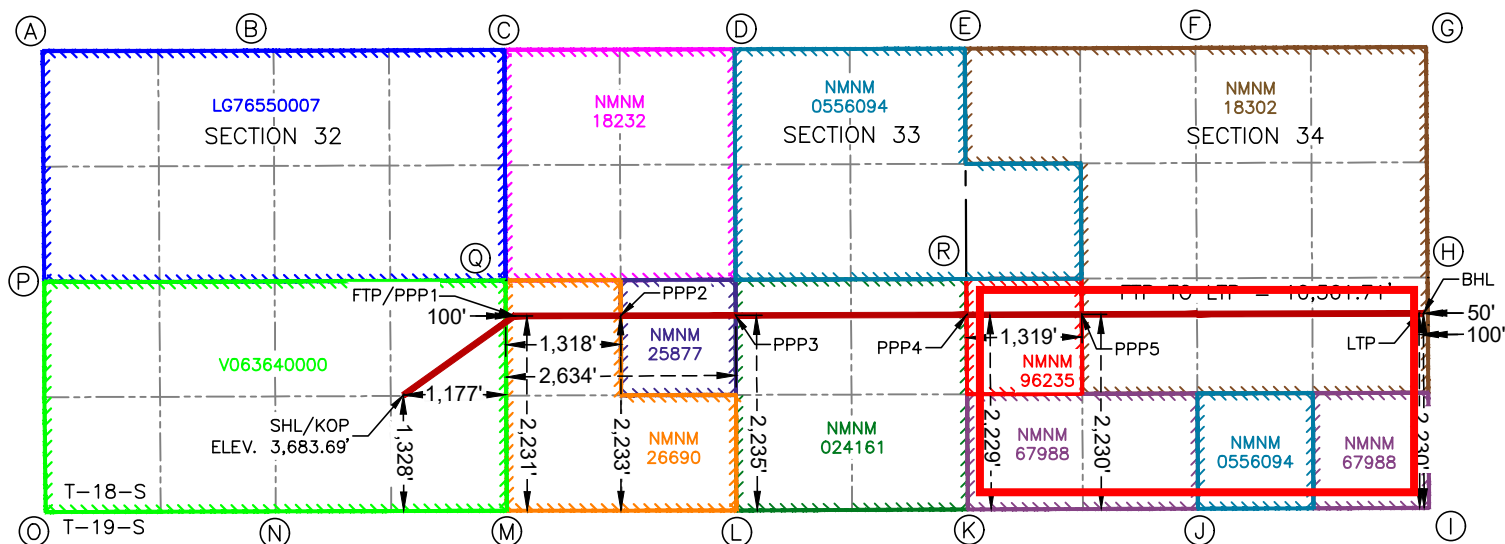
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Printed Name mikah@pbex.com		Certificate Number 12177	Date of Survey 11/28/2025
Email Address		Revision Number 1	

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**BOND 33-34 FED COM #304H**

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P	N:620,268.56' E:706,292.10'
Q	N:620,290.05' E:711,575.35'
R	N:620,307.39' E:716,853.63'

Well Name: BOND 33-34 FED COM	Well Location: T18S / R32E / SEC 32 / SESE / 32.699644 / -103.783584	County or Parish/State: LEA / NM
Well Number: 304H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM26690	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: PBEX OPERATIONS LLC	

Notice of Intent

Sundry ID: 2887069

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/15/2025	Time Sundry Submitted: 03:53
Date proposed operation will begin: 12/15/2025	

Procedure Description: AFMSS APD Number: 10400103894 PBEX Operations, LLC requests the following: Well name change: Original: Bond 33-34 Fed Com 304H New: Bond 33-34 Fed Com 304H Casing/Cement/Mud change shown on attachment. SHL, BHL, lateral move shown on attachment.

NOI Attachments

Procedure Description

- PPP_Change_Bond_304H__304H_20251222105116.pdf
- Bond_32_34_Fed_Com_304H_20251222105112.pdf
- 24_041778_BOND_33_34_FED_COM__304H_C102_20251222105108.pdf
- 5.5_20.00__0.361__P110_RY_92.5_RBW_USS_FREEDOM_HTQ_Data_Sheet_03_14_24_20251215155218.pdf
- Plan_1_WM__02__Bond_33_34_FED_COM__304H_20251215155210.pdf
- Plan_1_AC__02__Bond_33_34_FED_COM__304H_20251215155158.pdf
- Plan_1__02__Bond_33_34_FED_COM__304H_20251215155141.pdf

Well Name: BOND 33-34 FED COM	Well Location: T18S / R32E / SEC 32 / SESE / 32.699644 / -103.783584	County or Parish/State: LEA / NM
Well Number: 304H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM26690	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: PBEX OPERATIONS LLC	

Conditions of Approval

Additional

32_18_32_P_Sundry_ID_2887069_Bond_32_34_Fed_Com_304H_Lea_NM26690_PBEX_Operations_LLC_13_22h_11_14_2024_LV_20260107151959.pdf

Bond_33_34_Fed_Com_304H_Dr_COA_20260107151959.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MIKAH THOMAS	Signed on: DEC 22, 2025 10:51 AM
Name: PBEX OPERATIONS LLC	
Title: Regulatory Manager	
Street Address: 223 WEST WALL STREET STE 900	
City: MIDLAND	State: TX
Phone: (432) 661-7106	
Email address: MIKAH@PBEX.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: CWALLS@BLM.GOV
Disposition: Approved	Disposition Date: 01/08/2026
Signature: Chris Walls	

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address 3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESE / 1051 FSL / 1137 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.699644 / LONG: -103.783584 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2230 FSL / 1319 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7028361 / LONG: -103.7584411 (TVD: 10150 feet, MD: 17107 feet)

PPP: NWSE / 2235 FSL / 2634 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7028631 / LONG: -103.7713269 (TVD: 10150 feet, MD: 13143 feet)

PPP: NESW / 2232 FSL / 1318 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7028703 / LONG: -103.7756065 (TVD: 10150 feet, MD: 11827 feet)

PPP: NWSW / 2230 FSL / 100 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702876 / LONG: -103.779565 (TVD: 10150 feet, MD: 10614 feet)

PPP: NWSW / 2230 FSL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7028449 / LONG: -103.76273 (TVD: 10150 feet, MD: 15788 feet)

BHL: NESE / 2230 FSL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.702809 / LONG: -103.745588 (TVD: 10150 feet, MD: 20971 feet)

CONFIDENTIAL

32-18-32-P Sundry ID 2887069 Bond 32-34 Fed Com 304H Lea NM26690 PBEX Operations LLC 13-22h 11-14-2024 LV.xlsm

Bond 32-34 Fed Com 304H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface		
Segment	#/ft	Grade		Coupling		Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	54.50			j 55	btc	12.91	2.16	0.55	1,213	5	0.95	4.41	66,109	
"B"					btc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,382							Tail Cmt	does not	circ to sfc.	Totals:	1,213		66,109	
Comparison of Proposed to Minimum Required Cement Volumes														
Hole	Annular	1 Stage		1 Stage	Min	1 Stage	Drilling	Calc	Req'd		Min Dist			
Size	Volume	Cmt Sx		CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE		Hole-Cplg			
17 1/2	0.6946	1273		1820	843	116	8.30	2883	3M		1.56			
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.														
Site plot (pipe racks 3 or 4) as per O.D. 1.38, D.3.1, not found														

9 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		hcl 80	btc	2.46	0.86	0.87	9,450	1	1.32	1.47	378,000
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: -35								Totals:	9,450			378,000
The cement volume(s) are intended to achieve a top of 0								ft from surface or a		1213		overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.3132	1562	3985	3020	32	10.20	4369	5M				0.81
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								#VALUE!	#VALUE!			
Class 'H' tail cmt yld > 1.20												
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.62, b, c, d <0.70 a Problem!!												

Tail cmt		casing inside the		9 5/8		Design Factors				Prod 1		
5 1/2												
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	freedom	3.15	1.68	2.02	21,446	2	3.06	2.54	428,920
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,239								Totals:	21,446			428,920
The cement volume(s) are intended to achieve a top of								9250	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
8 3/4	0.2526	3168	4455	3082	45	12.50						1.23
Class 'C' tail cmt yld > 1.35												

#N/A											
0	5 1/2			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from surface or a			#N/A			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	PBEX Operations LLC
LOCATION:	Section 32, T.18 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Bond 33-34 Fed Com 304H
ATS/API ID:	ATS-25-1222
APD ID:	10400103894
Sundry ID:	2887069

COA

H2S	Yes		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1213 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
 - 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:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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.

Option 1:

- a. 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.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. 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 3172.6(b)(9) 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 part 3170 Subpart 3171**
- 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.

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)

☒ Lea County

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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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.

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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)

- c. 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 part 3170 Subpart 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).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

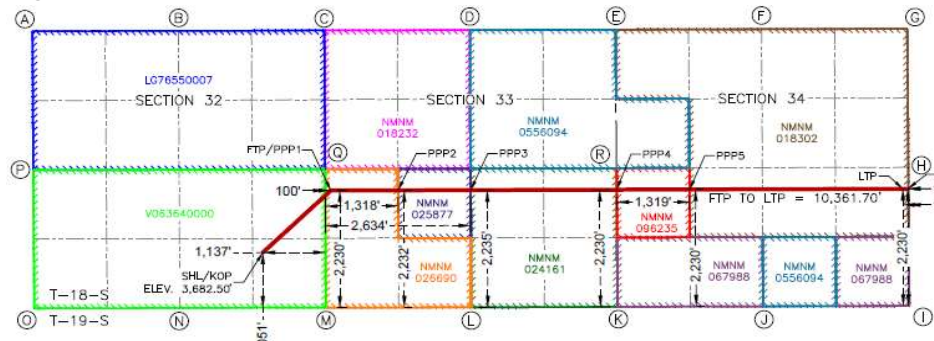
Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 1/7/2026

PPP Changes

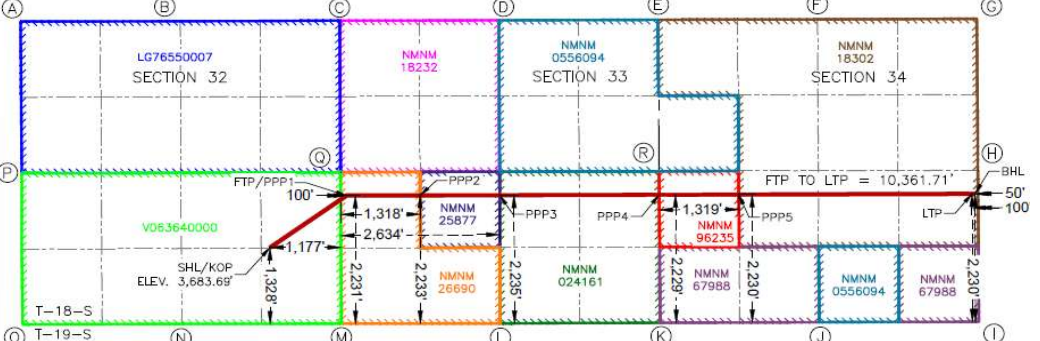
Original- Grey
New- Blue

Original: Bond 33-34 Fed Com 304H



Original- SHL	32-18S-32E	1051 FSL & 1137 FEL	V063640000
Original- KOP	32-18S-32E	1051 FSL & 1137 FEL	V063640000
Original- FTP	32-18S-32E	2230 FSL & 100 FWL	NMNM026690
Original- PPP2	33-18S-32E	2232 FSL & 1318 FWL	NMNM025877
Original- PPP3	33-18S-32E	2235 FSL & 2634 FWL	NMNM024161
Original- PPP4	34-18S-32E	2230 FSL & 0 FWL	NMNM096235
Original- PPP5	34-18S-32E	2230 FSL & 1319 FWL	NMNM018302
Original- LTP	34-18S-32E	2230 FSL & 100 FEL	NMNM018302
Original- BHL	34-18S-32E	2230 FSL & 10 FEL	NMNM018302

New: Bond 33-34 Fed Com 304H



New-SHL	32-18S-32E	1328 FSL & 1177 FEL	V06364000
New-KOP	32-18S-32E	1328 FSL & 1177 FEL	V06364000
New-FTP	33-18S-32E	2231 FSL & 100 FWL	NMNM26690
New-PPP2	33-18S-32E	2233 FSL & 1318 FWL	NMNM25877
New-PPP3	34-18S-32E	2235 FSL & 2634 FWL	NMNM024161
New-PPP4	34-18S-32E	2230 FSL & 0 FWL	NMNM96235
New-PPP5	34-18S-32E	2230 FSL & 1319 FWL	NMNM18302
New-LTP	34-18S-32E	2230 FSL & 100 FEL	NMNM18302
New-BHL	34-18S-32E	2230 FSL & 50 FEL	NMNM18302

Bond 32-34 Fed Com 304H

Original Design in Grey

New Design in Blue

Target Zone: 3BSS

Casing Design- ORIGINAL														
Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Btm MD	Top TVD	Btm TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	no	0	1310	0	1310	J-55	54.5	BTC	1.125	1.125	1.6
Intermediate	12 1/4	9 5/8	API	no	0	9450	0	9350	J-55	40	BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2	API	no	0	21061	0	10150	P-110	20	CDC HTQ	1.125	1.125	1.6

Casing Design- NEW														
Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Btm MD		Btm TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	no	0	1310	0	1310	J-55	54.55	BTC	1.125	1.125	1.6
Intermediate	12 1/4	9 5/8	API	no	0	9450	0	9305	L80HC	40	BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2	API	no	0	21046	0	10175	P110	20	Freedom	1.125	1.125	1.6

Alternate Grades and or higher weights could be subsituted to meet maximum stimulation pressures or due to coupling availability

Cement Details- ORIGINAL									
Name	Type	Top MD	Sacks	Yield	Cu Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	751	2.22	1667.3	12.5	100%	C	Gel, Accleerator, LCM
	Tail	1200	83	1.84	152.8	13.2	100%	C	Gel, Accleerator, LCM
Intermediate	Lead	0	694	6.19	4297	10	60%	C or H	Fluid Loss, Retarder, LCM, Possibly Beads
	Tail	8350	130	1.38	179.4	13.8	15%	C or H	Fluid Loss, Retarder, LCM
Produciton	Lead	5850	525	1.49	782.3	12.5	0%	H	Fluid Loss, Retarder, LCM
	Tail	8850	2572	1.49	3832	13.5	20%	H	Fluid Loss, Retarder, LCM

Cement Details- NEW									
Name	Type	Top MD	Sacks	Yield	Cu Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	1,158	1.44	1667.1	12.8	100%	C	Gel, Accleerator, LCM
	Tail	1200	115	1.33	152.8	14.8	100%	C	Gel, Accleerator, LCM
Intermediate	Lead	0	993	3.32	3295.8	10.5	60%	C	Fluid Loss, Retarder, LCM, Possibly Beads
	Tail	8350	569	1.21	689.0	13.2	15%	C	Fluid Loss, Retarder, LCM
Produciton	Lead	5850	310	3.03	938.7	10.5	0%	H	Fluid Loss, Retarder, LCM
	Tail	8850	2,858	1.23	3514.9	13.2	20%	H	Fluid Loss, Retarder, LCM

Mud Program- ORIGINAL						
Name	Top	Bottom	Type	Mud Weight	Vis	Fluid Loss
Surface	0	1310	Water Based Mud	8.3	30-60	NC
Intermediate	1310	9450	Brine Based Mud	8.8-9.6	35-45	NC
Production	9450	21061	Oil Based Mud	11-12.5	35-65	4 to 6

Mud Program- NEW						
Name	Top	Bottom	Type	Mud Weight	Vis	Fluid Loss
Surface	0	1310	Water Based Mud	8.3	30-60	NC
Intermediate	1310	4535	Brine Based Mud	10.0-10.2	34-45	NC
Intermediate	4535	9450	Oil Based Mud	9.6-9.7	35-65	4 to 6
Production	9450	21046	Oil Based Mud	12.0-12.5	35-65	4 to 6



5.5 20.00 (0.361) P110 RY USS-FREEDOM HTQ®

	Pipe	Connection	
MECHANICAL PROPERTIES	(P110 RY)		RBW: 92.5%
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS			
Outside Diameter	5.500	6.300	in.
Wall Thickness	0.361		in.
Inside Diameter	4.778	4.778	in.
Drift - API	4.653	4.653	in.
Nominal Linear Weight, T&C	20.00		lb/ft
Plain End Weight	19.83		lb/ft
SECTION AREA			
Cross Sectional Area Critical Area	5.828	5.828	sq. in.
Connection Efficiency		100.0%	
PERFORMANCE			
Minimum Collapse Pressure	11,100	11,100	psi
Minimum Internal Yield Pressure	13,360	13,360	psi
Minimum Pipe Body Yield Strength	641,000		lb
Joint Strength		641,000	lb
Compression Rating		641,000	lb
Reference Length		21,367	ft [4]
Maximun Uniaxial Bend Rating		91.7	deg/100 ft [2]
MAKE-UP DATA			
Make-Up Loss		4.13	in.
Minimum Make-Up Torque		15,000	ft-lb [3]
Maximum Make-Up Torque		20,500	ft-lb [3]
Maximum Operating Torque		29,500	ft-lb [3]

UNCONTROLLED

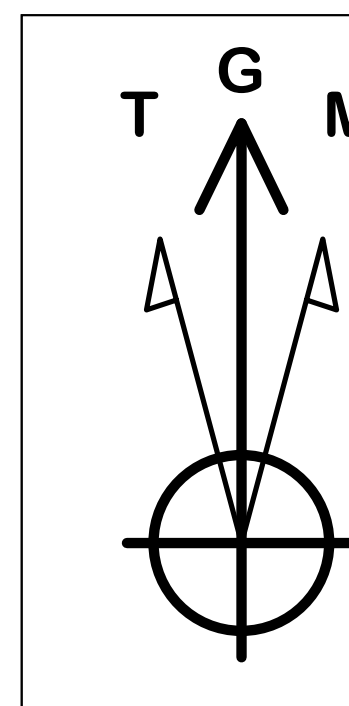
UNCONTROLLED

- Notes:
- 1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
 - 2) Uniaxial Bend Rating shown is structural only.
 - 3) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
 - 4) Reference length is calculated by joint strength divided by Nominal Linear Weight, T&C with 1.5 safety factor.

Legal Notice: USS-FREEDOM HTQ® (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability, and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application. Data from USS-FREEDOM HTQ® Design Sheet 2024



PROJECT DETAILS: Lea County, NM (N83 - NME)
Well Name: (02) Bond 33-34 FED COM #304H
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid
KB Elevation: RKB - 30.5 @ 3714.19usft
Elevation: 3683.69
To convert a Magnetic Direction to a Grid Direction, Add 6.051°



Azimuths to Grid North
True North: -0.30°
Magnetic North: 6.05°

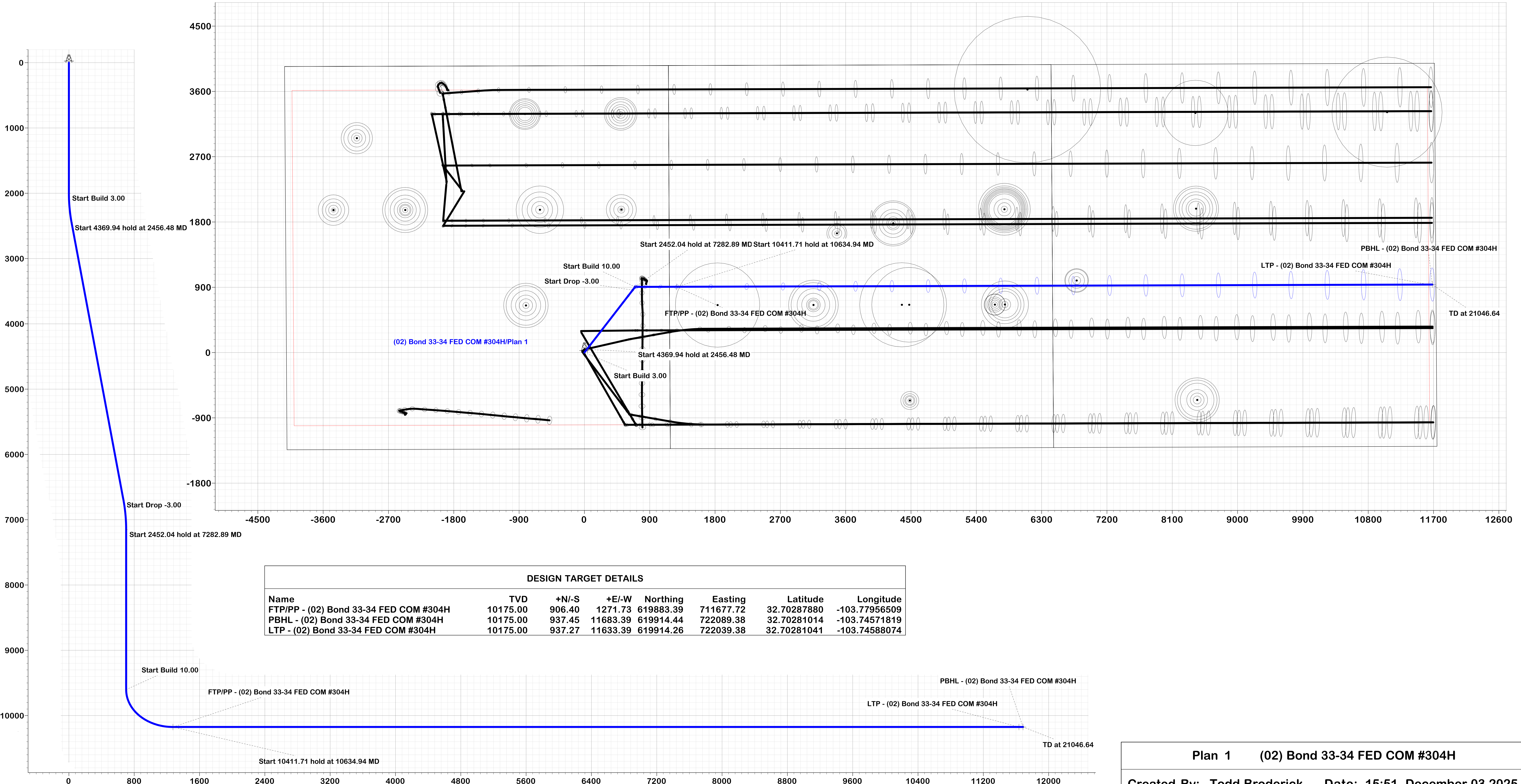
Magnetic Field
Strength: 47225.5nT
Dip Angle: 60.14°
Date: 12/2/2025
Model: IGRF2025



PBEX
Site: Bond South Pad - Phase 2
Well: (02) Bond 33-34 FED COM #304H
Wellbore: #304H
Plan: Plan 1

WELL DETAILS: (02) Bond 33-34 FED COM #304H					
		Northing	Easting	Latitude	Longitude
0.00	0.00	618976.99	710405.99	32.70040568	-103.78371453

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00
3	2456.48	13.69	37.68	2452.14	42.97	33.19	3.00	37.682	33.32
4	6826.42	13.69	37.68	6697.86	861.72	665.59	0.00	0.000	668.14
5	7282.89	0.00	89.83	7150.00	904.69	698.77	3.00	180.000	701.46
6	9734.94	0.00	89.83	9602.04	904.69	698.77	0.00	0.000	701.46
7	10634.94	90.00	89.83	10175.00	906.40	1271.73	10.00	0.000	1274.41
8	21046.64	90.00	89.83	10175.00	937.45	11683.39	0.00	0.000	11686.12



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP/PP - (02) Bond 33-34 FED COM #304H	10175.00	906.40	1271.73	619883.39	711677.72	32.70287880	-103.77956509
PBHL - (02) Bond 33-34 FED COM #304H	10175.00	937.45	11683.39	619914.44	722089.38	32.70281014	-103.74571819
LTP - (02) Bond 33-34 FED COM #304H	10175.00	937.27	11633.39	619914.26	722039.38	32.70281041	-103.74588074

Plan 1 (02) Bond 33-34 FED COM #304H
Created By: Todd Broderick Date: 15:51, December 03 2025



PBEX

Lea County, NM (N83 - NME)

Bond South Pad - Phase 2

(02) Bond 33-34 FED COM #304H

TBD

#304H

Plan 1

Anticollision Report

03 December, 2025

DIXON



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference	Plan 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,064.38usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/3/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	21,046.64	Plan 1 (#304H)	MWD+IFR1	OWSG MWD + IFR1	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bond North Pad - Phase 1						
(01) Bond 32-34 FED COM 205H - 205H - Plan 2	9,481.90	11,789.94	850.63	769.72	10.513	CC, ES
(01) Bond 32-34 FED COM 205H - 205H - Plan 2	21,046.64	22,771.47	1,185.23	791.07	3.007	SF
(02) Bond 32-34 FED COM 301H - 301H - Plan 2	21,040.54	23,573.59	1,680.03	1,169.78	3.293	CC
(02) Bond 32-34 FED COM 301H - 301H - Plan 2	21,046.64	23,573.59	1,680.04	1,169.66	3.292	ES, SF
(03) Bond 32-34 FED COM 201H - 201H - Plan 2						Out of range
Bond North Pad - Phase 2						
(01) Bond 32-34 FED COM #303H - #303H - Plan 1						Out of range
(02) Bond 32-34 FED COM #101H - #101H - Plan 1						Out of range
(03) Bond 32-34 FED COM #103H - #103H - Plan 1	8,541.58	10,837.54	920.62	838.78	11.249	CC, ES
(03) Bond 32-34 FED COM #103H - #103H - Plan 1	21,046.64	21,818.82	1,991.54	1,694.19	6.698	SF
Bond Pad Offsets						
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)						Out of range
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	9,334.54	9,211.97	94.05	41.09	1.776	Level 3, CC, ES, SF
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)						Out of range
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644						Out of range
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	15,152.80	10,180.19	1,055.04	646.73	2.584	CC, ES
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	15,200.00	10,180.19	1,056.09	646.90	2.581	SF
(W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)	15,155.92	10,165.64	257.11	-105.98	0.708	Level 3, CC, ES, SF
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	17,801.90	10,177.44	1,581.36	1,181.06	3.950	CC, ES
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	17,900.00	10,177.44	1,584.40	1,182.52	3.942	SF
(W08) HULKSTER 001 - 38446 - (Inc Only)						Out of range
(W09) HULKSTER 002 - 38844 - (Inc Only)						Out of range
(W10) HULKSTER 003 - 39570 - (Inc Only)						Out of range
(W11) HULKSTER 004 - 39571 - (Inc Only)						Out of range
(W12) HULKSTER 005 - 39572 - (Inc Only)	7,276.68	7,149.38	1,082.30	908.44	6.225	CC
(W12) HULKSTER 005 - 39572 - (Inc Only)	9,700.00	9,537.00	1,083.08	853.11	4.710	ES, SF
(W13) KEELA FEDERAL 002 - 33339 - (Inc Only)						Out of range
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	13,620.78	10,184.44	867.70	548.19	2.716	CC, ES, SF
(W15) KEELA FEDERAL 004 - 33499 - (Inc Only)						Out of range
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	2,153.46	2,154.16	1,034.76	980.91	19.216	CC
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	2,600.00	2,592.50	1,036.81	973.24	16.310	ES
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	9,800.00	9,667.49	1,529.57	1,291.24	6.418	SF
(W17) MAX STATE 001 - 26754 - (Inc Only)	9,530.43	9,407.27	1,689.29	1,447.85	6.997	CC

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Bond Pad Offsets						
(W17) MAX STATE 001 - 26754 - (Inc Only)	9,700.18	9,562.36	1,689.35	1,443.51	6.872	ES
(W17) MAX STATE 001 - 26754 - (Inc Only)	9,900.00	9,759.91	1,707.71	1,456.23	6.791	SF
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	17,792.95	10,187.74	1,055.60	648.78	2.595	CC
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	17,800.00	10,187.74	1,055.63	648.65	2.594	ES, SF
(W19) SPEAR FEDERAL 001 - 33645 - (Inc Only)						Out of range
(W20) SUPERIOR FEDERAL 001 - 24277 - (Inc Only)						Out of range
(W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)	12,518.13	10,173.67	255.79	-46.46	0.846	Level 3, CC, ES, SF
(W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)						Out of range
(W23) KEELA FEDERAL 001 - 33316 - (Depth Only)						Out of range
(W24) NELLIE 001 - 24439 - (Depth Only)						Out of range
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,700.00	5,482.00	1,335.03	739.50	2.242	ES, SF
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,804.78	5,482.00	1,330.90	739.81	2.252	CC
(W26) STATE EC 001 - 00885 - (Depth Only)						Out of range
(W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)						Out of range
Bond South Pad - Phase 1						
(01) Bond 32-34 FED COM 207H - 207H - Plan 2	3,100.91	3,082.18	217.44	203.15	15.216	CC, ES
(01) Bond 32-34 FED COM 207H - 207H - Plan 2	21,046.64	20,179.10	1,015.20	711.25	3.340	SF
(02) Bond 32-34 FED COM 211H - 211H - Plan 2	2,964.41	2,977.67	66.22	51.49	4.494	CC, ES, SF
Bond South Pad - Phase 2						
(01) Bond 33-34 FED COM #306H - #306H - Plan 1	2,000.00	1,999.05	20.10	8.99	1.808	Level 3, CC, ES, SF
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	1,716.59	1,716.82	20.24	10.03	1.982	Level 3, CC
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	1,800.00	1,800.23	20.24	9.75	1.930	Level 3, ES
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	1,900.00	1,900.08	20.58	9.78	1.906	Level 3, SF
(04) Bond 33-34 FED COM #104H - #104H - Plan 1	2,326.50	2,325.76	29.38	17.29	2.431	CC, ES, SF

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2														Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+IFR1												Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning		
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			
7,700.00	7,567.11	11,789.94	9,360.00	27.48	56.18	-0.168	1,755.31	696.29	1,974.52	1,922.41	52.12	37.885			
7,800.00	7,667.11	11,789.94	9,360.00	27.52	56.18	-0.168	1,755.31	696.29	1,884.77	1,831.64	53.13	35.476			
7,900.00	7,767.11	11,789.94	9,360.00	27.56	56.18	-0.168	1,755.31	696.29	1,796.10	1,741.88	54.23	33.123			
8,000.00	7,867.11	11,789.94	9,360.00	27.60	56.18	-0.168	1,755.31	696.29	1,708.68	1,653.26	55.42	30.830			
8,100.00	7,967.11	11,789.94	9,360.00	27.65	56.18	-0.168	1,755.31	696.29	1,622.72	1,565.99	56.73	28.604			
8,200.00	8,067.11	11,789.94	9,360.00	27.69	56.18	-0.168	1,755.31	696.29	1,538.45	1,480.29	58.16	26.452			
8,300.00	8,167.11	11,789.94	9,360.00	27.73	56.18	-0.168	1,755.31	696.29	1,456.18	1,396.45	59.73	24.381			
8,400.00	8,267.11	11,789.94	9,360.00	27.78	56.18	-0.168	1,755.31	696.29	1,376.26	1,314.82	61.44	22.401			
8,500.00	8,367.11	11,789.94	9,360.00	27.82	56.18	-0.168	1,755.31	696.29	1,299.11	1,235.81	63.30	20.523			
8,600.00	8,467.11	11,789.94	9,360.00	27.86	56.18	-0.168	1,755.31	696.29	1,225.28	1,159.96	65.32	18.758			
8,700.00	8,567.11	11,789.94	9,360.00	27.91	56.18	-0.168	1,755.31	696.29	1,155.39	1,087.91	67.48	17.121			
8,800.00	8,667.11	11,789.94	9,360.00	27.95	56.18	-0.168	1,755.31	696.29	1,090.21	1,020.44	69.77	15.627			
8,900.00	8,767.11	11,789.94	9,360.00	27.99	56.18	-0.168	1,755.31	696.29	1,030.62	958.50	72.12	14.291			
9,000.00	8,867.11	11,789.94	9,360.00	28.04	56.18	-0.168	1,755.31	696.29	977.65	903.20	74.45	13.131			
9,100.00	8,967.11	11,789.94	9,360.00	28.08	56.18	-0.168	1,755.31	696.29	932.42	855.78	76.65	12.165			
9,200.00	9,067.11	11,789.94	9,360.00	28.13	56.18	-0.168	1,755.31	696.29	896.12	817.57	78.55	11.408			
9,300.00	9,167.11	11,789.94	9,360.00	28.17	56.18	-0.168	1,755.31	696.29	869.86	789.87	79.99	10.875			

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 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)			
9,400.00	9,267.11	11,789.94	9,360.00	28.22	56.18	-0.168	1,755.31	696.29	854.56	773.77	80.79	10.577	
9,481.90	9,349.01	11,789.94	9,360.00	28.25	56.18	-0.168	1,755.31	696.29	850.63	769.72	80.91	10.513	CC, ES
9,500.00	9,367.11	11,789.94	9,360.00	28.26	56.18	-0.168	1,755.31	696.29	850.82	769.95	80.87	10.521	
9,600.00	9,467.11	11,789.94	9,360.00	28.31	56.18	-0.168	1,755.31	696.29	858.78	778.59	80.20	10.708	
9,700.00	9,567.11	11,789.94	9,360.00	28.35	56.18	-0.168	1,755.31	696.29	878.14	799.27	78.87	11.134	
9,800.00	9,666.97	11,793.63	9,360.00	28.48	56.25	-87.571	1,755.32	699.98	908.11	831.01	77.10	11.779	
9,900.00	9,764.83	11,813.55	9,360.00	28.78	56.64	-82.090	1,755.38	719.90	946.82	871.42	75.40	12.557	
10,000.00	9,857.75	11,850.16	9,360.00	29.12	57.34	-75.052	1,755.49	756.51	991.15	917.11	74.04	13.387	
10,100.00	9,942.90	11,902.36	9,360.00	29.48	58.35	-67.442	1,755.64	808.71	1,037.43	964.27	73.16	14.180	
10,200.00	10,017.70	11,968.54	9,360.00	29.85	59.63	-60.303	1,755.84	874.89	1,081.98	1,009.12	72.86	14.851	
10,300.00	10,079.86	12,046.71	9,360.00	30.21	61.15	-54.376	1,756.06	953.06	1,121.46	1,048.31	73.15	15.331	
10,400.00	10,127.50	12,134.49	9,360.00	30.58	62.87	-49.991	1,756.32	1,040.83	1,153.08	1,079.05	74.02	15.577	
10,500.00	10,159.18	12,229.20	9,360.00	30.96	64.72	-47.194	1,756.60	1,135.55	1,174.69	1,099.24	75.46	15.568	
10,600.00	10,173.94	12,327.98	9,360.00	31.38	66.66	-45.931	1,756.89	1,234.33	1,184.91	1,107.50	77.41	15.307	
10,700.00	10,175.00	12,427.96	9,360.00	31.85	68.63	-45.841	1,757.18	1,334.31	1,185.65	1,105.92	79.73	14.871	
10,729.08	10,175.00	12,457.04	9,360.00	32.02	69.21	-45.841	1,757.26	1,363.39	1,185.65	1,105.22	80.43	14.741	
10,800.00	10,175.00	12,527.96	9,360.00	32.46	70.61	-45.840	1,757.47	1,434.30	1,185.64	1,103.50	82.14	14.434	
10,829.37	10,175.00	12,557.33	9,360.00	32.68	71.19	-45.840	1,757.56	1,463.67	1,185.64	1,102.77	82.87	14.307	
10,900.00	10,175.00	12,627.96	9,360.00	33.22	72.59	-45.840	1,757.76	1,534.30	1,185.64	1,101.02	84.62	14.012	
10,929.37	10,175.00	12,657.33	9,360.00	33.47	73.18	-45.840	1,757.85	1,563.67	1,185.64	1,100.28	85.36	13.890	
11,000.00	10,175.00	12,727.96	9,360.00	34.11	74.58	-45.840	1,758.06	1,634.30	1,185.64	1,098.49	87.14	13.606	
11,029.37	10,175.00	12,757.33	9,360.00	34.41	75.16	-45.840	1,758.14	1,663.67	1,185.63	1,097.74	87.90	13.489	
11,100.00	10,175.00	12,827.96	9,360.00	35.14	76.57	-45.840	1,758.35	1,734.30	1,185.63	1,095.92	89.72	13.215	
11,129.37	10,175.00	12,857.33	9,360.00	35.48	77.16	-45.840	1,758.44	1,763.67	1,185.63	1,095.15	90.48	13.103	
11,200.00	10,175.00	12,927.96	9,360.00	36.30	78.57	-45.840	1,758.64	1,834.30	1,185.63	1,093.29	92.33	12.841	
11,229.37	10,175.00	12,957.33	9,360.00	36.67	79.15	-45.840	1,758.73	1,863.67	1,185.63	1,092.51	93.11	12.733	
11,300.00	10,175.00	13,027.96	9,360.00	37.57	80.57	-45.839	1,758.93	1,934.30	1,185.62	1,090.63	94.99	12.481	
11,329.37	10,175.00	13,057.33	9,360.00	37.97	81.16	-45.839	1,759.02	1,963.67	1,185.62	1,089.84	95.78	12.378	
11,400.00	10,175.00	13,127.96	9,360.00	38.94	82.57	-45.839	1,759.23	2,034.30	1,185.62	1,087.93	97.69	12.137	
11,429.37	10,175.00	13,157.33	9,360.00	39.37	83.16	-45.839	1,759.31	2,063.67	1,185.62	1,087.13	98.49	12.038	
11,500.00	10,175.00	13,227.96	9,360.00	40.39	84.58	-45.839	1,759.52	2,134.30	1,185.62	1,085.20	100.41	11.807	
11,529.37	10,175.00	13,257.33	9,360.00	40.84	85.17	-45.839	1,759.61	2,163.67	1,185.61	1,084.39	101.22	11.713	
11,600.00	10,175.00	13,327.96	9,360.00	41.92	86.59	-45.839	1,759.81	2,234.30	1,185.61	1,082.44	103.17	11.492	
11,629.37	10,175.00	13,357.33	9,360.00	42.38	87.18	-45.839	1,759.90	2,263.67	1,185.61	1,081.62	103.99	11.401	
11,700.00	10,175.00	13,427.96	9,360.00	43.50	88.60	-45.839	1,760.11	2,334.30	1,185.61	1,079.65	105.96	11.189	
11,729.37	10,175.00	13,457.33	9,360.00	43.98	89.19	-45.839	1,760.19	2,363.67	1,185.61	1,078.82	106.78	11.103	
11,800.00	10,175.00	13,527.96	9,360.00	45.13	90.61	-45.838	1,760.40	2,434.30	1,185.60	1,076.84	108.77	10.900	
11,829.37	10,175.00	13,557.33	9,360.00	45.63	91.21	-45.838	1,760.48	2,463.67	1,185.60	1,076.00	109.60	10.818	
11,900.00	10,175.00	13,627.96	9,360.00	46.81	92.63	-45.838	1,760.69	2,534.30	1,185.60	1,074.00	111.60	10.624	
11,929.37	10,175.00	13,657.33	9,360.00	47.31	93.22	-45.838	1,760.78	2,563.67	1,185.60	1,073.16	112.44	10.544	
12,000.00	10,175.00	13,727.96	9,360.00	48.53	94.65	-45.838	1,760.98	2,634.30	1,185.60	1,071.14	114.45	10.359	
12,029.37	10,175.00	13,757.33	9,360.00	49.04	95.24	-45.838	1,761.07	2,663.67	1,185.59	1,070.30	115.30	10.283	
12,100.00	10,175.00	13,827.96	9,360.00	50.27	96.67	-45.838	1,761.28	2,734.30	1,185.59	1,068.26	117.33	10.105	
12,129.37	10,175.00	13,857.33	9,360.00	50.79	97.27	-45.838	1,761.36	2,763.67	1,185.59	1,067.41	118.18	10.032	
12,200.00	10,175.00	13,927.96	9,360.00	52.05	98.70	-45.838	1,761.57	2,834.30	1,185.59	1,065.37	120.22	9.862	
12,229.37	10,175.00	13,957.33	9,360.00	52.57	99.29	-45.838	1,761.65	2,863.67	1,185.59	1,064.51	121.07	9.792	
12,300.00	10,175.00	14,027.96	9,360.00	53.85	100.72	-45.838	1,761.86	2,934.30	1,185.58	1,062.46	123.12	9.629	
12,329.37	10,175.00	14,057.33	9,360.00	54.38	101.32	-45.837	1,761.95	2,963.67	1,185.58	1,061.60	123.98	9.563	
12,400.00	10,175.00	14,127.96	9,360.00	55.67	102.75	-45.837	1,762.15	3,034.30	1,185.58	1,059.53	126.05	9.406	
12,429.37	10,175.00	14,157.33	9,360.00	56.21	103.34	-45.837	1,762.24	3,063.67	1,185.58	1,058.67	126.91	9.342	
12,500.00	10,175.00	14,227.96	9,360.00	57.51	104.78	-45.837	1,762.45	3,134.30	1,185.57	1,056.59	128.98	9.192	
12,529.37	10,175.00	14,257.33	9,360.00	58.05	105.37	-45.837	1,762.53	3,163.67	1,185.57	1,055.73	129.85	9.131	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
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	
12,600.00	10,175.00	14,327.96	9,360.00	59.36	106.81	-45.837	1,762.74	3,234.30	1,185.57	1,053.64	131.93	8.986	
12,629.37	10,175.00	14,357.33	9,360.00	59.91	107.40	-45.837	1,762.82	3,263.67	1,185.57	1,052.77	132.80	8.928	
12,700.00	10,175.00	14,427.96	9,360.00	61.23	108.84	-45.837	1,763.03	3,334.30	1,185.57	1,050.68	134.89	8.789	
12,729.37	10,175.00	14,457.33	9,360.00	61.79	109.44	-45.837	1,763.12	3,363.67	1,185.57	1,049.81	135.76	8.733	
12,800.00	10,175.00	14,527.96	9,360.00	63.12	110.87	-45.837	1,763.32	3,434.30	1,185.56	1,047.70	137.86	8.600	
12,829.37	10,175.00	14,557.33	9,360.00	63.68	111.47	-45.837	1,763.41	3,463.67	1,185.56	1,046.83	138.73	8.546	
12,900.00	10,175.00	14,627.96	9,360.00	65.02	112.91	-45.836	1,763.62	3,534.30	1,185.56	1,044.72	140.84	8.418	
12,929.37	10,175.00	14,657.33	9,360.00	65.58	113.51	-45.836	1,763.70	3,563.66	1,185.56	1,043.84	141.72	8.366	
13,000.00	10,175.00	14,727.96	9,360.00	66.92	114.94	-45.836	1,763.91	3,634.30	1,185.55	1,041.73	143.83	8.243	
13,029.37	10,175.00	14,757.33	9,360.00	67.49	115.54	-45.836	1,763.99	3,663.66	1,185.55	1,040.85	144.71	8.193	
13,100.00	10,175.00	14,827.96	9,360.00	68.84	116.98	-45.836	1,764.20	3,734.30	1,185.55	1,038.72	146.83	8.075	
13,129.37	10,175.00	14,857.33	9,360.00	69.41	117.58	-45.836	1,764.29	3,763.66	1,185.55	1,037.84	147.71	8.026	
13,200.00	10,175.00	14,927.96	9,360.00	70.77	119.02	-45.836	1,764.49	3,834.29	1,185.55	1,035.71	149.83	7.912	
13,229.37	10,175.00	14,957.33	9,360.00	71.34	119.62	-45.836	1,764.58	3,863.66	1,185.55	1,034.83	150.72	7.866	
13,300.00	10,175.00	15,027.96	9,360.00	72.71	121.06	-45.836	1,764.79	3,934.29	1,185.54	1,032.70	152.85	7.756	
13,329.37	10,175.00	15,057.33	9,360.00	73.28	121.66	-45.836	1,764.87	3,963.66	1,185.54	1,031.81	153.73	7.712	
13,400.00	10,175.00	15,127.96	9,360.00	74.65	123.10	-45.835	1,765.08	4,034.29	1,185.54	1,029.67	155.87	7.606	
13,429.37	10,175.00	15,157.33	9,360.00	75.22	123.70	-45.835	1,765.16	4,063.66	1,185.54	1,028.78	156.76	7.563	
13,500.00	10,175.00	15,227.96	9,360.00	76.60	125.14	-45.835	1,765.37	4,134.29	1,185.53	1,026.64	158.89	7.461	
13,529.37	10,175.00	15,257.33	9,360.00	77.17	125.74	-45.835	1,765.46	4,163.66	1,185.53	1,025.75	159.79	7.420	
13,600.00	10,175.00	15,327.96	9,360.00	78.56	127.18	-45.835	1,765.66	4,234.29	1,185.53	1,023.60	161.93	7.321	
13,629.37	10,175.00	15,357.33	9,360.00	79.13	127.78	-45.835	1,765.75	4,263.66	1,185.53	1,022.71	162.82	7.281	
13,700.00	10,175.00	15,427.96	9,360.00	80.52	129.23	-45.835	1,765.96	4,334.29	1,185.53	1,020.56	164.97	7.186	
13,729.37	10,175.00	15,457.33	9,360.00	81.10	129.83	-45.835	1,766.04	4,363.66	1,185.52	1,019.66	165.86	7.148	
13,800.00	10,175.00	15,527.96	9,360.00	82.49	131.27	-45.835	1,766.25	4,434.29	1,185.52	1,017.51	168.01	7.056	
13,829.37	10,175.00	15,557.33	9,360.00	83.06	131.87	-45.835	1,766.33	4,463.66	1,185.52	1,016.61	168.91	7.019	
13,900.00	10,175.00	15,627.96	9,360.00	84.46	133.32	-45.834	1,766.54	4,534.29	1,185.52	1,014.46	171.06	6.930	
13,929.37	10,175.00	15,657.33	9,360.00	85.04	133.92	-45.834	1,766.63	4,563.66	1,185.52	1,013.56	171.96	6.894	
14,000.00	10,175.00	15,727.96	9,360.00	86.44	135.36	-45.834	1,766.83	4,634.29	1,185.51	1,011.40	174.12	6.809	
14,029.37	10,175.00	15,757.33	9,360.00	87.02	135.96	-45.834	1,766.92	4,663.66	1,185.51	1,010.50	175.02	6.774	
14,100.00	10,175.00	15,827.96	9,360.00	88.42	137.41	-45.834	1,767.13	4,734.29	1,185.51	1,008.33	177.18	6.691	
14,129.37	10,175.00	15,857.33	9,360.00	89.00	138.01	-45.834	1,767.21	4,763.66	1,185.51	1,007.43	178.08	6.657	
14,200.00	10,175.00	15,927.96	9,360.00	90.40	139.46	-45.834	1,767.42	4,834.29	1,185.51	1,005.27	180.24	6.577	
14,229.37	10,175.00	15,957.33	9,360.00	90.99	140.06	-45.834	1,767.50	4,863.66	1,185.50	1,004.36	181.14	6.545	
14,300.00	10,175.00	16,027.96	9,360.00	92.39	141.50	-45.834	1,767.71	4,934.29	1,185.50	1,002.19	183.31	6.467	
14,329.37	10,175.00	16,057.33	9,360.00	92.98	142.11	-45.834	1,767.80	4,963.66	1,185.50	1,001.29	184.21	6.436	
14,400.00	10,175.00	16,127.96	9,360.00	94.39	143.55	-45.834	1,768.00	5,034.29	1,185.50	999.12	186.38	6.361	
14,429.37	10,175.00	16,157.33	9,360.00	94.97	144.15	-45.833	1,768.09	5,063.66	1,185.50	998.21	187.28	6.330	
14,500.00	10,175.00	16,227.96	9,360.00	96.38	145.60	-45.833	1,768.30	5,134.29	1,185.49	996.04	189.45	6.257	
14,529.37	10,175.00	16,257.33	9,360.00	96.97	146.20	-45.833	1,768.38	5,163.66	1,185.49	995.13	190.36	6.228	
14,600.00	10,175.00	16,327.96	9,360.00	98.38	147.65	-45.833	1,768.59	5,234.29	1,185.49	992.96	192.53	6.157	
14,629.37	10,175.00	16,357.33	9,360.00	98.97	148.25	-45.833	1,768.68	5,263.66	1,185.49	992.05	193.44	6.129	
14,700.00	10,175.00	16,427.96	9,360.00	100.38	149.70	-45.833	1,768.88	5,334.29	1,185.49	989.87	195.61	6.060	
14,729.37	10,175.00	16,457.33	9,360.00	100.97	150.30	-45.833	1,768.97	5,363.66	1,185.48	988.96	196.52	6.032	
14,800.00	10,175.00	16,527.96	9,360.00	102.39	151.75	-45.833	1,769.17	5,434.29	1,185.48	986.78	198.70	5.966	
14,829.37	10,175.00	16,557.33	9,360.00	102.98	152.36	-45.833	1,769.26	5,463.66	1,185.48	985.87	199.61	5.939	
14,900.00	10,175.00	16,627.96	9,360.00	104.40	153.80	-45.833	1,769.47	5,534.29	1,185.48	983.69	201.79	5.875	
14,929.37	10,175.00	16,657.33	9,360.00	104.99	154.41	-45.833	1,769.55	5,563.66	1,185.48	982.78	202.69	5.849	
15,000.00	10,175.00	16,727.96	9,360.00	106.41	155.86	-45.832	1,769.76	5,634.29	1,185.47	980.60	204.88	5.786	
15,029.37	10,175.00	16,757.33	9,360.00	107.00	156.46	-45.832	1,769.85	5,663.66	1,185.47	979.69	205.79	5.761	
15,100.00	10,175.00	16,827.96	9,360.00	108.42	157.91	-45.832	1,770.05	5,734.29	1,185.47	977.50	207.97	5.700	
15,129.37	10,175.00	16,857.33	9,360.00	109.01	158.51	-45.832	1,770.14	5,763.66	1,185.47	976.59	208.88	5.675	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
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)		
15,200.00	10,175.00	16,927.96	9,360.00	110.43	159.96	-45.832	1,770.34	5,834.29	1,185.47	974.40	211.07	5.617	
15,229.37	10,175.00	16,957.33	9,360.00	111.02	160.56	-45.832	1,770.43	5,863.66	1,185.46	973.49	211.98	5.592	
15,300.00	10,175.00	17,027.96	9,360.00	112.45	162.01	-45.832	1,770.64	5,934.29	1,185.46	971.30	214.16	5.535	
15,329.37	10,175.00	17,057.33	9,360.00	113.04	162.62	-45.832	1,770.72	5,963.65	1,185.46	970.38	215.07	5.512	
15,400.00	10,175.00	17,127.96	9,360.00	114.47	164.07	-45.832	1,770.93	6,034.29	1,185.46	968.19	217.26	5.456	
15,429.37	10,175.00	17,157.33	9,360.00	115.06	164.67	-45.832	1,771.02	6,063.65	1,185.46	967.28	218.18	5.433	
15,500.00	10,175.00	17,227.96	9,360.00	116.49	166.12	-45.831	1,771.22	6,134.28	1,185.45	965.09	220.37	5.379	
15,529.37	10,175.00	17,257.33	9,360.00	117.08	166.73	-45.831	1,771.31	6,163.65	1,185.45	964.17	221.28	5.357	
15,600.00	10,175.00	17,327.96	9,360.00	118.51	168.18	-45.831	1,771.51	6,234.28	1,185.45	961.98	223.47	5.305	
15,629.37	10,175.00	17,357.33	9,360.00	119.10	168.78	-45.831	1,771.60	6,263.65	1,185.45	961.06	224.38	5.283	
15,700.00	10,175.00	17,427.96	9,360.00	120.53	170.23	-45.831	1,771.81	6,334.28	1,185.44	958.87	226.58	5.232	
15,729.37	10,175.00	17,457.33	9,360.00	121.13	170.83	-45.831	1,771.89	6,363.65	1,185.44	957.95	227.49	5.211	
15,800.00	10,175.00	17,527.96	9,360.00	122.56	172.29	-45.831	1,772.10	6,434.28	1,185.44	955.75	229.69	5.161	
15,829.37	10,175.00	17,557.33	9,360.00	123.15	172.89	-45.831	1,772.19	6,463.65	1,185.44	954.84	230.60	5.141	
15,900.00	10,175.00	17,627.96	9,360.00	124.58	174.34	-45.831	1,772.39	6,534.28	1,185.44	952.64	232.80	5.092	
15,929.37	10,175.00	17,657.33	9,360.00	125.18	174.95	-45.831	1,772.48	6,563.65	1,185.44	951.72	233.71	5.072	
16,000.00	10,175.00	17,727.96	9,360.00	126.61	176.40	-45.830	1,772.69	6,634.28	1,185.43	949.52	235.91	5.025	
16,029.37	10,175.00	17,757.33	9,360.00	127.21	177.00	-45.830	1,772.77	6,663.65	1,185.43	948.61	236.82	5.006	
16,100.00	10,175.00	17,827.96	9,360.00	128.64	178.45	-45.830	1,772.98	6,734.28	1,185.43	946.41	239.02	4.959	
16,129.37	10,175.00	17,857.33	9,360.00	129.24	179.06	-45.830	1,773.06	6,763.65	1,185.43	945.49	239.94	4.941	
16,200.00	10,175.00	17,927.96	9,360.00	130.67	180.51	-45.830	1,773.27	6,834.28	1,185.42	943.29	242.14	4.896	
16,229.37	10,175.00	17,957.33	9,360.00	131.27	181.11	-45.830	1,773.36	6,863.65	1,185.42	942.37	243.05	4.877	
16,300.00	10,175.00	18,027.96	9,360.00	132.70	182.57	-45.830	1,773.56	6,934.28	1,185.42	940.17	245.25	4.833	
16,329.37	10,175.00	18,057.33	9,360.00	133.30	183.17	-45.830	1,773.65	6,963.65	1,185.42	939.25	246.17	4.815	
16,400.00	10,175.00	18,127.96	9,360.00	134.74	184.62	-45.830	1,773.86	7,034.28	1,185.42	937.04	248.37	4.773	
16,429.37	10,175.00	18,157.33	9,360.00	135.33	185.23	-45.830	1,773.94	7,063.65	1,185.42	936.13	249.29	4.755	
16,500.00	10,175.00	18,227.96	9,360.00	136.77	186.68	-45.830	1,774.15	7,134.28	1,185.41	933.92	251.49	4.714	
16,529.37	10,175.00	18,257.33	9,360.00	137.37	187.29	-45.829	1,774.23	7,163.65	1,185.41	933.00	252.41	4.696	
16,600.00	10,175.00	18,327.96	9,360.00	138.80	188.74	-45.829	1,774.44	7,234.28	1,185.41	930.80	254.61	4.656	
16,629.37	10,175.00	18,357.33	9,360.00	139.40	189.34	-45.829	1,774.53	7,263.65	1,185.41	929.88	255.53	4.639	
16,700.00	10,175.00	18,427.96	9,360.00	140.84	190.80	-45.829	1,774.73	7,334.28	1,185.40	927.67	257.73	4.599	
16,729.37	10,175.00	18,457.33	9,360.00	141.44	191.40	-45.829	1,774.82	7,363.65	1,185.40	926.75	258.65	4.583	
16,800.00	10,175.00	18,527.96	9,360.00	142.88	192.85	-45.829	1,775.03	7,434.28	1,185.40	924.54	260.86	4.544	
16,829.37	10,175.00	18,557.33	9,360.00	143.48	193.46	-45.829	1,775.11	7,463.65	1,185.40	923.62	261.78	4.528	
16,900.00	10,175.00	18,627.96	9,360.00	144.92	194.91	-45.829	1,775.32	7,534.28	1,185.40	921.41	263.98	4.490	
16,929.37	10,175.00	18,657.33	9,360.00	145.51	195.52	-45.829	1,775.40	7,563.65	1,185.39	920.49	264.90	4.475	
17,000.00	10,175.00	18,727.96	9,360.00	146.95	196.97	-45.829	1,775.61	7,634.28	1,185.39	918.28	267.11	4.438	
17,029.37	10,175.00	18,757.33	9,360.00	147.55	197.58	-45.829	1,775.70	7,663.65	1,185.39	917.36	268.03	4.423	
17,100.00	10,175.00	18,827.96	9,360.00	148.99	199.03	-45.828	1,775.90	7,734.28	1,185.39	915.15	270.24	4.387	
17,129.37	10,175.00	18,857.33	9,360.00	149.59	199.64	-45.828	1,775.99	7,763.65	1,185.39	914.23	271.15	4.372	
17,200.00	10,175.00	18,927.96	9,360.00	151.03	201.09	-45.828	1,776.20	7,834.28	1,185.38	912.02	273.36	4.336	
17,229.37	10,175.00	18,957.33	9,360.00	151.63	201.69	-45.828	1,776.28	7,863.65	1,185.38	911.10	274.28	4.322	
17,300.00	10,175.00	19,027.96	9,360.00	153.08	203.15	-45.828	1,776.49	7,934.28	1,185.38	908.89	276.49	4.287	
17,329.37	10,175.00	19,057.33	9,360.00	153.68	203.75	-45.828	1,776.57	7,963.65	1,185.38	907.97	277.41	4.273	
17,400.00	10,175.00	19,127.96	9,360.00	155.12	205.21	-45.828	1,776.78	8,034.28	1,185.38	905.75	279.62	4.239	
17,429.37	10,175.00	19,157.33	9,360.00	155.72	205.81	-45.828	1,776.87	8,063.65	1,185.37	904.83	280.54	4.225	
17,500.00	10,175.00	19,227.96	9,360.00	157.16	207.27	-45.828	1,777.07	8,134.28	1,185.37	902.62	282.75	4.192	
17,529.37	10,175.00	19,257.33	9,360.00	157.76	207.87	-45.828	1,777.16	8,163.65	1,185.37	901.70	283.67	4.179	
17,600.00	10,175.00	19,327.96	9,360.00	159.20	209.33	-45.827	1,777.37	8,234.28	1,185.37	899.48	285.88	4.146	
17,629.37	10,175.00	19,357.33	9,360.00	159.80	209.93	-45.827	1,777.45	8,263.64	1,185.37	898.56	286.80	4.133	
17,700.00	10,175.00	19,427.96	9,360.00	161.25	211.39	-45.827	1,777.66	8,334.28	1,185.36	896.35	289.02	4.101	
17,729.37	10,175.00	19,457.33	9,360.00	161.85	211.99	-45.827	1,777.74	8,363.64	1,185.36	895.42	289.94	4.088	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
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)		
17,800.00	10,175.00	19,527.96	9,360.00	163.29	213.45	-45.827	1,777.95	8,434.28	1,185.36	893.21	292.15	4.057	
17,829.37	10,175.00	19,557.33	9,360.00	163.89	214.05	-45.827	1,778.04	8,463.64	1,185.36	892.29	293.07	4.045	
17,900.00	10,175.00	19,627.96	9,360.00	165.34	215.51	-45.827	1,778.24	8,534.27	1,185.36	890.07	295.29	4.014	
17,929.37	10,175.00	19,657.33	9,360.00	165.94	216.11	-45.827	1,778.33	8,563.64	1,185.35	889.15	296.21	4.002	
18,000.00	10,175.00	19,727.96	9,360.00	167.38	217.57	-45.827	1,778.54	8,634.27	1,185.35	886.93	298.42	3.972	
18,029.37	10,175.00	19,757.33	9,360.00	167.99	218.18	-45.827	1,778.62	8,663.64	1,185.35	886.01	299.34	3.960	
18,100.00	10,175.00	19,827.96	9,360.00	169.43	219.63	-45.826	1,778.83	8,734.27	1,185.35	883.79	301.56	3.931	
18,129.37	10,175.00	19,857.33	9,360.00	170.03	220.24	-45.826	1,778.91	8,763.64	1,185.35	882.87	302.48	3.919	
18,200.00	10,175.00	19,927.96	9,360.00	171.48	221.69	-45.826	1,779.12	8,834.27	1,185.34	880.65	304.69	3.890	
18,229.37	10,175.00	19,957.33	9,360.00	172.08	222.30	-45.826	1,779.21	8,863.64	1,185.34	879.73	305.61	3.879	
18,300.00	10,175.00	20,027.96	9,360.00	173.53	223.75	-45.826	1,779.41	8,934.27	1,185.34	877.51	307.83	3.851	
18,329.37	10,175.00	20,057.33	9,360.00	174.13	224.36	-45.826	1,779.50	8,963.64	1,185.34	876.59	308.75	3.839	
18,400.00	10,175.00	20,127.96	9,360.00	175.57	225.81	-45.826	1,779.71	9,034.27	1,185.34	874.37	310.97	3.812	
18,429.37	10,175.00	20,157.33	9,360.00	176.18	226.42	-45.826	1,779.79	9,063.64	1,185.33	873.44	311.89	3.800	
18,500.00	10,175.00	20,227.96	9,360.00	177.62	227.88	-45.826	1,780.00	9,134.27	1,185.33	871.22	314.11	3.774	
18,529.37	10,175.00	20,257.33	9,360.00	178.22	228.48	-45.826	1,780.08	9,163.64	1,185.33	870.30	315.03	3.763	
18,600.00	10,175.00	20,327.96	9,360.00	179.67	229.94	-45.826	1,780.29	9,234.27	1,185.33	868.08	317.25	3.736	
18,629.37	10,175.00	20,357.33	9,360.00	180.27	230.54	-45.825	1,780.38	9,263.64	1,185.33	867.16	318.17	3.725	
18,700.00	10,175.00	20,427.96	9,360.00	181.72	232.00	-45.825	1,780.58	9,334.27	1,185.32	864.94	320.39	3.700	
18,729.37	10,175.00	20,457.33	9,360.00	182.32	232.61	-45.825	1,780.67	9,363.64	1,185.32	864.01	321.31	3.689	
18,800.00	10,175.00	20,527.96	9,360.00	183.77	234.06	-45.825	1,780.88	9,434.27	1,185.32	861.79	323.53	3.664	
18,829.37	10,175.00	20,557.33	9,360.00	184.37	234.67	-45.825	1,780.96	9,463.64	1,185.32	860.87	324.45	3.653	
18,900.00	10,175.00	20,627.96	9,360.00	185.82	236.12	-45.825	1,781.17	9,534.27	1,185.31	858.65	326.67	3.628	
18,929.37	10,175.00	20,657.33	9,360.00	186.42	236.73	-45.825	1,781.26	9,563.64	1,185.31	857.72	327.59	3.618	
19,000.00	10,175.00	20,727.96	9,360.00	187.87	238.19	-45.825	1,781.46	9,634.27	1,185.31	855.50	329.81	3.594	
19,029.37	10,175.00	20,757.33	9,360.00	188.47	238.79	-45.825	1,781.55	9,663.64	1,185.31	854.58	330.73	3.584	
19,100.00	10,175.00	20,827.96	9,360.00	189.92	240.25	-45.825	1,781.75	9,734.27	1,185.31	852.35	332.95	3.560	
19,129.37	10,175.00	20,857.33	9,360.00	190.53	240.85	-45.825	1,781.84	9,763.64	1,185.31	851.43	333.88	3.550	
19,200.00	10,175.00	20,927.96	9,360.00	191.98	242.31	-45.824	1,782.05	9,834.27	1,185.30	849.21	336.10	3.527	
19,229.37	10,175.00	20,957.33	9,360.00	192.58	242.92	-45.824	1,782.13	9,863.64	1,185.30	848.28	337.02	3.517	
19,300.00	10,175.00	21,027.96	9,360.00	194.03	244.37	-45.824	1,782.34	9,934.27	1,185.30	846.06	339.24	3.494	
19,329.37	10,175.00	21,057.33	9,360.00	194.63	244.98	-45.824	1,782.43	9,963.64	1,185.30	845.13	340.16	3.485	
19,400.00	10,175.00	21,127.96	9,360.00	196.08	246.44	-45.824	1,782.63	10,034.27	1,185.29	842.91	342.38	3.462	
19,429.37	10,175.00	21,157.33	9,360.00	196.68	247.04	-45.824	1,782.72	10,063.64	1,185.29	841.99	343.31	3.453	
19,500.00	10,175.00	21,227.96	9,360.00	198.13	248.50	-45.824	1,782.92	10,134.27	1,185.29	839.76	345.53	3.430	
19,529.37	10,175.00	21,257.33	9,360.00	198.74	249.11	-45.824	1,783.01	10,163.64	1,185.29	838.84	346.45	3.421	
19,600.00	10,175.00	21,327.96	9,360.00	200.19	250.56	-45.824	1,783.22	10,234.27	1,185.29	836.61	348.67	3.399	
19,629.37	10,175.00	21,357.33	9,360.00	200.79	251.17	-45.824	1,783.30	10,263.64	1,185.29	835.69	349.60	3.390	
19,700.00	10,175.00	21,427.96	9,360.00	202.24	252.63	-45.823	1,783.51	10,334.27	1,185.28	833.46	351.82	3.369	
19,729.37	10,175.00	21,457.33	9,360.00	202.84	253.23	-45.823	1,783.60	10,363.64	1,185.28	832.54	352.74	3.360	
19,800.00	10,175.00	21,527.96	9,360.00	204.29	254.69	-45.823	1,783.80	10,434.27	1,185.28	830.31	354.96	3.339	
19,829.37	10,175.00	21,557.33	9,360.00	204.90	255.29	-45.823	1,783.89	10,463.64	1,185.28	829.39	355.89	3.330	
19,900.00	10,175.00	21,627.96	9,360.00	206.35	256.75	-45.823	1,784.09	10,534.27	1,185.27	827.16	358.11	3.310	
19,929.37	10,175.00	21,657.33	9,360.00	206.95	257.36	-45.823	1,784.18	10,563.64	1,185.27	826.24	359.03	3.301	
20,000.00	10,175.00	21,727.96	9,360.00	208.40	258.82	-45.823	1,784.39	10,634.27	1,185.27	824.01	361.26	3.281	
20,029.37	10,175.00	21,757.33	9,360.00	209.01	259.42	-45.823	1,784.47	10,663.63	1,185.27	823.09	362.18	3.273	
20,100.00	10,175.00	21,827.96	9,360.00	210.46	260.88	-45.823	1,784.68	10,734.27	1,185.27	820.86	364.40	3.253	
20,129.37	10,175.00	21,857.33	9,360.00	211.06	261.48	-45.823	1,784.77	10,763.63	1,185.26	819.94	365.33	3.244	
20,200.00	10,175.00	21,927.96	9,360.00	212.51	262.94	-45.822	1,784.97	10,834.26	1,185.26	817.71	367.55	3.225	
20,229.37	10,175.00	21,957.33	9,360.00	213.11	263.55	-45.822	1,785.06	10,863.63	1,185.26	816.79	368.48	3.217	
20,300.00	10,175.00	22,027.96	9,360.00	214.57	265.01	-45.822	1,785.26	10,934.26	1,185.26	814.56	370.70	3.197	
20,329.37	10,175.00	22,057.33	9,360.00	215.17	265.61	-45.822	1,785.35	10,963.63	1,185.26	813.63	371.62	3.189	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
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	
20,400.00	10,175.00	22,127.96	9,360.00	216.62	267.07	-45.822	1,785.56	11,034.26	1,185.25	811.41	373.85	3.170	
20,429.37	10,175.00	22,157.33	9,360.00	217.23	267.68	-45.822	1,785.64	11,063.63	1,185.25	810.48	374.77	3.163	
20,500.00	10,175.00	22,227.96	9,360.00	218.68	269.13	-45.822	1,785.85	11,134.26	1,185.25	808.25	377.00	3.144	
20,529.37	10,175.00	22,257.33	9,360.00	219.28	269.74	-45.822	1,785.94	11,163.63	1,185.25	807.33	377.92	3.136	
20,600.00	10,175.00	22,327.96	9,360.00	220.73	271.20	-45.822	1,786.14	11,234.26	1,185.25	805.10	380.15	3.118	
20,629.37	10,175.00	22,357.33	9,360.00	221.34	271.80	-45.822	1,786.23	11,263.63	1,185.24	804.17	381.07	3.110	
20,700.00	10,175.00	22,427.96	9,360.00	222.79	273.26	-45.822	1,786.44	11,334.26	1,185.24	801.95	383.29	3.092	
20,729.37	10,175.00	22,457.33	9,360.00	223.39	273.87	-45.821	1,786.52	11,363.63	1,185.24	801.02	384.22	3.085	
20,800.00	10,175.00	22,527.96	9,360.00	224.85	275.33	-45.821	1,786.73	11,434.26	1,185.24	798.79	386.44	3.067	
20,829.37	10,175.00	22,557.33	9,360.00	225.45	275.93	-45.821	1,786.81	11,463.63	1,185.24	797.87	387.37	3.060	
20,900.00	10,175.00	22,627.96	9,360.00	226.90	277.39	-45.821	1,787.02	11,534.26	1,185.23	795.64	389.59	3.042	
20,929.37	10,175.00	22,657.33	9,360.00	227.51	278.00	-45.821	1,787.11	11,563.63	1,185.23	794.71	390.52	3.035	
21,000.00	10,175.00	22,727.96	9,360.00	228.96	279.45	-45.821	1,787.31	11,634.26	1,185.23	792.49	392.74	3.018	
21,029.37	10,175.00	22,757.33	9,360.00	229.56	280.06	-45.821	1,787.40	11,663.63	1,185.23	791.56	393.67	3.011	
21,043.30	10,175.00	22,771.25	9,360.00	229.85	280.35	-45.821	1,787.44	11,677.56	1,185.23	791.12	394.11	3.007	
21,046.64	10,175.00	22,771.47	9,360.00	229.92	280.35	-45.821	1,787.44	11,677.77	1,185.23	791.07	394.16	3.007 SF	



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
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	
20,200.00	10,175.00	22,733.13	10,175.00	212.51	263.04	-89.644	2,614.96	10,831.84	1,680.08	1,204.46	475.61	3.532	
20,229.63	10,175.00	22,762.76	10,175.00	213.12	263.65	-89.644	2,615.05	10,861.47	1,680.07	1,203.24	476.83	3.523	
20,300.00	10,175.00	22,833.13	10,175.00	214.57	265.10	-89.644	2,615.25	10,931.84	1,680.07	1,200.34	479.73	3.502	
20,329.63	10,175.00	22,862.76	10,175.00	215.18	265.72	-89.644	2,615.34	10,961.47	1,680.07	1,199.11	480.95	3.493	
20,400.00	10,175.00	22,933.13	10,175.00	216.62	267.17	-89.644	2,615.55	11,031.84	1,680.06	1,196.21	483.85	3.472	
20,429.63	10,175.00	22,962.76	10,175.00	217.23	267.78	-89.644	2,615.63	11,061.47	1,680.06	1,194.99	485.07	3.464	
20,500.00	10,175.00	23,033.13	10,175.00	218.68	269.23	-89.644	2,615.84	11,131.84	1,680.06	1,192.09	487.97	3.443	
20,529.63	10,175.00	23,062.76	10,175.00	219.29	269.84	-89.644	2,615.93	11,161.47	1,680.06	1,190.86	489.19	3.434	
20,600.00	10,175.00	23,133.13	10,175.00	220.73	271.30	-89.644	2,616.13	11,231.84	1,680.05	1,187.96	492.09	3.414	
20,629.63	10,175.00	23,162.76	10,175.00	221.34	271.91	-89.644	2,616.22	11,261.47	1,680.05	1,186.74	493.31	3.406	
20,700.00	10,175.00	23,233.13	10,175.00	222.79	273.36	-89.644	2,616.42	11,331.84	1,680.05	1,183.83	496.21	3.386	
20,729.63	10,175.00	23,262.76	10,175.00	223.40	273.97	-89.644	2,616.51	11,361.47	1,680.05	1,182.61	497.43	3.377	
20,800.00	10,175.00	23,333.13	10,175.00	224.85	275.42	-89.644	2,616.72	11,431.83	1,680.04	1,179.71	500.33	3.358	
20,829.63	10,175.00	23,362.76	10,175.00	225.46	276.04	-89.644	2,616.80	11,461.47	1,680.04	1,178.49	501.55	3.350	
20,900.00	10,175.00	23,433.13	10,175.00	226.90	277.49	-89.644	2,617.01	11,531.83	1,680.04	1,175.58	504.45	3.330	
20,929.63	10,175.00	23,462.76	10,175.00	227.51	278.10	-89.644	2,617.10	11,561.47	1,680.03	1,174.36	505.68	3.322	
21,000.00	10,175.00	23,533.13	10,175.00	228.96	279.55	-89.644	2,617.30	11,631.83	1,680.03	1,171.45	508.58	3.303	
21,029.63	10,175.00	23,562.76	10,175.00	229.57	280.16	-89.644	2,617.39	11,661.47	1,680.03	1,170.23	509.80	3.295	
21,040.54	10,175.00	23,573.59	10,175.00	229.79	280.39	-89.644	2,617.42	11,672.29	1,680.03	1,169.78	510.24	3.293 CC	
21,046.64	10,175.00	23,573.59	10,175.00	229.92	280.39	-89.644	2,617.42	11,672.29	1,680.04	1,169.66	510.38	3.292 ES, SF	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
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	
19,100.00	10,175.00	19,875.56	8,418.00	189.92	240.73	-27.516	1,851.75	9,734.07	1,991.59	1,739.90	251.69	7.913	
19,129.37	10,175.00	19,904.93	8,418.00	190.53	241.34	-27.516	1,851.83	9,763.43	1,991.59	1,739.21	252.38	7.891	
19,200.00	10,175.00	19,975.56	8,418.00	191.98	242.79	-27.516	1,852.04	9,834.07	1,991.59	1,737.55	254.04	7.840	
19,229.37	10,175.00	20,004.93	8,418.00	192.58	243.40	-27.516	1,852.12	9,863.43	1,991.59	1,736.87	254.73	7.819	
19,300.00	10,175.00	20,075.56	8,418.00	194.03	244.85	-27.516	1,852.33	9,934.06	1,991.59	1,735.21	256.38	7.768	
19,329.37	10,175.00	20,104.93	8,418.00	194.63	245.46	-27.516	1,852.42	9,963.43	1,991.59	1,734.52	257.07	7.747	
19,400.00	10,175.00	20,175.56	8,418.00	196.08	246.91	-27.515	1,852.62	10,034.06	1,991.59	1,732.86	258.73	7.698	
19,429.37	10,175.00	20,204.93	8,418.00	196.68	247.52	-27.515	1,852.71	10,063.43	1,991.58	1,732.17	259.41	7.677	
19,500.00	10,175.00	20,275.56	8,418.00	198.13	248.97	-27.515	1,852.92	10,134.06	1,991.58	1,730.51	261.07	7.628	
19,529.37	10,175.00	20,304.93	8,418.00	198.74	249.58	-27.515	1,853.00	10,163.43	1,991.58	1,729.82	261.76	7.608	
19,600.00	10,175.00	20,375.56	8,418.00	200.19	251.03	-27.515	1,853.21	10,234.06	1,991.58	1,728.16	263.42	7.561	
19,629.37	10,175.00	20,404.93	8,418.00	200.79	251.64	-27.515	1,853.29	10,263.43	1,991.58	1,727.47	264.11	7.541	
19,700.00	10,175.00	20,475.56	8,418.00	202.24	253.09	-27.515	1,853.50	10,334.06	1,991.58	1,725.81	265.76	7.494	
19,729.37	10,175.00	20,504.93	8,418.00	202.84	253.70	-27.515	1,853.59	10,363.43	1,991.58	1,725.12	266.45	7.474	
19,800.00	10,175.00	20,575.56	8,418.00	204.29	255.16	-27.515	1,853.79	10,434.06	1,991.58	1,723.46	268.11	7.428	
19,829.37	10,175.00	20,604.93	8,418.00	204.90	255.76	-27.515	1,853.88	10,463.43	1,991.57	1,722.77	268.80	7.409	
19,900.00	10,175.00	20,675.56	8,418.00	206.35	257.22	-27.515	1,854.09	10,534.06	1,991.57	1,721.11	270.46	7.364	
19,929.37	10,175.00	20,704.93	8,418.00	206.95	257.82	-27.515	1,854.17	10,563.43	1,991.57	1,720.42	271.15	7.345	
20,000.00	10,175.00	20,775.56	8,418.00	208.40	259.28	-27.515	1,854.38	10,634.06	1,991.57	1,718.76	272.81	7.300	
20,029.37	10,175.00	20,804.93	8,418.00	209.01	259.88	-27.515	1,854.46	10,663.43	1,991.57	1,718.07	273.50	7.282	
20,100.00	10,175.00	20,875.56	8,418.00	210.46	261.34	-27.514	1,854.67	10,734.06	1,991.57	1,716.41	275.16	7.238	
20,129.37	10,175.00	20,904.93	8,418.00	211.06	261.94	-27.514	1,854.76	10,763.43	1,991.57	1,715.72	275.84	7.220	
20,200.00	10,175.00	20,975.56	8,418.00	212.51	263.40	-27.514	1,854.96	10,834.06	1,991.56	1,714.06	277.50	7.177	
20,229.37	10,175.00	21,004.93	8,418.00	213.11	264.01	-27.514	1,855.05	10,863.43	1,991.56	1,713.37	278.19	7.159	
20,300.00	10,175.00	21,075.56	8,418.00	214.57	265.46	-27.514	1,855.26	10,934.06	1,991.56	1,711.71	279.85	7.116	
20,329.37	10,175.00	21,104.93	8,418.00	215.17	266.07	-27.514	1,855.34	10,963.43	1,991.56	1,711.02	280.54	7.099	
20,400.00	10,175.00	21,175.56	8,418.00	216.62	267.52	-27.514	1,855.55	11,034.06	1,991.56	1,709.36	282.20	7.057	
20,429.37	10,175.00	21,204.93	8,418.00	217.23	268.13	-27.514	1,855.63	11,063.43	1,991.56	1,708.67	282.89	7.040	
20,500.00	10,175.00	21,275.56	8,418.00	218.68	269.59	-27.514	1,855.84	11,134.06	1,991.56	1,707.00	284.55	6.999	
20,529.37	10,175.00	21,304.93	8,418.00	219.28	270.19	-27.514	1,855.93	11,163.43	1,991.56	1,706.31	285.24	6.982	
20,600.00	10,175.00	21,375.56	8,418.00	220.73	271.65	-27.514	1,856.13	11,234.06	1,991.55	1,704.65	286.90	6.942	
20,629.37	10,175.00	21,404.93	8,418.00	221.34	272.25	-27.514	1,856.22	11,263.43	1,991.55	1,703.96	287.59	6.925	
20,700.00	10,175.00	21,475.56	8,418.00	222.79	273.71	-27.514	1,856.43	11,334.06	1,991.55	1,702.30	289.25	6.885	
20,729.37	10,175.00	21,504.93	8,418.00	223.39	274.32	-27.514	1,856.51	11,363.43	1,991.55	1,701.61	289.94	6.869	
20,800.00	10,175.00	21,575.56	8,418.00	224.85	275.77	-27.513	1,856.72	11,434.06	1,991.55	1,699.94	291.60	6.830	
20,829.37	10,175.00	21,604.93	8,418.00	225.45	276.38	-27.513	1,856.80	11,463.43	1,991.55	1,699.25	292.29	6.813	
20,900.00	10,175.00	21,675.56	8,418.00	226.90	277.84	-27.513	1,857.01	11,534.06	1,991.55	1,697.59	293.96	6.775	
20,929.37	10,175.00	21,704.93	8,418.00	227.51	278.44	-27.513	1,857.10	11,563.43	1,991.55	1,696.90	294.65	6.759	
21,000.00	10,175.00	21,775.56	8,418.00	228.96	279.90	-27.513	1,857.30	11,634.06	1,991.54	1,695.24	296.31	6.721	
21,029.37	10,175.00	21,804.93	8,418.00	229.56	280.50	-27.513	1,857.39	11,663.43	1,991.54	1,694.54	297.00	6.706	
21,043.30	10,175.00	21,818.82	8,418.00	229.85	280.79	-27.513	1,857.43	11,677.31	1,991.54	1,694.22	297.32	6.698	
21,046.64	10,175.00	21,818.82	8,418.00	229.92	280.79	-27.513	1,857.43	11,677.31	1,991.54	1,694.19	297.35	6.698 SF	

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



Dixon Directional Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W02) LEAR STATE 001H - 38865 - (Gyro/MWD)												Offset Site Error: 0.00 usft	
Survey Program:		100-GYRO-NS, 8838-MWD						Rule Assigned:				Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			Minimum Separation (usft)
9,700.00	9,567.11	9,403.38	9,308.07	28.35	31.50	146.557	761.82	793.13	295.50	255.26	40.24	7.344	
9,800.00	9,666.97	9,426.00	9,319.16	28.48	31.55	52.045	742.11	793.22	378.58	339.47	39.11	9.681	
9,900.00	9,764.83	9,457.00	9,332.52	28.78	31.62	45.806	714.15	793.74	461.43	422.75	38.68	11.929	
10,000.00	9,857.75	9,457.00	9,332.52	29.12	31.62	36.608	714.15	793.74	542.84	504.95	37.89	14.327	
10,100.00	9,942.90	9,478.30	9,340.30	29.48	31.68	32.261	694.34	794.44	621.46	583.42	38.04	16.339	
10,200.00	10,017.70	9,489.00	9,343.76	29.85	31.70	27.811	684.22	794.91	696.88	658.51	38.37	18.164	
10,300.00	10,079.86	9,489.00	9,343.76	30.21	31.70	23.418	684.22	794.91	768.20	729.31	38.89	19.752	
10,400.00	10,127.50	9,501.76	9,347.51	30.58	31.74	21.231	672.04	795.55	834.47	794.54	39.93	20.899	
10,500.00	10,159.18	9,506.17	9,348.71	30.96	31.76	18.959	667.81	795.80	895.31	854.24	41.08	21.795	
10,600.00	10,173.94	9,509.15	9,349.48	31.38	31.77	17.150	664.94	795.96	950.09	907.71	42.38	22.418	
10,700.00	10,175.00	9,521.00	9,352.35	31.85	31.80	17.362	653.46	796.68	1,001.48	957.66	43.82	22.854	
10,800.00	10,175.00	9,521.00	9,352.35	32.46	31.80	17.362	653.46	796.68	1,058.84	1,013.80	45.04	23.511	
10,900.00	10,175.00	9,521.00	9,352.35	33.22	31.80	17.362	653.46	796.68	1,122.19	1,076.06	46.13	24.326	
11,000.00	10,175.00	9,521.00	9,352.35	34.11	31.80	17.362	653.46	796.68	1,190.58	1,143.48	47.10	25.279	
11,100.00	10,175.00	9,521.00	9,352.35	35.14	31.80	17.362	653.46	796.68	1,263.19	1,215.25	47.94	26.348	
11,200.00	10,175.00	9,521.00	9,352.35	36.30	31.80	17.362	653.46	796.68	1,339.34	1,290.67	48.67	27.517	
11,300.00	10,175.00	9,521.00	9,352.35	37.57	31.80	17.362	653.46	796.68	1,418.45	1,369.14	49.31	28.767	
11,400.00	10,175.00	9,521.00	9,352.35	38.94	31.80	17.362	653.46	796.68	1,500.06	1,450.20	49.86	30.087	
11,500.00	10,175.00	9,521.00	9,352.35	40.39	31.80	17.362	653.46	796.68	1,583.78	1,533.44	50.34	31.464	
11,600.00	10,175.00	9,521.00	9,352.35	41.92	31.80	17.362	653.46	796.68	1,669.29	1,618.53	50.75	32.889	
11,700.00	10,175.00	9,533.07	9,354.93	43.50	31.84	18.177	641.70	797.45	1,756.23	1,704.98	51.25	34.269	
11,800.00	10,175.00	9,535.57	9,355.43	45.13	31.85	18.345	639.25	797.62	1,844.54	1,792.95	51.60	35.748	
11,900.00	10,175.00	9,538.10	9,355.92	46.81	31.86	18.515	636.77	797.78	1,933.99	1,882.08	51.91	37.255	
12,000.00	10,175.00	9,540.66	9,356.40	48.53	31.87	18.687	634.26	797.95	2,024.42	1,972.22	52.20	38.785	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W05) GULF FEDERAL 002 - 26310 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 200-INC-ONLY													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
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	
13,400.00	10,175.00	10,180.19	10,172.81	74.65	298.83	-90.000	1,974.91	5,786.43	2,045.83	1,702.11	343.72	5.952	
13,500.00	10,175.00	10,180.19	10,172.81	76.60	298.83	-90.000	1,974.91	5,786.43	1,960.83	1,614.97	345.86	5.669	
13,600.00	10,175.00	10,180.19	10,172.81	78.56	298.83	-90.000	1,974.91	5,786.43	1,877.31	1,529.09	348.23	5.391	
13,700.00	10,175.00	10,180.19	10,172.81	80.52	298.83	-90.000	1,974.91	5,786.43	1,795.48	1,444.64	350.84	5.118	
13,800.00	10,175.00	10,180.19	10,172.81	82.49	298.83	-90.000	1,974.91	5,786.43	1,715.57	1,361.86	353.71	4.850	
13,900.00	10,175.00	10,180.19	10,172.81	84.46	298.83	-90.000	1,974.91	5,786.43	1,637.87	1,281.02	356.85	4.590	
14,000.00	10,175.00	10,180.19	10,172.81	86.44	298.83	-90.000	1,974.91	5,786.43	1,562.71	1,202.41	360.30	4.337	
14,100.00	10,175.00	10,180.19	10,172.81	88.42	298.83	-90.000	1,974.91	5,786.43	1,490.47	1,126.43	364.04	4.094	
14,200.00	10,175.00	10,180.19	10,172.81	90.40	298.83	-90.000	1,974.91	5,786.43	1,421.60	1,053.52	368.08	3.862	
14,300.00	10,175.00	10,180.19	10,172.81	92.39	298.83	-90.000	1,974.91	5,786.43	1,356.60	984.20	372.40	3.643	
14,400.00	10,175.00	10,180.19	10,172.81	94.39	298.83	-90.000	1,974.91	5,786.43	1,296.08	919.10	376.97	3.438	
14,500.00	10,175.00	10,180.19	10,172.81	96.38	298.83	-90.000	1,974.91	5,786.43	1,240.67	858.93	381.74	3.250	
14,600.00	10,175.00	10,180.19	10,172.81	98.38	298.83	-90.000	1,974.91	5,786.43	1,191.09	804.49	386.60	3.081	
14,700.00	10,175.00	10,180.19	10,172.81	100.38	298.83	-90.000	1,974.91	5,786.43	1,148.10	756.66	391.44	2.933	
14,800.00	10,175.00	10,180.19	10,172.81	102.39	298.83	-90.000	1,974.91	5,786.43	1,112.46	716.37	396.09	2.809	
14,900.00	10,175.00	10,180.19	10,172.81	104.40	298.83	-90.000	1,974.91	5,786.43	1,084.90	684.53	400.37	2.710	
15,000.00	10,175.00	10,180.19	10,172.81	106.41	298.83	-90.000	1,974.91	5,786.43	1,066.05	661.96	404.09	2.638	
15,100.00	10,175.00	10,180.19	10,172.81	108.42	298.83	-90.000	1,974.91	5,786.43	1,056.36	649.29	407.07	2.595	
15,152.80	10,175.00	10,180.19	10,172.81	109.48	298.83	-90.000	1,974.91	5,786.43	1,055.04	646.73	408.31	2.584 CC, ES	
15,200.00	10,175.00	10,180.19	10,172.81	110.43	298.83	-90.000	1,974.91	5,786.43	1,056.09	646.90	409.19	2.581 SF	
15,300.00	10,175.00	10,180.19	10,172.81	112.45	298.83	-90.000	1,974.91	5,786.43	1,065.26	654.86	410.39	2.596	
15,400.00	10,175.00	10,180.19	10,172.81	114.47	298.83	-90.000	1,974.91	5,786.43	1,083.61	672.93	410.68	2.639	
15,500.00	10,175.00	10,180.19	10,172.81	116.49	298.83	-90.000	1,974.91	5,786.43	1,110.70	700.55	410.14	2.708	
15,600.00	10,175.00	10,180.19	10,172.81	118.51	298.83	-90.000	1,974.91	5,786.43	1,145.90	737.00	408.90	2.802	
15,700.00	10,175.00	10,180.19	10,172.81	120.53	298.83	-90.000	1,974.91	5,786.43	1,188.50	781.38	407.11	2.919	
15,800.00	10,175.00	10,180.19	10,172.81	122.56	298.83	-90.000	1,974.91	5,786.43	1,237.73	832.80	404.93	3.057	
15,900.00	10,175.00	10,180.19	10,172.81	124.58	298.83	-90.000	1,974.91	5,786.43	1,292.83	890.35	402.48	3.212	
16,000.00	10,175.00	10,180.19	10,172.81	126.61	298.83	-90.000	1,974.91	5,786.43	1,353.09	953.20	399.89	3.384	
16,100.00	10,175.00	10,180.19	10,172.81	128.64	298.83	-90.000	1,974.91	5,786.43	1,417.85	1,020.60	397.24	3.569	
16,200.00	10,175.00	10,180.19	10,172.81	130.67	298.83	-90.000	1,974.91	5,786.43	1,486.51	1,091.90	394.61	3.767	
16,300.00	10,175.00	10,180.19	10,172.81	132.70	298.83	-90.000	1,974.91	5,786.43	1,558.58	1,166.53	392.04	3.976	
16,400.00	10,175.00	10,180.19	10,172.81	134.74	298.83	-90.000	1,974.91	5,786.43	1,633.59	1,244.02	389.57	4.193	
16,500.00	10,175.00	10,180.19	10,172.81	136.77	298.83	-90.000	1,974.91	5,786.43	1,711.15	1,323.95	387.20	4.419	
16,600.00	10,175.00	10,180.19	10,172.81	138.80	298.83	-90.000	1,974.91	5,786.43	1,790.94	1,405.98	384.96	4.652	
16,700.00	10,175.00	10,180.19	10,172.81	140.84	298.83	-90.000	1,974.91	5,786.43	1,872.68	1,489.83	382.85	4.891	
16,800.00	10,175.00	10,180.19	10,172.81	142.88	298.83	-90.000	1,974.91	5,786.43	1,956.11	1,575.24	380.87	5.136	
16,900.00	10,175.00	10,180.19	10,172.81	144.92	298.83	-90.000	1,974.91	5,786.43	2,041.03	1,662.02	379.01	5.385	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)												Offset Site Error: 0.00 usft
Survey Program: 210-INC-ONLY												Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
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
13,200.00	10,175.00	10,165.65	10,163.53	70.77	253.56	89.937	662.77	5,793.47	1,972.76	1,692.21	280.55	7.032
13,300.00	10,175.00	10,165.65	10,163.53	72.71	253.56	89.937	662.77	5,793.47	1,873.65	1,592.78	280.87	6.671
13,400.00	10,175.00	10,165.65	10,163.53	74.65	253.56	89.937	662.77	5,793.47	1,774.65	1,493.41	281.24	6.310
13,500.00	10,175.00	10,165.65	10,163.53	76.60	253.56	89.937	662.77	5,793.47	1,675.77	1,394.09	281.68	5.949
13,600.00	10,175.00	10,165.65	10,163.53	78.56	253.56	89.937	662.77	5,793.47	1,577.03	1,294.84	282.19	5.589
13,700.00	10,175.00	10,165.65	10,163.53	80.52	253.56	89.937	662.77	5,793.47	1,478.46	1,195.67	282.79	5.228
13,800.00	10,175.00	10,165.65	10,163.53	82.49	253.56	89.937	662.77	5,793.47	1,380.09	1,096.58	283.51	4.868
13,900.00	10,175.00	10,165.65	10,163.53	84.46	253.56	89.937	662.77	5,793.47	1,281.98	997.59	284.38	4.508
14,000.00	10,175.00	10,165.65	10,163.53	86.44	253.56	89.937	662.77	5,793.47	1,184.18	898.72	285.46	4.148
14,100.00	10,175.00	10,165.65	10,163.53	88.42	253.56	89.937	662.77	5,793.47	1,086.78	800.00	286.78	3.790
14,200.00	10,175.00	10,165.65	10,163.53	90.40	253.56	89.937	662.77	5,793.47	989.90	701.45	288.45	3.432
14,300.00	10,175.00	10,165.65	10,163.53	92.39	253.56	89.936	662.77	5,793.47	893.71	603.13	290.58	3.076
14,400.00	10,175.00	10,165.65	10,163.52	94.39	253.56	89.936	662.77	5,793.47	798.46	505.11	293.35	2.722
14,500.00	10,175.00	10,165.65	10,163.52	96.38	253.56	89.936	662.77	5,793.47	704.52	407.52	297.00	2.372
14,600.00	10,175.00	10,165.65	10,163.52	98.38	253.56	89.936	662.77	5,793.47	612.51	310.59	301.91	2.029
14,700.00	10,175.00	10,165.65	10,163.52	100.38	253.56	89.936	662.77	5,793.47	523.43	214.81	308.62	1.696 Level 3
14,800.00	10,175.00	10,165.64	10,163.52	102.39	253.56	89.936	662.77	5,793.47	439.08	121.20	317.88	1.381 Level 3
14,900.00	10,175.00	10,165.64	10,163.52	104.40	253.56	89.936	662.77	5,793.47	362.77	32.31	330.47	1.098 Level 3
15,000.00	10,175.00	10,165.64	10,163.52	106.41	253.56	89.936	662.77	5,793.47	300.70	-45.33	346.03	0.869 Level 3
15,100.00	10,175.00	10,165.64	10,163.52	108.42	253.56	89.936	662.77	5,793.47	263.12	-96.71	359.83	0.731 Level 3
15,155.92	10,175.00	10,165.64	10,163.52	109.54	253.56	89.936	662.77	5,793.47	257.11	-105.98	363.09	0.708 Level 3, CC, ES, SF
15,200.00	10,175.00	10,165.64	10,163.52	110.43	253.56	89.936	662.77	5,793.47	260.86	-101.47	362.33	0.720 Level 3
15,300.00	10,175.00	10,165.64	10,163.52	112.45	253.56	89.936	662.77	5,793.47	294.72	-57.35	352.07	0.837 Level 3
15,400.00	10,175.00	10,165.64	10,163.52	114.47	253.56	89.936	662.77	5,793.47	354.51	16.52	337.99	1.049 Level 3
15,500.00	10,175.00	10,165.64	10,163.52	116.49	253.56	89.936	662.77	5,793.47	429.52	103.69	325.84	1.318 Level 3
15,600.00	10,175.00	10,165.64	10,163.52	118.51	253.56	89.936	662.77	5,793.47	513.13	196.50	316.63	1.621 Level 3
15,700.00	10,175.00	10,165.64	10,163.52	120.53	253.56	89.936	662.77	5,793.47	601.76	291.93	309.83	1.942 Level 3
15,800.00	10,175.00	10,165.64	10,163.52	122.56	253.56	89.935	662.77	5,793.47	693.49	388.71	304.79	2.275
15,900.00	10,175.00	10,165.64	10,163.52	124.58	253.56	89.935	662.77	5,793.47	787.24	486.26	300.98	2.616
16,000.00	10,175.00	10,165.64	10,163.52	126.61	253.56	89.935	662.77	5,793.47	882.36	584.29	298.07	2.960
16,100.00	10,175.00	10,165.64	10,163.52	128.64	253.56	89.935	662.77	5,793.47	978.46	682.66	295.80	3.308
16,200.00	10,175.00	10,165.64	10,163.52	130.67	253.56	89.935	662.77	5,793.47	1,075.26	781.26	294.00	3.657
16,300.00	10,175.00	10,165.64	10,163.52	132.70	253.56	89.935	662.77	5,793.47	1,172.61	880.04	292.56	4.008
16,400.00	10,175.00	10,165.64	10,163.52	134.74	253.56	89.935	662.77	5,793.47	1,270.36	978.96	291.40	4.360
16,500.00	10,175.00	10,165.64	10,163.52	136.77	253.56	89.935	662.77	5,793.47	1,368.44	1,077.99	290.45	4.711
16,600.00	10,175.00	10,165.64	10,163.52	138.80	253.56	89.935	662.77	5,793.47	1,466.78	1,177.12	289.66	5.064
16,700.00	10,175.00	10,165.64	10,163.52	140.84	253.56	89.935	662.77	5,793.47	1,565.33	1,276.32	289.01	5.416
16,800.00	10,175.00	10,165.64	10,163.52	142.88	253.56	89.935	662.77	5,793.47	1,664.05	1,375.58	288.47	5.769
16,900.00	10,175.00	10,165.64	10,163.52	144.92	253.56	89.935	662.77	5,793.47	1,762.92	1,474.91	288.02	6.121
17,000.00	10,175.00	10,165.64	10,163.52	146.95	253.56	89.935	662.77	5,793.47	1,861.91	1,574.27	287.63	6.473
17,100.00	10,175.00	10,165.64	10,163.52	148.99	253.56	89.935	662.77	5,793.47	1,961.00	1,673.68	287.31	6.825
17,200.00	10,175.00	10,165.64	10,163.52	151.03	253.56	89.934	662.77	5,793.47	2,060.18	1,773.13	287.05	7.177

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)												Offset Site Error:	0.00 usft
Survey Program: 400-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
16,500.00	10,175.00	10,177.44	10,175.81	136.77	236.98	90.000	-653.58	8,443.37	2,048.33	1,703.29	345.04	5.937	
16,600.00	10,175.00	10,177.44	10,175.81	138.80	236.98	90.000	-653.58	8,443.37	1,986.27	1,636.53	349.74	5.679	
16,700.00	10,175.00	10,177.44	10,175.81	140.84	236.98	90.000	-653.58	8,443.37	1,927.40	1,572.83	354.57	5.436	
16,800.00	10,175.00	10,177.44	10,175.81	142.88	236.98	90.000	-653.58	8,443.37	1,872.03	1,512.54	359.49	5.207	
16,900.00	10,175.00	10,177.44	10,175.81	144.92	236.98	90.000	-653.58	8,443.37	1,820.47	1,456.00	364.47	4.995	
17,000.00	10,175.00	10,177.44	10,175.81	146.95	236.98	90.000	-653.58	8,443.37	1,773.06	1,403.62	369.44	4.799	
17,100.00	10,175.00	10,177.44	10,175.81	148.99	236.98	90.000	-653.58	8,443.37	1,730.13	1,355.78	374.35	4.622	
17,200.00	10,175.00	10,177.44	10,175.81	151.03	236.98	90.000	-653.58	8,443.37	1,692.04	1,312.91	379.12	4.463	
17,300.00	10,175.00	10,177.44	10,175.81	153.08	236.98	90.000	-653.58	8,443.37	1,659.10	1,275.42	383.68	4.324	
17,400.00	10,175.00	10,177.44	10,175.81	155.12	236.98	90.000	-653.58	8,443.37	1,631.63	1,243.71	387.93	4.206	
17,500.00	10,175.00	10,177.44	10,175.81	157.16	236.98	90.000	-653.58	8,443.37	1,609.92	1,218.14	391.78	4.109	
17,600.00	10,175.00	10,177.44	10,175.81	159.20	236.98	90.000	-653.58	8,443.37	1,594.20	1,199.03	395.17	4.034	
17,700.00	10,175.00	10,177.44	10,175.81	161.25	236.98	90.000	-653.58	8,443.37	1,584.64	1,186.62	398.02	3.981	
17,800.00	10,175.00	10,177.44	10,175.81	163.29	236.98	90.000	-653.58	8,443.37	1,581.36	1,181.10	400.27	3.951	
17,801.90	10,175.00	10,177.44	10,175.81	163.33	236.98	90.000	-653.58	8,443.37	1,581.36	1,181.06	400.30	3.950 CC, ES	
17,900.00	10,175.00	10,177.44	10,175.81	165.34	236.98	90.000	-653.58	8,443.37	1,584.40	1,182.52	401.88	3.942 SF	
18,000.00	10,175.00	10,177.44	10,175.81	167.38	236.98	90.000	-653.58	8,443.37	1,593.72	1,190.87	402.86	3.956	
18,100.00	10,175.00	10,177.44	10,175.81	169.43	236.98	90.000	-653.58	8,443.37	1,609.22	1,206.02	403.19	3.991	
18,200.00	10,175.00	10,177.44	10,175.81	171.48	236.98	90.000	-653.58	8,443.37	1,630.70	1,227.77	402.93	4.047	
18,300.00	10,175.00	10,177.44	10,175.81	173.53	236.98	90.000	-653.58	8,443.37	1,657.96	1,255.84	402.12	4.123	
18,400.00	10,175.00	10,177.44	10,175.81	175.57	236.98	90.000	-653.58	8,443.37	1,690.69	1,289.87	400.82	4.218	
18,500.00	10,175.00	10,177.44	10,175.81	177.62	236.98	90.000	-653.58	8,443.37	1,728.60	1,329.51	399.09	4.331	
18,600.00	10,175.00	10,177.44	10,175.81	179.67	236.98	90.000	-653.58	8,443.37	1,771.35	1,374.33	397.02	4.462	
18,700.00	10,175.00	10,177.44	10,175.81	181.72	236.98	90.000	-653.58	8,443.37	1,818.60	1,423.93	394.67	4.608	
18,800.00	10,175.00	10,177.44	10,175.81	183.77	236.98	90.000	-653.58	8,443.37	1,870.01	1,477.90	392.11	4.769	
18,900.00	10,175.00	10,177.44	10,175.81	185.82	236.98	90.000	-653.58	8,443.37	1,925.24	1,535.84	389.39	4.944	
19,000.00	10,175.00	10,177.44	10,175.81	187.87	236.98	90.000	-653.58	8,443.37	1,983.98	1,597.40	386.58	5.132	
19,100.00	10,175.00	10,177.44	10,175.81	189.92	236.98	90.000	-653.58	8,443.37	2,045.92	1,662.21	383.71	5.332	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W12) HULKSTER 005 - 39572 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 235-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
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	
9,900.00	9,764.83	9,537.00	9,535.56	28.78	206.91	-97.240	1,970.32	508.57	1,111.72	885.88	225.84	4.923	
10,000.00	9,857.75	9,537.00	9,535.56	29.12	206.91	-94.041	1,970.32	508.57	1,142.29	920.49	221.80	5.150	
10,100.00	9,942.90	9,537.00	9,535.56	29.48	206.91	-89.758	1,970.32	508.57	1,181.65	964.27	217.38	5.436	
10,200.00	10,017.70	9,537.00	9,535.56	29.85	206.91	-84.557	1,970.32	508.57	1,227.83	1,014.52	213.31	5.756	
10,300.00	10,079.86	9,537.00	9,535.56	30.21	206.91	-78.701	1,970.32	508.57	1,278.77	1,068.59	210.18	6.084	
10,400.00	10,127.50	9,537.00	9,535.56	30.58	206.91	-72.539	1,970.32	508.57	1,332.46	1,124.12	208.34	6.396	
10,500.00	10,159.18	9,537.00	9,535.56	30.96	206.91	-66.439	1,970.32	508.57	1,387.06	1,179.15	207.91	6.671	
10,600.00	10,173.94	9,537.00	9,535.56	31.38	206.91	-60.721	1,970.32	508.57	1,440.89	1,232.09	208.80	6.901	
10,700.00	10,175.00	9,537.00	9,535.56	31.85	206.91	-58.858	1,970.32	508.57	1,494.16	1,283.58	210.58	7.095	
10,800.00	10,175.00	9,537.00	9,535.56	32.46	206.91	-58.858	1,970.32	508.57	1,551.62	1,339.17	212.45	7.303	
10,900.00	10,175.00	9,537.00	9,535.56	33.22	206.91	-58.858	1,970.32	508.57	1,613.24	1,398.95	214.29	7.528	
11,000.00	10,175.00	9,537.00	9,535.56	34.11	206.91	-58.858	1,970.32	508.57	1,678.56	1,462.50	216.05	7.769	
11,100.00	10,175.00	9,537.00	9,535.56	35.14	206.91	-58.858	1,970.32	508.57	1,747.16	1,529.42	217.73	8.024	
11,200.00	10,175.00	9,537.00	9,535.56	36.30	206.91	-58.858	1,970.32	508.57	1,818.67	1,599.36	219.31	8.293	
11,300.00	10,175.00	9,537.00	9,535.56	37.57	206.91	-58.858	1,970.32	508.57	1,892.77	1,671.99	220.78	8.573	
11,400.00	10,175.00	9,537.00	9,535.56	38.94	206.91	-58.858	1,970.32	508.57	1,969.16	1,747.02	222.14	8.864	
11,500.00	10,175.00	9,537.00	9,535.56	40.39	206.91	-58.858	1,970.32	508.57	2,047.58	1,824.18	223.40	9.166	

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



Dixon Directional Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W14) KEEL A FEDERAL 003 - 33340 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 218-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
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	
11,800.00	10,175.00	10,184.48	10,181.94	45.13	240.61	-90.405	1,782.98	4,254.98	2,016.97	1,744.38	272.58	7.399	
11,900.00	10,175.00	10,184.48	10,181.94	46.81	240.61	-90.405	1,782.98	4,254.98	1,927.17	1,653.73	273.45	7.048	
12,000.00	10,175.00	10,184.48	10,181.94	48.53	240.61	-90.404	1,782.98	4,254.98	1,838.44	1,563.98	274.45	6.699	
12,100.00	10,175.00	10,184.48	10,181.93	50.27	240.61	-90.404	1,782.98	4,254.98	1,750.91	1,475.29	275.62	6.353	
12,200.00	10,175.00	10,184.47	10,181.93	52.05	240.61	-90.404	1,782.98	4,254.98	1,664.79	1,387.81	276.98	6.010	
12,300.00	10,175.00	10,184.47	10,181.93	53.85	240.61	-90.404	1,782.98	4,254.98	1,580.31	1,301.75	278.56	5.673	
12,400.00	10,175.00	10,184.47	10,181.93	55.67	240.61	-90.404	1,782.98	4,254.98	1,497.74	1,217.37	280.37	5.342	
12,500.00	10,175.00	10,184.47	10,181.92	57.51	240.61	-90.404	1,782.98	4,254.98	1,417.41	1,134.96	282.46	5.018	
12,600.00	10,175.00	10,184.46	10,181.92	59.36	240.61	-90.404	1,782.98	4,254.98	1,339.74	1,054.90	284.84	4.703	
12,700.00	10,175.00	10,184.46	10,181.92	61.23	240.61	-90.403	1,782.98	4,254.98	1,265.21	977.67	287.54	4.400	
12,800.00	10,175.00	10,184.46	10,181.92	63.12	240.61	-90.403	1,782.98	4,254.98	1,194.40	903.82	290.58	4.110	
12,900.00	10,175.00	10,184.46	10,181.92	65.02	240.61	-90.403	1,782.98	4,254.98	1,128.02	834.08	293.94	3.838	
13,000.00	10,175.00	10,184.46	10,181.91	66.92	240.61	-90.403	1,782.98	4,254.98	1,066.90	769.29	297.61	3.585	
13,100.00	10,175.00	10,184.45	10,181.91	68.84	240.61	-90.403	1,782.98	4,254.98	1,011.99	710.47	301.52	3.356	
13,200.00	10,175.00	10,184.45	10,181.91	70.77	240.61	-90.403	1,782.98	4,254.98	964.35	658.79	305.56	3.156	
13,300.00	10,175.00	10,184.45	10,181.91	72.71	240.61	-90.403	1,782.98	4,254.98	925.10	615.54	309.56	2.988	
13,400.00	10,175.00	10,184.45	10,181.90	74.65	240.61	-90.402	1,782.98	4,254.98	895.35	582.05	313.31	2.858	
13,500.00	10,175.00	10,184.45	10,181.90	76.60	240.61	-90.402	1,782.98	4,254.98	876.07	559.51	316.56	2.767	
13,600.00	10,175.00	10,184.44	10,181.90	78.56	240.61	-90.402	1,782.98	4,254.98	867.95	548.86	319.09	2.720	
13,620.78	10,175.00	10,184.44	10,181.90	78.96	240.61	-90.402	1,782.98	4,254.98	867.70	548.19	319.51	2.716 CC, ES, SF	
13,700.00	10,175.00	10,184.44	10,181.90	80.52	240.61	-90.402	1,782.98	4,254.98	871.31	550.56	320.75	2.716	
13,800.00	10,175.00	10,184.44	10,181.90	82.49	240.61	-90.402	1,782.98	4,254.98	886.02	564.53	321.49	2.756	
13,900.00	10,175.00	10,184.44	10,181.89	84.46	240.61	-90.402	1,782.98	4,254.98	911.52	590.17	321.36	2.836	
14,000.00	10,175.00	10,184.43	10,181.89	86.44	240.61	-90.402	1,782.98	4,254.98	946.95	626.45	320.50	2.955	
14,100.00	10,175.00	10,184.43	10,181.89	88.42	240.61	-90.401	1,782.98	4,254.98	991.24	672.15	319.10	3.106	
14,200.00	10,175.00	10,184.43	10,181.89	90.40	240.61	-90.401	1,782.98	4,254.98	1,043.27	725.94	317.33	3.288	
14,300.00	10,175.00	10,184.43	10,181.88	92.39	240.61	-90.401	1,782.98	4,254.98	1,101.93	786.57	315.35	3.494	
14,400.00	10,175.00	10,184.43	10,181.88	94.39	240.61	-90.401	1,782.98	4,254.98	1,166.23	852.93	313.30	3.722	
14,500.00	10,175.00	10,184.42	10,181.88	96.38	240.61	-90.401	1,782.98	4,254.98	1,235.29	924.05	311.24	3.969	
14,600.00	10,175.00	10,184.42	10,181.88	98.38	240.61	-90.401	1,782.98	4,254.98	1,308.35	999.10	309.25	4.231	
14,700.00	10,175.00	10,184.42	10,181.88	100.38	240.61	-90.401	1,782.98	4,254.98	1,384.78	1,077.43	307.35	4.506	
14,800.00	10,175.00	10,184.42	10,181.87	102.39	240.61	-90.400	1,782.98	4,254.98	1,464.06	1,158.49	305.57	4.791	
14,900.00	10,175.00	10,184.41	10,181.87	104.40	240.61	-90.400	1,782.98	4,254.98	1,545.74	1,241.83	303.90	5.086	
15,000.00	10,175.00	10,184.41	10,181.87	106.41	240.61	-90.400	1,782.98	4,254.98	1,629.46	1,327.10	302.37	5.389	
15,100.00	10,175.00	10,184.41	10,181.87	108.42	240.61	-90.400	1,782.98	4,254.98	1,714.93	1,413.99	300.95	5.698	
15,200.00	10,175.00	10,184.41	10,181.87	110.43	240.61	-90.400	1,782.98	4,254.98	1,801.90	1,502.26	299.64	6.013	
15,300.00	10,175.00	10,184.41	10,181.86	112.45	240.61	-90.400	1,782.98	4,254.98	1,890.15	1,591.71	298.44	6.333	
15,400.00	10,175.00	10,184.40	10,181.86	114.47	240.61	-90.400	1,782.98	4,254.98	1,979.53	1,682.19	297.34	6.657	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W16) LEAR STATE SWD 003 - 26703 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 229-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
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	
9,400.00	9,267.11	9,269.49	9,267.92	28.22	205.23	-99.631	649.38	-805.77	1,526.06	1,297.31	228.74	6.672	
9,500.00	9,367.11	9,369.49	9,367.92	28.26	207.55	-99.631	649.38	-805.77	1,526.06	1,294.94	231.12	6.603	
9,600.00	9,467.11	9,469.49	9,467.92	28.31	209.87	-99.631	649.38	-805.77	1,526.06	1,292.57	233.49	6.536	
9,640.51	9,507.62	9,509.74	9,508.15	28.32	210.81	-99.578	650.81	-805.77	1,525.82	1,291.38	234.43	6.509	
9,700.00	9,567.11	9,568.63	9,567.03	28.35	212.17	-99.583	650.67	-805.77	1,525.84	1,290.01	235.83	6.470	
9,800.00	9,666.97	9,667.49	9,665.88	28.48	214.47	170.529	650.13	-805.77	1,529.57	1,291.24	238.33	6.418 SF	
9,900.00	9,764.83	9,767.34	9,765.64	28.78	216.87	170.290	649.38	-805.77	1,549.35	1,308.20	241.16	6.425	
10,000.00	9,857.75	9,860.26	9,858.56	29.12	219.40	169.849	649.38	-805.77	1,585.50	1,341.36	244.13	6.494	
10,100.00	9,942.90	9,945.41	9,943.71	29.48	221.72	169.082	649.38	-805.77	1,637.05	1,390.18	246.87	6.631	
10,200.00	10,017.70	10,019.98	10,018.26	29.85	223.76	167.851	650.73	-805.77	1,702.28	1,453.01	249.27	6.829	
10,300.00	10,079.86	10,081.47	10,079.76	30.21	225.43	165.593	650.60	-805.77	1,779.67	1,528.42	251.25	7.083	
10,400.00	10,127.50	10,128.61	10,126.89	30.58	226.72	161.254	650.38	-805.77	1,866.64	1,613.89	252.75	7.385	
10,500.00	10,159.18	10,159.95	10,158.23	30.96	227.58	151.052	650.18	-805.77	1,960.57	1,706.84	253.73	7.727	
10,600.00	10,173.94	10,174.54	10,172.82	31.38	227.97	116.110	650.08	-805.77	2,058.60	1,804.45	254.15	8.100	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W17) MAX STATE 001 - 26754 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 405-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor	
10,100.00	9,942.90	9,946.23	9,943.88	29.48	239.25	-136.974	1,971.59	-613.25	1,779.52	1,522.34	257.17	6.920	
10,200.00	10,017.70	10,024.90	10,022.53	29.85	241.41	-133.976	1,970.85	-613.25	1,832.40	1,572.63	259.77	7.054	
10,300.00	10,079.86	10,090.29	10,087.89	30.21	243.20	-129.348	1,970.02	-613.25	1,895.96	1,633.86	262.10	7.234	
10,400.00	10,127.50	10,140.41	10,138.00	30.58	244.57	-122.295	1,969.26	-613.25	1,968.67	1,704.60	264.07	7.455	
10,500.00	10,159.18	10,173.73	10,171.31	30.96	245.49	-111.779	1,968.68	-613.25	2,048.58	1,782.97	265.61	7.713	



Dixon Directional Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 452-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
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)		
16,100.00	10,175.00	10,187.74	10,185.81	128.64	243.69	-90.000	1,983.35	8,426.56	1,995.09	1,680.40	314.68	6.340	
16,200.00	10,175.00	10,187.74	10,185.81	130.67	243.69	-90.000	1,983.35	8,426.56	1,910.96	1,592.51	318.46	6.001	
16,300.00	10,175.00	10,187.74	10,185.81	132.70	243.69	-90.000	1,983.35	8,426.56	1,828.44	1,505.89	322.55	5.669	
16,400.00	10,175.00	10,187.74	10,185.81	134.74	243.69	-90.000	1,983.35	8,426.56	1,747.74	1,420.76	326.98	5.345	
16,500.00	10,175.00	10,187.74	10,185.81	136.77	243.69	-90.000	1,983.35	8,426.56	1,669.14	1,337.35	331.79	5.031	
16,600.00	10,175.00	10,187.74	10,185.81	138.80	243.69	-90.000	1,983.35	8,426.56	1,592.93	1,255.96	336.97	4.727	
16,700.00	10,175.00	10,187.74	10,185.81	140.84	243.69	-90.000	1,983.35	8,426.56	1,519.49	1,176.95	342.54	4.436	
16,800.00	10,175.00	10,187.74	10,185.81	142.88	243.69	-90.000	1,983.35	8,426.56	1,449.22	1,100.73	348.49	4.159	
16,900.00	10,175.00	10,187.74	10,185.81	144.92	243.69	-90.000	1,983.35	8,426.56	1,382.63	1,027.81	354.81	3.897	
17,000.00	10,175.00	10,187.74	10,185.81	146.95	243.69	-90.000	1,983.35	8,426.56	1,320.25	958.81	361.44	3.653	
17,100.00	10,175.00	10,187.74	10,185.81	148.99	243.69	-90.000	1,983.35	8,426.56	1,262.73	894.42	368.31	3.428	
17,200.00	10,175.00	10,187.74	10,185.81	151.03	243.69	-90.000	1,983.35	8,426.56	1,210.74	835.46	375.28	3.226	
17,300.00	10,175.00	10,187.74	10,185.81	153.08	243.69	-90.000	1,983.35	8,426.56	1,165.03	782.86	382.17	3.048	
17,400.00	10,175.00	10,187.74	10,185.81	155.12	243.69	-90.000	1,983.35	8,426.56	1,126.37	737.59	388.78	2.897	
17,500.00	10,175.00	10,187.74	10,185.81	157.16	243.69	-90.000	1,983.35	8,426.56	1,095.50	700.67	394.83	2.775	
17,600.00	10,175.00	10,187.74	10,185.81	159.20	243.69	-90.000	1,983.35	8,426.56	1,073.09	673.05	400.04	2.682	
17,700.00	10,175.00	10,187.74	10,185.81	161.25	243.69	-90.000	1,983.35	8,426.56	1,059.69	655.53	404.16	2.622	
17,792.95	10,175.00	10,187.74	10,185.81	163.15	243.69	-90.000	1,983.35	8,426.56	1,055.60	648.78	406.82	2.595 CC	
17,800.00	10,175.00	10,187.74	10,185.81	163.29	243.69	-90.000	1,983.35	8,426.56	1,055.63	648.65	406.98	2.594 ES, SF	
17,900.00	10,175.00	10,187.74	10,185.81	165.34	243.69	-90.000	1,983.35	8,426.56	1,061.02	652.63	408.39	2.598	
18,000.00	10,175.00	10,187.74	10,185.81	167.38	243.69	-90.000	1,983.35	8,426.56	1,075.72	667.31	408.41	2.634	
18,100.00	10,175.00	10,187.74	10,185.81	169.43	243.69	-90.000	1,983.35	8,426.56	1,099.35	692.22	407.13	2.700	
18,200.00	10,175.00	10,187.74	10,185.81	171.48	243.69	-90.000	1,983.35	8,426.56	1,131.37	726.61	404.75	2.795	
18,300.00	10,175.00	10,187.74	10,185.81	173.53	243.69	-90.000	1,983.35	8,426.56	1,171.07	769.56	401.51	2.917	
18,400.00	10,175.00	10,187.74	10,185.81	175.57	243.69	-90.000	1,983.35	8,426.56	1,217.71	820.07	397.64	3.062	
18,500.00	10,175.00	10,187.74	10,185.81	177.62	243.69	-90.000	1,983.35	8,426.56	1,270.52	877.16	393.36	3.230	
18,600.00	10,175.00	10,187.74	10,185.81	179.67	243.69	-90.000	1,983.35	8,426.56	1,328.77	939.90	388.87	3.417	
18,700.00	10,175.00	10,187.74	10,185.81	181.72	243.69	-90.000	1,983.35	8,426.56	1,391.78	1,007.47	384.30	3.622	
18,800.00	10,175.00	10,187.74	10,185.81	183.77	243.69	-90.000	1,983.35	8,426.56	1,458.92	1,079.14	379.78	3.842	
18,900.00	10,175.00	10,187.74	10,185.81	185.82	243.69	-90.000	1,983.35	8,426.56	1,529.66	1,154.29	375.37	4.075	
19,000.00	10,175.00	10,187.74	10,185.81	187.87	243.69	-90.000	1,983.35	8,426.56	1,603.52	1,232.38	371.13	4.321	
19,100.00	10,175.00	10,187.74	10,185.81	189.92	243.69	-90.000	1,983.35	8,426.56	1,680.08	1,312.99	367.10	4.577	
19,200.00	10,175.00	10,187.74	10,185.81	191.98	243.69	-90.000	1,983.35	8,426.56	1,759.00	1,395.72	363.28	4.842	
19,300.00	10,175.00	10,187.74	10,185.81	194.03	243.69	-90.000	1,983.35	8,426.56	1,839.97	1,480.29	359.68	5.116	
19,400.00	10,175.00	10,187.74	10,185.81	196.08	243.69	-90.000	1,983.35	8,426.56	1,922.73	1,566.43	356.30	5.396	
19,500.00	10,175.00	10,187.74	10,185.81	198.13	243.69	-90.000	1,983.35	8,426.56	2,007.07	1,653.93	353.14	5.683	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)											Offset Site Error: 0.00 usft		
Survey Program: 400-INC-ONLY											Offset Well Error: 0.00 usft		
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
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	
10,500.00	10,159.18	10,157.86	10,154.99	30.96	244.01	28.525	656.23	3,155.68	2,033.04	1,765.65	267.39	7.603	
10,600.00	10,173.94	10,172.61	10,169.75	31.38	244.42	65.442	656.23	3,155.68	1,935.09	1,667.19	267.90	7.223	
10,700.00	10,175.00	10,173.67	10,170.81	31.85	244.45	90.000	656.23	3,155.68	1,836.04	1,568.08	267.96	6.852	
10,800.00	10,175.00	10,173.67	10,170.81	32.46	244.45	90.000	656.23	3,155.68	1,737.07	1,469.08	267.99	6.482	
10,900.00	10,175.00	10,173.67	10,170.81	33.22	244.45	90.000	656.23	3,155.68	1,638.22	1,370.20	268.03	6.112	
11,000.00	10,175.00	10,173.67	10,170.81	34.11	244.45	90.000	656.23	3,155.68	1,539.53	1,271.45	268.08	5.743	
11,100.00	10,175.00	10,173.67	10,170.81	35.14	244.45	90.000	656.23	3,155.68	1,441.02	1,172.86	268.16	5.374	
11,200.00	10,175.00	10,173.67	10,170.81	36.30	244.45	90.000	656.23	3,155.68	1,342.72	1,074.46	268.26	5.005	
11,300.00	10,175.00	10,173.67	10,170.81	37.57	244.45	90.000	656.23	3,155.68	1,244.70	976.30	268.40	4.638	
11,400.00	10,175.00	10,173.67	10,170.81	38.94	244.45	90.000	656.23	3,155.68	1,147.02	878.43	268.59	4.271	
11,500.00	10,175.00	10,173.67	10,170.81	40.39	244.45	90.000	656.23	3,155.68	1,049.77	780.91	268.86	3.905	
11,600.00	10,175.00	10,173.67	10,170.81	41.92	244.45	90.000	656.23	3,155.68	953.10	683.86	269.24	3.540	
11,700.00	10,175.00	10,173.67	10,170.81	43.50	244.45	90.000	656.23	3,155.68	857.19	587.40	269.79	3.177	
11,800.00	10,175.00	10,173.67	10,170.81	45.13	244.45	90.000	656.23	3,155.68	762.33	491.73	270.59	2.817	
11,900.00	10,175.00	10,173.67	10,170.81	46.81	244.45	90.000	656.23	3,155.68	668.97	397.18	271.79	2.461	
12,000.00	10,175.00	10,173.67	10,170.81	48.53	244.45	90.000	656.23	3,155.68	577.83	304.22	273.61	2.112	
12,100.00	10,175.00	10,173.67	10,170.81	50.27	244.45	90.000	656.23	3,155.68	490.17	213.75	276.41	1.773	Level 3
12,200.00	10,175.00	10,173.67	10,170.81	52.05	244.45	90.000	656.23	3,155.68	408.21	127.49	280.72	1.454	Level 3
12,300.00	10,175.00	10,173.67	10,170.81	53.85	244.45	90.000	656.23	3,155.68	336.17	49.09	287.08	1.171	Level 3
12,400.00	10,175.00	10,173.67	10,170.81	55.67	244.45	90.000	656.23	3,155.68	281.75	-13.39	295.14	0.955	Level 3
12,500.00	10,175.00	10,173.67	10,170.81	57.51	244.45	90.000	656.23	3,155.68	256.43	-45.23	301.66	0.850	Level 3
12,518.13	10,175.00	10,173.67	10,170.81	57.84	244.45	90.000	656.23	3,155.68	255.79	-46.46	302.25	0.846	Level 3, CC, ES, SF
12,600.00	10,175.00	10,173.67	10,170.81	59.36	244.45	90.000	656.23	3,155.68	268.57	-33.46	302.03	0.889	Level 3
12,700.00	10,175.00	10,173.67	10,170.81	61.23	244.45	90.000	656.23	3,155.68	313.85	16.47	297.39	1.055	Level 3
12,800.00	10,175.00	10,173.67	10,170.81	63.12	244.45	90.000	656.23	3,155.68	380.63	88.75	291.88	1.304	Level 3
12,900.00	10,175.00	10,173.67	10,170.81	65.02	244.45	90.000	656.23	3,155.68	459.62	172.25	287.37	1.599	Level 3
13,000.00	10,175.00	10,173.67	10,170.81	66.92	244.45	90.000	656.23	3,155.68	545.55	261.55	284.00	1.921	Level 3
13,100.00	10,175.00	10,173.67	10,170.81	68.84	244.45	90.000	656.23	3,155.68	635.61	354.07	281.54	2.258	
13,200.00	10,175.00	10,173.67	10,170.81	70.77	244.45	90.000	656.23	3,155.68	728.27	448.55	279.71	2.604	
13,300.00	10,175.00	10,173.67	10,170.81	72.71	244.45	90.000	656.23	3,155.68	822.65	544.30	278.34	2.956	
13,400.00	10,175.00	10,173.67	10,170.81	74.65	244.45	90.000	656.23	3,155.68	918.22	640.92	277.29	3.311	
13,500.00	10,175.00	10,173.67	10,170.81	76.60	244.45	90.000	656.23	3,155.68	1,014.64	738.17	276.47	3.670	
13,600.00	10,175.00	10,173.67	10,170.81	78.56	244.45	90.000	656.23	3,155.68	1,111.70	835.87	275.83	4.030	
13,700.00	10,175.00	10,173.67	10,170.81	80.52	244.45	90.000	656.23	3,155.68	1,209.23	933.92	275.31	4.392	
13,800.00	10,175.00	10,173.67	10,170.81	82.49	244.45	90.000	656.23	3,155.68	1,307.14	1,032.25	274.89	4.755	
13,900.00	10,175.00	10,173.67	10,170.81	84.46	244.45	90.000	656.23	3,155.68	1,405.34	1,130.79	274.55	5.119	
14,000.00	10,175.00	10,173.67	10,170.81	86.44	244.45	90.000	656.23	3,155.68	1,503.78	1,229.51	274.28	5.483	
14,100.00	10,175.00	10,173.67	10,170.81	88.42	244.45	90.000	656.23	3,155.68	1,602.42	1,328.37	274.05	5.847	
14,200.00	10,175.00	10,173.67	10,170.81	90.40	244.45	90.000	656.23	3,155.68	1,701.21	1,427.35	273.86	6.212	
14,300.00	10,175.00	10,173.67	10,170.81	92.39	244.45	90.000	656.23	3,155.68	1,800.13	1,526.43	273.71	6.577	
14,400.00	10,175.00	10,173.67	10,170.81	94.39	244.45	90.000	656.23	3,155.68	1,899.17	1,625.59	273.58	6.942	
14,500.00	10,175.00	10,173.67	10,170.81	96.38	244.45	90.000	656.23	3,155.68	1,998.31	1,724.83	273.48	7.307	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth Only)													Offset Site Error: 0.00 usft
Survey Program: 5482-BLIND - TREND							Rule Assigned:						Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.358	654.74	1,834.47	1,948.05				
100.00	100.00	69.81	69.81	0.79	7.40	70.358	654.74	1,834.47	1,947.81	1,939.63	8.19	237.953	
200.00	200.00	169.81	169.81	1.45	18.00	70.358	654.74	1,834.47	1,947.81	1,928.37	19.45	100.164	
300.00	300.00	269.81	269.81	1.89	28.60	70.358	654.74	1,834.47	1,947.81	1,917.32	30.49	63.880	
400.00	400.00	369.81	369.81	2.25	39.20	70.358	654.74	1,834.47	1,947.81	1,906.36	41.45	46.988	
500.00	500.00	469.81	469.81	2.57	49.80	70.358	654.74	1,834.47	1,947.81	1,895.44	52.37	37.195	
600.00	600.00	569.81	569.81	2.85	60.40	70.358	654.74	1,834.47	1,947.81	1,884.56	63.25	30.796	
700.00	700.00	669.81	669.81	3.11	71.00	70.358	654.74	1,834.47	1,947.81	1,873.70	74.11	26.283	
800.00	800.00	769.81	769.81	3.35	81.60	70.358	654.74	1,834.47	1,947.81	1,862.86	84.95	22.929	
900.00	900.00	869.81	869.81	3.58	92.20	70.358	654.74	1,834.47	1,947.81	1,852.04	95.78	20.337	
1,000.00	1,000.00	969.81	969.81	3.79	102.80	70.358	654.74	1,834.47	1,947.81	1,841.22	106.59	18.274	
1,100.00	1,100.00	1,069.81	1,069.81	3.99	113.40	70.358	654.74	1,834.47	1,947.81	1,830.42	117.39	16.592	
1,200.00	1,200.00	1,169.81	1,169.81	4.19	124.00	70.358	654.74	1,834.47	1,947.81	1,819.62	128.19	15.195	
1,300.00	1,300.00	1,269.81	1,269.81	4.38	134.60	70.358	654.74	1,834.47	1,947.81	1,808.83	138.98	14.015	
1,400.00	1,400.00	1,369.81	1,369.81	4.56	145.20	70.358	654.74	1,834.47	1,947.81	1,798.05	149.76	13.006	
1,500.00	1,500.00	1,469.81	1,469.81	4.74	155.80	70.358	654.74	1,834.47	1,947.81	1,787.27	160.54	12.133	
1,600.00	1,600.00	1,569.81	1,569.81	4.91	166.40	70.358	654.74	1,834.47	1,947.81	1,776.50	171.31	11.370	
1,700.00	1,700.00	1,669.81	1,669.81	5.08	177.00	70.358	654.74	1,834.47	1,947.81	1,765.73	182.08	10.698	
1,800.00	1,800.00	1,769.81	1,769.81	5.24	187.60	70.358	654.74	1,834.47	1,947.81	1,754.97	192.84	10.101	
1,900.00	1,900.00	1,869.81	1,869.81	5.40	198.20	70.358	654.74	1,834.47	1,947.81	1,744.21	203.60	9.567	
2,000.00	2,000.00	1,969.81	1,969.81	5.56	208.80	70.358	654.74	1,834.47	1,947.81	1,733.45	214.36	9.087	
2,100.00	2,099.95	2,069.76	2,069.76	5.94	219.40	32.753	654.74	1,834.47	1,945.61	1,720.34	225.27	8.637	
2,200.00	2,199.63	2,169.44	2,169.44	6.32	229.96	32.986	654.74	1,834.47	1,939.01	1,702.87	236.15	8.211	
2,300.00	2,298.77	2,268.58	2,268.58	6.70	240.47	33.379	654.74	1,834.47	1,928.06	1,681.10	246.97	7.807	
2,400.00	2,397.08	2,366.89	2,366.89	7.09	250.89	33.935	654.74	1,834.47	1,912.81	1,655.11	257.70	7.423	
2,500.00	2,494.43	2,464.24	2,464.24	7.28	261.21	34.498	654.74	1,834.47	1,893.76	1,625.59	268.17	7.062	
2,600.00	2,591.59	2,561.40	2,561.40	7.53	271.51	34.905	654.74	1,834.47	1,874.12	1,595.44	278.68	6.725	
2,700.00	2,688.74	2,658.55	2,658.55	7.79	281.81	35.319	654.74	1,834.47	1,854.57	1,565.37	289.20	6.413	
2,800.00	2,785.90	2,755.71	2,755.71	8.08	292.11	35.742	654.74	1,834.47	1,835.12	1,535.38	299.74	6.122	
2,900.00	2,883.06	2,852.87	2,852.87	8.39	302.40	36.174	654.74	1,834.47	1,815.77	1,505.48	310.29	5.852	
3,000.00	2,980.22	2,950.03	2,950.03	8.71	312.70	36.616	654.74	1,834.47	1,796.52	1,475.67	320.85	5.599	
3,100.00	3,077.37	3,047.18	3,047.18	9.05	323.00	37.066	654.74	1,834.47	1,777.38	1,445.96	331.42	5.363	
3,200.00	3,174.53	3,144.34	3,144.34	9.40	333.30	37.526	654.74	1,834.47	1,758.35	1,416.35	341.99	5.141	
3,300.00	3,271.69	3,241.50	3,241.50	9.77	343.60	37.996	654.74	1,834.47	1,739.43	1,386.85	352.58	4.933	
3,400.00	3,368.84	3,338.65	3,338.65	10.14	353.90	38.476	654.74	1,834.47	1,720.63	1,357.47	363.17	4.738	
3,500.00	3,466.00	3,435.81	3,435.81	10.52	364.20	38.967	654.74	1,834.47	1,701.96	1,328.20	373.76	4.554	
3,600.00	3,563.16	3,532.97	3,532.97	10.92	374.49	39.468	654.74	1,834.47	1,683.41	1,299.05	384.36	4.380	
3,700.00	3,660.32	3,630.13	3,630.13	11.31	384.79	39.979	654.74	1,834.47	1,664.99	1,270.03	394.95	4.216	
3,800.00	3,757.47	3,727.28	3,727.28	11.72	395.09	40.502	654.74	1,834.47	1,646.70	1,241.15	405.55	4.060	
3,900.00	3,854.63	3,824.44	3,824.44	12.13	405.39	41.037	654.74	1,834.47	1,628.55	1,212.40	416.15	3.913	
4,000.00	3,951.79	3,921.60	3,921.60	12.55	415.69	41.583	654.74	1,834.47	1,610.55	1,183.79	426.75	3.774	
4,100.00	4,048.95	4,018.76	4,018.76	12.97	425.99	42.141	654.74	1,834.47	1,592.69	1,155.34	437.35	3.642	
4,200.00	4,146.10	4,115.91	4,115.91	13.40	436.29	42.711	654.74	1,834.47	1,574.99	1,127.04	447.95	3.516	
4,300.00	4,243.26	4,213.07	4,213.07	13.83	446.59	43.294	654.74	1,834.47	1,557.44	1,098.90	458.55	3.396	
4,400.00	4,340.42	4,310.23	4,310.23	14.27	456.88	43.890	654.74	1,834.47	1,540.06	1,070.93	469.14	3.283	
4,500.00	4,437.57	4,407.38	4,407.38	14.71	467.18	44.499	654.74	1,834.47	1,522.85	1,043.13	479.73	3.174	
4,600.00	4,534.73	4,504.54	4,504.54	15.15	477.48	45.121	654.74	1,834.47	1,505.82	1,015.51	490.31	3.071	
4,700.00	4,631.89	4,601.70	4,601.70	15.59	487.78	45.758	654.74	1,834.47	1,488.97	988.07	500.89	2.973	
4,800.00	4,729.05	4,698.86	4,698.86	16.04	498.08	46.408	654.74	1,834.47	1,472.30	960.83	511.47	2.879	
4,900.00	4,826.20	4,796.01	4,796.01	16.49	508.38	47.072	654.74	1,834.47	1,455.83	933.79	522.04	2.789	
5,000.00	4,923.36	4,893.17	4,893.17	16.94	518.68	47.752	654.74	1,834.47	1,439.56	906.95	532.61	2.703	
5,100.00	5,020.52	4,990.33	4,990.33	17.39	528.97	48.446	654.74	1,834.47	1,423.50	880.33	543.17	2.621	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth Only)													Offset Site Error:	0.00 usft
Survey Program:		5482-BLIND - TREND					Rule Assigned:						Offset Well Error:	0.00 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)				
5,200.00	5,117.68	5,087.49	5,087.49	17.85	539.27	49.155	654.74	1,834.47	1,407.65	853.93	553.72	2.542		
5,300.00	5,214.83	5,184.64	5,184.64	18.31	549.57	49.880	654.74	1,834.47	1,392.03	827.75	564.27	2.467		
5,400.00	5,311.99	5,281.80	5,281.80	18.77	559.87	50.621	654.74	1,834.47	1,376.63	801.82	574.81	2.395		
5,500.00	5,409.15	5,378.96	5,378.96	19.23	570.17	51.378	654.74	1,834.47	1,361.47	776.13	585.35	2.326		
5,600.00	5,506.30	5,476.11	5,476.11	19.69	580.47	52.151	654.74	1,834.47	1,346.56	750.69	595.87	2.260		
5,700.00	5,603.46	5,482.00	5,482.00	20.15	581.09	52.199	654.74	1,834.47	1,335.03	739.50	595.52	2.242	ES, SF	
5,800.00	5,700.62	5,482.00	5,482.00	20.62	581.09	52.199	654.74	1,834.47	1,330.91	739.54	591.37	2.251		
5,804.78	5,705.27	5,482.00	5,482.00	20.64	581.09	52.199	654.74	1,834.47	1,330.90	739.81	591.09	2.252	CC	
5,900.00	5,797.78	5,482.00	5,482.00	21.08	581.09	52.199	654.74	1,834.47	1,334.30	750.26	584.04	2.285		
6,000.00	5,894.93	5,482.00	5,482.00	21.55	581.09	52.199	654.74	1,834.47	1,345.14	771.44	573.70	2.345		
6,100.00	5,992.09	5,482.00	5,482.00	22.02	581.09	52.199	654.74	1,834.47	1,363.24	802.57	560.68	2.431		
6,200.00	6,089.25	5,482.00	5,482.00	22.49	581.09	52.199	654.74	1,834.47	1,388.33	842.94	545.39	2.546		
6,300.00	6,186.40	5,482.00	5,482.00	22.96	581.09	52.199	654.74	1,834.47	1,420.03	891.69	528.34	2.688		
6,400.00	6,283.56	5,482.00	5,482.00	23.43	581.09	52.199	654.74	1,834.47	1,457.92	947.90	510.02	2.859		
6,500.00	6,380.72	5,482.00	5,482.00	23.90	581.09	52.199	654.74	1,834.47	1,501.52	1,010.60	490.92	3.059		
6,600.00	6,477.88	5,482.00	5,482.00	24.37	581.09	52.199	654.74	1,834.47	1,550.35	1,078.90	471.45	3.288		
6,700.00	6,575.03	5,482.00	5,482.00	24.84	581.09	52.199	654.74	1,834.47	1,603.94	1,151.95	451.99	3.549		
6,800.00	6,672.19	5,482.00	5,482.00	25.32	581.09	52.199	654.74	1,834.47	1,661.83	1,229.00	432.83	3.839		
6,900.00	6,769.67	5,482.00	5,482.00	25.79	581.09	53.633	654.74	1,834.47	1,724.23	1,309.99	414.24	4.162		
7,000.00	6,868.14	5,482.00	5,482.00	26.28	581.09	55.908	654.74	1,834.47	1,792.23	1,395.63	396.60	4.519		
7,100.00	6,967.39	5,482.00	5,482.00	26.74	581.09	58.596	654.74	1,834.47	1,865.11	1,485.05	380.07	4.907		
7,200.00	7,067.13	5,482.00	5,482.00	27.15	581.09	61.743	654.74	1,834.47	1,942.14	1,577.40	364.74	5.325		
7,300.00	7,167.11	5,482.00	5,482.00	27.30	581.09	102.412	654.74	1,834.47	2,022.63	1,671.98	350.65	5.768		

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	3.92	3.92	0.00	0.03	-8.747	296.63	-45.64	300.12				
100.00	100.00	103.92	103.92	0.79	0.81	-8.747	296.63	-45.64	300.12	298.52	1.60	187.906	
200.00	200.00	203.92	203.92	1.45	1.46	-8.747	296.63	-45.64	300.12	297.21	2.91	103.146	
300.00	300.00	303.92	303.92	1.89	1.91	-8.747	296.63	-45.64	300.12	296.32	3.80	79.030	
400.00	400.00	403.92	403.92	2.25	2.27	-8.747	296.63	-45.64	300.12	295.60	4.52	66.403	
500.00	500.00	503.92	503.92	2.57	2.58	-8.747	296.63	-45.64	300.12	294.97	5.15	58.316	
600.00	600.00	603.92	603.92	2.85	2.86	-8.747	296.63	-45.64	300.12	294.41	5.71	52.567	
700.00	700.00	703.92	703.92	3.11	3.12	-8.747	296.63	-45.64	300.12	293.89	6.23	48.206	
800.00	800.00	803.92	803.92	3.35	3.36	-8.747	296.63	-45.64	300.12	293.41	6.71	44.751	
900.00	900.00	903.92	903.92	3.58	3.58	-8.747	296.63	-45.64	300.12	292.96	7.16	41.924	
1,000.00	1,000.00	1,003.92	1,003.92	3.79	3.80	-8.747	296.63	-45.64	300.12	292.53	7.59	39.555	
1,100.00	1,100.00	1,103.92	1,103.92	3.99	4.00	-8.747	296.63	-45.64	300.12	292.12	8.00	37.531	
1,200.00	1,200.00	1,203.92	1,203.92	4.19	4.20	-8.747	296.63	-45.64	300.12	291.73	8.39	35.775	
1,300.00	1,300.00	1,303.92	1,303.92	4.38	4.39	-8.747	296.63	-45.64	300.12	291.35	8.77	34.233	
1,400.00	1,400.00	1,403.92	1,403.92	4.56	4.57	-8.747	296.63	-45.64	300.12	290.99	9.13	32.864	
1,500.00	1,500.00	1,503.92	1,503.92	4.74	4.75	-8.747	296.63	-45.64	300.12	290.63	9.49	31.638	
1,600.00	1,600.00	1,603.92	1,603.92	4.91	4.92	-8.747	296.63	-45.64	300.12	290.29	9.83	30.531	
1,700.00	1,700.00	1,703.92	1,703.92	5.08	5.09	-8.747	296.63	-45.64	300.12	289.96	10.16	29.526	
1,800.00	1,800.00	1,803.92	1,803.92	5.24	5.25	-8.747	296.63	-45.64	300.12	289.63	10.49	28.606	
1,900.00	1,900.00	1,903.92	1,903.92	5.40	5.41	-8.747	296.63	-45.64	300.12	289.31	10.81	27.761	
2,000.00	2,000.00	2,003.92	2,003.92	5.56	5.56	-8.747	296.63	-45.64	300.12	289.00	11.12	26.981	
2,100.00	2,099.95	2,103.87	2,103.87	5.94	5.72	-46.833	296.63	-45.64	298.32	286.78	11.54	25.856	
2,200.00	2,199.63	2,203.55	2,203.55	6.32	5.87	-48.068	296.63	-45.64	293.01	281.07	11.94	24.546	
2,300.00	2,298.77	2,302.69	2,302.69	6.70	6.01	-50.212	296.63	-45.64	284.42	272.11	12.32	23.092	
2,400.00	2,397.08	2,401.00	2,401.00	7.09	6.16	-53.395	296.63	-45.64	273.03	260.37	12.67	21.555	
2,500.00	2,494.43	2,498.35	2,498.35	7.28	6.30	-57.558	296.63	-45.64	259.85	246.98	12.86	20.202	
2,600.00	2,591.59	2,595.51	2,595.51	7.53	6.43	-62.082	296.63	-45.64	247.68	234.58	13.10	18.906	
2,700.00	2,688.74	2,692.66	2,692.66	7.79	6.57	-67.019	296.63	-45.64	237.26	223.93	13.33	17.798	
2,800.00	2,785.90	2,789.82	2,789.82	8.08	6.70	-72.343	296.63	-45.64	228.82	215.26	13.55	16.882	
2,900.00	2,883.06	2,886.98	2,886.98	8.39	6.83	-78.001	296.63	-45.64	222.59	208.81	13.78	16.155	
3,000.00	2,980.22	2,984.14	2,984.14	8.71	6.96	-83.907	296.63	-45.64	218.75	204.74	14.02	15.606	
3,100.00	3,077.37	3,081.29	3,081.29	9.05	7.09	-89.944	296.63	-45.64	217.44	203.16	14.29	15.219	
3,100.91	3,078.26	3,082.18	3,082.18	9.05	7.09	-90.000	296.63	-45.64	217.44	203.15	14.29	15.216 CC, ES	
3,200.00	3,174.53	3,178.45	3,178.45	9.40	7.22	-95.983	296.63	-45.64	218.71	204.10	14.61	14.973	
3,300.00	3,271.69	3,275.61	3,275.61	9.77	7.34	-101.892	296.63	-45.64	222.49	207.51	14.99	14.847	
3,400.00	3,368.84	3,372.76	3,372.76	10.14	7.47	-107.556	296.63	-45.64	228.68	213.25	15.43	14.821	
3,500.00	3,466.00	3,469.92	3,469.92	10.52	7.59	-112.887	296.63	-45.64	237.08	221.15	15.93	14.880	
3,600.00	3,563.16	3,573.30	3,573.30	10.92	7.76	-118.098	296.64	-44.70	246.63	230.08	16.54	14.909	
3,700.00	3,660.32	3,680.29	3,680.17	11.31	7.94	-122.969	296.69	-39.97	254.46	237.25	17.21	14.786	
3,800.00	3,757.47	3,787.98	3,787.49	11.72	8.14	-127.522	296.79	-31.18	260.12	242.20	17.92	14.516	
3,900.00	3,854.63	3,896.07	3,894.80	12.13	8.36	-131.911	296.92	-18.31	263.42	244.75	18.68	14.105	
4,000.00	3,951.79	4,004.25	4,001.65	12.55	8.60	-136.274	297.11	-1.38	264.33	244.85	19.48	13.570	
4,100.00	4,048.95	4,112.22	4,107.57	12.97	8.85	-140.745	297.33	19.52	262.90	242.58	20.33	12.934	
4,200.00	4,146.10	4,215.63	4,208.28	13.40	9.06	-145.254	297.59	42.97	259.63	238.47	21.16	12.273	
4,300.00	4,243.26	4,313.53	4,303.49	13.83	9.29	-149.651	297.83	65.77	257.34	235.29	22.05	11.672	
4,400.00	4,340.42	4,411.43	4,398.70	14.27	9.53	-154.096	298.08	88.57	256.64	233.70	22.94	11.188	
4,400.00	4,340.42	4,411.44	4,398.71	14.27	9.53	-154.096	298.08	88.57	256.64	233.70	22.94	11.188	
4,500.00	4,437.57	4,509.34	4,493.92	14.71	9.80	-158.538	298.32	111.36	257.56	233.75	23.82	10.814	
4,600.00	4,534.73	4,607.24	4,589.13	15.15	10.07	-162.923	298.57	134.16	260.08	235.42	24.66	10.545	
4,700.00	4,631.89	4,705.14	4,684.34	15.59	10.37	-167.203	298.82	156.96	264.15	238.69	25.46	10.374	
4,800.00	4,729.05	4,803.05	4,779.55	16.04	10.67	-171.336	299.06	179.76	269.70	243.49	26.21	10.290	
4,900.00	4,826.20	4,900.95	4,874.76	16.49	10.99	-175.289	299.31	202.56	276.65	249.75	26.90	10.284	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
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)		
5,000.00	4,923.36	4,998.85	4,969.97	16.94	11.32	-179.038	299.55	225.35	284.88	257.35	27.54	10.346	
5,100.00	5,020.52	5,096.75	5,065.18	17.39	11.66	177.430	299.80	248.15	294.30	266.18	28.12	10.466	
5,200.00	5,117.68	5,194.66	5,160.40	17.85	12.01	174.123	300.05	270.95	304.79	276.13	28.66	10.635	
5,300.00	5,214.83	5,292.56	5,255.61	18.31	12.37	171.038	300.29	293.75	316.24	287.08	29.16	10.846	
5,400.00	5,311.99	5,390.46	5,350.82	18.77	12.73	168.171	300.54	316.55	328.56	298.93	29.63	11.090	
5,500.00	5,409.15	5,488.37	5,446.03	19.23	13.11	165.512	300.78	339.34	341.65	311.58	30.07	11.361	
5,600.00	5,506.30	5,586.27	5,541.24	19.69	13.49	163.049	301.03	362.14	355.43	324.93	30.50	11.653	
5,700.00	5,603.46	5,684.17	5,636.45	20.15	13.87	160.771	301.28	384.94	369.82	338.90	30.91	11.962	
5,800.00	5,700.62	5,782.08	5,731.66	20.62	14.26	158.662	301.52	407.74	384.74	353.42	31.32	12.284	
5,900.00	5,797.78	5,879.98	5,826.87	21.08	14.66	156.710	301.77	430.54	400.15	368.43	31.72	12.614	
6,000.00	5,894.93	5,977.88	5,922.09	21.55	15.06	154.903	302.01	453.33	415.99	383.87	32.12	12.951	
6,100.00	5,992.09	6,075.78	6,017.30	22.02	15.47	153.228	302.26	476.13	432.20	399.68	32.52	13.290	
6,200.00	6,089.25	6,173.69	6,112.51	22.49	15.88	151.673	302.51	498.93	448.76	415.84	32.92	13.631	
6,300.00	6,186.40	6,271.59	6,207.72	22.96	16.29	150.228	302.75	521.73	465.61	432.29	33.33	13.972	
6,400.00	6,283.56	6,369.49	6,302.93	23.43	16.71	148.884	303.00	544.53	482.74	449.01	33.73	14.310	
6,500.00	6,380.72	6,467.40	6,398.14	23.90	17.13	147.631	303.24	567.32	500.11	465.97	34.15	14.646	
6,600.00	6,477.88	6,565.30	6,493.35	24.37	17.55	146.462	303.49	590.12	517.70	483.14	34.57	14.977	
6,700.00	6,575.03	6,663.20	6,588.56	24.84	17.98	145.370	303.74	612.92	535.49	500.50	34.99	15.302	
6,800.00	6,672.19	6,760.51	6,683.30	25.32	18.41	144.402	303.98	635.12	553.49	518.06	35.42	15.624	
6,900.00	6,769.67	6,857.75	6,778.60	25.79	18.84	143.932	304.19	654.44	570.64	534.77	35.87	15.909	
7,000.00	6,868.14	6,955.81	6,875.31	26.28	19.27	143.552	304.36	670.63	583.99	547.67	36.32	16.079	
7,100.00	6,967.39	7,054.53	6,973.17	26.74	19.68	143.153	304.50	683.58	593.35	556.63	36.72	16.157	
7,200.00	7,067.13	7,153.76	7,071.93	27.15	20.07	142.723	304.60	693.19	598.68	561.61	37.07	16.151	
7,300.00	7,167.11	7,253.32	7,171.29	27.30	20.42	179.941	304.67	699.39	600.02	562.83	37.19	16.132	
7,400.00	7,267.11	7,353.13	7,271.06	27.35	20.67	179.679	304.70	702.14	600.00	562.72	37.28	16.095	
7,446.49	7,313.59	7,399.58	7,317.51	27.37	20.72	179.665	304.70	702.28	600.00	562.68	37.32	16.075	
7,500.00	7,367.11	7,453.10	7,371.03	27.39	20.75	179.665	304.70	702.28	600.00	562.60	37.40	16.044	
7,600.00	7,467.11	7,553.10	7,471.03	27.44	20.80	179.665	304.70	702.28	600.00	562.47	37.53	15.987	
7,700.00	7,567.11	7,653.10	7,571.03	27.48	20.85	179.665	304.70	702.28	600.00	562.34	37.66	15.933	
7,800.00	7,667.11	7,753.10	7,671.03	27.52	20.90	179.665	304.70	702.28	600.00	562.21	37.79	15.879	
7,900.00	7,767.11	7,853.10	7,771.03	27.56	20.94	179.665	304.70	702.28	600.00	562.09	37.91	15.826	
8,000.00	7,867.11	7,953.10	7,871.03	27.60	20.99	179.665	304.70	702.28	600.00	561.96	38.04	15.773	
8,100.00	7,967.11	8,053.10	7,971.03	27.65	21.04	179.665	304.70	702.28	600.00	561.83	38.17	15.720	
8,200.00	8,067.11	8,153.10	8,071.03	27.69	21.09	179.665	304.70	702.28	600.00	561.70	38.30	15.667	
8,300.00	8,167.11	8,253.10	8,171.03	27.73	21.14	179.665	304.70	702.28	600.00	561.58	38.43	15.615	
8,400.00	8,267.11	8,353.10	8,271.03	27.78	21.18	179.665	304.70	702.28	600.00	561.45	38.55	15.563	
8,500.00	8,367.11	8,453.10	8,371.03	27.82	21.23	179.665	304.70	702.28	600.00	561.32	38.68	15.511	
8,600.00	8,467.11	8,553.10	8,471.03	27.86	21.28	179.665	304.70	702.28	600.00	561.19	38.81	15.459	
8,700.00	8,567.11	8,653.10	8,571.03	27.91	21.33	179.665	304.70	702.28	600.00	561.06	38.94	15.408	
8,800.00	8,667.11	8,753.10	8,671.03	27.95	21.38	179.665	304.70	702.28	600.00	560.93	39.07	15.357	
8,900.00	8,767.11	8,853.10	8,771.03	27.99	21.42	179.665	304.70	702.28	600.00	560.80	39.20	15.305	
8,901.27	8,768.38	8,854.37	8,772.30	27.99	21.42	179.665	304.70	702.28	600.00	560.79	39.21	15.304	
9,000.00	8,867.11	8,952.26	8,869.89	28.04	21.71	179.090	304.72	708.31	600.05	560.83	39.22	15.301	
9,100.00	8,967.11	9,046.64	8,961.74	28.08	22.18	177.062	304.78	729.57	600.77	561.76	39.01	15.401	
9,200.00	9,067.11	9,132.08	9,040.87	28.13	22.64	174.023	304.88	761.58	603.85	565.19	38.65	15.622	
9,300.00	9,167.11	9,206.61	9,105.36	28.17	23.04	170.527	304.99	798.84	611.53	573.29	38.24	15.991	
9,400.00	9,267.11	9,270.15	9,156.12	28.22	23.37	167.018	305.10	837.00	625.95	588.07	37.88	16.526	
9,500.00	9,367.11	9,323.72	9,195.43	28.26	23.63	163.762	305.21	873.37	648.61	611.01	37.60	17.248	
9,600.00	9,467.11	9,368.75	9,225.72	28.31	23.84	160.871	305.31	906.67	680.19	642.74	37.45	18.162	
9,700.00	9,567.11	9,400.00	9,245.16	28.35	23.97	158.808	305.38	931.13	720.66	683.30	37.36	19.288	
9,800.00	9,666.97	9,450.00	9,273.41	28.48	24.17	62.568	305.51	972.37	768.03	730.46	37.57	20.442	
9,900.00	9,764.83	9,476.05	9,286.67	28.78	24.26	56.547	305.57	994.79	815.86	778.18	37.68	21.651	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 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)			
10,000.00	9,857.75	9,513.30	9,303.83	29.12	24.39	50.881	305.67	1,027.84	861.68	823.71	37.97	22.692	
10,100.00	9,942.90	9,550.00	9,318.61	29.48	24.50	46.297	305.77	1,061.43	903.53	865.25	38.29	23.600	
10,200.00	10,017.70	9,600.00	9,335.22	29.85	24.62	42.454	305.91	1,108.57	940.08	901.32	38.77	24.250	
10,300.00	10,079.86	9,631.37	9,343.52	30.21	24.68	39.904	306.00	1,138.82	970.01	930.98	39.03	24.856	
10,400.00	10,127.50	9,671.98	9,351.79	30.58	24.74	37.991	306.12	1,178.57	992.80	953.39	39.41	25.193	
10,500.00	10,159.18	9,700.00	9,355.84	30.96	24.78	36.853	306.20	1,206.29	1,008.02	968.35	39.67	25.411	
10,519.95	10,163.50	9,721.11	9,357.99	31.04	24.80	36.639	306.27	1,227.29	1,009.85	969.93	39.92	25.299	
10,600.00	10,173.94	9,750.00	9,359.68	31.38	24.82	36.269	306.35	1,256.13	1,014.75	974.50	40.24	25.215	
10,678.46	10,176.84	9,810.88	9,360.00	31.75	24.84	36.170	306.53	1,317.01	1,016.68	975.78	40.91	24.853	
10,700.00	10,175.00	9,832.46	9,360.00	31.85	24.84	36.229	306.60	1,338.58	1,015.20	974.04	41.16	24.663	
10,723.32	10,175.00	9,855.78	9,360.00	31.99	24.85	36.229	306.67	1,361.90	1,015.20	973.75	41.45	24.493	
10,800.00	10,175.00	9,932.46	9,360.00	32.46	24.87	36.229	306.90	1,438.58	1,015.20	972.79	42.41	23.937	
10,823.32	10,175.00	9,955.78	9,360.00	32.63	24.89	36.229	306.97	1,461.90	1,015.20	972.47	42.73	23.759	
10,900.00	10,175.00	10,032.46	9,360.00	33.22	25.16	36.229	307.20	1,538.58	1,015.20	971.41	43.79	23.182	
10,923.32	10,175.00	10,055.78	9,360.00	33.42	25.49	36.229	307.26	1,561.90	1,015.20	971.06	44.14	23.000	
11,000.00	10,175.00	10,132.46	9,360.00	34.11	26.74	36.229	307.49	1,638.58	1,015.20	969.90	45.30	22.412	
11,023.32	10,175.00	10,155.78	9,360.00	34.34	27.13	36.229	307.56	1,661.90	1,015.20	969.53	45.67	22.229	
11,100.00	10,175.00	10,232.46	9,360.00	35.14	28.45	36.229	307.79	1,738.58	1,015.20	968.29	46.91	21.641	
11,123.32	10,175.00	10,255.78	9,360.00	35.41	28.86	36.229	307.86	1,761.90	1,015.20	967.89	47.31	21.460	
11,200.00	10,175.00	10,332.46	9,360.00	36.30	30.21	36.229	308.09	1,838.58	1,015.20	966.57	48.63	20.878	
11,223.32	10,175.00	10,355.78	9,360.00	36.59	30.63	36.229	308.16	1,861.90	1,015.20	966.15	49.04	20.700	
11,300.00	10,175.00	10,432.46	9,360.00	37.57	32.01	36.229	308.39	1,938.58	1,015.20	964.77	50.43	20.130	
11,323.32	10,175.00	10,455.78	9,360.00	37.89	32.44	36.229	308.46	1,961.90	1,015.20	964.33	50.87	19.957	
11,400.00	10,175.00	10,532.46	9,360.00	38.94	33.85	36.229	308.69	2,038.58	1,015.20	962.88	52.32	19.405	
11,423.32	10,175.00	10,555.78	9,360.00	39.28	34.28	36.229	308.76	2,061.90	1,015.20	962.43	52.77	19.237	
11,500.00	10,175.00	10,632.46	9,360.00	40.39	35.70	36.229	308.98	2,138.58	1,015.20	960.92	54.28	18.704	
11,523.32	10,175.00	10,655.78	9,360.00	40.75	36.14	36.229	309.05	2,161.90	1,015.20	960.45	54.75	18.543	
11,600.00	10,175.00	10,732.46	9,360.00	41.92	37.58	36.229	309.28	2,238.58	1,015.20	958.90	56.30	18.031	
11,623.32	10,175.00	10,755.78	9,360.00	42.28	38.03	36.229	309.35	2,261.90	1,015.20	958.41	56.79	17.878	
11,700.00	10,175.00	10,832.46	9,360.00	43.50	39.48	36.229	309.58	2,338.58	1,015.20	956.81	58.39	17.388	
11,723.32	10,175.00	10,855.78	9,360.00	43.88	39.93	36.229	309.65	2,361.90	1,015.20	956.32	58.88	17.241	
11,800.00	10,175.00	10,932.46	9,360.00	45.13	41.40	36.229	309.88	2,438.58	1,015.20	954.68	60.52	16.774	
11,823.32	10,175.00	10,955.78	9,360.00	45.52	41.85	36.229	309.95	2,461.90	1,015.20	954.17	61.03	16.635	
11,900.00	10,175.00	11,032.46	9,360.00	46.81	43.33	36.229	310.18	2,538.58	1,015.20	952.49	62.71	16.190	
11,923.32	10,175.00	11,055.78	9,360.00	47.21	43.78	36.229	310.25	2,561.90	1,015.20	951.97	63.22	16.057	
12,000.00	10,175.00	11,132.46	9,360.00	48.53	45.27	36.229	310.48	2,638.58	1,015.20	950.27	64.93	15.635	
12,023.32	10,175.00	11,155.78	9,360.00	48.93	45.73	36.229	310.55	2,661.89	1,015.20	949.74	65.46	15.509	
12,100.00	10,175.00	11,232.46	9,360.00	50.27	47.22	36.229	310.77	2,738.58	1,015.20	948.00	67.20	15.108	
12,123.32	10,175.00	11,255.78	9,360.00	50.69	47.68	36.229	310.84	2,761.89	1,015.20	947.47	67.73	14.988	
12,200.00	10,175.00	11,332.46	9,360.00	52.05	49.19	36.229	311.07	2,838.58	1,015.20	945.70	69.50	14.608	
12,223.32	10,175.00	11,355.78	9,360.00	52.47	49.65	36.229	311.14	2,861.89	1,015.20	945.16	70.04	14.494	
12,300.00	10,175.00	11,432.46	9,360.00	53.85	51.16	36.229	311.37	2,938.58	1,015.20	943.37	71.83	14.134	
12,323.32	10,175.00	11,455.78	9,360.00	54.27	51.62	36.229	311.44	2,961.89	1,015.20	942.82	72.38	14.026	
12,400.00	10,175.00	11,532.46	9,360.00	55.67	53.14	36.229	311.67	3,038.58	1,015.20	941.01	74.19	13.684	
12,423.32	10,175.00	11,555.78	9,360.00	56.10	53.60	36.229	311.74	3,061.89	1,015.20	940.45	74.74	13.582	
12,500.00	10,175.00	11,632.46	9,360.00	57.51	55.12	36.229	311.97	3,138.58	1,015.20	938.62	76.58	13.258	
12,523.32	10,175.00	11,655.78	9,360.00	57.94	55.59	36.229	312.04	3,161.89	1,015.20	938.06	77.14	13.161	
12,600.00	10,175.00	11,732.46	9,360.00	59.36	57.11	36.229	312.26	3,238.57	1,015.20	936.21	78.98	12.853	
12,623.32	10,175.00	11,755.78	9,360.00	59.80	57.58	36.229	312.33	3,261.89	1,015.20	935.65	79.55	12.762	
12,700.00	10,175.00	11,832.46	9,360.00	61.23	59.11	36.229	312.56	3,338.57	1,015.20	933.78	81.42	12.469	
12,723.32	10,175.00	11,855.78	9,360.00	61.67	59.58	36.229	312.63	3,361.89	1,015.20	933.21	81.99	12.383	
12,800.00	10,175.00	11,932.46	9,360.00	63.12	61.11	36.229	312.86	3,438.57	1,015.20	931.33	83.87	12.105	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
12,823.32	10,175.00	11,955.78	9,360.00	63.56	61.58	36.229	312.93	3,461.89	1,015.20	930.76	84.44	12.023	
12,900.00	10,175.00	12,032.46	9,360.00	65.02	63.12	36.229	313.16	3,538.57	1,015.20	928.86	86.33	11.759	
12,923.32	10,175.00	12,055.78	9,360.00	65.46	63.58	36.229	313.23	3,561.89	1,015.20	928.28	86.91	11.681	
13,000.00	10,175.00	12,132.46	9,360.00	66.92	65.13	36.229	313.46	3,638.57	1,015.20	926.38	88.82	11.430	
13,023.32	10,175.00	12,155.78	9,360.00	67.37	65.60	36.229	313.53	3,661.89	1,015.20	925.80	89.40	11.355	
13,100.00	10,175.00	12,232.46	9,360.00	68.84	67.14	36.229	313.76	3,738.57	1,015.20	923.88	91.32	11.117	
13,123.32	10,175.00	12,255.78	9,360.00	69.29	67.61	36.229	313.83	3,761.89	1,015.20	923.29	91.91	11.046	
13,200.00	10,175.00	12,332.46	9,360.00	70.77	69.16	36.229	314.05	3,838.57	1,015.20	921.37	93.83	10.819	
13,223.32	10,175.00	12,355.78	9,360.00	71.22	69.63	36.229	314.12	3,861.89	1,015.20	920.78	94.42	10.752	
13,300.00	10,175.00	12,432.46	9,360.00	72.71	71.18	36.229	314.35	3,938.57	1,015.20	918.84	96.36	10.535	
13,323.32	10,175.00	12,455.78	9,360.00	73.16	71.65	36.229	314.42	3,961.89	1,015.20	918.25	96.95	10.471	
13,400.00	10,175.00	12,532.46	9,360.00	74.65	73.20	36.229	314.65	4,038.57	1,015.20	916.30	98.90	10.265	
13,423.32	10,175.00	12,555.78	9,360.00	75.10	73.67	36.229	314.72	4,061.89	1,015.20	915.71	99.49	10.204	
13,500.00	10,175.00	12,632.46	9,360.00	76.60	75.22	36.229	314.95	4,138.57	1,015.20	913.75	101.45	10.007	
13,523.32	10,175.00	12,655.78	9,360.00	77.05	75.70	36.229	315.02	4,161.89	1,015.20	913.15	102.04	9.949	
13,600.00	10,175.00	12,732.46	9,360.00	78.56	77.25	36.229	315.25	4,238.57	1,015.20	911.19	104.01	9.761	
13,623.32	10,175.00	12,755.78	9,360.00	79.01	77.72	36.229	315.32	4,261.89	1,015.20	910.59	104.61	9.705	
13,700.00	10,175.00	12,832.46	9,360.00	80.52	79.28	36.229	315.55	4,338.57	1,015.20	908.62	106.58	9.526	
13,723.32	10,175.00	12,855.78	9,360.00	80.98	79.75	36.229	315.61	4,361.89	1,015.20	908.02	107.18	9.472	
13,800.00	10,175.00	12,932.46	9,360.00	82.49	81.31	36.229	315.84	4,438.57	1,015.20	906.04	109.15	9.301	
13,823.32	10,175.00	12,955.78	9,360.00	82.95	81.79	36.229	315.91	4,461.89	1,015.20	905.44	109.76	9.250	
13,900.00	10,175.00	13,032.46	9,360.00	84.46	83.35	36.229	316.14	4,538.57	1,015.20	903.46	111.74	9.085	
13,923.32	10,175.00	13,055.78	9,360.00	84.92	83.82	36.229	316.21	4,561.89	1,015.20	902.85	112.34	9.037	
14,000.00	10,175.00	13,132.46	9,360.00	86.44	85.38	36.229	316.44	4,638.57	1,015.20	900.87	114.33	8.879	
14,023.32	10,175.00	13,155.78	9,360.00	86.90	85.85	36.229	316.51	4,661.89	1,015.20	900.26	114.94	8.833	
14,100.00	10,175.00	13,232.46	9,360.00	88.42	87.42	36.229	316.74	4,738.57	1,015.20	898.27	116.93	8.682	
14,123.32	10,175.00	13,255.78	9,360.00	88.88	87.89	36.229	316.81	4,761.89	1,015.20	897.66	117.54	8.637	
14,200.00	10,175.00	13,332.46	9,360.00	90.40	89.46	36.229	317.04	4,838.57	1,015.20	895.66	119.54	8.493	
14,223.32	10,175.00	13,355.78	9,360.00	90.87	89.93	36.229	317.11	4,861.88	1,015.20	895.05	120.15	8.450	
14,300.00	10,175.00	13,432.46	9,360.00	92.39	91.49	36.229	317.33	4,938.57	1,015.20	893.05	122.15	8.311	
14,323.32	10,175.00	13,455.78	9,360.00	92.86	91.97	36.229	317.40	4,961.88	1,015.20	892.44	122.76	8.270	
14,400.00	10,175.00	13,532.46	9,360.00	94.39	93.54	36.229	317.63	5,038.57	1,015.20	890.43	124.77	8.136	
14,423.32	10,175.00	13,555.78	9,360.00	94.85	94.01	36.229	317.70	5,061.88	1,015.20	889.82	125.38	8.097	
14,500.00	10,175.00	13,632.46	9,360.00	96.38	95.58	36.229	317.93	5,138.57	1,015.20	887.80	127.40	7.969	
14,523.32	10,175.00	13,655.78	9,360.00	96.85	96.05	36.229	318.00	5,161.88	1,015.20	887.19	128.01	7.931	
14,600.00	10,175.00	13,732.46	9,360.00	98.38	97.62	36.229	318.23	5,238.57	1,015.20	885.17	130.02	7.808	
14,623.32	10,175.00	13,755.78	9,360.00	98.85	98.10	36.229	318.30	5,261.88	1,015.20	884.56	130.64	7.771	
14,700.00	10,175.00	13,832.46	9,360.00	100.38	99.67	36.229	318.53	5,338.57	1,015.20	882.54	132.66	7.653	
14,723.32	10,175.00	13,855.78	9,360.00	100.85	100.14	36.229	318.60	5,361.88	1,015.20	881.92	133.27	7.617	
14,800.00	10,175.00	13,932.46	9,360.00	102.39	101.71	36.229	318.83	5,438.56	1,015.20	879.90	135.30	7.503	
14,823.32	10,175.00	13,955.78	9,360.00	102.86	102.19	36.229	318.89	5,461.88	1,015.20	879.28	135.91	7.469	
14,900.00	10,175.00	14,032.46	9,360.00	104.40	103.76	36.229	319.12	5,538.56	1,015.20	877.26	137.94	7.360	
14,923.32	10,175.00	14,055.78	9,360.00	104.86	104.23	36.229	319.19	5,561.88	1,015.20	876.64	138.56	7.327	
15,000.00	10,175.00	14,132.46	9,360.00	106.41	105.80	36.229	319.42	5,638.56	1,015.20	874.61	140.59	7.221	
15,023.32	10,175.00	14,155.78	9,360.00	106.87	106.28	36.229	319.49	5,661.88	1,015.20	873.99	141.21	7.190	
15,100.00	10,175.00	14,232.46	9,360.00	108.42	107.85	36.229	319.72	5,738.56	1,015.20	871.96	143.24	7.088	
15,123.32	10,175.00	14,255.78	9,360.00	108.89	108.33	36.229	319.79	5,761.88	1,015.20	871.34	143.86	7.057	
15,200.00	10,175.00	14,332.46	9,360.00	110.43	109.90	36.229	320.02	5,838.56	1,015.20	869.31	145.89	6.959	
15,223.32	10,175.00	14,355.78	9,360.00	110.90	110.38	36.229	320.09	5,861.88	1,015.20	868.69	146.51	6.929	
15,300.00	10,175.00	14,432.46	9,360.00	112.45	111.95	36.229	320.32	5,938.56	1,015.20	866.65	148.55	6.834	
15,323.32	10,175.00	14,455.78	9,360.00	112.92	112.43	36.229	320.39	5,961.88	1,015.20	866.03	149.17	6.806	
15,400.00	10,175.00	14,532.46	9,360.00	114.47	114.00	36.229	320.61	6,038.56	1,015.20	863.99	151.21	6.714	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
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	
15,423.32	10,175.00	14,555.78	9,360.00	114.94	114.48	36.229	320.68	6,061.88	1,015.20	863.37	151.83	6.686	
15,500.00	10,175.00	14,632.46	9,360.00	116.49	116.05	36.229	320.91	6,138.56	1,015.20	861.32	153.87	6.598	
15,523.32	10,175.00	14,655.78	9,360.00	116.96	116.53	36.229	320.98	6,161.88	1,015.20	860.70	154.50	6.571	
15,600.00	10,175.00	14,732.46	9,360.00	118.51	118.10	36.229	321.21	6,238.56	1,015.20	858.66	156.54	6.485	
15,623.32	10,175.00	14,755.78	9,360.00	118.98	118.58	36.229	321.28	6,261.88	1,015.20	858.04	157.16	6.460	
15,700.00	10,175.00	14,832.46	9,360.00	120.53	120.16	36.229	321.51	6,338.56	1,015.20	855.99	159.21	6.376	
15,723.32	10,175.00	14,855.78	9,360.00	121.00	120.63	36.229	321.58	6,361.88	1,015.20	855.37	159.83	6.352	
15,800.00	10,175.00	14,932.46	9,360.00	122.56	122.21	36.229	321.81	6,438.56	1,015.20	853.32	161.88	6.271	
15,823.32	10,175.00	14,955.78	9,360.00	123.03	122.69	36.229	321.88	6,461.88	1,015.20	852.69	162.51	6.247	
15,900.00	10,175.00	15,032.46	9,360.00	124.58	124.26	36.229	322.11	6,538.56	1,015.20	850.64	164.56	6.169	
15,923.32	10,175.00	15,055.78	9,360.00	125.06	124.74	36.229	322.18	6,561.88	1,015.20	850.02	165.18	6.146	
16,000.00	10,175.00	15,132.46	9,360.00	126.61	126.32	36.229	322.40	6,638.56	1,015.20	847.97	167.23	6.071	
16,023.32	10,175.00	15,155.78	9,360.00	127.08	126.79	36.229	322.47	6,661.88	1,015.20	847.34	167.86	6.048	
16,100.00	10,175.00	15,232.46	9,360.00	128.64	128.37	36.229	322.70	6,738.56	1,015.20	845.29	169.91	5.975	
16,123.32	10,175.00	15,255.78	9,360.00	129.11	128.85	36.229	322.77	6,761.88	1,015.20	844.66	170.54	5.953	
16,200.00	10,175.00	15,332.46	9,360.00	130.67	130.42	36.229	323.00	6,838.56	1,015.20	842.61	172.59	5.882	
16,223.32	10,175.00	15,355.78	9,360.00	131.14	130.90	36.229	323.07	6,861.88	1,015.20	841.98	173.22	5.861	
16,300.00	10,175.00	15,432.46	9,360.00	132.70	132.48	36.229	323.30	6,938.56	1,015.20	839.92	175.28	5.792	
16,323.32	10,175.00	15,455.78	9,360.00	133.18	132.96	36.229	323.37	6,961.88	1,015.20	839.30	175.90	5.771	
16,400.00	10,175.00	15,532.46	9,360.00	134.74	134.54	36.229	323.60	7,038.56	1,015.20	837.24	177.96	5.705	
16,423.32	10,175.00	15,555.78	9,360.00	135.21	135.02	36.229	323.67	7,061.88	1,015.20	836.61	178.59	5.685	
16,500.00	10,175.00	15,632.46	9,360.00	136.77	136.59	36.229	323.90	7,138.56	1,015.20	834.55	180.65	5.620	
16,523.32	10,175.00	15,655.78	9,360.00	137.24	137.07	36.229	323.96	7,161.87	1,015.20	833.92	181.28	5.600	
16,600.00	10,175.00	15,732.46	9,360.00	138.80	138.65	36.229	324.19	7,238.56	1,015.20	831.86	183.34	5.537	
16,623.32	10,175.00	15,755.78	9,360.00	139.28	139.13	36.229	324.26	7,261.87	1,015.20	831.23	183.96	5.518	
16,700.00	10,175.00	15,832.46	9,360.00	140.84	140.71	36.229	324.49	7,338.56	1,015.20	829.17	186.03	5.457	
16,723.32	10,175.00	15,855.78	9,360.00	141.32	141.18	36.229	324.56	7,361.87	1,015.20	828.54	186.66	5.439	
16,800.00	10,175.00	15,932.46	9,360.00	142.88	142.76	36.229	324.79	7,438.56	1,015.20	826.48	188.72	5.379	
16,823.32	10,175.00	15,955.78	9,360.00	143.35	143.24	36.229	324.86	7,461.87	1,015.20	825.85	189.35	5.362	
16,900.00	10,175.00	16,032.46	9,360.00	144.92	144.82	36.229	325.09	7,538.56	1,015.20	823.79	191.41	5.304	
16,923.32	10,175.00	16,055.78	9,360.00	145.39	145.30	36.229	325.16	7,561.87	1,015.20	823.16	192.04	5.286	
17,000.00	10,175.00	16,132.46	9,360.00	146.95	146.88	36.229	325.39	7,638.56	1,015.20	821.09	194.11	5.230	
17,023.32	10,175.00	16,155.78	9,360.00	147.43	147.36	36.229	325.46	7,661.87	1,015.20	820.46	194.74	5.213	
17,100.00	10,175.00	16,232.46	9,360.00	148.99	148.94	36.229	325.68	7,738.55	1,015.20	818.39	196.80	5.158	
17,123.32	10,175.00	16,255.78	9,360.00	149.47	149.42	36.229	325.75	7,761.87	1,015.20	817.76	197.43	5.142	
17,200.00	10,175.00	16,332.46	9,360.00	151.03	150.99	36.229	325.98	7,838.55	1,015.20	815.70	199.50	5.089	
17,223.32	10,175.00	16,355.78	9,360.00	151.51	151.47	36.229	326.05	7,861.87	1,015.20	815.07	200.13	5.073	
17,300.00	10,175.00	16,432.46	9,360.00	153.08	153.05	36.229	326.28	7,938.55	1,015.20	813.00	202.20	5.021	
17,323.32	10,175.00	16,455.78	9,360.00	153.55	153.53	36.229	326.35	7,961.87	1,015.20	812.37	202.83	5.005	
17,400.00	10,175.00	16,532.46	9,360.00	155.12	155.11	36.229	326.58	8,038.55	1,015.20	810.30	204.90	4.955	
17,423.32	10,175.00	16,555.78	9,360.00	155.59	155.59	36.229	326.65	8,061.87	1,015.20	809.67	205.53	4.939	
17,500.00	10,175.00	16,632.46	9,360.00	157.16	157.17	36.229	326.88	8,138.55	1,015.20	807.59	207.60	4.890	
17,523.32	10,175.00	16,655.78	9,360.00	157.64	157.65	36.229	326.95	8,161.87	1,015.20	806.96	208.23	4.875	
17,600.00	10,175.00	16,732.46	9,360.00	159.20	159.23	36.229	327.18	8,238.55	1,015.20	804.89	210.31	4.827	
17,623.32	10,175.00	16,755.78	9,360.00	159.68	159.71	36.229	327.24	8,261.87	1,015.20	804.26	210.94	4.813	
17,700.00	10,175.00	16,832.46	9,360.00	161.25	161.29	36.229	327.47	8,338.55	1,015.20	802.19	213.01	4.766	
17,723.32	10,175.00	16,855.78	9,360.00	161.72	161.77	36.229	327.54	8,361.87	1,015.20	801.56	213.64	4.752	
17,800.00	10,175.00	16,932.46	9,360.00	163.29	163.35	36.229	327.77	8,438.55	1,015.20	799.48	215.72	4.706	
17,823.32	10,175.00	16,955.78	9,360.00	163.77	163.83	36.229	327.84	8,461.87	1,015.20	798.85	216.35	4.692	
17,900.00	10,175.00	17,032.46	9,360.00	165.34	165.41	36.229	328.07	8,538.55	1,015.20	796.78	218.42	4.648	
17,923.32	10,175.00	17,055.78	9,360.00	165.82	165.89	36.229	328.14	8,561.87	1,015.20	796.15	219.05	4.634	
18,000.00	10,175.00	17,132.46	9,360.00	167.38	167.47	36.229	328.37	8,638.55	1,015.20	794.07	221.13	4.591	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 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)			
18,023.32	10,175.00	17,155.78	9,360.00	167.86	167.95	36.229	328.44	8,661.87	1,015.20	793.44	221.76	4.578	
18,100.00	10,175.00	17,232.46	9,360.00	169.43	169.53	36.229	328.67	8,738.55	1,015.20	791.36	223.84	4.535	
18,123.32	10,175.00	17,255.78	9,360.00	169.91	170.01	36.229	328.74	8,761.87	1,015.20	790.73	224.47	4.523	
18,200.00	10,175.00	17,332.46	9,360.00	171.48	171.59	36.229	328.96	8,838.55	1,015.20	788.65	226.55	4.481	
18,223.32	10,175.00	17,355.78	9,360.00	171.96	172.07	36.229	329.03	8,861.87	1,015.20	788.02	227.18	4.469	
18,300.00	10,175.00	17,432.46	9,360.00	173.53	173.66	36.229	329.26	8,938.55	1,015.20	785.94	229.26	4.428	
18,323.32	10,175.00	17,455.78	9,360.00	174.00	174.14	36.229	329.33	8,961.87	1,015.20	785.31	229.89	4.416	
18,400.00	10,175.00	17,532.46	9,360.00	175.57	175.72	36.229	329.56	9,038.55	1,015.20	783.23	231.97	4.376	
18,423.32	10,175.00	17,555.78	9,360.00	176.05	176.20	36.229	329.63	9,061.87	1,015.20	782.60	232.60	4.365	
18,500.00	10,175.00	17,632.46	9,360.00	177.62	177.78	36.229	329.86	9,138.55	1,015.20	780.52	234.68	4.326	
18,523.32	10,175.00	17,655.78	9,360.00	178.10	178.26	36.229	329.93	9,161.87	1,015.20	779.89	235.31	4.314	
18,600.00	10,175.00	17,732.46	9,360.00	179.67	179.84	36.229	330.16	9,238.55	1,015.20	777.81	237.39	4.276	
18,623.32	10,175.00	17,755.78	9,360.00	180.15	180.32	36.229	330.23	9,261.87	1,015.20	777.18	238.02	4.265	
18,700.00	10,175.00	17,832.46	9,360.00	181.72	181.90	36.229	330.46	9,338.55	1,015.20	775.09	240.10	4.228	
18,723.32	10,175.00	17,855.78	9,360.00	182.20	182.38	36.229	330.53	9,361.87	1,015.20	774.46	240.74	4.217	
18,800.00	10,175.00	17,932.46	9,360.00	183.77	183.96	36.229	330.75	9,438.55	1,015.20	772.38	242.82	4.181	
18,823.32	10,175.00	17,955.78	9,360.00	184.25	184.44	36.229	330.82	9,461.86	1,015.20	771.75	243.45	4.170	
18,900.00	10,175.00	18,032.46	9,360.00	185.82	186.03	36.229	331.05	9,538.55	1,015.20	769.67	245.53	4.135	
18,923.32	10,175.00	18,055.78	9,360.00	186.30	186.51	36.229	331.12	9,561.86	1,015.20	769.03	246.17	4.124	
19,000.00	10,175.00	18,132.46	9,360.00	187.87	188.09	36.229	331.35	9,638.55	1,015.20	766.95	248.25	4.089	
19,023.32	10,175.00	18,155.78	9,360.00	188.35	188.57	36.229	331.42	9,661.86	1,015.20	766.32	248.88	4.079	
19,100.00	10,175.00	18,232.46	9,360.00	189.92	190.15	36.229	331.65	9,738.55	1,015.20	764.23	250.96	4.045	
19,123.32	10,175.00	18,255.78	9,360.00	190.40	190.63	36.229	331.72	9,761.86	1,015.20	763.60	251.60	4.035	
19,200.00	10,175.00	18,332.46	9,360.00	191.98	192.21	36.229	331.95	9,838.55	1,015.20	761.52	253.68	4.002	
19,223.32	10,175.00	18,355.78	9,360.00	192.45	192.69	36.229	332.02	9,861.86	1,015.20	760.88	254.31	3.992	
19,300.00	10,175.00	18,432.46	9,360.00	194.03	194.28	36.229	332.24	9,938.55	1,015.20	758.80	256.40	3.959	
19,323.32	10,175.00	18,455.78	9,360.00	194.51	194.76	36.229	332.31	9,961.86	1,015.20	758.17	257.03	3.950	
19,400.00	10,175.00	18,532.46	9,360.00	196.08	196.34	36.229	332.54	10,038.54	1,015.20	756.08	259.12	3.918	
19,423.32	10,175.00	18,555.78	9,360.00	196.56	196.82	36.229	332.61	10,061.86	1,015.20	755.45	259.75	3.908	
19,500.00	10,175.00	18,632.46	9,360.00	198.13	198.40	36.229	332.84	10,138.54	1,015.20	753.36	261.83	3.877	
19,523.32	10,175.00	18,655.78	9,360.00	198.61	198.88	36.229	332.91	10,161.86	1,015.20	752.73	262.47	3.868	
19,600.00	10,175.00	18,732.46	9,360.00	200.19	200.47	36.229	333.14	10,238.54	1,015.20	750.64	264.55	3.837	
19,623.32	10,175.00	18,755.78	9,360.00	200.66	200.95	36.229	333.21	10,261.86	1,015.20	750.01	265.19	3.828	
19,700.00	10,175.00	18,832.46	9,360.00	202.24	202.53	36.229	333.44	10,338.54	1,015.20	747.93	267.27	3.798	
19,723.32	10,175.00	18,855.78	9,360.00	202.72	203.01	36.229	333.51	10,361.86	1,015.20	747.29	267.91	3.789	
19,800.00	10,175.00	18,932.46	9,360.00	204.29	204.59	36.229	333.74	10,438.54	1,015.20	745.21	269.99	3.760	
19,823.32	10,175.00	18,955.78	9,360.00	204.77	205.07	36.229	333.81	10,461.86	1,015.20	744.57	270.63	3.751	
19,900.00	10,175.00	19,032.46	9,360.00	206.35	206.66	36.229	334.03	10,538.54	1,015.20	742.48	272.71	3.723	
19,923.32	10,175.00	19,055.78	9,360.00	206.83	207.14	36.229	334.10	10,561.86	1,015.20	741.85	273.35	3.714	
20,000.00	10,175.00	19,132.46	9,360.00	208.40	208.72	36.229	334.33	10,638.54	1,015.20	739.76	275.44	3.686	
20,023.32	10,175.00	19,155.78	9,360.00	208.88	209.20	36.229	334.40	10,661.86	1,015.20	739.13	276.07	3.677	
20,100.00	10,175.00	19,232.46	9,360.00	210.46	210.78	36.229	334.63	10,738.54	1,015.20	737.04	278.16	3.650	
20,123.32	10,175.00	19,255.78	9,360.00	210.94	211.26	36.229	334.70	10,761.86	1,015.20	736.41	278.79	3.641	
20,200.00	10,175.00	19,332.46	9,360.00	212.51	212.85	36.229	334.93	10,838.54	1,015.20	734.32	280.88	3.614	
20,223.32	10,175.00	19,355.78	9,360.00	212.99	213.33	36.229	335.00	10,861.86	1,015.20	733.68	281.51	3.606	
20,300.00	10,175.00	19,432.46	9,360.00	214.57	214.91	36.229	335.23	10,938.54	1,015.20	731.60	283.60	3.580	
20,323.32	10,175.00	19,455.78	9,360.00	215.05	215.39	36.229	335.30	10,961.86	1,015.20	730.96	284.24	3.572	
20,400.00	10,175.00	19,532.46	9,360.00	216.62	216.98	36.229	335.53	11,038.54	1,015.20	728.87	286.33	3.546	
20,423.32	10,175.00	19,555.78	9,360.00	217.10	217.46	36.229	335.59	11,061.86	1,015.20	728.24	286.96	3.538	
20,500.00	10,175.00	19,632.46	9,360.00	218.68	219.04	36.229	335.82	11,138.54	1,015.20	726.15	289.05	3.512	
20,523.32	10,175.00	19,655.78	9,360.00	219.16	219.52	36.229	335.89	11,161.86	1,015.20	725.51	289.68	3.504	
20,600.00	10,175.00	19,732.46	9,360.00	220.73	221.10	36.229	336.12	11,238.54	1,015.20	723.43	291.77	3.479	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (01) Bond 32-34 FED COM 207H - 207H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor	
20,623.32	10,175.00	19,755.78	9,360.00	221.21	221.59	36.229	336.19	11,261.86	1,015.20	722.79	292.41	3.472	
20,700.00	10,175.00	19,832.46	9,360.00	222.79	223.17	36.229	336.42	11,338.54	1,015.20	720.70	294.50	3.447	
20,723.32	10,175.00	19,855.78	9,360.00	223.27	223.65	36.229	336.49	11,361.86	1,015.20	720.07	295.13	3.440	
20,800.00	10,175.00	19,932.46	9,360.00	224.85	225.23	36.229	336.72	11,438.54	1,015.20	717.98	297.22	3.416	
20,823.32	10,175.00	19,955.78	9,360.00	225.33	225.71	36.229	336.79	11,461.86	1,015.20	717.34	297.86	3.408	
20,900.00	10,175.00	20,032.46	9,360.00	226.90	227.30	36.229	337.02	11,538.54	1,015.20	715.25	299.95	3.385	
20,923.32	10,175.00	20,055.78	9,360.00	227.38	227.78	36.229	337.09	11,561.86	1,015.20	714.62	300.58	3.377	
21,000.00	10,175.00	20,132.46	9,360.00	228.96	229.36	36.229	337.31	11,638.54	1,015.20	712.53	302.67	3.354	
21,010.90	10,175.00	20,143.36	9,360.00	229.19	229.59	36.229	337.35	11,649.44	1,015.20	712.23	302.97	3.351	
21,046.64	10,175.00	20,179.10	9,360.00	229.92	230.32	36.229	337.45	11,685.18	1,015.20	711.25	303.94	3.340 SF	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (02) Bond 32-34 FED COM 211H - 211H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.91	2.91	0.00	0.02	-8.748	276.89	-42.61	280.15				
100.00	100.00	102.91	102.91	0.79	0.80	-8.748	276.89	-42.61	280.15	278.56	1.59	176.138	
200.00	200.00	202.91	202.91	1.45	1.46	-8.748	276.89	-42.61	280.15	277.24	2.91	96.431	
300.00	300.00	302.91	302.91	1.89	1.90	-8.748	276.89	-42.61	280.15	276.36	3.79	73.842	
400.00	400.00	402.91	402.91	2.25	2.26	-8.748	276.89	-42.61	280.15	275.63	4.52	62.028	
500.00	500.00	502.91	502.91	2.57	2.58	-8.748	276.89	-42.61	280.15	275.01	5.14	54.466	
600.00	600.00	602.91	602.91	2.85	2.86	-8.748	276.89	-42.61	280.15	274.44	5.71	49.091	
700.00	700.00	702.91	702.91	3.11	3.12	-8.748	276.89	-42.61	280.15	273.93	6.22	45.016	
800.00	800.00	802.91	802.91	3.35	3.36	-8.748	276.89	-42.61	280.15	273.45	6.70	41.787	
900.00	900.00	902.91	902.91	3.58	3.58	-8.748	276.89	-42.61	280.15	272.99	7.16	39.146	
1,000.00	1,000.00	1,002.91	1,002.91	3.79	3.80	-8.748	276.89	-42.61	280.15	272.56	7.59	36.933	
1,100.00	1,100.00	1,102.91	1,102.91	3.99	4.00	-8.748	276.89	-42.61	280.15	272.15	7.99	35.042	
1,200.00	1,200.00	1,202.91	1,202.91	4.19	4.20	-8.748	276.89	-42.61	280.15	271.76	8.39	33.402	
1,300.00	1,300.00	1,302.91	1,302.91	4.38	4.39	-8.748	276.89	-42.61	280.15	271.38	8.77	31.962	
1,400.00	1,400.00	1,402.91	1,402.91	4.56	4.57	-8.748	276.89	-42.61	280.15	271.02	9.13	30.684	
1,500.00	1,500.00	1,502.91	1,502.91	4.74	4.74	-8.748	276.89	-42.61	280.15	270.67	9.48	29.538	
1,600.00	1,600.00	1,602.91	1,602.91	4.91	4.92	-8.748	276.89	-42.61	280.15	270.32	9.83	28.505	
1,700.00	1,700.00	1,702.91	1,702.91	5.08	5.08	-8.748	276.89	-42.61	280.15	269.99	10.16	27.565	
1,800.00	1,800.00	1,802.91	1,802.91	5.24	5.25	-8.748	276.89	-42.61	280.15	269.66	10.49	26.707	
1,900.00	1,900.00	1,902.91	1,902.91	5.40	5.41	-8.748	276.89	-42.61	280.15	269.34	10.81	25.918	
2,000.00	2,000.00	2,003.20	2,003.20	5.56	5.56	-8.748	276.89	-42.61	280.15	269.02	11.12	25.185	
2,100.00	2,099.95	2,113.03	2,113.00	5.94	5.81	-46.771	274.97	-41.47	276.46	264.86	11.61	23.818	
2,200.00	2,199.63	2,221.99	2,221.77	6.32	6.04	-47.857	269.49	-38.23	265.69	253.63	12.06	22.029	
2,300.00	2,298.77	2,329.23	2,328.51	6.70	6.29	-49.856	260.62	-32.99	248.06	235.55	12.51	19.830	
2,400.00	2,397.08	2,433.98	2,432.32	7.09	6.55	-53.114	248.65	-25.91	224.01	211.07	12.94	17.307	
2,500.00	2,494.43	2,535.68	2,532.56	7.28	6.83	-57.815	233.91	-17.19	194.59	181.34	13.24	14.693	
2,600.00	2,591.59	2,635.13	2,629.94	7.53	7.13	-63.660	216.54	-6.91	162.72	149.14	13.58	11.982	
2,700.00	2,688.74	2,732.40	2,724.45	7.79	7.44	-72.108	196.75	4.79	129.70	115.82	13.88	9.342	
2,800.00	2,785.90	2,827.36	2,815.91	8.08	7.76	-85.823	174.77	17.79	97.58	83.46	14.12	6.910	
2,900.00	2,883.06	2,919.87	2,904.15	8.39	8.07	-109.798	150.87	31.93	72.30	57.94	14.36	5.034	
2,964.41	2,945.63	2,977.67	2,958.89	8.60	8.23	-131.317	134.92	41.36	66.22	51.49	14.74	4.494 CC, ES, SF	
3,000.00	2,980.22	3,009.41	2,988.95	8.71	8.33	-143.551	126.14	46.56	68.15	53.11	15.04	4.532	
3,100.00	3,077.37	3,098.60	3,073.41	9.05	8.62	-170.874	101.46	61.15	90.26	74.29	15.97	5.651	
3,200.00	3,174.53	3,187.79	3,157.86	9.40	8.93	-173.550	76.79	75.75	125.46	108.73	16.74	7.496	
3,300.00	3,271.69	3,276.97	3,242.31	9.77	9.26	-164.748	52.11	90.35	165.61	148.21	17.40	9.518	
3,400.00	3,368.84	3,366.16	3,326.76	10.14	9.59	-159.331	27.43	104.94	207.86	189.83	18.03	11.526	
3,500.00	3,466.00	3,455.34	3,411.21	10.52	9.94	-155.722	2.76	119.54	251.15	232.48	18.67	13.454	
3,600.00	3,563.16	3,544.53	3,495.66	10.92	10.29	-153.164	-21.92	134.13	295.02	275.72	19.31	15.279	
3,700.00	3,660.32	3,633.71	3,580.12	11.31	10.65	-151.262	-46.59	148.73	339.25	319.29	19.96	16.997	
3,800.00	3,757.47	3,722.90	3,664.57	11.72	11.02	-149.797	-71.27	163.32	383.72	363.10	20.62	18.607	
3,900.00	3,854.63	3,812.08	3,749.02	12.13	11.40	-148.634	-95.94	177.92	428.34	407.05	21.30	20.115	
4,000.00	3,951.79	3,901.27	3,833.47	12.55	11.78	-147.689	-120.62	192.51	473.08	451.11	21.98	21.526	
4,100.00	4,048.95	3,990.45	3,917.92	12.97	12.17	-146.908	-145.29	207.11	517.91	495.24	22.67	22.846	
4,200.00	4,146.10	4,079.64	4,002.38	13.40	12.57	-146.250	-169.97	221.70	562.80	539.43	23.37	24.082	
4,300.00	4,243.26	4,168.82	4,086.83	13.83	12.96	-145.689	-194.64	236.30	607.74	583.67	24.08	25.240	
4,400.00	4,340.42	4,258.01	4,171.28	14.27	13.37	-145.205	-219.32	250.89	652.73	627.93	24.79	26.326	
4,500.00	4,437.57	4,347.19	4,255.73	14.71	13.77	-144.784	-244.00	265.49	697.74	672.22	25.52	27.346	
4,600.00	4,534.73	4,436.38	4,340.18	15.15	14.18	-144.413	-268.67	280.08	742.78	716.54	26.24	28.304	
4,700.00	4,631.89	4,525.56	4,424.63	15.59	14.59	-144.005	-293.35	294.68	787.84	760.87	26.98	29.205	
4,800.00	4,729.05	4,614.75	4,509.09	16.04	15.01	-143.793	-318.02	309.27	832.93	805.21	27.71	30.054	
4,900.00	4,826.20	4,703.93	4,593.54	16.49	15.43	-143.530	-342.70	323.87	878.02	849.57	28.46	30.854	
5,000.00	4,923.36	4,793.12	4,677.99	16.94	15.85	-143.293	-367.37	338.46	923.13	893.93	29.20	31.609	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (02) Bond 32-34 FED COM 211H - 211H - Plan 2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+IFR1												Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,017.70	9,734.60	9,332.09	29.85	31.12	71.031	-994.10	1,106.18	2,033.18	1,979.63	53.55	37.965		
10,300.00	10,079.86	9,774.77	9,343.13	30.21	31.27	69.295	-993.98	1,144.80	2,047.13	1,993.06	54.08	37.855		
10,400.00	10,127.50	9,815.42	9,351.51	30.58	31.44	67.981	-993.86	1,184.57	2,057.92	2,003.17	54.76	37.583		

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	173.946	-19.99	2.12	20.12				
100.00	100.00	99.05	99.05	0.79	0.78	173.946	-19.99	2.12	20.10	18.54	1.56	12.854	
200.00	200.00	199.05	199.05	1.45	1.44	173.946	-19.99	2.12	20.10	17.22	2.89	6.966	
300.00	300.00	299.05	299.05	1.89	1.89	173.946	-19.99	2.12	20.10	16.32	3.78	5.319	
400.00	400.00	399.05	399.05	2.25	2.25	173.946	-19.99	2.12	20.10	15.60	4.50	4.463	
500.00	500.00	499.05	499.05	2.57	2.56	173.946	-19.99	2.12	20.10	14.97	5.13	3.917	
600.00	600.00	599.05	599.05	2.85	2.85	173.946	-19.99	2.12	20.10	14.41	5.70	3.529	
700.00	700.00	699.05	699.05	3.11	3.11	173.946	-19.99	2.12	20.10	13.89	6.21	3.235	
800.00	800.00	799.05	799.05	3.35	3.35	173.946	-19.99	2.12	20.10	13.41	6.70	3.002	
900.00	900.00	899.05	899.05	3.58	3.57	173.946	-19.99	2.12	20.10	12.95	7.15	2.812	
1,000.00	1,000.00	999.05	999.05	3.79	3.79	173.946	-19.99	2.12	20.10	12.52	7.58	2.653	
1,100.00	1,100.00	1,099.05	1,099.05	3.99	3.99	173.946	-19.99	2.12	20.10	12.12	7.99	2.517	
1,200.00	1,200.00	1,199.05	1,199.05	4.19	4.19	173.946	-19.99	2.12	20.10	11.72	8.38	2.399	
1,300.00	1,300.00	1,299.05	1,299.05	4.38	4.38	173.946	-19.99	2.12	20.10	11.34	8.76	2.295	
1,400.00	1,400.00	1,399.05	1,399.05	4.56	4.56	173.946	-19.99	2.12	20.10	10.98	9.12	2.203	
1,500.00	1,500.00	1,499.05	1,499.05	4.74	4.74	173.946	-19.99	2.12	20.10	10.62	9.48	2.121	
1,600.00	1,600.00	1,599.05	1,599.05	4.91	4.91	173.946	-19.99	2.12	20.10	10.28	9.82	2.047	
1,700.00	1,700.00	1,699.05	1,699.05	5.08	5.08	173.946	-19.99	2.12	20.10	9.95	10.16	1.979	Level 3
1,800.00	1,800.00	1,799.05	1,799.05	5.24	5.24	173.946	-19.99	2.12	20.10	9.62	10.48	1.917	Level 3
1,900.00	1,900.00	1,899.05	1,899.05	5.40	5.40	173.946	-19.99	2.12	20.10	9.30	10.80	1.861	Level 3
2,000.00	2,000.00	1,999.05	1,999.05	5.56	5.56	173.946	-19.99	2.12	20.10	8.99	11.12	1.808	Level 3, CC, ES, SF
2,100.00	2,099.95	2,098.30	2,098.28	5.94	5.77	138.917	-21.45	2.96	23.58	11.98	11.60	2.033	
2,200.00	2,199.63	2,196.83	2,196.68	6.32	5.98	143.503	-25.86	5.47	34.21	22.13	12.08	2.832	
2,300.00	2,298.77	2,293.96	2,293.44	6.70	6.20	146.858	-33.07	9.60	52.09	39.51	12.58	4.141	
2,400.00	2,397.08	2,389.02	2,387.83	7.09	6.43	148.817	-42.89	15.21	77.06	63.98	13.08	5.890	
2,500.00	2,494.43	2,481.56	2,479.30	7.28	6.68	149.976	-55.05	22.16	108.50	95.07	13.43	8.080	
2,600.00	2,591.59	2,572.31	2,568.51	7.53	6.94	150.145	-69.46	30.40	143.01	129.20	13.82	10.349	
2,700.00	2,688.74	2,661.36	2,655.51	7.79	7.21	149.644	-85.97	39.84	179.82	165.59	14.22	12.641	
2,800.00	2,785.90	2,750.87	2,742.38	8.08	7.47	148.866	-104.70	50.54	218.67	204.01	14.66	14.919	
2,900.00	2,883.06	2,842.82	2,831.51	8.39	7.74	148.241	-124.31	61.75	257.91	242.76	15.15	17.024	
3,000.00	2,980.22	2,934.77	2,920.64	8.71	8.01	147.781	-143.92	72.96	297.17	281.51	15.65	18.985	
3,100.00	3,077.37	3,026.72	3,009.77	9.05	8.30	147.428	-163.52	84.17	336.44	320.25	16.18	20.791	
3,200.00	3,174.53	3,118.67	3,098.90	9.40	8.60	147.149	-183.13	95.37	375.71	358.98	16.73	22.453	
3,300.00	3,271.69	3,210.62	3,188.04	9.77	8.91	146.923	-202.74	106.58	415.00	397.69	17.31	23.981	
3,400.00	3,368.84	3,302.57	3,277.17	10.14	9.24	146.736	-222.35	117.79	454.29	436.39	17.90	25.384	
3,500.00	3,466.00	3,394.52	3,366.30	10.52	9.58	146.578	-241.96	129.00	493.58	475.08	18.50	26.674	
3,600.00	3,563.16	3,486.47	3,455.43	10.92	9.92	146.444	-261.57	140.21	532.88	513.75	19.13	27.859	
3,700.00	3,660.32	3,578.42	3,544.57	11.31	10.27	146.328	-281.17	151.42	572.17	552.41	19.76	28.949	
3,800.00	3,757.47	3,670.37	3,633.70	11.72	10.64	146.228	-300.78	162.62	611.47	591.06	20.41	29.953	
3,900.00	3,854.63	3,762.32	3,722.83	12.13	11.00	146.139	-320.39	173.83	650.77	629.70	21.07	30.879	
4,000.00	3,951.79	3,854.27	3,811.96	12.55	11.38	146.060	-340.00	185.04	690.07	668.33	21.75	31.734	
4,100.00	4,048.95	3,946.21	3,901.10	12.97	11.76	145.990	-359.61	196.25	729.38	706.95	22.43	32.524	
4,200.00	4,146.10	4,038.16	3,990.23	13.40	12.14	145.927	-379.21	207.46	768.68	745.57	23.11	33.255	
4,300.00	4,243.26	4,130.11	4,079.36	13.83	12.53	145.871	-398.82	218.66	807.98	784.17	23.81	33.933	
4,400.00	4,340.42	4,222.06	4,168.49	14.27	12.92	145.819	-418.43	229.87	847.29	822.77	24.51	34.563	
4,500.00	4,437.57	4,314.01	4,257.62	14.71	13.32	145.772	-438.04	241.08	886.59	861.37	25.22	35.148	
4,600.00	4,534.73	4,405.96	4,346.76	15.15	13.72	145.729	-457.65	252.29	925.90	899.96	25.94	35.693	
4,700.00	4,631.89	4,497.91	4,435.89	15.59	14.13	145.690	-477.25	263.50	965.21	938.54	26.66	36.201	
4,800.00	4,729.05	4,589.86	4,525.02	16.04	14.53	145.653	-496.86	274.71	1,004.51	977.12	27.39	36.676	
4,900.00	4,826.20	4,681.81	4,614.15	16.49	14.94	145.620	-516.47	285.91	1,043.82	1,015.70	28.12	37.119	
5,000.00	4,923.36	4,773.76	4,703.29	16.94	15.36	145.588	-536.08	297.12	1,083.13	1,054.27	28.86	37.535	
5,100.00	5,020.52	4,865.71	4,792.42	17.39	15.77	145.559	-555.69	308.33	1,122.43	1,092.84	29.60	37.924	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+IFR1				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 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		
10,400.00	10,127.50	10,544.07	10,167.82	30.58	29.62	91.220	-994.29	1,042.39	1,900.45	1,846.64	53.81	35.315			
10,500.00	10,159.18	10,645.76	10,175.00	30.96	30.12	90.492	-993.98	1,143.70	1,900.07	1,844.69	55.38	34.309			
10,537.41	10,166.72	10,682.40	10,175.00	31.12	30.33	90.274	-993.88	1,180.34	1,900.02	1,843.97	56.04	33.903			
10,600.00	10,173.94	10,744.54	10,175.00	31.38	30.73	90.061	-993.69	1,242.48	1,900.00	1,842.80	57.20	33.218			
10,640.85	10,175.92	10,785.34	10,175.00	31.57	31.02	90.001	-993.57	1,283.28	1,899.99	1,841.98	58.01	32.751			
10,700.00	10,175.00	10,844.52	10,175.00	31.85	31.50	90.029	-993.39	1,342.46	1,899.99	1,840.76	59.24	32.073			
10,700.01	10,175.00	10,844.53	10,175.00	31.85	31.50	90.029	-993.39	1,342.47	1,899.99	1,840.75	59.24	32.073			
10,800.00	10,175.00	10,944.52	10,175.00	32.46	32.40	90.029	-993.09	1,442.46	1,899.99	1,838.50	61.50	30.895			
10,800.01	10,175.00	10,944.53	10,175.00	32.46	32.40	90.029	-993.09	1,442.47	1,899.99	1,838.50	61.50	30.895			
10,900.00	10,175.00	11,044.52	10,175.00	33.22	33.45	90.029	-992.80	1,542.46	1,900.00	1,836.05	63.95	29.713			
10,900.01	10,175.00	11,044.53	10,175.00	33.22	33.45	90.029	-992.80	1,542.47	1,900.00	1,836.05	63.95	29.713			
11,000.00	10,175.00	11,144.52	10,175.00	34.11	34.61	90.029	-992.50	1,642.46	1,900.00	1,833.43	66.56	28.546			
11,000.01	10,175.00	11,144.53	10,175.00	34.11	34.61	90.029	-992.50	1,642.47	1,900.00	1,833.43	66.56	28.545			
11,100.00	10,175.00	11,244.52	10,175.00	35.14	35.89	90.029	-992.20	1,742.46	1,900.00	1,830.67	69.32	27.408			
11,100.01	10,175.00	11,244.53	10,175.00	35.14	35.89	90.029	-992.20	1,742.47	1,900.00	1,830.67	69.32	27.407			
11,200.00	10,175.00	11,344.52	10,175.00	36.30	37.25	90.029	-991.90	1,842.46	1,900.00	1,827.78	72.22	26.309			
11,200.01	10,175.00	11,344.53	10,175.00	36.30	37.25	90.029	-991.90	1,842.47	1,900.00	1,827.78	72.22	26.309			
11,300.00	10,175.00	11,444.52	10,175.00	37.57	38.70	90.029	-991.60	1,942.46	1,900.00	1,824.76	75.23	25.255			
11,300.01	10,175.00	11,444.53	10,175.00	37.57	38.70	90.029	-991.60	1,942.46	1,900.00	1,824.76	75.23	25.255			
11,400.00	10,175.00	11,544.52	10,175.00	38.94	40.22	90.029	-991.30	2,042.46	1,900.00	1,821.65	78.35	24.251			
11,400.01	10,175.00	11,544.53	10,175.00	38.94	40.22	90.029	-991.30	2,042.46	1,900.00	1,821.65	78.35	24.251			
11,500.00	10,175.00	11,644.52	10,175.00	40.39	41.79	90.029	-991.01	2,142.46	1,900.00	1,818.44	81.55	23.298			
11,500.01	10,175.00	11,644.53	10,175.00	40.39	41.79	90.029	-991.01	2,142.46	1,900.00	1,818.44	81.55	23.298			
11,600.00	10,175.00	11,744.52	10,175.00	41.92	43.41	90.029	-990.71	2,242.46	1,900.00	1,815.15	84.84	22.395			
11,600.01	10,175.00	11,744.53	10,175.00	41.92	43.41	90.029	-990.71	2,242.46	1,900.00	1,815.15	84.84	22.395			
11,700.00	10,175.00	11,844.52	10,175.00	43.50	45.08	90.029	-990.41	2,342.45	1,900.00	1,811.80	88.20	21.542			
11,700.01	10,175.00	11,844.53	10,175.00	43.50	45.08	90.029	-990.41	2,342.46	1,900.00	1,811.80	88.20	21.542			
11,800.00	10,175.00	11,944.52	10,175.00	45.13	46.79	90.029	-990.11	2,442.45	1,900.00	1,808.37	91.62	20.737			
11,800.01	10,175.00	11,944.53	10,175.00	45.13	46.79	90.029	-990.11	2,442.46	1,900.00	1,808.37	91.62	20.737			
11,900.00	10,175.00	12,044.52	10,175.00	46.81	48.52	90.029	-989.81	2,542.45	1,900.00	1,804.89	95.10	19.978			
11,900.01	10,175.00	12,044.53	10,175.00	46.81	48.52	90.029	-989.81	2,542.46	1,900.00	1,804.89	95.10	19.978			
12,000.00	10,175.00	12,144.52	10,175.00	48.53	50.29	90.029	-989.52	2,642.45	1,900.00	1,801.36	98.63	19.263			
12,000.01	10,175.00	12,144.53	10,175.00	48.53	50.29	90.029	-989.52	2,642.46	1,900.00	1,801.36	98.64	19.263			
12,100.00	10,175.00	12,244.52	10,175.00	50.27	52.08	90.029	-989.22	2,742.45	1,900.00	1,797.78	102.21	18.589			
12,100.01	10,175.00	12,244.53	10,175.00	50.27	52.08	90.029	-989.22	2,742.46	1,900.00	1,797.78	102.21	18.589			
12,200.00	10,175.00	12,344.52	10,175.00	52.05	53.89	90.029	-988.92	2,842.45	1,900.00	1,794.17	105.83	17.953			
12,200.01	10,175.00	12,344.53	10,175.00	52.05	53.89	90.029	-988.92	2,842.46	1,900.00	1,794.17	105.83	17.953			
12,300.00	10,175.00	12,444.52	10,175.00	53.85	55.72	90.029	-988.62	2,942.45	1,900.00	1,790.51	109.49	17.354			
12,300.01	10,175.00	12,444.53	10,175.00	53.85	55.72	90.029	-988.62	2,942.46	1,900.00	1,790.51	109.49	17.354			
12,400.00	10,175.00	12,544.52	10,175.00	55.67	57.57	90.029	-988.32	3,042.45	1,900.00	1,786.82	113.17	16.788			
12,400.01	10,175.00	12,544.53	10,175.00	55.67	57.57	90.029	-988.32	3,042.46	1,900.00	1,786.82	113.17	16.788			
12,500.00	10,175.00	12,644.52	10,175.00	57.51	59.43	90.029	-988.02	3,142.45	1,900.00	1,783.10	116.89	16.254			
12,500.01	10,175.00	12,644.53	10,175.00	57.51	59.43	90.029	-988.02	3,142.46	1,900.00	1,783.10	116.89	16.254			
12,600.00	10,175.00	12,744.52	10,175.00	59.36	61.31	90.029	-987.73	3,242.45	1,900.00	1,779.36	120.64	15.749			
12,600.01	10,175.00	12,744.53	10,175.00	59.36	61.31	90.029	-987.73	3,242.46	1,900.00	1,779.36	120.64	15.749			
12,700.00	10,175.00	12,844.52	10,175.00	61.23	63.20	90.029	-987.43	3,342.45	1,900.00	1,775.59	124.41	15.272			
12,700.01	10,175.00	12,844.53	10,175.00	61.23	63.20	90.029	-987.43	3,342.46	1,900.00	1,775.59	124.41	15.272			
12,800.00	10,175.00	12,944.52	10,175.00	63.12	65.11	90.029	-987.13	3,442.45	1,900.00	1,771.79	128.20	14.820			
12,800.01	10,175.00	12,944.53	10,175.00	63.12	65.11	90.029	-987.13	3,442.46	1,900.00	1,771.79	128.20	14.820			
12,900.00	10,175.00	13,044.52	10,175.00	65.02	67.02	90.029	-986.83	3,542.45	1,900.00	1,767.98	132.02	14.392			
12,900.01	10,175.00	13,044.53	10,175.00	65.02	67.02	90.029	-986.83	3,542.46	1,900.00	1,767.98	132.02	14.392			
13,000.00	10,175.00	13,144.52	10,175.00	66.92	68.94	90.029	-986.53	3,642.45	1,900.00	1,764.14	135.85	13.986			

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor	
20,800.01	10,175.00	20,944.53	10,175.00	224.85	227.02	90.029	-963.28	11,442.42	1,900.00	1,448.16	451.84	4.205	
20,900.00	10,175.00	21,044.52	10,175.00	226.90	229.08	90.029	-962.98	11,542.41	1,900.00	1,444.05	455.95	4.167	
20,900.01	10,175.00	21,044.53	10,175.00	226.90	229.08	90.029	-962.98	11,542.42	1,900.00	1,444.05	455.95	4.167	
21,000.00	10,175.00	21,144.52	10,175.00	228.96	231.14	90.029	-962.68	11,642.41	1,900.00	1,439.93	460.06	4.130	
21,000.00	10,175.00	21,144.52	10,175.00	228.96	231.14	90.029	-962.68	11,642.42	1,900.00	1,439.93	460.06	4.130	
21,046.64	10,175.00	21,191.16	10,175.00	229.92	232.10	90.029	-962.54	11,689.06	1,900.00	1,438.02	461.98	4.113	

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.23	0.23	0.00	0.00	-8.839	20.00	-3.11	20.24				
100.00	100.00	100.23	100.23	0.79	0.79	-8.839	20.00	-3.11	20.24	18.67	1.57	12.869	
200.00	200.00	200.23	200.23	1.45	1.45	-8.839	20.00	-3.11	20.24	17.35	2.89	6.996	
300.00	300.00	300.23	300.23	1.89	1.89	-8.839	20.00	-3.11	20.24	16.46	3.78	5.349	
400.00	400.00	400.23	400.23	2.25	2.25	-8.839	20.00	-3.11	20.24	15.73	4.51	4.490	
500.00	500.00	500.23	500.23	2.57	2.57	-8.839	20.00	-3.11	20.24	15.10	5.14	3.941	
600.00	600.00	600.23	600.23	2.85	2.85	-8.839	20.00	-3.11	20.24	14.54	5.70	3.551	
700.00	700.00	700.23	700.23	3.11	3.11	-8.839	20.00	-3.11	20.24	14.02	6.22	3.256	
800.00	800.00	800.23	800.23	3.35	3.35	-8.839	20.00	-3.11	20.24	13.54	6.70	3.022	
900.00	900.00	900.23	900.23	3.58	3.58	-8.839	20.00	-3.11	20.24	13.09	7.15	2.831	
1,000.00	1,000.00	1,000.23	1,000.23	3.79	3.79	-8.839	20.00	-3.11	20.24	12.66	7.58	2.670	
1,100.00	1,100.00	1,100.23	1,100.23	3.99	3.99	-8.839	20.00	-3.11	20.24	12.25	7.99	2.533	
1,200.00	1,200.00	1,200.23	1,200.23	4.19	4.19	-8.839	20.00	-3.11	20.24	11.86	8.38	2.415	
1,300.00	1,300.00	1,300.23	1,300.23	4.38	4.38	-8.839	20.00	-3.11	20.24	11.48	8.76	2.310	
1,400.00	1,400.00	1,400.23	1,400.23	4.56	4.56	-8.839	20.00	-3.11	20.24	11.11	9.13	2.218	
1,500.00	1,500.00	1,500.23	1,500.23	4.74	4.74	-8.839	20.00	-3.11	20.24	10.76	9.48	2.135	
1,600.00	1,600.00	1,600.23	1,600.23	4.91	4.91	-8.839	20.00	-3.11	20.24	10.42	9.82	2.060	
1,700.00	1,700.00	1,700.23	1,700.23	5.08	5.08	-8.839	20.00	-3.11	20.24	10.08	10.16	1.992 Level 3	
1,716.59	1,716.59	1,716.82	1,716.82	5.11	5.11	-8.839	20.00	-3.11	20.24	10.03	10.21	1.982 Level 3, CC	
1,800.00	1,800.00	1,800.23	1,800.23	5.24	5.24	-8.839	20.00	-3.11	20.24	9.75	10.49	1.930 Level 3, ES	
1,900.00	1,900.00	1,900.08	1,900.06	5.40	5.49	-13.653	20.00	-4.86	20.58	9.78	10.80	1.906 Level 3, SF	
2,000.00	2,000.00	2,000.02	1,999.94	5.56	5.63	-22.650	20.00	-8.35	21.67	10.57	11.10	1.952 Level 3	
2,100.00	2,099.95	2,099.86	2,099.72	5.94	5.80	-74.478	20.00	-11.83	22.41	10.97	11.43	1.959 Level 3	
2,200.00	2,199.63	2,199.31	2,199.11	6.32	5.97	-99.073	20.00	-15.30	24.67	12.88	11.79	2.092	
2,300.00	2,298.77	2,298.10	2,297.84	6.70	6.15	-124.685	20.00	-18.75	33.17	20.79	12.38	2.680	
2,400.00	2,397.08	2,395.97	2,395.65	7.09	6.34	-142.107	20.00	-22.16	49.45	36.39	13.06	3.785	
2,500.00	2,494.43	2,492.77	2,492.39	7.28	6.54	-152.385	20.00	-25.54	72.13	58.60	13.53	5.330	
2,600.00	2,591.59	2,589.98	2,589.55	7.53	6.75	-158.856	18.98	-27.98	96.47	82.47	14.00	6.890	
2,700.00	2,688.74	2,686.94	2,686.45	7.79	6.92	-164.268	15.58	-28.16	121.11	106.63	14.48	8.366	
2,800.00	2,785.90	2,783.38	2,782.69	8.08	7.00	-169.132	9.83	-26.10	146.29	131.38	14.91	9.814	
2,900.00	2,883.06	2,879.09	2,877.96	8.39	7.06	-173.639	1.80	-21.87	172.31	156.98	15.33	11.241	
3,000.00	2,980.22	2,973.86	2,971.96	8.71	7.12	-177.867	-8.43	-15.52	199.44	183.67	15.76	12.653	
3,100.00	3,077.37	3,067.50	3,064.41	9.05	7.21	-178.154	-20.75	-7.15	227.92	211.72	16.21	14.064	
3,200.00	3,174.53	3,159.84	3,155.06	9.40	7.38	-174.411	-35.03	3.13	257.99	241.34	16.66	15.489	
3,300.00	3,271.69	3,251.47	3,244.42	9.77	7.54	-170.891	-51.22	15.25	289.79	272.70	17.09	16.958	
3,400.00	3,368.84	3,344.62	3,335.09	10.14	7.73	-167.865	-68.25	28.11	322.72	305.17	17.56	18.381	
3,500.00	3,466.00	3,437.77	3,425.77	10.52	7.94	-165.393	-85.27	40.97	356.32	338.26	18.07	19.723	
3,600.00	3,563.16	3,530.92	3,516.44	10.92	8.17	-163.341	-102.29	53.84	390.42	371.83	18.59	21.003	
3,700.00	3,660.32	3,624.06	3,607.11	11.31	8.42	-161.615	-119.31	66.70	424.90	405.77	19.13	22.211	
3,800.00	3,757.47	3,717.21	3,697.78	11.72	8.67	-160.146	-136.34	79.56	459.67	439.98	19.69	23.349	
3,900.00	3,854.63	3,810.36	3,788.46	12.13	8.94	-158.882	-153.36	92.42	494.67	474.41	20.26	24.417	
4,000.00	3,951.79	3,903.51	3,879.13	12.55	9.22	-157.784	-170.38	105.28	529.86	509.01	20.85	25.417	
4,100.00	4,048.95	3,996.66	3,969.80	12.97	9.52	-156.821	-187.40	118.14	565.20	543.75	21.45	26.354	
4,200.00	4,146.10	4,089.81	4,060.47	13.40	9.82	-155.971	-204.43	131.00	600.66	578.60	22.06	27.230	
4,300.00	4,243.26	4,182.96	4,151.15	13.83	10.14	-155.216	-221.45	143.86	636.22	613.54	22.68	28.049	
4,400.00	4,340.42	4,276.10	4,241.82	14.27	10.46	-154.540	-238.47	156.72	671.88	648.56	23.32	28.816	
4,500.00	4,437.57	4,369.25	4,332.49	14.71	10.79	-153.932	-255.49	169.58	707.60	683.64	23.96	29.534	
4,600.00	4,534.73	4,462.40	4,423.16	15.15	11.13	-153.382	-272.52	182.44	743.39	718.78	24.61	30.206	
4,700.00	4,631.89	4,555.55	4,513.84	15.59	11.48	-152.882	-289.54	195.30	779.24	753.97	25.27	30.836	
4,800.00	4,729.05	4,648.70	4,604.51	16.04	11.83	-152.426	-306.56	208.16	815.13	789.19	25.94	31.426	
4,900.00	4,826.20	4,741.85	4,695.18	16.49	12.19	-152.009	-323.59	221.03	851.06	824.45	26.61	31.981	
5,000.00	4,923.36	4,835.00	4,785.85	16.94	12.56	-151.625	-340.61	233.89	887.03	859.74	27.29	32.502	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 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)			
5,100.00	5,020.52	4,928.14	4,876.53	17.39	12.93	151.271	-357.63	246.75	923.03	895.05	27.98	32.991	
5,200.00	5,117.68	5,021.29	4,967.20	17.85	13.31	150.944	-374.65	259.61	959.06	930.39	28.67	33.452	
5,300.00	5,214.83	5,114.44	5,057.87	18.31	13.69	150.640	-391.68	272.47	995.11	965.75	29.37	33.886	
5,400.00	5,311.99	5,207.59	5,148.54	18.77	14.07	150.358	-408.70	285.33	1,031.19	1,001.12	30.07	34.296	
5,500.00	5,409.15	5,300.74	5,239.22	19.23	14.46	150.094	-425.72	298.19	1,067.29	1,036.51	30.77	34.682	
5,600.00	5,506.30	5,393.89	5,329.89	19.69	14.85	149.848	-442.74	311.05	1,103.40	1,071.92	31.48	35.047	
5,700.00	5,603.46	5,487.04	5,420.56	20.15	15.25	149.617	-459.77	323.91	1,139.54	1,107.34	32.20	35.393	
5,800.00	5,700.62	5,580.18	5,511.23	20.62	15.65	149.401	-476.79	336.77	1,175.68	1,142.77	32.91	35.719	
5,900.00	5,797.78	5,673.33	5,601.91	21.08	16.05	149.197	-493.81	349.63	1,211.85	1,178.21	33.64	36.029	
6,000.00	5,894.93	5,766.48	5,692.58	21.55	16.45	149.005	-510.83	362.49	1,248.02	1,213.66	34.36	36.323	
6,100.00	5,992.09	5,859.63	5,783.25	22.02	16.86	148.824	-527.86	375.35	1,284.21	1,249.12	35.09	36.602	
6,200.00	6,089.25	5,952.78	5,873.92	22.49	17.27	148.653	-544.88	388.22	1,320.40	1,284.59	35.82	36.867	
6,300.00	6,186.40	6,045.93	5,964.59	22.96	17.68	148.491	-561.90	401.08	1,356.61	1,320.06	36.55	37.119	
6,400.00	6,283.56	6,139.08	6,055.27	23.43	18.09	148.337	-578.93	413.94	1,392.82	1,355.54	37.28	37.359	
6,500.00	6,380.72	6,232.22	6,145.94	23.90	18.51	148.191	-595.95	426.80	1,429.05	1,391.03	38.02	37.587	
6,600.00	6,477.88	6,325.37	6,236.61	24.37	18.92	148.053	-612.97	439.66	1,465.28	1,426.52	38.76	37.805	
6,700.00	6,575.03	6,418.52	6,327.28	24.84	19.34	147.921	-629.99	452.52	1,501.51	1,462.02	39.50	38.013	
6,800.00	6,672.19	6,511.67	6,417.96	25.32	19.76	147.795	-647.02	465.38	1,537.76	1,497.52	40.24	38.212	
6,900.00	6,769.67	6,605.21	6,509.01	25.79	20.18	148.080	-664.11	478.29	1,572.89	1,531.91	40.98	38.380	
7,000.00	6,868.14	6,700.02	6,601.30	26.28	20.61	148.353	-681.44	491.39	1,603.99	1,562.25	41.74	38.428	
7,100.00	6,967.39	6,795.90	6,694.63	26.74	21.05	148.457	-698.96	504.62	1,630.86	1,588.39	42.47	38.400	
7,200.00	7,067.13	6,892.57	6,788.74	27.15	21.49	148.401	-716.63	517.97	1,653.48	1,610.32	43.16	38.313	
7,300.00	7,167.11	6,989.78	6,883.36	27.30	21.94	-174.169	-734.39	531.39	1,671.90	1,628.27	43.63	38.320	
7,400.00	7,267.11	7,087.12	6,978.11	27.35	22.38	-174.692	-752.18	544.83	1,688.95	1,644.92	44.04	38.352	
7,500.00	7,367.11	7,184.47	7,072.87	27.39	22.83	-175.204	-769.97	558.27	1,706.15	1,661.70	44.44	38.389	
7,600.00	7,467.11	7,281.81	7,167.62	27.44	23.28	-175.706	-787.76	571.71	1,723.47	1,678.62	44.85	38.423	
7,700.00	7,567.11	7,444.59	7,326.81	27.48	24.04	-176.451	-814.80	592.14	1,739.51	1,693.78	45.73	38.043	
7,800.00	7,667.11	7,630.05	7,510.17	27.52	24.86	-177.042	-836.84	608.80	1,750.92	1,704.29	46.63	37.549	
7,900.00	7,767.11	7,818.38	7,697.80	27.56	25.58	-177.375	-849.49	618.35	1,757.40	1,710.03	47.38	37.094	
8,000.00	7,867.11	7,981.73	7,861.08	27.60	25.97	-177.461	-852.55	620.86	1,758.98	1,711.23	47.75	36.833	
8,100.00	7,967.11	8,050.00	7,929.05	27.65	26.13	-177.654	-853.57	626.74	1,760.15	1,712.31	47.84	36.793	
8,200.00	8,067.11	8,121.72	7,999.16	27.69	26.38	-178.135	-856.12	641.44	1,763.06	1,715.11	47.95	36.766	
8,300.00	8,167.11	8,186.12	8,060.08	27.73	26.61	-178.803	-859.66	661.90	1,768.00	1,719.93	48.07	36.781	
8,400.00	8,267.11	8,250.00	8,117.83	27.78	26.86	-179.674	-864.31	688.73	1,775.34	1,727.14	48.20	36.836	
8,500.00	8,367.11	8,300.00	8,160.71	27.82	27.06	179.507	-868.70	714.04	1,785.45	1,737.17	48.28	36.979	
8,600.00	8,467.11	8,350.00	8,201.18	27.86	27.25	178.577	-873.70	742.94	1,798.74	1,750.38	48.37	37.189	
8,700.00	8,567.11	8,387.91	8,230.07	27.91	27.40	177.805	-877.89	767.11	1,815.49	1,767.11	48.39	37.521	
8,800.00	8,667.11	8,425.01	8,256.72	27.95	27.55	176.997	-882.30	792.53	1,835.95	1,787.57	48.39	37.944	
8,900.00	8,767.11	8,450.00	8,273.71	27.99	27.65	176.426	-885.43	810.59	1,860.29	1,812.01	48.29	38.527	
9,000.00	8,867.11	8,500.00	8,305.21	28.04	27.84	175.226	-892.05	848.83	1,888.59	1,840.24	48.36	39.056	
9,100.00	8,967.11	8,500.00	8,305.21	28.08	27.84	175.226	-892.05	848.83	1,920.73	1,872.69	48.04	39.981	
9,200.00	9,067.11	8,550.00	8,333.21	28.13	28.03	173.960	-899.12	889.63	1,956.81	1,908.69	48.12	40.667	
9,300.00	9,167.11	8,550.00	8,333.21	28.17	28.03	173.960	-899.12	889.63	1,996.48	1,948.70	47.78	41.788	
9,400.00	9,267.11	8,573.36	8,345.03	28.22	28.12	173.350	-902.56	909.48	2,039.90	1,992.26	47.64	42.818	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
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	
0.00	0.00	0.85	0.85	0.00	0.01	-8.855	39.99	-6.23	40.47				
100.00	100.00	100.85	100.85	0.79	0.79	-8.855	39.99	-6.23	40.47	38.90	1.58	25.666	
200.00	200.00	200.85	200.85	1.45	1.45	-8.855	39.99	-6.23	40.47	37.58	2.90	13.975	
300.00	300.00	300.85	300.85	1.89	1.89	-8.855	39.99	-6.23	40.47	36.69	3.79	10.689	
400.00	400.00	400.85	400.85	2.25	2.26	-8.855	39.99	-6.23	40.47	35.96	4.51	8.974	
500.00	500.00	500.85	500.85	2.57	2.57	-8.855	39.99	-6.23	40.47	35.33	5.14	7.877	
600.00	600.00	600.85	600.85	2.85	2.85	-8.855	39.99	-6.23	40.47	34.77	5.70	7.099	
700.00	700.00	700.85	700.85	3.11	3.11	-8.855	39.99	-6.23	40.47	34.25	6.22	6.509	
800.00	800.00	800.85	800.85	3.35	3.35	-8.855	39.99	-6.23	40.47	33.77	6.70	6.041	
900.00	900.00	900.85	900.85	3.58	3.58	-8.855	39.99	-6.23	40.47	33.32	7.15	5.659	
1,000.00	1,000.00	1,000.85	1,000.85	3.79	3.79	-8.855	39.99	-6.23	40.47	32.89	7.58	5.339	
1,100.00	1,100.00	1,100.85	1,100.85	3.99	4.00	-8.855	39.99	-6.23	40.47	32.48	7.99	5.065	
1,200.00	1,200.00	1,200.85	1,200.85	4.19	4.19	-8.855	39.99	-6.23	40.47	32.09	8.38	4.828	
1,300.00	1,300.00	1,300.85	1,300.85	4.38	4.38	-8.855	39.99	-6.23	40.47	31.71	8.76	4.619	
1,400.00	1,400.00	1,400.85	1,400.85	4.56	4.56	-8.855	39.99	-6.23	40.47	31.35	9.13	4.435	
1,500.00	1,500.00	1,500.85	1,500.85	4.74	4.74	-8.855	39.99	-6.23	40.47	30.99	9.48	4.269	
1,600.00	1,600.00	1,600.85	1,600.85	4.91	4.91	-8.855	39.99	-6.23	40.47	30.65	9.82	4.119	
1,700.00	1,700.00	1,700.85	1,700.85	5.08	5.08	-8.855	39.99	-6.23	40.47	30.31	10.16	3.984	
1,800.00	1,800.00	1,800.85	1,800.85	5.24	5.24	-8.855	39.99	-6.23	40.47	29.99	10.49	3.859	
1,900.00	1,900.00	1,900.85	1,900.85	5.40	5.40	-8.855	39.99	-6.23	40.47	29.67	10.81	3.745	
2,000.00	2,000.00	2,000.85	2,000.85	5.56	5.56	-8.855	39.99	-6.23	40.47	29.35	11.12	3.640	
2,100.00	2,099.95	2,100.80	2,100.80	5.94	5.71	-49.388	39.99	-6.23	38.72	27.20	11.52	3.360	
2,200.00	2,199.63	2,200.48	2,200.48	6.32	5.86	-59.530	39.99	-6.23	34.13	22.29	11.84	2.882	
2,300.00	2,298.77	2,299.62	2,299.62	6.70	6.01	-81.723	39.99	-6.23	29.69	17.67	12.02	2.470	
2,326.50	2,324.91	2,325.76	2,325.76	6.80	6.05	-90.001	39.99	-6.23	29.38	17.29	12.08	2.431	CC, ES, SF
2,400.00	2,397.08	2,397.93	2,397.93	7.09	6.15	-114.828	39.99	-6.23	32.50	20.03	12.47	2.606	
2,500.00	2,494.43	2,495.28	2,495.28	7.28	6.29	-140.559	39.99	-6.23	47.05	33.88	13.17	3.573	
2,600.00	2,591.59	2,594.85	2,594.85	7.53	6.53	-154.015	40.39	-4.49	65.50	51.66	13.84	4.734	
2,700.00	2,688.74	2,695.71	2,695.71	7.79	6.77	-162.410	41.68	1.18	82.21	67.79	14.41	5.703	
2,800.00	2,785.90	2,797.45	2,797.45	8.08	7.02	-169.023	43.89	10.88	96.49	81.53	14.97	6.448	
2,900.00	2,883.06	2,896.79	2,896.79	8.39	7.18	-174.529	46.65	22.97	109.42	93.99	15.44	7.089	
3,000.00	2,980.22	2,995.47	2,995.47	8.71	7.37	-178.840	49.40	35.04	123.07	107.15	15.93	7.727	
3,100.00	3,077.37	3,094.15	3,094.15	9.05	7.58	-177.720	52.16	47.12	137.28	120.85	16.43	8.357	
3,200.00	3,174.53	3,192.84	3,192.84	9.40	7.80	-174.929	54.91	59.19	151.87	134.94	16.93	8.968	
3,300.00	3,271.69	3,291.52	3,291.52	9.77	8.04	-172.630	57.67	71.27	166.76	149.31	17.45	9.556	
3,400.00	3,368.84	3,390.20	3,390.20	10.14	8.30	-170.709	60.42	83.34	181.87	163.89	17.98	10.117	
3,500.00	3,466.00	3,488.88	3,488.88	10.52	8.56	-169.083	63.18	95.41	197.15	178.64	18.51	10.651	
3,600.00	3,563.16	3,587.57	3,587.57	10.92	8.84	-167.692	65.93	107.49	212.56	193.51	19.05	11.157	
3,700.00	3,660.32	3,686.25	3,686.25	11.31	9.13	-166.489	68.68	119.56	228.08	208.48	19.60	11.637	
3,800.00	3,757.47	3,784.93	3,784.93	11.72	9.43	-165.439	71.44	131.64	243.68	223.53	20.16	12.090	
3,900.00	3,854.63	3,883.61	3,883.61	12.13	9.74	-164.516	74.19	143.71	259.36	238.64	20.72	12.520	
4,000.00	3,951.79	3,982.30	3,982.30	12.55	10.05	-163.697	76.95	155.79	275.09	253.81	21.28	12.926	
4,100.00	4,048.95	4,080.98	4,080.98	12.97	10.37	-162.968	79.70	167.86	290.87	269.02	21.85	13.310	
4,200.00	4,146.10	4,179.66	4,179.66	13.40	10.70	-162.313	82.46	179.94	306.70	284.27	22.43	13.674	
4,300.00	4,243.26	4,278.35	4,278.35	13.83	11.04	-161.723	85.21	192.01	322.55	299.54	23.01	14.019	
4,400.00	4,340.42	4,377.03	4,377.03	14.27	11.38	-161.188	87.96	204.08	338.44	314.85	23.59	14.345	
4,500.00	4,437.57	4,475.71	4,475.71	14.71	11.72	-160.701	90.72	216.16	354.36	330.18	24.18	14.655	
4,600.00	4,534.73	4,574.39	4,574.39	15.15	12.07	-160.256	93.47	228.23	370.29	345.52	24.77	14.949	
4,700.00	4,631.89	4,673.08	4,673.08	15.59	12.43	-159.848	96.23	240.31	386.25	360.89	25.36	15.228	
4,800.00	4,729.05	4,771.76	4,771.76	16.04	12.78	-159.472	98.98	252.38	402.23	376.26	25.96	15.493	
4,900.00	4,826.20	4,870.44	4,870.44	16.49	13.15	-159.125	101.74	264.46	418.22	391.66	26.56	15.746	
5,000.00	4,923.36	4,969.12	4,969.12	16.94	13.51	-158.803	104.49	276.53	434.22	407.06	27.16	15.986	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset		+N/-S	+E/-W	Between Centres	Between Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
10,200.00	10,017.70	8,750.00	8,416.98	29.85	28.30	25.093	276.56	1,144.11	1,741.09	1,704.76	36.33	47.921	
10,300.00	10,079.86	8,750.00	8,416.98	30.21	28.30	22.895	276.56	1,144.11	1,788.60	1,752.43	36.17	49.448	
10,400.00	10,127.50	8,784.27	8,418.00	30.58	28.31	21.034	282.60	1,177.82	1,825.29	1,788.92	36.36	50.196	
10,500.00	10,159.18	8,842.55	8,418.00	30.96	28.32	19.685	292.31	1,235.29	1,849.53	1,812.76	36.77	50.302	
10,520.32	10,163.57	8,858.67	8,418.00	31.05	28.33	19.471	294.79	1,251.22	1,852.66	1,815.77	36.90	50.214	
10,600.00	10,173.94	8,923.09	8,418.00	31.38	28.34	18.923	303.80	1,315.00	1,858.87	1,821.48	37.39	49.710	
10,700.00	10,175.00	9,000.00	8,418.00	31.85	28.37	18.673	312.67	1,391.39	1,856.28	1,818.37	37.91	48.967	
10,729.75	10,175.00	9,029.72	8,418.00	32.03	28.38	18.592	315.55	1,420.98	1,855.38	1,817.22	38.16	48.622	
10,800.00	10,175.00	9,087.78	8,418.00	32.46	28.41	18.458	320.28	1,478.84	1,853.62	1,815.02	38.60	48.025	
10,829.85	10,175.00	9,112.51	8,418.00	32.68	28.43	18.411	321.95	1,503.51	1,853.01	1,814.22	38.80	47.761	
10,900.00	10,175.00	9,170.70	8,418.00	33.22	28.49	18.326	325.01	1,561.62	1,851.91	1,812.64	39.27	47.156	
10,929.58	10,175.00	9,200.00	8,418.00	33.47	28.53	18.297	326.11	1,590.90	1,851.59	1,812.05	39.55	46.821	
11,000.00	10,175.00	9,253.80	8,418.00	34.11	28.65	18.265	327.35	1,644.69	1,851.12	1,811.13	39.99	46.290	
11,022.86	10,175.00	9,272.81	8,418.00	34.34	28.71	18.261	327.55	1,663.69	1,851.07	1,810.91	40.16	46.090	
11,036.60	10,175.00	9,284.24	8,418.00	34.48	28.75	18.260	327.60	1,675.12	1,851.06	1,810.80	40.27	45.971	
11,100.00	10,175.00	9,347.64	8,418.00	35.14	29.12	18.260	327.79	1,738.52	1,851.06	1,810.15	40.91	45.245	
11,123.32	10,175.00	9,370.96	8,418.00	35.41	29.33	18.260	327.86	1,761.84	1,851.06	1,809.90	41.16	44.973	
11,200.00	10,175.00	9,447.64	8,418.00	36.30	30.28	18.260	328.09	1,838.52	1,851.06	1,809.07	41.99	44.085	
11,223.32	10,175.00	9,470.96	8,418.00	36.59	30.62	18.260	328.16	1,861.84	1,851.06	1,808.81	42.25	43.811	
11,300.00	10,175.00	9,547.64	8,418.00	37.57	31.87	18.260	328.39	1,938.52	1,851.06	1,807.94	43.13	42.921	
11,323.32	10,175.00	9,570.96	8,418.00	37.89	32.26	18.260	328.46	1,961.84	1,851.06	1,807.66	43.40	42.648	
11,400.00	10,175.00	9,647.64	8,418.00	38.94	33.61	18.260	328.69	2,038.52	1,851.06	1,806.74	44.32	41.763	
11,423.32	10,175.00	9,670.96	8,418.00	39.28	34.03	18.260	328.76	2,061.84	1,851.06	1,806.45	44.61	41.493	
11,500.00	10,175.00	9,747.64	8,418.00	40.39	35.43	18.260	328.98	2,138.52	1,851.06	1,805.49	45.57	40.618	
11,523.32	10,175.00	9,770.96	8,418.00	40.75	35.86	18.260	329.05	2,161.84	1,851.06	1,805.19	45.87	40.352	
11,600.00	10,175.00	9,847.64	8,418.00	41.92	37.29	18.260	329.28	2,238.52	1,851.06	1,804.19	46.87	39.494	
11,623.32	10,175.00	9,870.96	8,418.00	42.28	37.72	18.260	329.35	2,261.84	1,851.06	1,803.88	47.18	39.233	
11,700.00	10,175.00	9,947.64	8,418.00	43.50	39.17	18.260	329.58	2,338.52	1,851.06	1,802.85	48.21	38.394	
11,723.32	10,175.00	9,970.96	8,418.00	43.88	39.61	18.260	329.65	2,361.84	1,851.06	1,802.53	48.53	38.140	
11,800.00	10,175.00	10,047.64	8,418.00	45.13	41.08	18.260	329.88	2,438.52	1,851.06	1,801.47	49.60	37.323	
11,823.32	10,175.00	10,070.96	8,418.00	45.52	41.52	18.260	329.95	2,461.84	1,851.06	1,801.14	49.93	37.076	
11,900.00	10,175.00	10,147.64	8,418.00	46.81	43.00	18.260	330.18	2,538.52	1,851.06	1,800.05	51.02	36.283	
11,923.32	10,175.00	10,170.96	8,418.00	47.21	43.45	18.260	330.25	2,561.84	1,851.06	1,799.71	51.36	36.044	
12,000.00	10,175.00	10,247.64	8,418.00	48.53	44.94	18.260	330.48	2,638.52	1,851.06	1,798.59	52.47	35.276	
12,023.32	10,175.00	10,270.96	8,418.00	48.93	45.39	18.260	330.55	2,661.84	1,851.06	1,798.24	52.82	35.045	
12,100.00	10,175.00	10,347.64	8,418.00	50.27	46.89	18.260	330.77	2,738.52	1,851.06	1,797.10	53.96	34.303	
12,123.32	10,175.00	10,370.96	8,418.00	50.69	47.34	18.260	330.84	2,761.83	1,851.06	1,796.75	54.32	34.080	
12,200.00	10,175.00	10,447.64	8,418.00	52.05	48.85	18.260	331.07	2,838.52	1,851.06	1,795.58	55.48	33.364	
12,223.32	10,175.00	10,470.96	8,418.00	52.47	49.30	18.260	331.14	2,861.83	1,851.06	1,795.22	55.84	33.149	
12,300.00	10,175.00	10,547.64	8,418.00	53.85	50.82	18.260	331.37	2,938.52	1,851.06	1,794.04	57.03	32.460	
12,323.32	10,175.00	10,570.96	8,418.00	54.27	51.28	18.260	331.44	2,961.83	1,851.06	1,793.67	57.39	32.253	
12,400.00	10,175.00	10,647.64	8,418.00	55.67	52.79	18.260	331.67	3,038.52	1,851.06	1,792.47	58.60	31.590	
12,423.32	10,175.00	10,670.96	8,418.00	56.10	53.25	18.260	331.74	3,061.83	1,851.06	1,792.10	58.97	31.392	
12,500.00	10,175.00	10,747.64	8,418.00	57.51	54.78	18.260	331.97	3,138.52	1,851.06	1,790.87	60.19	30.754	
12,523.32	10,175.00	10,770.96	8,418.00	57.94	55.24	18.260	332.04	3,161.83	1,851.06	1,790.50	60.57	30.563	
12,600.00	10,175.00	10,847.64	8,418.00	59.36	56.77	18.260	332.27	3,238.52	1,851.06	1,789.26	61.80	29.950	
12,623.32	10,175.00	10,870.96	8,418.00	59.80	57.23	18.260	332.33	3,261.83	1,851.06	1,788.88	62.19	29.767	
12,700.00	10,175.00	10,947.64	8,418.00	61.23	58.76	18.260	332.56	3,338.51	1,851.06	1,787.62	63.44	29.178	
12,723.32	10,175.00	10,970.96	8,418.00	61.67	59.23	18.260	332.63	3,361.83	1,851.06	1,787.24	63.82	29.002	
12,800.00	10,175.00	11,047.64	8,418.00	63.12	60.76	18.260	332.86	3,438.51	1,851.06	1,785.97	65.09	28.437	
12,823.32	10,175.00	11,070.96	8,418.00	63.56	61.23	18.260	332.93	3,461.83	1,851.06	1,785.58	65.48	28.269	
12,900.00	10,175.00	11,147.64	8,418.00	65.02	62.77	18.260	333.16	3,538.51	1,851.06	1,784.30	66.76	27.726	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)				
12,923.32	10,175.00	11,170.96	8,418.00	65.46	63.24	18.260	333.23	3,561.83	1,851.06	1,783.91	67.16	27.564			
13,000.00	10,175.00	11,247.64	8,418.00	66.92	64.78	18.260	333.46	3,638.51	1,851.06	1,782.61	68.45	27.043			
13,023.32	10,175.00	11,270.96	8,418.00	67.37	65.25	18.260	333.53	3,661.83	1,851.06	1,782.22	68.84	26.888			
13,100.00	10,175.00	11,347.64	8,418.00	68.84	66.79	18.260	333.76	3,738.51	1,851.06	1,780.91	70.15	26.388			
13,123.32	10,175.00	11,370.96	8,418.00	69.29	67.26	18.260	333.83	3,761.83	1,851.06	1,780.51	70.55	26.238			
13,200.00	10,175.00	11,447.64	8,418.00	70.77	68.81	18.260	334.05	3,838.51	1,851.06	1,779.20	71.86	25.758			
13,223.32	10,175.00	11,470.96	8,418.00	71.22	69.28	18.260	334.12	3,861.83	1,851.06	1,778.80	72.27	25.615			
13,300.00	10,175.00	11,547.64	8,418.00	72.71	70.83	18.260	334.35	3,938.51	1,851.06	1,777.47	73.59	25.154			
13,323.32	10,175.00	11,570.96	8,418.00	73.16	71.30	18.260	334.42	3,961.83	1,851.06	1,777.07	73.99	25.016			
13,400.00	10,175.00	11,647.64	8,418.00	74.65	72.85	18.260	334.65	4,038.51	1,851.06	1,775.73	75.33	24.573			
13,423.32	10,175.00	11,670.96	8,418.00	75.10	73.32	18.260	334.72	4,061.83	1,851.06	1,775.33	75.74	24.441			
13,500.00	10,175.00	11,747.64	8,418.00	76.60	74.87	18.260	334.95	4,138.51	1,851.06	1,773.99	77.08	24.016			
13,523.32	10,175.00	11,770.96	8,418.00	77.05	75.35	18.260	335.02	4,161.83	1,851.06	1,773.58	77.49	23.889			
13,600.00	10,175.00	11,847.64	8,418.00	78.56	76.90	18.260	335.25	4,238.51	1,851.06	1,772.23	78.84	23.480			
13,623.32	10,175.00	11,870.96	8,418.00	79.01	77.37	18.260	335.32	4,261.83	1,851.06	1,771.81	79.25	23.357			
13,700.00	10,175.00	11,947.64	8,418.00	80.52	78.93	18.260	335.55	4,338.51	1,851.06	1,770.46	80.61	22.964			
13,723.32	10,175.00	11,970.96	8,418.00	80.98	79.40	18.260	335.61	4,361.83	1,851.06	1,770.04	81.02	22.847			
13,800.00	10,175.00	12,047.64	8,418.00	82.49	80.96	18.260	335.84	4,438.51	1,851.06	1,768.68	82.39	22.468			
13,823.32	10,175.00	12,070.96	8,418.00	82.95	81.43	18.260	335.91	4,461.83	1,851.06	1,768.26	82.80	22.355			
13,900.00	10,175.00	12,147.64	8,418.00	84.46	82.99	18.260	336.14	4,538.51	1,851.06	1,766.89	84.17	21.991			
13,923.32	10,175.00	12,170.96	8,418.00	84.92	83.47	18.260	336.21	4,561.83	1,851.06	1,766.47	84.59	21.883			
14,000.00	10,175.00	12,247.64	8,418.00	86.44	85.03	18.260	336.44	4,638.51	1,851.06	1,765.10	85.97	21.532			
14,023.32	10,175.00	12,270.96	8,418.00	86.90	85.50	18.260	336.51	4,661.83	1,851.06	1,764.68	86.39	21.428			
14,100.00	10,175.00	12,347.64	8,418.00	88.42	87.07	18.260	336.74	4,738.51	1,851.06	1,763.29	87.77	21.090			
14,123.32	10,175.00	12,370.96	8,418.00	88.88	87.54	18.260	336.81	4,761.83	1,851.06	1,762.87	88.19	20.989			
14,200.00	10,175.00	12,447.64	8,418.00	90.40	89.10	18.260	337.04	4,838.51	1,851.06	1,761.48	89.58	20.664			
14,223.32	10,175.00	12,470.96	8,418.00	90.87	89.58	18.260	337.11	4,861.83	1,851.06	1,761.06	90.00	20.567			
14,300.00	10,175.00	12,547.64	8,418.00	92.39	91.14	18.260	337.33	4,938.51	1,851.06	1,759.67	91.39	20.254			
14,323.32	10,175.00	12,570.96	8,418.00	92.86	91.62	18.260	337.40	4,961.82	1,851.06	1,759.24	91.82	20.160			
14,400.00	10,175.00	12,647.64	8,418.00	94.39	93.18	18.260	337.63	5,038.51	1,851.06	1,757.85	93.22	19.858			
14,423.32	10,175.00	12,670.96	8,418.00	94.85	93.66	18.260	337.70	5,061.82	1,851.06	1,757.42	93.64	19.767			
14,500.00	10,175.00	12,747.64	8,418.00	96.38	95.23	18.260	337.93	5,138.51	1,851.06	1,756.02	95.04	19.476			
14,523.32	10,175.00	12,770.96	8,418.00	96.85	95.70	18.260	338.00	5,161.82	1,851.06	1,755.59	95.47	19.389			
14,600.00	10,175.00	12,847.64	8,418.00	98.38	97.27	18.260	338.23	5,238.51	1,851.06	1,754.19	96.88	19.107			
14,623.32	10,175.00	12,870.96	8,418.00	98.85	97.75	18.260	338.30	5,261.82	1,851.06	1,753.76	97.31	19.023			
14,700.00	10,175.00	12,947.64	8,418.00	100.38	99.31	18.260	338.53	5,338.51	1,851.06	1,752.35	98.72	18.751			
14,723.32	10,175.00	12,970.96	8,418.00	100.85	99.79	18.260	338.60	5,361.82	1,851.06	1,751.92	99.15	18.670			
14,800.00	10,175.00	13,047.64	8,418.00	102.39	101.36	18.260	338.83	5,438.51	1,851.06	1,750.50	100.56	18.408			
14,823.32	10,175.00	13,070.96	8,418.00	102.86	101.84	18.260	338.90	5,461.82	1,851.06	1,750.07	100.99	18.329			
14,900.00	10,175.00	13,147.64	8,418.00	104.40	103.41	18.260	339.12	5,538.50	1,851.06	1,748.66	102.41	18.076			
14,923.32	10,175.00	13,170.96	8,418.00	104.86	103.88	18.260	339.19	5,561.82	1,851.06	1,748.22	102.84	18.000			
15,000.00	10,175.00	13,247.64	8,418.00	106.41	105.45	18.260	339.42	5,638.50	1,851.06	1,746.80	104.26	17.754			
15,023.32	10,175.00	13,270.96	8,418.00	106.87	105.93	18.260	339.49	5,661.82	1,851.06	1,746.37	104.69	17.681			
15,100.00	10,175.00	13,347.64	8,418.00	108.42	107.50	18.260	339.72	5,738.50	1,851.06	1,744.95	106.12	17.444			
15,123.32	10,175.00	13,370.96	8,418.00	108.89	107.98	18.260	339.79	5,761.82	1,851.06	1,744.51	106.55	17.373			
15,200.00	10,175.00	13,447.64	8,418.00	110.43	109.55	18.260	340.02	5,838.50	1,851.06	1,743.09	107.98	17.143			
15,223.32	10,175.00	13,470.96	8,418.00	110.90	110.03	18.260	340.09	5,861.82	1,851.06	1,742.65	108.41	17.074			
15,300.00	10,175.00	13,547.64	8,418.00	112.45	111.60	18.260	340.32	5,938.50	1,851.06	1,741.22	109.84	16.852			
15,323.32	10,175.00	13,570.96	8,418.00	112.92	112.08	18.260	340.39	5,961.82	1,851.06	1,740.79	110.28	16.786			
15,400.00	10,175.00	13,647.64	8,418.00	114.47	113.65	18.260	340.61	6,038.50	1,851.06	1,739.35	111.71	16.570			
15,423.32	10,175.00	13,670.96	8,418.00	114.94	114.13	18.260	340.68	6,061.82	1,851.06	1,738.92	112.15	16.506			
15,500.00	10,175.00	13,747.64	8,418.00	116.49	115.70	18.260	340.91	6,138.50	1,851.06	1,737.48	113.58	16.297			

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 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)			
15,523.32	10,175.00	13,770.96	8,418.00	116.96	116.18	18.260	340.98	6,161.82	1,851.06	1,737.05	114.02	16.235	
15,600.00	10,175.00	13,847.64	8,418.00	118.51	117.75	18.260	341.21	6,238.50	1,851.06	1,735.61	115.46	16.033	
15,623.32	10,175.00	13,870.96	8,418.00	118.98	118.23	18.260	341.28	6,261.82	1,851.06	1,735.17	115.89	15.972	
15,700.00	10,175.00	13,947.64	8,418.00	120.53	119.80	18.260	341.51	6,338.50	1,851.06	1,733.73	117.33	15.776	
15,723.32	10,175.00	13,970.96	8,418.00	121.00	120.28	18.260	341.58	6,361.82	1,851.06	1,733.29	117.77	15.717	
15,800.00	10,175.00	14,047.64	8,418.00	122.56	121.86	18.260	341.81	6,438.50	1,851.06	1,731.85	119.21	15.527	
15,823.32	10,175.00	14,070.96	8,418.00	123.03	122.34	18.260	341.88	6,461.82	1,851.06	1,731.41	119.65	15.470	
15,900.00	10,175.00	14,147.64	8,418.00	124.58	123.91	18.260	342.11	6,538.50	1,851.06	1,729.97	121.10	15.286	
15,923.32	10,175.00	14,170.96	8,418.00	125.06	124.39	18.260	342.18	6,561.82	1,851.06	1,729.53	121.54	15.230	
16,000.00	10,175.00	14,247.64	8,418.00	126.61	125.97	18.260	342.40	6,638.50	1,851.06	1,728.08	122.98	15.051	
16,023.32	10,175.00	14,270.96	8,418.00	127.08	126.44	18.260	342.47	6,661.82	1,851.06	1,727.64	123.42	14.998	
16,100.00	10,175.00	14,347.64	8,418.00	128.64	128.02	18.260	342.70	6,738.50	1,851.06	1,726.19	124.87	14.824	
16,123.32	10,175.00	14,370.96	8,418.00	129.11	128.50	18.260	342.77	6,761.82	1,851.06	1,725.75	125.31	14.771	
16,200.00	10,175.00	14,447.64	8,418.00	130.67	130.07	18.260	343.00	6,838.50	1,851.06	1,724.30	126.76	14.602	
16,223.32	10,175.00	14,470.96	8,418.00	131.14	130.55	18.260	343.07	6,861.82	1,851.06	1,723.86	127.21	14.552	
16,300.00	10,175.00	14,547.64	8,418.00	132.70	132.13	18.260	343.30	6,938.50	1,851.06	1,722.41	128.66	14.388	
16,323.32	10,175.00	14,570.96	8,418.00	133.18	132.61	18.260	343.37	6,961.82	1,851.06	1,721.96	129.10	14.338	
16,400.00	10,175.00	14,647.64	8,418.00	134.74	134.19	18.260	343.60	7,038.50	1,851.06	1,720.51	130.55	14.179	
16,423.32	10,175.00	14,670.96	8,418.00	135.21	134.67	18.260	343.67	7,061.82	1,851.06	1,720.07	131.00	14.131	
16,500.00	10,175.00	14,747.64	8,418.00	136.77	136.24	18.260	343.90	7,138.50	1,851.06	1,718.61	132.45	13.975	
16,523.32	10,175.00	14,770.96	8,418.00	137.24	136.72	18.260	343.96	7,161.82	1,851.06	1,718.17	132.89	13.929	
16,600.00	10,175.00	14,847.64	8,418.00	138.80	138.30	18.260	344.19	7,238.50	1,851.06	1,716.71	134.35	13.778	
16,623.32	10,175.00	14,870.96	8,418.00	139.28	138.78	18.260	344.26	7,261.81	1,851.06	1,716.27	134.79	13.733	
16,700.00	10,175.00	14,947.64	8,418.00	140.84	140.36	18.260	344.49	7,338.50	1,851.06	1,714.81	136.25	13.586	
16,723.32	10,175.00	14,970.96	8,418.00	141.32	140.84	18.260	344.56	7,361.81	1,851.06	1,714.37	136.70	13.541	
16,800.00	10,175.00	15,047.64	8,418.00	142.88	142.41	18.260	344.79	7,438.50	1,851.06	1,712.91	138.16	13.398	
16,823.32	10,175.00	15,070.96	8,418.00	143.35	142.89	18.260	344.86	7,461.81	1,851.06	1,712.46	138.60	13.355	
16,900.00	10,175.00	15,147.64	8,418.00	144.92	144.47	18.260	345.09	7,538.50	1,851.06	1,711.00	140.06	13.216	
16,923.32	10,175.00	15,170.96	8,418.00	145.39	144.95	18.260	345.16	7,561.81	1,851.06	1,710.56	140.51	13.174	
17,000.00	10,175.00	15,247.64	8,418.00	146.95	146.53	18.260	345.39	7,638.50	1,851.06	1,709.09	141.97	13.038	
17,023.32	10,175.00	15,270.96	8,418.00	147.43	147.01	18.260	345.46	7,661.81	1,851.06	1,708.65	142.41	12.998	
17,100.00	10,175.00	15,347.64	8,418.00	148.99	148.59	18.260	345.68	7,738.50	1,851.06	1,707.19	143.88	12.866	
17,123.32	10,175.00	15,370.96	8,418.00	149.47	149.07	18.260	345.75	7,761.81	1,851.06	1,706.74	144.32	12.826	
17,200.00	10,175.00	15,447.64	8,418.00	151.03	150.65	18.260	345.98	7,838.49	1,851.06	1,705.27	145.79	12.697	
17,223.32	10,175.00	15,470.96	8,418.00	151.51	151.13	18.260	346.05	7,861.81	1,851.06	1,704.83	146.23	12.658	
17,300.00	10,175.00	15,547.64	8,418.00	153.08	152.71	18.260	346.28	7,938.49	1,851.06	1,703.36	147.70	12.533	
17,323.32	10,175.00	15,570.96	8,418.00	153.55	153.19	18.260	346.35	7,961.81	1,851.06	1,702.92	148.15	12.495	
17,400.00	10,175.00	15,647.64	8,418.00	155.12	154.76	18.260	346.58	8,038.49	1,851.06	1,701.45	149.61	12.372	
17,423.32	10,175.00	15,670.96	8,418.00	155.59	155.24	18.260	346.65	8,061.81	1,851.06	1,701.00	150.06	12.335	
17,500.00	10,175.00	15,747.64	8,418.00	157.16	156.82	18.260	346.88	8,138.49	1,851.06	1,699.53	151.53	12.216	
17,523.32	10,175.00	15,770.96	8,418.00	157.64	157.30	18.260	346.95	8,161.81	1,851.06	1,699.09	151.98	12.180	
17,600.00	10,175.00	15,847.64	8,418.00	159.20	158.88	18.260	347.18	8,238.49	1,851.06	1,697.62	153.45	12.063	
17,623.32	10,175.00	15,870.96	8,418.00	159.68	159.36	18.260	347.25	8,261.81	1,851.06	1,697.17	153.89	12.028	
17,700.00	10,175.00	15,947.64	8,418.00	161.25	160.94	18.260	347.47	8,338.49	1,851.06	1,695.70	155.36	11.914	
17,723.32	10,175.00	15,970.96	8,418.00	161.72	161.42	18.260	347.54	8,361.81	1,851.06	1,695.25	155.81	11.880	
17,800.00	10,175.00	16,047.64	8,418.00	163.29	163.00	18.260	347.77	8,438.49	1,851.06	1,693.78	157.28	11.769	
17,823.32	10,175.00	16,070.96	8,418.00	163.77	163.48	18.260	347.84	8,461.81	1,851.06	1,693.33	157.73	11.736	
17,900.00	10,175.00	16,147.64	8,418.00	165.34	165.06	18.260	348.07	8,538.49	1,851.06	1,691.86	159.20	11.627	
17,923.32	10,175.00	16,170.96	8,418.00	165.82	165.55	18.260	348.14	8,561.81	1,851.06	1,691.41	159.65	11.595	
18,000.00	10,175.00	16,247.64	8,418.00	167.38	167.13	18.260	348.37	8,638.49	1,851.06	1,689.94	161.12	11.488	
18,023.32	10,175.00	16,270.96	8,418.00	167.86	167.61	18.260	348.44	8,661.81	1,851.06	1,689.49	161.57	11.457	
18,100.00	10,175.00	16,347.64	8,418.00	169.43	169.19	18.260	348.67	8,738.49	1,851.06	1,688.02	163.05	11.353	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 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)			
18,123.32	10,175.00	16,370.96	8,418.00	169.91	169.67	18.260	348.74	8,761.81	1,851.06	1,687.57	163.49	11.322	
18,200.00	10,175.00	16,447.64	8,418.00	171.48	171.25	18.260	348.96	8,838.49	1,851.06	1,686.09	164.97	11.221	
18,223.32	10,175.00	16,470.96	8,418.00	171.96	171.73	18.260	349.03	8,861.81	1,851.06	1,685.65	165.42	11.190	
18,300.00	10,175.00	16,547.64	8,418.00	173.53	173.31	18.260	349.26	8,938.49	1,851.06	1,684.17	166.89	11.091	
18,323.32	10,175.00	16,570.96	8,418.00	174.00	173.79	18.260	349.33	8,961.81	1,851.06	1,683.72	167.34	11.061	
18,400.00	10,175.00	16,647.64	8,418.00	175.57	175.37	18.260	349.56	9,038.49	1,851.06	1,682.24	168.82	10.965	
18,423.32	10,175.00	16,670.96	8,418.00	176.05	175.85	18.260	349.63	9,061.81	1,851.06	1,681.79	169.27	10.936	
18,500.00	10,175.00	16,747.64	8,418.00	177.62	177.43	18.260	349.86	9,138.49	1,851.06	1,680.32	170.75	10.841	
18,523.32	10,175.00	16,770.96	8,418.00	178.10	177.91	18.260	349.93	9,161.81	1,851.06	1,679.87	171.20	10.813	
18,600.00	10,175.00	16,847.64	8,418.00	179.67	179.49	18.260	350.16	9,238.49	1,851.06	1,678.39	172.67	10.720	
18,623.32	10,175.00	16,870.96	8,418.00	180.15	179.98	18.260	350.23	9,261.81	1,851.06	1,677.94	173.12	10.692	
18,700.00	10,175.00	16,947.64	8,418.00	181.72	181.56	18.260	350.46	9,338.49	1,851.06	1,676.46	174.60	10.602	
18,723.32	10,175.00	16,970.96	8,418.00	182.20	182.04	18.260	350.53	9,361.81	1,851.06	1,676.01	175.05	10.574	
18,800.00	10,175.00	17,047.64	8,418.00	183.77	183.62	18.260	350.75	9,438.49	1,851.06	1,674.53	176.53	10.486	
18,823.32	10,175.00	17,070.96	8,418.00	184.25	184.10	18.260	350.82	9,461.81	1,851.06	1,674.08	176.98	10.459	
18,900.00	10,175.00	17,147.64	8,418.00	185.82	185.68	18.260	351.05	9,538.49	1,851.06	1,672.60	178.46	10.372	
18,923.32	10,175.00	17,170.96	8,418.00	186.30	186.16	18.260	351.12	9,561.80	1,851.06	1,672.15	178.91	10.346	
19,000.00	10,175.00	17,247.64	8,418.00	187.87	187.74	18.260	351.35	9,638.49	1,851.06	1,670.67	180.39	10.261	
19,023.32	10,175.00	17,270.96	8,418.00	188.35	188.23	18.260	351.42	9,661.80	1,851.06	1,670.22	180.84	10.236	
19,100.00	10,175.00	17,347.64	8,418.00	189.92	189.81	18.260	351.65	9,738.49	1,851.06	1,668.74	182.32	10.153	
19,123.32	10,175.00	17,370.96	8,418.00	190.40	190.29	18.260	351.72	9,761.80	1,851.06	1,668.29	182.78	10.128	
19,200.00	10,175.00	17,447.64	8,418.00	191.98	191.87	18.260	351.95	9,838.49	1,851.06	1,666.81	184.26	10.046	
19,223.32	10,175.00	17,470.96	8,418.00	192.45	192.35	18.260	352.02	9,861.80	1,851.06	1,666.35	184.71	10.022	
19,300.00	10,175.00	17,547.64	8,418.00	194.03	193.93	18.260	352.25	9,938.49	1,851.06	1,664.87	186.19	9.942	
19,323.32	10,175.00	17,570.96	8,418.00	194.51	194.41	18.260	352.31	9,961.80	1,851.06	1,664.42	186.64	9.918	
19,400.00	10,175.00	17,647.64	8,418.00	196.08	196.00	18.260	352.54	10,038.48	1,851.06	1,662.94	188.13	9.840	
19,423.32	10,175.00	17,670.96	8,418.00	196.56	196.48	18.260	352.61	10,061.80	1,851.06	1,662.49	188.58	9.816	
19,500.00	10,175.00	17,747.64	8,418.00	198.13	198.06	18.260	352.84	10,138.48	1,851.06	1,661.00	190.06	9.739	
19,523.32	10,175.00	17,770.96	8,418.00	198.61	198.54	18.260	352.91	10,161.80	1,851.06	1,660.55	190.51	9.716	
19,600.00	10,175.00	17,847.64	8,418.00	200.19	200.12	18.260	353.14	10,238.48	1,851.06	1,659.07	192.00	9.641	
19,623.32	10,175.00	17,870.96	8,418.00	200.66	200.60	18.260	353.21	10,261.80	1,851.06	1,658.62	192.45	9.619	
19,700.00	10,175.00	17,947.64	8,418.00	202.24	202.19	18.260	353.44	10,338.48	1,851.06	1,657.13	193.93	9.545	
19,723.32	10,175.00	17,970.96	8,418.00	202.72	202.67	18.260	353.51	10,361.80	1,851.06	1,656.68	194.38	9.523	
19,800.00	10,175.00	18,047.64	8,418.00	204.29	204.25	18.260	353.74	10,438.48	1,851.06	1,655.19	195.87	9.451	
19,823.32	10,175.00	18,070.96	8,418.00	204.77	204.73	18.260	353.81	10,461.80	1,851.06	1,654.74	196.32	9.429	
19,900.00	10,175.00	18,147.64	8,418.00	206.35	206.31	18.260	354.03	10,538.48	1,851.06	1,653.26	197.81	9.358	
19,923.32	10,175.00	18,170.96	8,418.00	206.83	206.80	18.260	354.10	10,561.80	1,851.06	1,652.81	198.26	9.337	
20,000.00	10,175.00	18,247.64	8,418.00	208.40	208.38	18.260	354.33	10,638.48	1,851.06	1,651.32	199.74	9.267	
20,023.32	10,175.00	18,270.96	8,418.00	208.88	208.86	18.260	354.40	10,661.80	1,851.06	1,650.87	200.20	9.246	
20,100.00	10,175.00	18,347.64	8,418.00	210.46	210.44	18.260	354.63	10,738.48	1,851.06	1,649.38	201.68	9.178	
20,123.32	10,175.00	18,370.96	8,418.00	210.94	210.92	18.260	354.70	10,761.80	1,851.06	1,648.93	202.14	9.158	
20,200.00	10,175.00	18,447.64	8,418.00	212.51	212.51	18.260	354.93	10,838.48	1,851.06	1,647.44	203.62	9.091	
20,223.32	10,175.00	18,470.96	8,418.00	212.99	212.99	18.260	355.00	10,861.80	1,851.06	1,646.99	204.07	9.071	
20,300.00	10,175.00	18,547.64	8,418.00	214.57	214.57	18.260	355.23	10,938.48	1,851.06	1,645.50	205.56	9.005	
20,323.32	10,175.00	18,570.96	8,418.00	215.05	215.05	18.260	355.30	10,961.80	1,851.06	1,645.05	206.01	8.985	
20,400.00	10,175.00	18,647.64	8,418.00	216.62	216.64	18.260	355.53	11,038.48	1,851.06	1,643.56	207.50	8.921	
20,423.32	10,175.00	18,670.96	8,418.00	217.10	217.12	18.260	355.59	11,061.80	1,851.06	1,643.11	207.96	8.901	
20,500.00	10,175.00	18,747.64	8,418.00	218.68	218.70	18.260	355.82	11,138.48	1,851.06	1,641.62	209.44	8.838	
20,523.32	10,175.00	18,770.96	8,418.00	219.16	219.18	18.260	355.89	11,161.80	1,851.06	1,641.17	209.90	8.819	
20,600.00	10,175.00	18,847.64	8,418.00	220.73	220.77	18.260	356.12	11,238.48	1,851.06	1,639.68	211.39	8.757	
20,623.32	10,175.00	18,870.96	8,418.00	221.21	221.25	18.260	356.19	11,261.80	1,851.06	1,639.23	211.84	8.738	
20,700.00	10,175.00	18,947.64	8,418.00	222.79	222.83	18.260	356.42	11,338.48	1,851.06	1,637.74	213.33	8.677	

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor	
20,723.32	10,175.00	18,970.96	8,418.00	223.27	223.31	18.260	356.49	11,361.80	1,851.06	1,637.28	213.78	8.659	
20,800.00	10,175.00	19,047.64	8,418.00	224.85	224.89	18.260	356.72	11,438.48	1,851.06	1,635.79	215.27	8.599	
20,823.32	10,175.00	19,070.96	8,418.00	225.33	225.38	18.260	356.79	11,461.80	1,851.06	1,635.34	215.72	8.581	
20,900.00	10,175.00	19,147.64	8,418.00	226.90	226.96	18.260	357.02	11,538.48	1,851.06	1,633.85	217.21	8.522	
20,923.32	10,175.00	19,170.96	8,418.00	227.38	227.44	18.260	357.09	11,561.80	1,851.06	1,633.40	217.67	8.504	
21,000.00	10,175.00	19,247.64	8,418.00	228.96	229.02	18.260	357.31	11,638.48	1,851.06	1,631.91	219.16	8.446	
21,010.90	10,175.00	19,258.54	8,418.00	229.19	229.25	18.260	357.35	11,649.38	1,851.06	1,631.70	219.37	8.438	
21,046.64	10,175.00	19,294.28	8,418.00	229.92	229.99	18.260	357.45	11,685.12	1,851.06	1,631.00	220.06	8.412	



Dixon Directional Anticollision Report

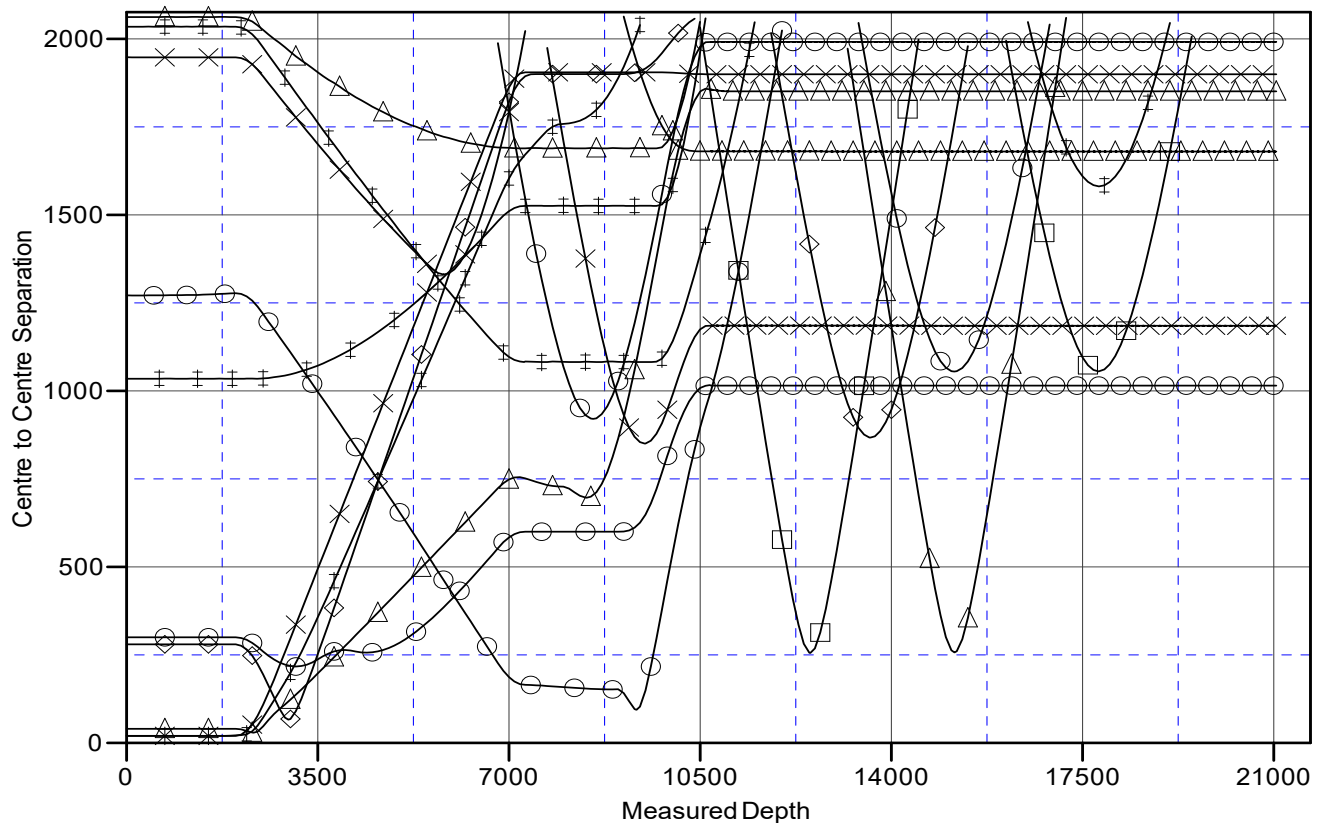


Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3714.19usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.33333334

Coordinates are relative to: (02) Bond 33-34 FED COM #304H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.297°

Ladder Plot



LEGEND

(01) Bond 32-34 FED COM 207H, 207H, Plan 2 V0	(W16) LEAR STATE SVD 003, 26703, (Inc Only) V0	(W25) PATTERSON 33 FEDERAL 001, 33411, (Depth Only) V0
(02) Bond 32-34 FED COM 211H, 211H, Plan 2 V0	(W21) VANDIVER FEDERAL 001, 26352, (Inc Only) V0	(W06) GULF FEDERAL COM 001, 25637, (Inc Only) V0
(01) Bond 32-34 FED COM 205H, 205H, Plan 2 V0	(W12) HULKSTER 005, 39572, (Inc Only) V0	(01) Bond 33-34 FED COM #308H, #308H, Plan 1 V0
(02) Bond 32-34 FED COM 301H, 301H, Plan 2 V0	(W07) GULF MCKAY FEDERAL 001, 25471, (Inc Only) V0	(04) Bond 33-34 FED COM #108H, #108H, Plan 1 V0
(03) Bond 32-34 FED COM #103H, #103H, Plan 1 V0	(W02) LEAR STATE 001H, 38865, (Gyro/MMD) V0	(03) Bond 33-34 FED COM #108H, #108H, Plan 1 V0
(W14) KEEL A FEDERAL 003, 33340, (Inc Only) V0	(W18) MCKAY WEST FEDERAL 001, 24931, (Inc Only) V0	
(W17) MAX STATE 001, 26754, (Inc Only) V0	(W05) GULF FEDERAL 002, 26310, (Inc Only) V0	

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



Dixon Directional Anticollision Report

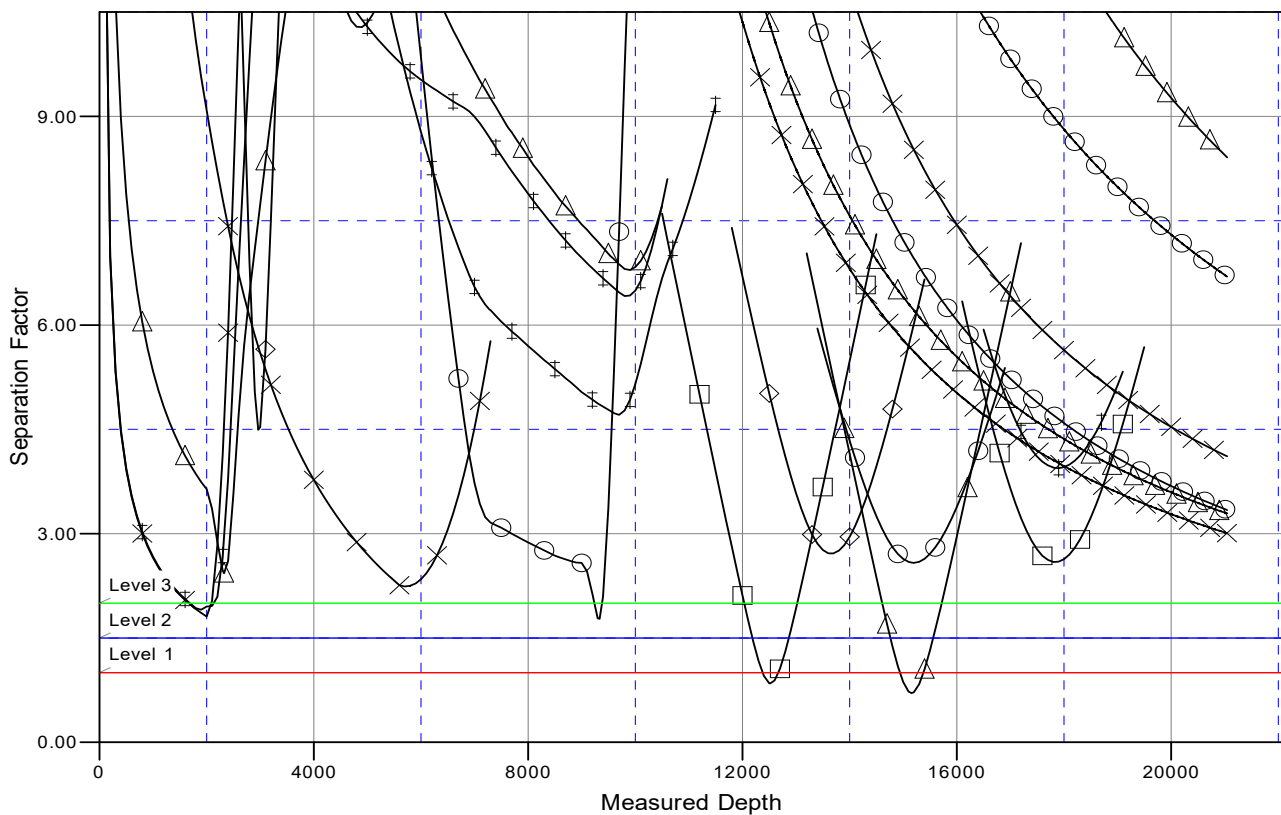


Company:	PBEX	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3714.19usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3714.19usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#304H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3714.19usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.33333334

Coordinates are relative to: (02) Bond 33-34 FED COM #304H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.297°

Separation Factor Plot



LEGEND

(01) Bond 32-34 FED COM 207H, 207H, Plan 2 V0
 (02) Bond 32-34 FED COM 211H, 211H, Plan 2 V0
 (01) Bond 32-34 FED COM 205H, 205H, Plan 2 V0
 (02) Bond 32-34 FED COM 301H, 301H, Plan 2 V0
 (03) Bond 32-34 FED COM #103H, #103H, Plan 1 V0
 (W14) KEEL A FEDERAL 003, 33340, (Inc Only) V0
 (W17) MAX STATE 001, 26754, (Inc Only) V0

(W16) LEAR STATE SVD 003, 26703, (Inc Only) V0
 (W21) VANDIVER FEDERAL 001, 26352, (Inc Only) V0
 (W12) HULKSTER 005, 39572, (Inc Only) V0
 (W07) GULF MCKAY FEDERAL 001, 25471, (Inc Only) V0
 (W02) LEAR STATE 001H, 38865, (GyroMWD) V0
 (W18) MCKAY WEST FEDERAL 001, 24931, (Inc Only) V0
 (W05) GULF FEDERAL 002, 26310, (Inc Only) V0

(W25) PATTERSON 33 FEDERAL 001, 33411, (Depth Only) V0
 (W06) GULF FEDERAL COM 001, 25637, (Inc Only) V0
 (01) Bond 33-34 FED COM #306H, #306H, Plan 1 V0
 (04) Bond 33-34 FED COM #104H, #104H, Plan 1 V0
 (03) Bond 33-34 FED COM #108H, #108H, Plan 1 V0

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



PBEX

Lea County, NM (N83 - NME)

Bond South Pad - Phase 2

(02) Bond 33-34 FED COM #304H

TBD

#304H

Plan: Plan 1

Standard Planning Report

03 December, 2025

DIXON



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Project	Lea County, NM (N83 - NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Bond South Pad - Phase 2				
Site Position:		Northing:	618,957.00	usft	Latitude:	32.70035071
From:	Map	Easting:	710,408.11	usft	Longitude:	-103.78370798
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	(02) Bond 33-34 FED COM #304H					
Well Position	+N/-S	0.00 usft	Northing:	618,976.99 usft	Latitude:	32.70040568
	+E/-W	0.00 usft	Easting:	710,405.99 usft	Longitude:	-103.78371453
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,683.69 usft
Grid Convergence:	0.297 °					

Wellbore	#304H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025	12/2/2025	6.348	60.140	47,225.54891166

Design	Plan 1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	89.83	

Plan Survey Tool Program	Date	12/3/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,046.64 Plan 1 (#304H)	MWD+IFR1	OWSG MWD + IFR1	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,456.48	13.69	37.68	2,452.14	42.97	33.19	3.00	3.00	0.00	37.682	
6,826.42	13.69	37.68	6,697.86	861.72	665.59	0.00	0.00	0.00	0.000	
7,282.89	0.00	89.83	7,150.00	904.69	698.77	3.00	-3.00	0.00	180.000	
9,734.94	0.00	89.83	9,602.04	904.69	698.77	0.00	0.00	0.00	0.000	
10,634.94	90.00	89.83	10,175.00	906.40	1,271.73	10.00	10.00	0.00	0.000	FTP/PP - (02) Bond 3
21,046.64	90.00	89.83	10,175.00	937.45	11,683.39	0.00	0.00	0.00	0.000	PBHL - (02) Bond 33-



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
2,100.00	3.00	37.68	2,099.95	2.07	1.60	1.61	3.00	3.00	0.00
2,200.00	6.00	37.68	2,199.63	8.28	6.40	6.42	3.00	3.00	0.00
2,300.00	9.00	37.68	2,298.77	18.61	14.37	14.43	3.00	3.00	0.00
2,400.00	12.00	37.68	2,397.08	33.03	25.51	25.61	3.00	3.00	0.00
2,456.48	13.69	37.68	2,452.14	42.97	33.19	33.32	3.00	3.00	0.00
Start 4369.94 hold at 2456.48 MD									
2,500.00	13.69	37.68	2,494.43	51.12	39.49	39.64	0.00	0.00	0.00
2,600.00	13.69	37.68	2,591.59	69.86	53.96	54.16	0.00	0.00	0.00
2,700.00	13.69	37.68	2,688.74	88.59	68.43	68.69	0.00	0.00	0.00
2,800.00	13.69	37.68	2,785.90	107.33	82.90	83.22	0.00	0.00	0.00
2,900.00	13.69	37.68	2,883.06	126.07	97.37	97.75	0.00	0.00	0.00
3,000.00	13.69	37.68	2,980.22	144.80	111.84	112.27	0.00	0.00	0.00
3,100.00	13.69	37.68	3,077.37	163.54	126.32	126.80	0.00	0.00	0.00
3,200.00	13.69	37.68	3,174.53	182.27	140.79	141.33	0.00	0.00	0.00
3,300.00	13.69	37.68	3,271.69	201.01	155.26	155.85	0.00	0.00	0.00
3,400.00	13.69	37.68	3,368.84	219.75	169.73	170.38	0.00	0.00	0.00
3,500.00	13.69	37.68	3,466.00	238.48	184.20	184.91	0.00	0.00	0.00
3,600.00	13.69	37.68	3,563.16	257.22	198.67	199.44	0.00	0.00	0.00
3,700.00	13.69	37.68	3,660.32	275.96	213.15	213.96	0.00	0.00	0.00
3,800.00	13.69	37.68	3,757.47	294.69	227.62	228.49	0.00	0.00	0.00
3,900.00	13.69	37.68	3,854.63	313.43	242.09	243.02	0.00	0.00	0.00
4,000.00	13.69	37.68	3,951.79	332.16	256.56	257.54	0.00	0.00	0.00
4,100.00	13.69	37.68	4,048.95	350.90	271.03	272.07	0.00	0.00	0.00
4,200.00	13.69	37.68	4,146.10	369.64	285.50	286.60	0.00	0.00	0.00
4,300.00	13.69	37.68	4,243.26	388.37	299.97	301.13	0.00	0.00	0.00
4,400.00	13.69	37.68	4,340.42	407.11	314.45	315.65	0.00	0.00	0.00
4,500.00	13.69	37.68	4,437.57	425.84	328.92	330.18	0.00	0.00	0.00
4,600.00	13.69	37.68	4,534.73	444.58	343.39	344.71	0.00	0.00	0.00
4,700.00	13.69	37.68	4,631.89	463.32	357.86	359.23	0.00	0.00	0.00
4,800.00	13.69	37.68	4,729.05	482.05	372.33	373.76	0.00	0.00	0.00
4,900.00	13.69	37.68	4,826.20	500.79	386.80	388.29	0.00	0.00	0.00



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	13.69	37.68	4,923.36	519.52	401.28	402.82	0.00	0.00	0.00
5,100.00	13.69	37.68	5,020.52	538.26	415.75	417.34	0.00	0.00	0.00
5,200.00	13.69	37.68	5,117.68	557.00	430.22	431.87	0.00	0.00	0.00
5,300.00	13.69	37.68	5,214.83	575.73	444.69	446.40	0.00	0.00	0.00
5,400.00	13.69	37.68	5,311.99	594.47	459.16	460.92	0.00	0.00	0.00
5,500.00	13.69	37.68	5,409.15	613.20	473.63	475.45	0.00	0.00	0.00
5,600.00	13.69	37.68	5,506.30	631.94	488.11	489.98	0.00	0.00	0.00
5,700.00	13.69	37.68	5,603.46	650.68	502.58	504.51	0.00	0.00	0.00
5,800.00	13.69	37.68	5,700.62	669.41	517.05	519.03	0.00	0.00	0.00
5,900.00	13.69	37.68	5,797.78	688.15	531.52	533.56	0.00	0.00	0.00
6,000.00	13.69	37.68	5,894.93	706.89	545.99	548.09	0.00	0.00	0.00
6,100.00	13.69	37.68	5,992.09	725.62	560.46	562.61	0.00	0.00	0.00
6,200.00	13.69	37.68	6,089.25	744.36	574.93	577.14	0.00	0.00	0.00
6,300.00	13.69	37.68	6,186.40	763.09	589.41	591.67	0.00	0.00	0.00
6,400.00	13.69	37.68	6,283.56	781.83	603.88	606.19	0.00	0.00	0.00
6,500.00	13.69	37.68	6,380.72	800.57	618.35	620.72	0.00	0.00	0.00
6,600.00	13.69	37.68	6,477.88	819.30	632.82	635.25	0.00	0.00	0.00
6,700.00	13.69	37.68	6,575.03	838.04	647.29	649.78	0.00	0.00	0.00
6,800.00	13.69	37.68	6,672.19	856.77	661.76	664.30	0.00	0.00	0.00
6,826.42	13.69	37.68	6,697.86	861.72	665.59	668.14	0.00	0.00	0.00
Start Drop -3.00									
6,900.00	11.49	37.68	6,769.67	874.42	675.39	677.98	3.00	-3.00	0.00
7,000.00	8.49	37.68	6,868.14	888.14	685.99	688.62	3.00	-3.00	0.00
7,100.00	5.49	37.68	6,967.39	897.77	693.43	696.09	3.00	-3.00	0.00
7,200.00	2.49	37.68	7,067.13	903.27	697.68	700.35	3.00	-3.00	0.00
7,282.89	0.00	89.83	7,150.00	904.69	698.77	701.46	3.00	-3.00	0.00
Start 2452.04 hold at 7282.89 MD									
7,300.00	0.00	0.00	7,167.11	904.69	698.77	701.46	0.00	0.00	0.00
7,400.00	0.00	0.00	7,267.11	904.69	698.77	701.46	0.00	0.00	0.00
7,500.00	0.00	0.00	7,367.11	904.69	698.77	701.46	0.00	0.00	0.00
7,600.00	0.00	0.00	7,467.11	904.69	698.77	701.46	0.00	0.00	0.00
7,700.00	0.00	0.00	7,567.11	904.69	698.77	701.46	0.00	0.00	0.00
7,800.00	0.00	0.00	7,667.11	904.69	698.77	701.46	0.00	0.00	0.00
7,900.00	0.00	0.00	7,767.11	904.69	698.77	701.46	0.00	0.00	0.00
8,000.00	0.00	0.00	7,867.11	904.69	698.77	701.46	0.00	0.00	0.00
8,100.00	0.00	0.00	7,967.11	904.69	698.77	701.46	0.00	0.00	0.00
8,200.00	0.00	0.00	8,067.11	904.69	698.77	701.46	0.00	0.00	0.00
8,300.00	0.00	0.00	8,167.11	904.69	698.77	701.46	0.00	0.00	0.00
8,400.00	0.00	0.00	8,267.11	904.69	698.77	701.46	0.00	0.00	0.00
8,500.00	0.00	0.00	8,367.11	904.69	698.77	701.46	0.00	0.00	0.00
8,600.00	0.00	0.00	8,467.11	904.69	698.77	701.46	0.00	0.00	0.00
8,700.00	0.00	0.00	8,567.11	904.69	698.77	701.46	0.00	0.00	0.00
8,800.00	0.00	0.00	8,667.11	904.69	698.77	701.46	0.00	0.00	0.00
8,900.00	0.00	0.00	8,767.11	904.69	698.77	701.46	0.00	0.00	0.00
9,000.00	0.00	0.00	8,867.11	904.69	698.77	701.46	0.00	0.00	0.00
9,100.00	0.00	0.00	8,967.11	904.69	698.77	701.46	0.00	0.00	0.00
9,200.00	0.00	0.00	9,067.11	904.69	698.77	701.46	0.00	0.00	0.00
9,300.00	0.00	0.00	9,167.11	904.69	698.77	701.46	0.00	0.00	0.00
9,400.00	0.00	0.00	9,267.11	904.69	698.77	701.46	0.00	0.00	0.00
9,500.00	0.00	0.00	9,367.11	904.69	698.77	701.46	0.00	0.00	0.00
9,600.00	0.00	0.00	9,467.11	904.69	698.77	701.46	0.00	0.00	0.00
9,700.00	0.00	0.00	9,567.11	904.69	698.77	701.46	0.00	0.00	0.00
9,734.94	0.00	0.00	9,602.04	904.69	698.77	701.46	0.00	0.00	0.00

Dixon Directional
Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start Build 10.00									
9,750.00	1.51	89.83	9,617.10	904.69	698.97	701.65	10.00	10.00	0.00
9,800.00	6.51	89.83	9,666.97	904.70	702.47	705.15	10.00	10.00	0.00
9,850.00	11.51	89.83	9,716.33	904.73	710.29	712.97	10.00	10.00	0.00
9,900.00	16.51	89.83	9,764.83	904.76	722.39	725.07	10.00	10.00	0.00
9,950.00	21.51	89.83	9,812.09	904.81	738.67	741.35	10.00	10.00	0.00
10,000.00	26.51	89.83	9,857.75	904.87	759.00	761.68	10.00	10.00	0.00
10,050.00	31.51	89.83	9,901.47	904.94	783.24	785.92	10.00	10.00	0.00
10,100.00	36.51	89.83	9,942.90	905.03	811.19	813.88	10.00	10.00	0.00
10,150.00	41.51	89.83	9,981.74	905.12	842.65	845.34	10.00	10.00	0.00
10,200.00	46.51	89.83	10,017.70	905.22	877.38	880.06	10.00	10.00	0.00
10,250.00	51.51	89.83	10,050.48	905.34	915.11	917.79	10.00	10.00	0.00
10,300.00	56.51	89.83	10,079.86	905.46	955.55	958.23	10.00	10.00	0.00
10,350.00	61.51	89.83	10,105.60	905.58	998.40	1,001.08	10.00	10.00	0.00
10,400.00	66.51	89.83	10,127.50	905.72	1,043.32	1,046.01	10.00	10.00	0.00
10,450.00	71.51	89.83	10,145.41	905.86	1,089.99	1,092.67	10.00	10.00	0.00
10,500.00	76.51	89.83	10,159.18	906.00	1,138.04	1,140.72	10.00	10.00	0.00
10,550.00	81.51	89.83	10,168.72	906.15	1,187.11	1,189.79	10.00	10.00	0.00
10,600.00	86.51	89.83	10,173.94	906.30	1,236.82	1,239.50	10.00	10.00	0.00
10,634.94	90.00	89.83	10,175.00	906.40	1,271.73	1,274.41	10.00	10.00	0.00
Start 10411.71 hold at 10634.94 MD									
10,700.00	90.00	89.83	10,175.00	906.59	1,336.79	1,339.48	0.00	0.00	0.00
10,800.00	90.00	89.83	10,175.00	906.89	1,436.79	1,439.48	0.00	0.00	0.00
10,900.00	90.00	89.83	10,175.00	907.19	1,536.79	1,539.48	0.00	0.00	0.00
11,000.00	90.00	89.83	10,175.00	907.49	1,636.79	1,639.48	0.00	0.00	0.00
11,100.00	90.00	89.83	10,175.00	907.79	1,736.79	1,739.48	0.00	0.00	0.00
11,200.00	90.00	89.83	10,175.00	908.09	1,836.79	1,839.48	0.00	0.00	0.00
11,300.00	90.00	89.83	10,175.00	908.38	1,936.79	1,939.48	0.00	0.00	0.00
11,400.00	90.00	89.83	10,175.00	908.68	2,036.79	2,039.48	0.00	0.00	0.00
11,500.00	90.00	89.83	10,175.00	908.98	2,136.79	2,139.48	0.00	0.00	0.00
11,600.00	90.00	89.83	10,175.00	909.28	2,236.79	2,239.48	0.00	0.00	0.00
11,700.00	90.00	89.83	10,175.00	909.58	2,336.79	2,339.48	0.00	0.00	0.00
11,800.00	90.00	89.83	10,175.00	909.87	2,436.79	2,439.48	0.00	0.00	0.00
11,900.00	90.00	89.83	10,175.00	910.17	2,536.79	2,539.48	0.00	0.00	0.00
12,000.00	90.00	89.83	10,175.00	910.47	2,636.79	2,639.48	0.00	0.00	0.00
12,100.00	90.00	89.83	10,175.00	910.77	2,736.79	2,739.48	0.00	0.00	0.00
12,200.00	90.00	89.83	10,175.00	911.07	2,836.79	2,839.48	0.00	0.00	0.00
12,300.00	90.00	89.83	10,175.00	911.37	2,936.79	2,939.48	0.00	0.00	0.00
12,400.00	90.00	89.83	10,175.00	911.66	3,036.79	3,039.48	0.00	0.00	0.00
12,500.00	90.00	89.83	10,175.00	911.96	3,136.79	3,139.48	0.00	0.00	0.00
12,600.00	90.00	89.83	10,175.00	912.26	3,236.79	3,239.48	0.00	0.00	0.00
12,700.00	90.00	89.83	10,175.00	912.56	3,336.78	3,339.48	0.00	0.00	0.00
12,800.00	90.00	89.83	10,175.00	912.86	3,436.78	3,439.48	0.00	0.00	0.00
12,900.00	90.00	89.83	10,175.00	913.15	3,536.78	3,539.48	0.00	0.00	0.00
13,000.00	90.00	89.83	10,175.00	913.45	3,636.78	3,639.48	0.00	0.00	0.00
13,100.00	90.00	89.83	10,175.00	913.75	3,736.78	3,739.48	0.00	0.00	0.00
13,200.00	90.00	89.83	10,175.00	914.05	3,836.78	3,839.48	0.00	0.00	0.00
13,300.00	90.00	89.83	10,175.00	914.35	3,936.78	3,939.48	0.00	0.00	0.00
13,400.00	90.00	89.83	10,175.00	914.65	4,036.78	4,039.48	0.00	0.00	0.00
13,500.00	90.00	89.83	10,175.00	914.94	4,136.78	4,139.48	0.00	0.00	0.00
13,600.00	90.00	89.83	10,175.00	915.24	4,236.78	4,239.48	0.00	0.00	0.00
13,700.00	90.00	89.83	10,175.00	915.54	4,336.78	4,339.48	0.00	0.00	0.00
13,800.00	90.00	89.83	10,175.00	915.84	4,436.78	4,439.48	0.00	0.00	0.00
13,900.00	90.00	89.83	10,175.00	916.14	4,536.78	4,539.48	0.00	0.00	0.00

Dixon Directional
Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,000.00	90.00	89.83	10,175.00	916.44	4,636.78	4,639.48	0.00	0.00	0.00	
14,100.00	90.00	89.83	10,175.00	916.73	4,736.78	4,739.48	0.00	0.00	0.00	
14,200.00	90.00	89.83	10,175.00	917.03	4,836.78	4,839.48	0.00	0.00	0.00	
14,300.00	90.00	89.83	10,175.00	917.33	4,936.78	4,939.48	0.00	0.00	0.00	
14,400.00	90.00	89.83	10,175.00	917.63	5,036.78	5,039.48	0.00	0.00	0.00	
14,500.00	90.00	89.83	10,175.00	917.93	5,136.78	5,139.48	0.00	0.00	0.00	
14,600.00	90.00	89.83	10,175.00	918.22	5,236.78	5,239.48	0.00	0.00	0.00	
14,700.00	90.00	89.83	10,175.00	918.52	5,336.78	5,339.48	0.00	0.00	0.00	
14,800.00	90.00	89.83	10,175.00	918.82	5,436.78	5,439.48	0.00	0.00	0.00	
14,900.00	90.00	89.83	10,175.00	919.12	5,536.78	5,539.48	0.00	0.00	0.00	
15,000.00	90.00	89.83	10,175.00	919.42	5,636.77	5,639.48	0.00	0.00	0.00	
15,100.00	90.00	89.83	10,175.00	919.72	5,736.77	5,739.48	0.00	0.00	0.00	
15,200.00	90.00	89.83	10,175.00	920.01	5,836.77	5,839.48	0.00	0.00	0.00	
15,300.00	90.00	89.83	10,175.00	920.31	5,936.77	5,939.48	0.00	0.00	0.00	
15,400.00	90.00	89.83	10,175.00	920.61	6,036.77	6,039.48	0.00	0.00	0.00	
15,500.00	90.00	89.83	10,175.00	920.91	6,136.77	6,139.48	0.00	0.00	0.00	
15,600.00	90.00	89.83	10,175.00	921.21	6,236.77	6,239.48	0.00	0.00	0.00	
15,700.00	90.00	89.83	10,175.00	921.51	6,336.77	6,339.48	0.00	0.00	0.00	
15,800.00	90.00	89.83	10,175.00	921.80	6,436.77	6,439.48	0.00	0.00	0.00	
15,900.00	90.00	89.83	10,175.00	922.10	6,536.77	6,539.48	0.00	0.00	0.00	
16,000.00	90.00	89.83	10,175.00	922.40	6,636.77	6,639.48	0.00	0.00	0.00	
16,100.00	90.00	89.83	10,175.00	922.70	6,736.77	6,739.48	0.00	0.00	0.00	
16,200.00	90.00	89.83	10,175.00	923.00	6,836.77	6,839.48	0.00	0.00	0.00	
16,300.00	90.00	89.83	10,175.00	923.29	6,936.77	6,939.48	0.00	0.00	0.00	
16,400.00	90.00	89.83	10,175.00	923.59	7,036.77	7,039.48	0.00	0.00	0.00	
16,500.00	90.00	89.83	10,175.00	923.89	7,136.77	7,139.48	0.00	0.00	0.00	
16,600.00	90.00	89.83	10,175.00	924.19	7,236.77	7,239.48	0.00	0.00	0.00	
16,700.00	90.00	89.83	10,175.00	924.49	7,336.77	7,339.48	0.00	0.00	0.00	
16,800.00	90.00	89.83	10,175.00	924.79	7,436.77	7,439.48	0.00	0.00	0.00	
16,900.00	90.00	89.83	10,175.00	925.08	7,536.77	7,539.48	0.00	0.00	0.00	
17,000.00	90.00	89.83	10,175.00	925.38	7,636.77	7,639.48	0.00	0.00	0.00	
17,100.00	90.00	89.83	10,175.00	925.68	7,736.77	7,739.48	0.00	0.00	0.00	
17,200.00	90.00	89.83	10,175.00	925.98	7,836.77	7,839.48	0.00	0.00	0.00	
17,300.00	90.00	89.83	10,175.00	926.28	7,936.76	7,939.48	0.00	0.00	0.00	
17,400.00	90.00	89.83	10,175.00	926.57	8,036.76	8,039.48	0.00	0.00	0.00	
17,500.00	90.00	89.83	10,175.00	926.87	8,136.76	8,139.48	0.00	0.00	0.00	
17,600.00	90.00	89.83	10,175.00	927.17	8,236.76	8,239.48	0.00	0.00	0.00	
17,700.00	90.00	89.83	10,175.00	927.47	8,336.76	8,339.48	0.00	0.00	0.00	
17,800.00	90.00	89.83	10,175.00	927.77	8,436.76	8,439.48	0.00	0.00	0.00	
17,900.00	90.00	89.83	10,175.00	928.07	8,536.76	8,539.48	0.00	0.00	0.00	
18,000.00	90.00	89.83	10,175.00	928.36	8,636.76	8,639.48	0.00	0.00	0.00	
18,100.00	90.00	89.83	10,175.00	928.66	8,736.76	8,739.48	0.00	0.00	0.00	
18,200.00	90.00	89.83	10,175.00	928.96	8,836.76	8,839.48	0.00	0.00	0.00	
18,300.00	90.00	89.83	10,175.00	929.26	8,936.76	8,939.48	0.00	0.00	0.00	
18,400.00	90.00	89.83	10,175.00	929.56	9,036.76	9,039.48	0.00	0.00	0.00	
18,500.00	90.00	89.83	10,175.00	929.86	9,136.76	9,139.48	0.00	0.00	0.00	
18,600.00	90.00	89.83	10,175.00	930.15	9,236.76	9,239.48	0.00	0.00	0.00	
18,700.00	90.00	89.83	10,175.00	930.45	9,336.76	9,339.48	0.00	0.00	0.00	
18,800.00	90.00	89.83	10,175.00	930.75	9,436.76	9,439.48	0.00	0.00	0.00	
18,900.00	90.00	89.83	10,175.00	931.05	9,536.76	9,539.48	0.00	0.00	0.00	
19,000.00	90.00	89.83	10,175.00	931.35	9,636.76	9,639.48	0.00	0.00	0.00	
19,100.00	90.00	89.83	10,175.00	931.64	9,736.76	9,739.48	0.00	0.00	0.00	
19,200.00	90.00	89.83	10,175.00	931.94	9,836.76	9,839.48	0.00	0.00	0.00	
19,300.00	90.00	89.83	10,175.00	932.24	9,936.76	9,939.48	0.00	0.00	0.00	



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (02) Bond 33-34 FED COM #304H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3714.19usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3714.19usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(02) Bond 33-34 FED COM #304H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#304H		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,400.00	90.00	89.83	10,175.00	932.54	10,036.76	10,039.48	0.00	0.00	0.00	
19,500.00	90.00	89.83	10,175.00	932.84	10,136.75	10,139.48	0.00	0.00	0.00	
19,600.00	90.00	89.83	10,175.00	933.14	10,236.75	10,239.48	0.00	0.00	0.00	
19,700.00	90.00	89.83	10,175.00	933.43	10,336.75	10,339.48	0.00	0.00	0.00	
19,800.00	90.00	89.83	10,175.00	933.73	10,436.75	10,439.48	0.00	0.00	0.00	
19,900.00	90.00	89.83	10,175.00	934.03	10,536.75	10,539.48	0.00	0.00	0.00	
20,000.00	90.00	89.83	10,175.00	934.33	10,636.75	10,639.48	0.00	0.00	0.00	
20,100.00	90.00	89.83	10,175.00	934.63	10,736.75	10,739.48	0.00	0.00	0.00	
20,200.00	90.00	89.83	10,175.00	934.93	10,836.75	10,839.48	0.00	0.00	0.00	
20,300.00	90.00	89.83	10,175.00	935.22	10,936.75	10,939.48	0.00	0.00	0.00	
20,400.00	90.00	89.83	10,175.00	935.52	11,036.75	11,039.48	0.00	0.00	0.00	
20,500.00	90.00	89.83	10,175.00	935.82	11,136.75	11,139.48	0.00	0.00	0.00	
20,600.00	90.00	89.83	10,175.00	936.12	11,236.75	11,239.48	0.00	0.00	0.00	
20,700.00	90.00	89.83	10,175.00	936.42	11,336.75	11,339.48	0.00	0.00	0.00	
20,800.00	90.00	89.83	10,175.00	936.71	11,436.75	11,439.48	0.00	0.00	0.00	
20,900.00	90.00	89.83	10,175.00	937.01	11,536.75	11,539.48	0.00	0.00	0.00	
21,000.00	90.00	89.83	10,175.00	937.31	11,636.75	11,639.48	0.00	0.00	0.00	
21,046.64	90.00	89.83	10,175.00	937.45	11,683.39	11,686.12	0.00	0.00	0.00	
TD at 21046.64										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP - (02) Bond 33-34 F - hit/miss target - Shape - Point	0.00	0.00	10,175.00	937.27	11,633.39	619,914.26	722,039.38	32.70281041	-103.74588074	
- plan misses target center by 0.03usft at 20996.64usft MD (10175.00 TVD, 937.30 N, 11633.39 E)										
PBHL - (02) Bond 33-34 - plan hits target center - Point	0.00	0.00	10,175.00	937.45	11,683.39	619,914.44	722,089.38	32.70281014	-103.74571819	
FTP/PP - (02) Bond 33-34 - plan hits target center - Point	0.00	0.00	10,175.00	906.40	1,271.73	619,883.39	711,677.72	32.70287880	-103.77956509	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.00	2,000.00	0.00	0.00	Start Build 3.00	
2,456.48	2,452.14	42.97	33.19	Start 4369.94 hold at 2456.48 MD	
6,826.42	6,697.86	861.72	665.59	Start Drop -3.00	
7,282.89	7,150.00	904.69	698.77	Start 2452.04 hold at 7282.89 MD	
9,734.94	9,602.04	904.69	698.77	Start Build 10.00	
10,634.94	10,175.00	906.40	1,271.73	Start 10411.71 hold at 10634.94 MD	
21,046.64	10,175.00	937.45	11,683.39	TD at 21046.64	

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 544834

ACKNOWLEDGMENTS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 544834
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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

CONDITIONS

Action 544834

CONDITIONS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 544834
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mikahthomas	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/20/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	1/21/2026
matthew.gomez	All conducted logs must be submitted to the OCD.	1/21/2026
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	1/21/2026
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	1/21/2026
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/21/2026
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/21/2026
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/21/2026