

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		9. API Well No. 30-025-55824
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
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 an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Operator Remarks

Location of Well

0. SHL: NESE / 1348 FSL / 1180 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.70046 / LONG: -103.783725 (TVD: 0 feet, MD: 0 feet)
PPP: NESW / 2178 FSL / 1319 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7026934 / LONG: -103.758441 (TVD: 8450 feet, MD: 15395 feet)
PPP: NWSE / 2183 FSL / 2634 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7027196 / LONG: -103.7713272 (TVD: 8450 feet, MD: 11431 feet)
PPP: NESW / 2180 FSL / 1318 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702728 / LONG: -103.7756066 (TVD: 8450 feet, MD: 10114 feet)
PPP: NWSW / 2178 FSL / 100 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702733 / LONG: -103.779565 (TVD: 8450 feet, MD: 8906 feet)
PPP: NWSW / 2178 FSL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7027023 / LONG: -103.7627298 (TVD: 8450 feet, MD: 14075 feet)
BHL: NESE / 2178 FSL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.702666 / LONG: -103.745588 (TVD: 8450 feet, MD: 19348 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 101H
ATS/API ID:	ATS-25-1256
APD ID:	10400103826
Sundry ID:	N/a

WELL NAME & NO.:	Bond 32-34 Fed Com 102H
ATS/API ID:	ATS-25-1255
APD ID:	10400103829
Sundry ID:	N/a

WELL NAME & NO.:	Bond 32-34 Fed Com 103H
ATS/API ID:	ATS-25-1250
APD ID:	10400103891
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 104H
ATS/API ID:	ATS-25-1248
APD ID:	10400103895
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 105H
ATS/API ID:	ATS-25-1246
APD ID:	10400103903
Sundry ID:	N/a

WELL NAME & NO.:	Bond 33-34 Fed Com 106H
ATS/API ID:	ATS-25-1240
APD ID:	10400103914
Sundry ID:	N/a

WELL NAME & NO.:	Bond 32-34 Fed Com 1H
ATS/API ID:	ATS-25-1254
APD ID:	10400103708
Sundry ID:	N/a

WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 32-34 Fed Com 201H ATS-25-1257 10400103830 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 32-34 Fed Com 203H ATS-25-1258 10400103831 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 33-34 Fed Com 207H ATS-25-1244 10400103899 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 33-34 Fed Com 211H ATS-25-1239 10400103917 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 32-34 Fed Com 2H ATS-25-1253 10400103818 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 32-34 Fed Com 3H ATS-25-1252 10400103869 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 33-34 Fed Com 4H ATS-25-1249 10400103892 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 33-34 Fed Com 5H ATS-25-1247 10400103901 N/a
WELL NAME & NO.: ATS/API ID: APD ID: Sundry ID:	Bond 33-34 Fed Com 6H ATS-25-1245 10400103916 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.
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.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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) 4/11/2025



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: 10400103895

Submission Date: 03/17/2025

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

Well Type: OIL WELL

Well Work Type: Drill

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

Section 1 - General

APD ID: 10400103895

Tie to previous NOS? N

Submission Date: 03/17/2025

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: 104H

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:** 104H**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:** 1180 FT**Reservoir well spacing assigned acres Measurement:** 640 Acres**Well plat:** 24_041778_BOND_FED_COM_104H_C102_20250402085639.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	1348	FSL	1180	FEL	18S	32E	32	Aliquot NESE	32.70046	-103.783725	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3684			N
KOP Leg #1	1348	FSL	1180	FEL	18S	32E	32	Aliquot NESE	32.70046	-103.783725	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-4066	7810	7750	N
PPP Leg #1-1	2178	FSL	100	FWL	18S	32E	33	Aliquot NWSW	32.702733	-103.779565	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 26690	-4766	8906	8450	Y

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 104H

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	2180	FSL	1318	FWL	18S	32E	33	Aliquot NESW	32.702728	- 103.7756066	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 25877	- 4766	10114	8450	Y
PPP Leg #1-3	2183	FSL	2634	FWL	18S	32E	33	Aliquot NWSE	32.7027196	- 103.7713272	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 24161	- 4766	11431	8450	Y
PPP Leg #1-4	2178	FSL	0	FWL	18S	32E	34	Aliquot NWSW	32.7027023	- 103.7627298	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 96235	- 4766	14075	8450	Y
PPP Leg #1-5	2178	FSL	1319	FWL	18S	32E	34	Aliquot NESW	32.7026934	- 103.758441	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4766	15395	8450	Y
EXIT Leg #1	2178	FSL	100	FEL	18S	32E	34	Aliquot NESE	32.702667	- 103.745881	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4766	19258	8450	Y
BHL Leg #1	2178	FSL	10	FEL	18S	32E	34	Aliquot NESE	32.702666	- 103.745588	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4766	19348	8450	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 104H
OGRID No. 332544	Operator Name PBEX Operations, LLC	Ground Level/Elevation 3,683.92'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,348' FSL	1,180' FEL	32.700460°	-103.783725°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		2,178' FSL	10' FEL	32.702666°	-103.745588°	LEA

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	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,348' FSL	1,180' FEL	32.700460°	-103.783725°	LEA

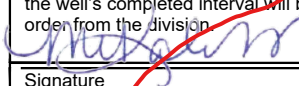
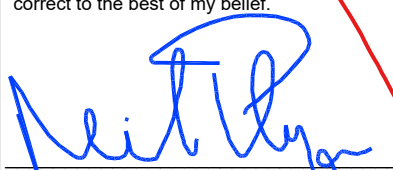
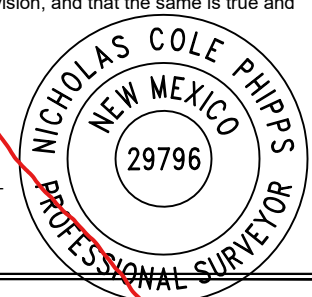
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	33	18S	32E		2,178' FSL	100' FWL	32.702733°	-103.779565°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		2,178' FSL	100' FEL	32.702667°	-103.745881°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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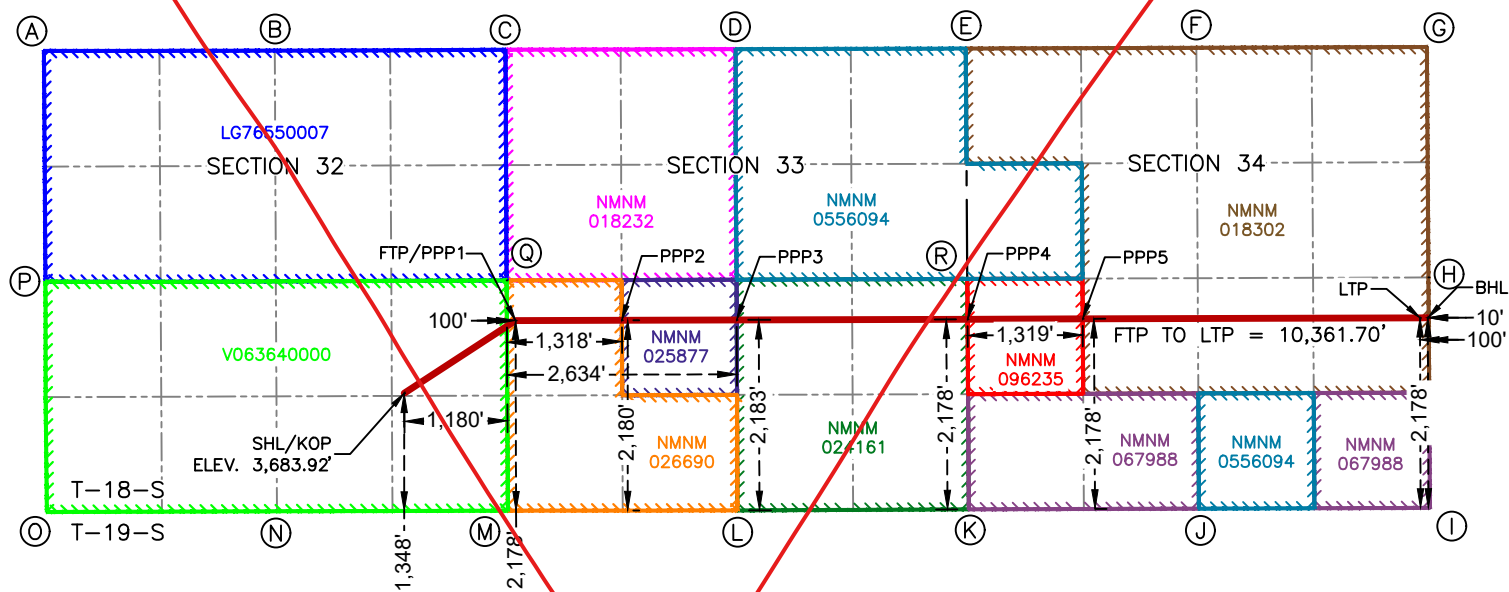
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.



11-14-24

**SURFACE HOLE LOCATION
& KICK-OFF POINT**
1,348' FSL & 1,180' FEL
ELEV. = 3,683.92'

NAD 83 X = 710,402.51'
NAD 83 Y = 618,996.82'
NAD 83 LAT = 32.700460°
NAD 83 LONG = -103.783725°

**FIRST TAKE POINT &
PENETRATION POINT 1**
2,178' FSL & 100' FWL

NAD 83 X = 711,678.03'
NAD 83 Y = 619,830.26'
NAD 83 LAT = 32.702733°
NAD 83 LONG = -103.779565°

PENETRATION POINT 2
2,180' FSL & 1,318' FWL

NAD 83 X = 712,895.66'
NAD 83 Y = 619,833.81'
NAD 83 LAT = 32.702725°
NAD 83 LONG = -103.775607°

PENETRATION POINT 3
2,183' FSL & 2,634' FWL

NAD 83 X = 714,212.07'
NAD 83 Y = 619,837.65'
NAD 83 LAT = 32.702716°
NAD 83 LONG = -103.771327°

PENETRATION POINT 4
2,178' FSL & 0' FWL

NAD 83 X = 716,856.71'
NAD 83 Y = 619,845.37'
NAD 83 LAT = 32.702699°
NAD 83 LONG = -103.762730°

PENETRATION POINT 5
2,178' FSL & 1,319' FWL

NAD 83 X = 718,175.98'
NAD 83 Y = 619,849.59'
NAD 83 LAT = 32.702691°
NAD 83 LONG = -103.758441°

LAST TAKE POINT
2,178' FSL & 100' FEL

NAD 83 X = 722,039.73'
NAD 83 Y = 619,861.95'
NAD 83 LAT = 32.702667°
NAD 83 LONG = -103.745881°

BOTTOM HOLE LOCATION
2,178' FSL & 10' FEL

NAD 83 X = 722,129.73'
NAD 83 Y = 619,862.24'
NAD 83 LAT = 32.702666°
NAD 83 LONG = -103.745588°

**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'



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

Drilling Plan Data Report

11/30/2025

APD ID: 10400103895

Submission Date: 03/17/2025

Highlighted data
reflects the most
recent changes

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

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
16452978	QUATERNARY	3683	0	0	ALLUVIUM	NONE	N
16452980	RUSTLER	2533	1150	1150	ANHYDRITE, LIMESTONE, SALT	NONE	N
16452981	TOP OF SALT	2253	1430	1430	ANHYDRITE, SALT	NONE	N
16452982	BASE OF SALT	1508	2175	2185	ANHYDRITE, SALT	NONE	N
16452997	YATES	811	2872	2872	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16452998	SEVEN RIVERS	488	3195	3215	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16452999	QUEEN	-92	3775	3805	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16453001	SAN ANDRES	-582	4265	4295	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16452986	CHERRY CANYON	-932	4615	4655	LIMESTONE, SANDSTONE, SHALE	NONE	N
16452987	BRUSHY CANYON	-1362	5045	5085	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16452988	BONE SPRING LIME	-3286	6969	6999	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16452989	AVALON SAND	-3507	7190	7230	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453002	BONE SPRING 1ST	-4637	8320	8370	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16453003	BONE SPRING 2ND	-4942	8625	8685	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453004	BONE SPRING 2ND	-5207	8890	8950	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453005	BONE SPRING 3RD	-5747	9430	9500	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16453006	BONE SPRING 3RD	-6152	9835	9915	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16453007	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 BOPE 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. The annular will only be tested to 3,500 psi for 5M systems. All BOP equipment and auxiliary equipment (Kelly Cocks, Floor Safety Valves, & IBOP) will be compliant with CFR 3172.6 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

BOP Diagram Attachment:

5M_BOP_EGL_20241218135409.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	3684	2374	1310	J-55	54.5	BUTT	1.125	1.125	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4000	0	3970	3643	-286	4000	J-55	40	BUTT	1.125	1.125	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	12.25	9.625	NEW	API	N	4000	4535	3970	4505	-284	-821	535	HCL-80	40	BUTT	1.125	1.125	BUOY	1.6	BUOY	1.6

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

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
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19348	0	8450	3643	-4766	19348	P- 110	17	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_20250303080528.pdf
- Casing_Design_Assmpt_3_string_casing_20250303080549.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- Data_Sheet_9.625_Inch_40.00__J55_BTC_SEAH_20250303080603.pdf
- Casing_Design_Assmpt_3_string_casing_20250303080609.pdf

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

Casing Attachments

Casing ID: 3

String

INTERMEDIATE

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

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5in_P110_EC_Casing_Spec_20250303080901.pdf

Casing_Design_Assmpt_3_string_casing_20250303080933.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	3785	804	2.65	10.5	2129.5	100	C or H	Fluid Loss, Retarder, LCM, Possibly beads

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 104H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3785	4535	240	1.33	13.2	319.2	100	C or H	Fluid Loss, Retarder, LCM
PRODUCTION	Lead		4035	7820	275	4.3	10.5	1184.4	20	H	Fluid Loss, Retarder, LCM
PRODUCTION	Tail		7820	19348	2158	1.68	13	3625	20	H	Fluid Loss, Retarder, LCM

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	4535	SALT SATURATED	10.2	10.2							
4535	19348	OIL-BASED MUD	9.7	9.7							

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 33-34 FED COM**Well Number:** 104H

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.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5493**Anticipated Surface Pressure:** 3633**Anticipated Bottom Hole Temperature(F):** 215**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__104H__Plan_1__20250303085027.pdf

BOND_33_34_FED_COM__104H__Plan_1_AC_Report_20250303085033.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

Bond_33_34_FED_COM__104H_Drill_Plan_v4_20250303085100.pdf

PBEX_NM_Curve_volumes_1BSS_20250303085114.pdf

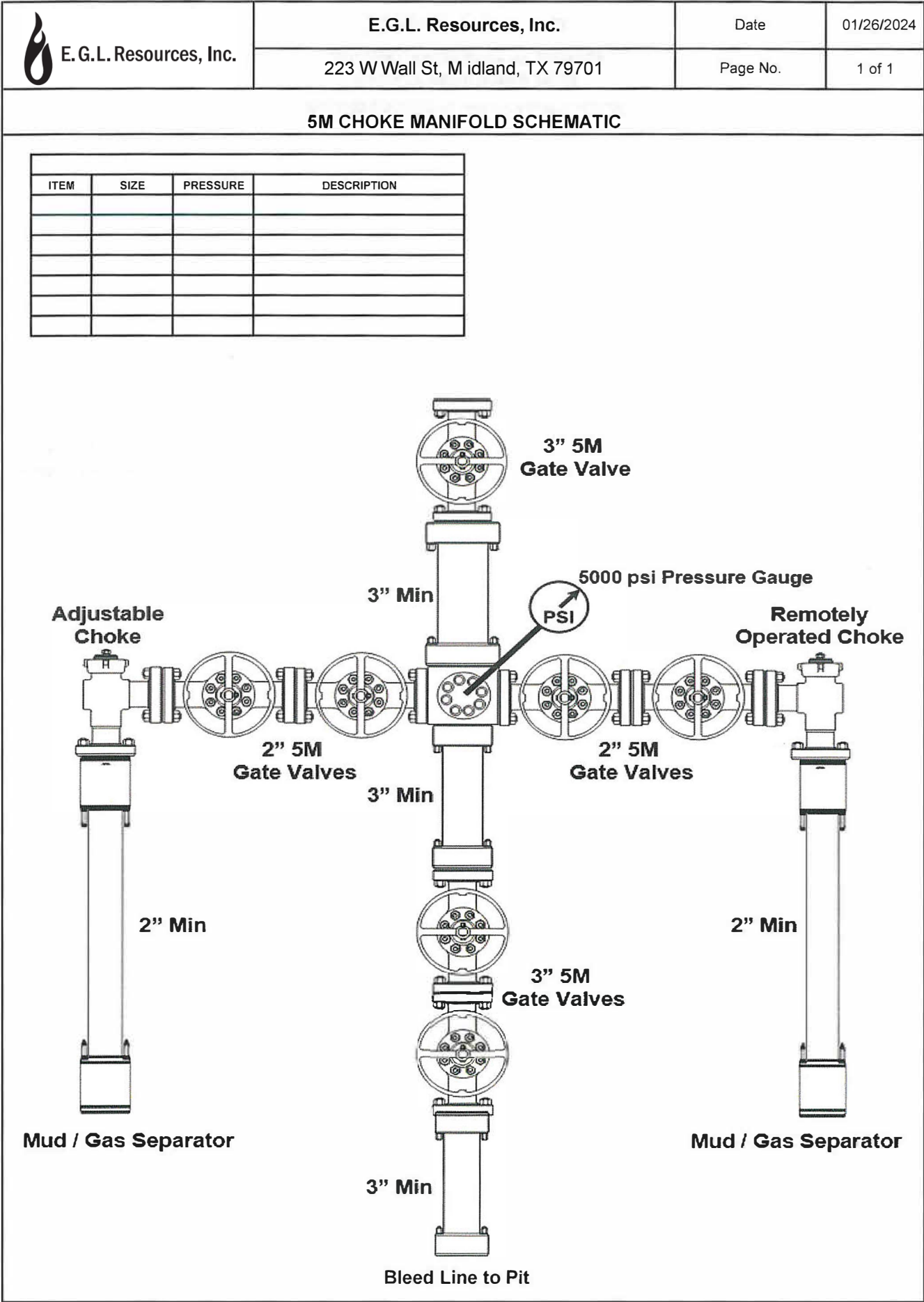
Other Variance request(s)?: N**Other Variance attachment:**

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 33-34 FED COM

Well Number: 104H

CONFIDENTIAL





E. G. L. Resources, Inc.

E.G.L. Resources, Inc.

Date

1/26/2024

223 W Wall St, Midland, TX 79701

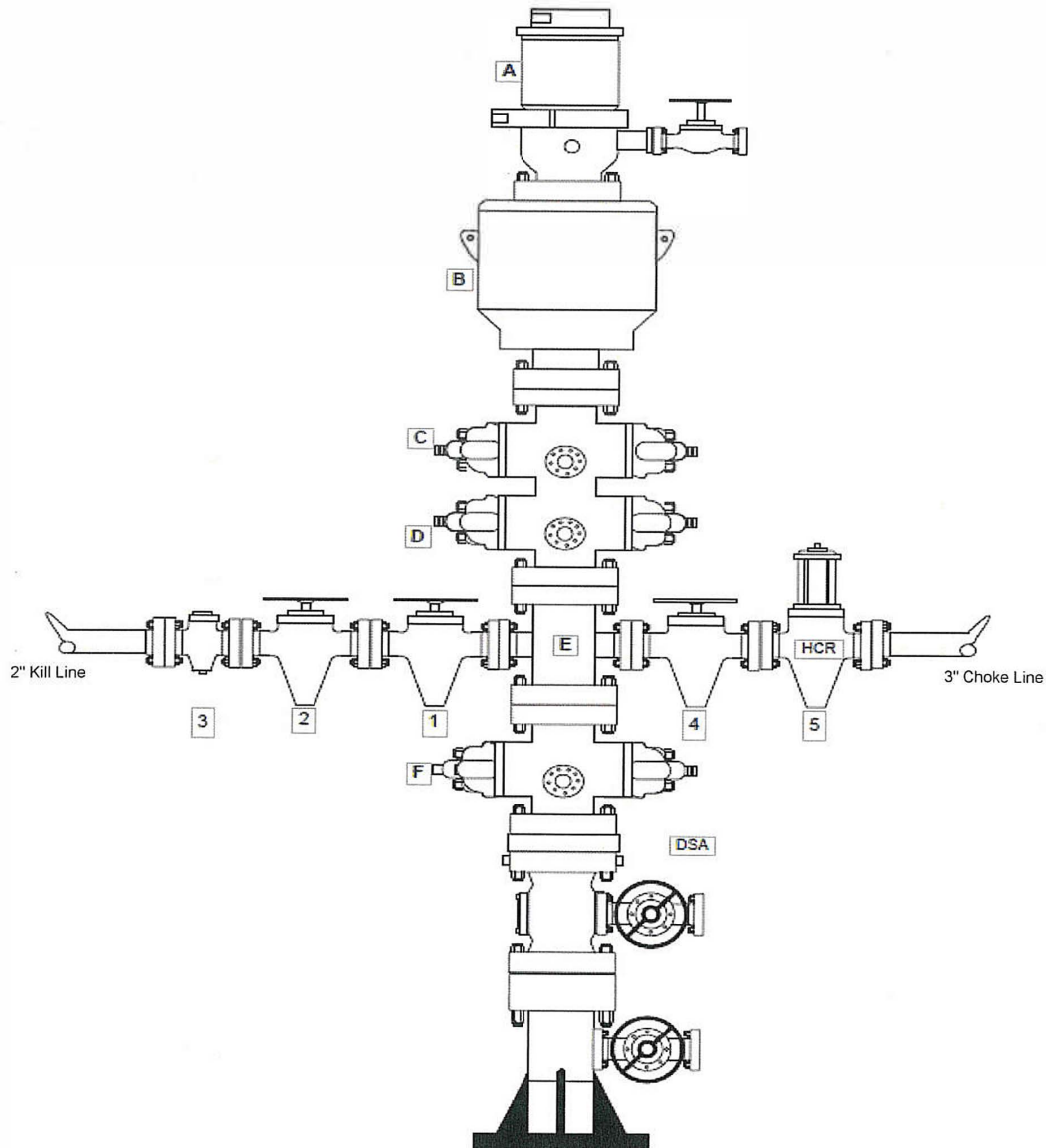
Page No.

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



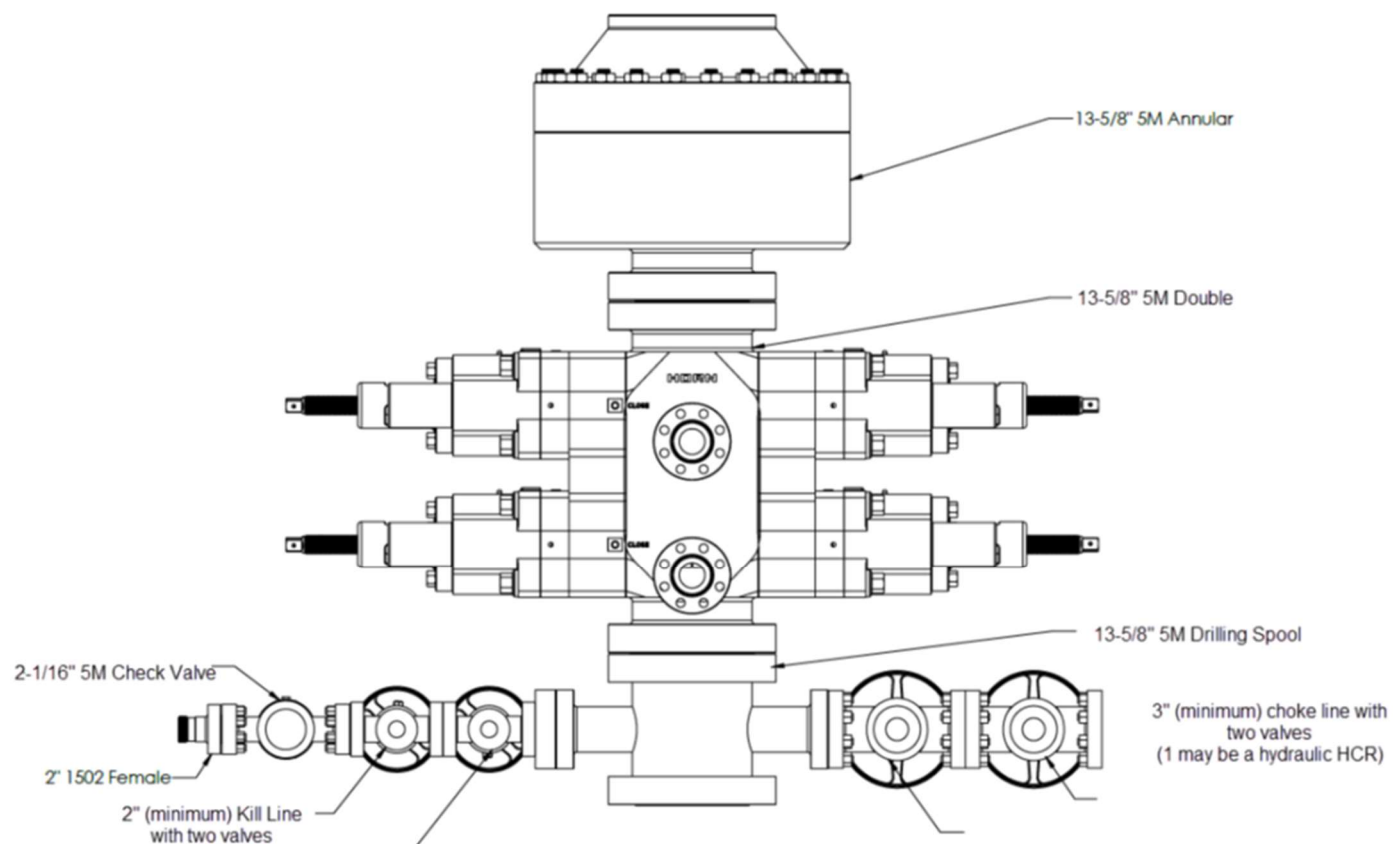
KILL LINE

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

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

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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	--

UNCONTROLLED

Notes

Legal Notice

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

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



9.625" 40# .395" J-55

Dimensions (Nominal)

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.

Performance Properties

Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
BTC	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.
BTC	714	1000 lbs.

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

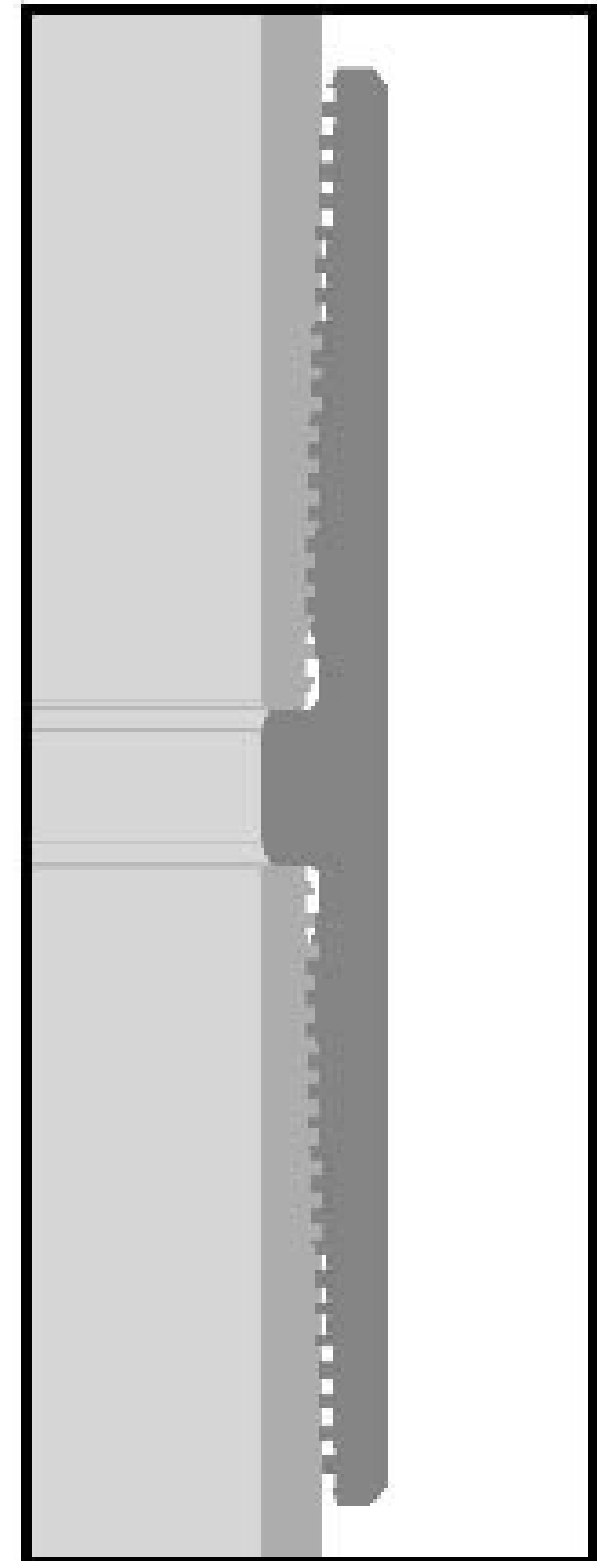
Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C-IS PLUS Casing standard	5-1/2 in	20.00 lb/ft (0.361 in)	VST P110 EC

VST P110 EC	Material
125,000	Grade
135,000	Minimum Yield Strength (psi)
	Minimum Ultimate Strength (psi)
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.778	Nominal Pipe Body I.D.(in)
0.361	Nominal Wall Thickness (in)
20.00	Nominal Weight (lbs/ft)
19.83	Plain End Weight (lbs/ft)
5.828	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs)
12,090	Minimum Collapse Pressure (psi)
14,360	Minimum Internal Yield Pressure (psi)
13,100	Hydrostatic Test Pressure (psi)
	Connection Dimensions
6.300	Connection O.D. (in)
4.778	Connection I.D. (in)
4.653	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
5.828	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
729,000	Joint Strength (lbs)
26,040	Reference String Length (ft) 1.4 Design Factor
728,000	API Joint Strength (lbs)
729,000	Compression Rating (lbs)
12,090	API Collapse Pressure Rating (psi)
14,360	API Internal Pressure Resistance (psi)
104.2	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Appoximated Field End Torque Values
16,600	Minimum Final Torque (ft-lbs)
19,100	Maximum Final Torque (ft-lbs)
21,600	Connection Yield Torque (ft-lbs)



VAM USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

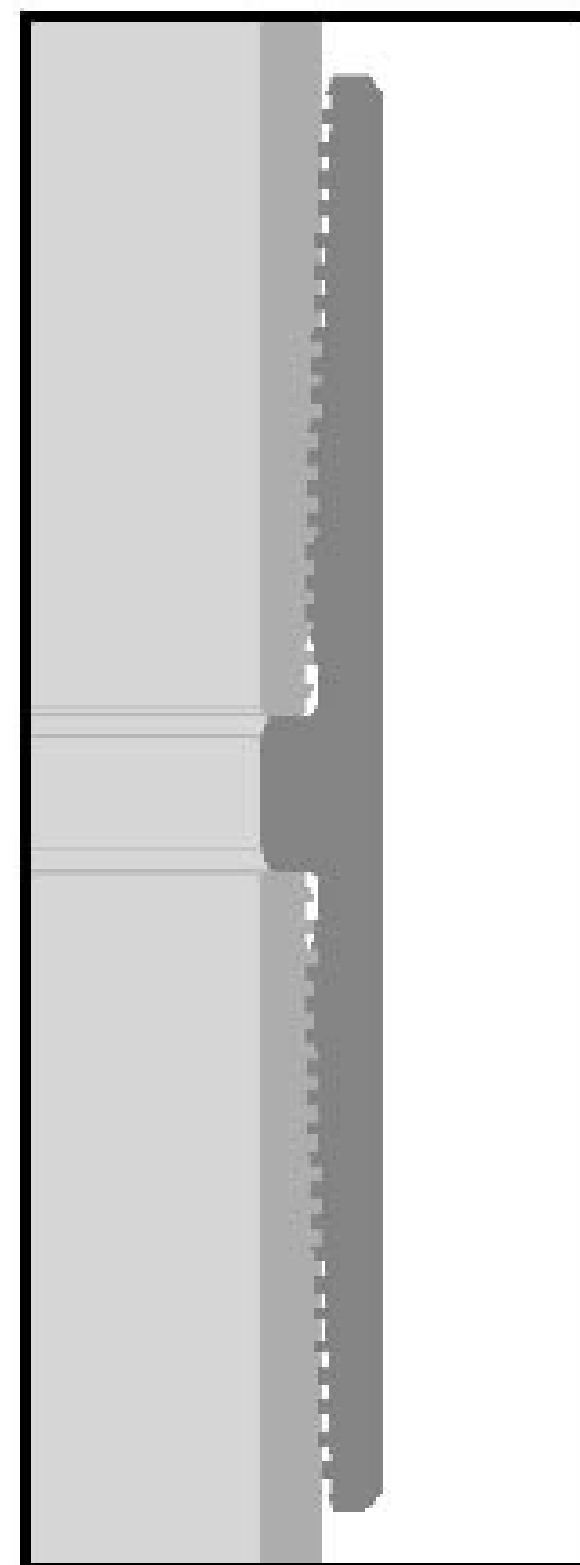
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2/6/2015



DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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2/6/2015



PBEX Operations, LLC

Hydrogen Sulfide Contingency Plan



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

- All respirators will be used and maintained in conformance with ANSI Z88.2, American National Standard for respiratory protection.
- PPE must be provided and used.
- 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.
- 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.
- 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

- 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.
- 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

- Hydrogen Sulfide (H₂S) is a colorless, transparent, flammable gas. It is heavier than air and may accumulate in low places.
- 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 #104H

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 #104H
Company:	PBEX	TVD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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 #104H					
Well Position	+N/-S	0.00 usft	Northing:	618,996.82 usft	Latitude:	32.70046024
	+E/-W	0.00 usft	Easting:	710,402.51 usft	Longitude:	-103.78372551
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,683.92 usft
Grid Convergence:		0.30 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM CURRENT	1/28/2025	6.58	60.40	47,434.80000000

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	19,348.33 Plan 1 (Wellbore #1)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		



Planning Report



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Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,258.43	13.17	48.07	2,252.64	50.34	56.04	2.00	2.00	0.00	48.07	
5,744.81	13.17	48.07	5,647.36	581.10	646.92	0.00	0.00	0.00	0.00	
6,403.24	0.00	0.01	6,300.00	631.44	702.96	2.00	-2.00	0.00	180.00	
7,980.28	0.00	0.01	7,877.04	631.44	702.96	0.00	0.00	0.00	0.01	
8,880.28	90.00	80.00	8,450.00	730.93	1,267.21	10.00	10.00	0.00	80.00	
9,240.28	90.00	80.00	8,450.00	793.45	1,621.74	0.00	0.00	0.00	0.00	
9,731.80	90.00	89.83	8,450.00	836.96	2,110.73	2.00	0.00	2.00	90.00	
19,348.33	90.00	89.83	8,450.00	865.42	11,727.22	0.00	0.00	0.00	0.00	BOND 33-34 104H BI



Planning Report



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Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,700.00	2.00	48.07	1,699.98	1.17	1.30	1.30	2.00	2.00	0.00
1,800.00	4.00	48.07	1,799.84	4.66	5.19	5.19	2.00	2.00	0.00
1,900.00	6.00	48.07	1,899.45	10.49	11.68	11.68	2.00	2.00	0.00
2,000.00	8.00	48.07	1,998.70	18.63	20.74	20.74	2.00	2.00	0.00
2,100.00	10.00	48.07	2,097.47	29.08	32.38	32.38	2.00	2.00	0.00
2,200.00	12.00	48.07	2,195.62	41.83	46.57	46.57	2.00	2.00	0.00
2,258.43	13.17	48.07	2,252.64	50.34	56.04	56.04	2.00	2.00	0.00
Start 3486.39 hold at 2258.43 MD									
2,300.00	13.17	48.07	2,293.13	56.67	63.09	63.09	0.00	0.00	0.00
2,400.00	13.17	48.07	2,390.50	71.89	80.04	80.04	0.00	0.00	0.00
2,500.00	13.17	48.07	2,487.87	87.12	96.98	96.98	0.00	0.00	0.00
2,600.00	13.17	48.07	2,585.24	102.34	113.93	113.93	0.00	0.00	0.00
2,700.00	13.17	48.07	2,682.61	117.56	130.88	130.88	0.00	0.00	0.00
2,800.00	13.17	48.07	2,779.98	132.79	147.83	147.83	0.00	0.00	0.00
2,900.00	13.17	48.07	2,877.35	148.01	164.78	164.78	0.00	0.00	0.00
3,000.00	13.17	48.07	2,974.72	163.24	181.72	181.72	0.00	0.00	0.00
3,100.00	13.17	48.07	3,072.09	178.46	198.67	198.67	0.00	0.00	0.00
3,200.00	13.17	48.07	3,169.46	193.68	215.62	215.62	0.00	0.00	0.00
3,300.00	13.17	48.07	3,266.83	208.91	232.57	232.57	0.00	0.00	0.00
3,400.00	13.17	48.07	3,364.20	224.13	249.52	249.52	0.00	0.00	0.00
3,500.00	13.17	48.07	3,461.57	239.35	266.47	266.47	0.00	0.00	0.00
3,600.00	13.17	48.07	3,558.94	254.58	283.41	283.41	0.00	0.00	0.00
3,700.00	13.17	48.07	3,656.31	269.80	300.36	300.36	0.00	0.00	0.00
3,800.00	13.17	48.07	3,753.68	285.03	317.31	317.31	0.00	0.00	0.00
3,900.00	13.17	48.07	3,851.05	300.25	334.26	334.26	0.00	0.00	0.00
4,000.00	13.17	48.07	3,948.42	315.47	351.21	351.21	0.00	0.00	0.00
4,100.00	13.17	48.07	4,045.79	330.70	368.15	368.15	0.00	0.00	0.00
4,200.00	13.17	48.07	4,143.16	345.92	385.10	385.10	0.00	0.00	0.00
4,300.00	13.17	48.07	4,240.53	361.14	402.05	402.05	0.00	0.00	0.00
4,400.00	13.17	48.07	4,337.90	376.37	419.00	419.00	0.00	0.00	0.00
4,500.00	13.17	48.07	4,435.27	391.59	435.95	435.95	0.00	0.00	0.00
4,600.00	13.17	48.07	4,532.65	406.82	452.89	452.89	0.00	0.00	0.00
4,700.00	13.17	48.07	4,630.02	422.04	469.84	469.84	0.00	0.00	0.00
4,800.00	13.17	48.07	4,727.39	437.26	486.79	486.79	0.00	0.00	0.00
4,900.00	13.17	48.07	4,824.76	452.49	503.74	503.74	0.00	0.00	0.00
5,000.00	13.17	48.07	4,922.13	467.71	520.69	520.69	0.00	0.00	0.00



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Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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	13.17	48.07	5,019.50	482.93	537.63	537.63	0.00	0.00	0.00
5,200.00	13.17	48.07	5,116.87	498.16	554.58	554.58	0.00	0.00	0.00
5,300.00	13.17	48.07	5,214.24	513.38	571.53	571.53	0.00	0.00	0.00
5,400.00	13.17	48.07	5,311.61	528.61	588.48	588.48	0.00	0.00	0.00
5,500.00	13.17	48.07	5,408.98	543.83	605.43	605.43	0.00	0.00	0.00
5,600.00	13.17	48.07	5,506.35	559.05	622.37	622.37	0.00	0.00	0.00
5,700.00	13.17	48.07	5,603.72	574.28	639.32	639.32	0.00	0.00	0.00
5,744.81	13.17	48.07	5,647.36	581.10	646.92	646.92	0.00	0.00	0.00
Start Drop -2.00									
5,800.00	12.06	48.07	5,701.21	589.15	655.89	655.89	2.00	-2.00	0.00
5,900.00	10.06	48.07	5,799.34	601.98	670.16	670.16	2.00	-2.00	0.00
6,000.00	8.06	48.07	5,898.09	612.51	681.88	681.88	2.00	-2.00	0.00
6,100.00	6.06	48.07	5,997.33	620.73	691.03	691.03	2.00	-2.00	0.00
6,200.00	4.06	48.07	6,096.93	626.62	697.60	697.60	2.00	-2.00	0.00
6,300.00	2.06	48.07	6,196.78	630.20	701.58	701.58	2.00	-2.00	0.00
6,403.24	0.00	0.01	6,300.00	631.44	702.96	702.96	2.00	-2.00	0.00
Start 1577.04 hold at 6403.24 MD									
6,500.00	0.00	0.00	6,396.76	631.44	702.96	702.96	0.00	0.00	0.00
6,600.00	0.00	0.00	6,496.76	631.44	702.96	702.96	0.00	0.00	0.00
6,700.00	0.00	0.00	6,596.76	631.44	702.96	702.96	0.00	0.00	0.00
6,800.00	0.00	0.00	6,696.76	631.44	702.96	702.96	0.00	0.00	0.00
6,900.00	0.00	0.00	6,796.76	631.44	702.96	702.96	0.00	0.00	0.00
7,000.00	0.00	0.00	6,896.76	631.44	702.96	702.96	0.00	0.00	0.00
7,100.00	0.00	0.00	6,996.76	631.44	702.96	702.96	0.00	0.00	0.00
7,200.00	0.00	0.00	7,096.76	631.44	702.96	702.96	0.00	0.00	0.00
7,300.00	0.00	0.00	7,196.76	631.44	702.96	702.96	0.00	0.00	0.00
7,400.00	0.00	0.00	7,296.76	631.44	702.96	702.96	0.00	0.00	0.00
7,500.00	0.00	0.00	7,396.76	631.44	702.96	702.96	0.00	0.00	0.00
7,600.00	0.00	0.00	7,496.76	631.44	702.96	702.96	0.00	0.00	0.00
7,700.00	0.00	0.00	7,596.76	631.44	702.96	702.96	0.00	0.00	0.00
7,800.00	0.00	0.00	7,696.76	631.44	702.96	702.96	0.00	0.00	0.00
7,900.00	0.00	0.00	7,796.76	631.44	702.96	702.96	0.00	0.00	0.00
7,980.28	0.00	0.00	7,877.04	631.44	702.96	702.96	0.00	0.00	0.00
Start Build 10.00									
8,000.00	1.97	80.00	7,896.76	631.50	703.29	703.29	10.00	10.00	0.00
8,050.00	6.97	80.00	7,946.59	632.18	707.13	707.13	10.00	10.00	0.00
8,100.00	11.97	80.00	7,995.89	633.60	715.23	715.23	10.00	10.00	0.00
8,150.00	16.97	80.00	8,044.29	635.77	727.53	727.53	10.00	10.00	0.00
8,200.00	21.97	80.00	8,091.41	638.67	743.94	743.94	10.00	10.00	0.00
8,250.00	26.97	80.00	8,136.91	642.26	764.33	764.33	10.00	10.00	0.00
8,300.00	31.97	80.00	8,180.42	646.53	788.55	788.55	10.00	10.00	0.00
8,350.00	36.97	80.00	8,221.63	651.45	816.41	816.41	10.00	10.00	0.00
8,400.00	41.97	80.00	8,260.22	656.96	847.71	847.71	10.00	10.00	0.00
8,450.00	46.97	80.00	8,295.88	663.04	882.19	882.19	10.00	10.00	0.00
8,500.00	51.97	80.00	8,328.36	669.64	919.61	919.61	10.00	10.00	0.00
8,550.00	56.97	80.00	8,357.41	676.70	959.67	959.67	10.00	10.00	0.00
8,600.00	61.97	80.00	8,382.80	684.18	1,002.07	1,002.07	10.00	10.00	0.00
8,650.00	66.97	80.00	8,404.34	692.01	1,046.49	1,046.49	10.00	10.00	0.00
8,700.00	71.97	80.00	8,421.87	700.14	1,092.59	1,092.59	10.00	10.00	0.00
8,750.00	76.97	80.00	8,435.25	708.50	1,140.02	1,140.02	10.00	10.00	0.00
8,800.00	81.97	80.00	8,444.38	717.04	1,188.41	1,188.41	10.00	10.00	0.00
8,850.00	86.97	80.00	8,449.20	725.68	1,237.41	1,237.41	10.00	10.00	0.00
8,880.28	90.00	80.00	8,450.00	730.93	1,267.21	1,267.21	10.00	10.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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)
Start 360.00 hold at 8880.28 MD									
8,900.00	90.00	80.00	8,450.00	734.36	1,286.63	1,286.63	0.00	0.00	0.00
9,000.00	90.00	80.00	8,450.00	751.72	1,385.11	1,385.11	0.00	0.00	0.00
9,100.00	90.00	80.00	8,450.00	769.09	1,483.60	1,483.60	0.00	0.00	0.00
9,200.00	90.00	80.00	8,450.00	786.45	1,582.08	1,582.08	0.00	0.00	0.00
9,240.28	90.00	80.00	8,450.00	793.45	1,621.74	1,621.74	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00									
9,300.00	90.00	81.19	8,450.00	803.20	1,680.66	1,680.66	2.00	0.00	2.00
9,400.00	90.00	83.19	8,450.00	816.78	1,779.73	1,779.73	2.00	0.00	2.00
9,500.00	90.00	85.19	8,450.00	826.90	1,879.21	1,879.21	2.00	0.00	2.00
9,600.00	90.00	87.19	8,450.00	833.54	1,978.99	1,978.99	2.00	0.00	2.00
9,700.00	90.00	89.19	8,450.00	836.69	2,078.93	2,078.93	2.00	0.00	2.00
9,731.80	90.00	89.83	8,450.00	836.96	2,110.73	2,110.73	2.00	0.00	2.00
Start 9616.53 hold at 9731.80 MD									
9,800.00	90.00	89.83	8,450.00	837.16	2,178.93	2,178.93	0.00	0.00	0.00
9,900.00	90.00	89.83	8,450.00	837.45	2,278.93	2,278.93	0.00	0.00	0.00
10,000.00	90.00	89.83	8,450.00	837.75	2,378.93	2,378.93	0.00	0.00	0.00
10,100.00	90.00	89.83	8,450.00	838.05	2,478.93	2,478.93	0.00	0.00	0.00
10,200.00	90.00	89.83	8,450.00	838.34	2,578.93	2,578.93	0.00	0.00	0.00
10,300.00	90.00	89.83	8,450.00	838.64	2,678.93	2,678.93	0.00	0.00	0.00
10,400.00	90.00	89.83	8,450.00	838.93	2,778.93	2,778.93	0.00	0.00	0.00
10,500.00	90.00	89.83	8,450.00	839.23	2,878.93	2,878.93	0.00	0.00	0.00
10,600.00	90.00	89.83	8,450.00	839.53	2,978.93	2,978.93	0.00	0.00	0.00
10,700.00	90.00	89.83	8,450.00	839.82	3,078.93	3,078.93	0.00	0.00	0.00
10,800.00	90.00	89.83	8,450.00	840.12	3,178.92	3,178.92	0.00	0.00	0.00
10,900.00	90.00	89.83	8,450.00	840.41	3,278.92	3,278.92	0.00	0.00	0.00
11,000.00	90.00	89.83	8,450.00	840.71	3,378.92	3,378.92	0.00	0.00	0.00
11,100.00	90.00	89.83	8,450.00	841.01	3,478.92	3,478.92	0.00	0.00	0.00
11,200.00	90.00	89.83	8,450.00	841.30	3,578.92	3,578.92	0.00	0.00	0.00
11,300.00	90.00	89.83	8,450.00	841.60	3,678.92	3,678.92	0.00	0.00	0.00
11,400.00	90.00	89.83	8,450.00	841.89	3,778.92	3,778.92	0.00	0.00	0.00
11,500.00	90.00	89.83	8,450.00	842.19	3,878.92	3,878.92	0.00	0.00	0.00
11,600.00	90.00	89.83	8,450.00	842.49	3,978.92	3,978.92	0.00	0.00	0.00
11,700.00	90.00	89.83	8,450.00	842.78	4,078.92	4,078.92	0.00	0.00	0.00
11,800.00	90.00	89.83	8,450.00	843.08	4,178.92	4,178.92	0.00	0.00	0.00
11,900.00	90.00	89.83	8,450.00	843.37	4,278.92	4,278.92	0.00	0.00	0.00
12,000.00	90.00	89.83	8,450.00	843.67	4,378.92	4,378.92	0.00	0.00	0.00
12,100.00	90.00	89.83	8,450.00	843.97	4,478.92	4,478.92	0.00	0.00	0.00
12,200.00	90.00	89.83	8,450.00	844.26	4,578.92	4,578.92	0.00	0.00	0.00
12,300.00	90.00	89.83	8,450.00	844.56	4,678.92	4,678.92	0.00	0.00	0.00
12,400.00	90.00	89.83	8,450.00	844.85	4,778.92	4,778.92	0.00	0.00	0.00
12,500.00	90.00	89.83	8,450.00	845.15	4,878.92	4,878.92	0.00	0.00	0.00
12,600.00	90.00	89.83	8,450.00	845.45	4,978.92	4,978.92	0.00	0.00	0.00
12,700.00	90.00	89.83	8,450.00	845.74	5,078.92	5,078.92	0.00	0.00	0.00
12,800.00	90.00	89.83	8,450.00	846.04	5,178.92	5,178.92	0.00	0.00	0.00
12,900.00	90.00	89.83	8,450.00	846.33	5,278.92	5,278.92	0.00	0.00	0.00
13,000.00	90.00	89.83	8,450.00	846.63	5,378.92	5,378.92	0.00	0.00	0.00
13,100.00	90.00	89.83	8,450.00	846.93	5,478.91	5,478.91	0.00	0.00	0.00
13,200.00	90.00	89.83	8,450.00	847.22	5,578.91	5,578.91	0.00	0.00	0.00
13,300.00	90.00	89.83	8,450.00	847.52	5,678.91	5,678.91	0.00	0.00	0.00
13,400.00	90.00	89.83	8,450.00	847.81	5,778.91	5,778.91	0.00	0.00	0.00
13,500.00	90.00	89.83	8,450.00	848.11	5,878.91	5,878.91	0.00	0.00	0.00
13,600.00	90.00	89.83	8,450.00	848.41	5,978.91	5,978.91	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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)	
13,700.00	90.00	89.83	8,450.00	848.70	6,078.91	6,078.91	0.00	0.00	0.00	
13,800.00	90.00	89.83	8,450.00	849.00	6,178.91	6,178.91	0.00	0.00	0.00	
13,900.00	90.00	89.83	8,450.00	849.29	6,278.91	6,278.91	0.00	0.00	0.00	
14,000.00	90.00	89.83	8,450.00	849.59	6,378.91	6,378.91	0.00	0.00	0.00	
14,100.00	90.00	89.83	8,450.00	849.89	6,478.91	6,478.91	0.00	0.00	0.00	
14,200.00	90.00	89.83	8,450.00	850.18	6,578.91	6,578.91	0.00	0.00	0.00	
14,300.00	90.00	89.83	8,450.00	850.48	6,678.91	6,678.91	0.00	0.00	0.00	
14,400.00	90.00	89.83	8,450.00	850.77	6,778.91	6,778.91	0.00	0.00	0.00	
14,500.00	90.00	89.83	8,450.00	851.07	6,878.91	6,878.91	0.00	0.00	0.00	
14,600.00	90.00	89.83	8,450.00	851.37	6,978.91	6,978.91	0.00	0.00	0.00	
14,700.00	90.00	89.83	8,450.00	851.66	7,078.91	7,078.91	0.00	0.00	0.00	
14,800.00	90.00	89.83	8,450.00	851.96	7,178.91	7,178.91	0.00	0.00	0.00	
14,900.00	90.00	89.83	8,450.00	852.25	7,278.91	7,278.91	0.00	0.00	0.00	
15,000.00	90.00	89.83	8,450.00	852.55	7,378.91	7,378.91	0.00	0.00	0.00	
15,100.00	90.00	89.83	8,450.00	852.85	7,478.91	7,478.91	0.00	0.00	0.00	
15,200.00	90.00	89.83	8,450.00	853.14	7,578.91	7,578.91	0.00	0.00	0.00	
15,300.00	90.00	89.83	8,450.00	853.44	7,678.91	7,678.91	0.00	0.00	0.00	
15,400.00	90.00	89.83	8,450.00	853.73	7,778.90	7,778.90	0.00	0.00	0.00	
15,500.00	90.00	89.83	8,450.00	854.03	7,878.90	7,878.90	0.00	0.00	0.00	
15,600.00	90.00	89.83	8,450.00	854.33	7,978.90	7,978.90	0.00	0.00	0.00	
15,700.00	90.00	89.83	8,450.00	854.62	8,078.90	8,078.90	0.00	0.00	0.00	
15,800.00	90.00	89.83	8,450.00	854.92	8,178.90	8,178.90	0.00	0.00	0.00	
15,900.00	90.00	89.83	8,450.00	855.21	8,278.90	8,278.90	0.00	0.00	0.00	
16,000.00	90.00	89.83	8,450.00	855.51	8,378.90	8,378.90	0.00	0.00	0.00	
16,100.00	90.00	89.83	8,450.00	855.81	8,478.90	8,478.90	0.00	0.00	0.00	
16,200.00	90.00	89.83	8,450.00	856.10	8,578.90	8,578.90	0.00	0.00	0.00	
16,300.00	90.00	89.83	8,450.00	856.40	8,678.90	8,678.90	0.00	0.00	0.00	
16,400.00	90.00	89.83	8,450.00	856.69	8,778.90	8,778.90	0.00	0.00	0.00	
16,500.00	90.00	89.83	8,450.00	856.99	8,878.90	8,878.90	0.00	0.00	0.00	
16,600.00	90.00	89.83	8,450.00	857.29	8,978.90	8,978.90	0.00	0.00	0.00	
16,700.00	90.00	89.83	8,450.00	857.58	9,078.90	9,078.90	0.00	0.00	0.00	
16,800.00	90.00	89.83	8,450.00	857.88	9,178.90	9,178.90	0.00	0.00	0.00	
16,900.00	90.00	89.83	8,450.00	858.17	9,278.90	9,278.90	0.00	0.00	0.00	
17,000.00	90.00	89.83	8,450.00	858.47	9,378.90	9,378.90	0.00	0.00	0.00	
17,100.00	90.00	89.83	8,450.00	858.77	9,478.90	9,478.90	0.00	0.00	0.00	
17,200.00	90.00	89.83	8,450.00	859.06	9,578.90	9,578.90	0.00	0.00	0.00	
17,300.00	90.00	89.83	8,450.00	859.36	9,678.90	9,678.90	0.00	0.00	0.00	
17,400.00	90.00	89.83	8,450.00	859.65	9,778.90	9,778.90	0.00	0.00	0.00	
17,500.00	90.00	89.83	8,450.00	859.95	9,878.90	9,878.90	0.00	0.00	0.00	
17,600.00	90.00	89.83	8,450.00	860.25	9,978.90	9,978.90	0.00	0.00	0.00	
17,700.00	90.00	89.83	8,450.00	860.54	10,078.89	10,078.89	0.00	0.00	0.00	
17,800.00	90.00	89.83	8,450.00	860.84	10,178.89	10,178.89	0.00	0.00	0.00	
17,900.00	90.00	89.83	8,450.00	861.13	10,278.89	10,278.89	0.00	0.00	0.00	
18,000.00	90.00	89.83	8,450.00	861.43	10,378.89	10,378.89	0.00	0.00	0.00	
18,100.00	90.00	89.83	8,450.00	861.73	10,478.89	10,478.89	0.00	0.00	0.00	
18,200.00	90.00	89.83	8,450.00	862.02	10,578.89	10,578.89	0.00	0.00	0.00	
18,300.00	90.00	89.83	8,450.00	862.32	10,678.89	10,678.89	0.00	0.00	0.00	
18,400.00	90.00	89.83	8,450.00	862.61	10,778.89	10,778.89	0.00	0.00	0.00	
18,500.00	90.00	89.83	8,450.00	862.91	10,878.89	10,878.89	0.00	0.00	0.00	
18,600.00	90.00	89.83	8,450.00	863.21	10,978.89	10,978.89	0.00	0.00	0.00	
18,700.00	90.00	89.83	8,450.00	863.50	11,078.89	11,078.89	0.00	0.00	0.00	
18,800.00	90.00	89.83	8,450.00	863.80	11,178.89	11,178.89	0.00	0.00	0.00	
18,900.00	90.00	89.83	8,450.00	864.09	11,278.89	11,278.89	0.00	0.00	0.00	
19,000.00	90.00	89.83	8,450.00	864.39	11,378.89	11,378.89	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	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)
19,100.00	90.00	89.83	8,450.00	864.68	11,478.89	11,478.89	0.00	0.00	0.00
19,200.00	90.00	89.83	8,450.00	864.98	11,578.89	11,578.89	0.00	0.00	0.00
19,300.00	90.00	89.83	8,450.00	865.28	11,678.89	11,678.89	0.00	0.00	0.00
19,348.33	90.00	89.83	8,450.00	865.42	11,727.22	11,727.22	0.00	0.00	0.00
TD at 19348.33									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BOND 33-34 104H SHLI - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	618,996.82	710,402.51	32.70046024	-103.78372551
BOND 33-34 104H PP4(- plan misses target center by 1.26usft at 14075.29usft MD (8450.00 TVD, 849.81 N, 6454.20 E) - Point	0.00	0.00	8,450.00	848.55	6,454.20	619,845.37	716,856.71	32.70269884	-103.76272981
BOND 33-34 104H PP3(- plan misses target center by 1.15usft at 11430.63usft MD (8450.00 TVD, 841.98 N, 3809.56 E) - Point	0.00	0.00	8,450.00	840.83	3,809.56	619,837.65	714,212.07	32.70271644	-103.77132716
BOND 33-34 104H FTP(- plan misses target center by 99.51usft at 8906.26usft MD (8450.00 TVD, 735.44 N, 1292.80 E) - Point	0.00	0.01	8,450.00	833.44	1,275.52	619,830.26	711,678.03	32.70273277	-103.77956498
BOND 33-34 104H PP2(- plan misses target center by 1.10usft at 10114.22usft MD (8450.00 TVD, 838.09 N, 2493.15 E) - Point	0.00	0.00	8,450.00	836.99	2,493.15	619,833.81	712,895.66	32.70272499	-103.77560663
BOND 33-34 104H BHLI - plan hits target center - Point	0.00	0.00	8,450.00	865.42	11,727.22	619,862.24	722,129.73	32.70266605	-103.74558797
BOND 33-34 104H PP5(- plan misses target center by 0.95usft at 15394.56usft MD (8450.00 TVD, 853.72 N, 7773.47 E) - Point	0.00	0.00	8,450.00	852.77	7,773.47	619,849.59	718,175.98	32.70269085	-103.75844104
BOND 33-34 104H LTP(- plan misses target center by 0.02usft at 19258.33usft MD (8450.00 TVD, 865.15 N, 11637.22 E) - Point	0.00	0.00	8,450.00	865.13	11,637.22	619,861.95	722,039.73	32.70266662	-103.74588054

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
19,327.21	8,450.00	20" Casing	20	24



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well BOND 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 30' + 3,683.92' GL @ 3713.92usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	BOND 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	Start Build 2.00
2,258.43	2,252.64	50.34	56.04	Start 3486.39 hold at 2258.43 MD
5,744.81	5,647.36	581.10	646.92	Start Drop -2.00
6,403.24	6,300.00	631.44	702.96	Start 1577.04 hold at 6403.24 MD
7,980.28	7,877.04	631.44	702.96	Start Build 10.00
8,880.28	8,450.00	730.93	1,267.21	Start 360.00 hold at 8880.28 MD
9,240.28	8,450.00	793.45	1,621.74	Start DLS 2.00 TFO 90.00
9,731.80	8,450.00	836.96	2,110.73	Start 9616.53 hold at 9731.80 MD
19,348.33	8,450.00	865.42	11,727.22	TD at 19348.33



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

№: 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 $\pm 2\%$					
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	Zhansheng 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

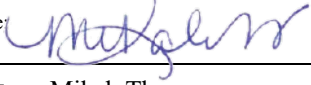
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

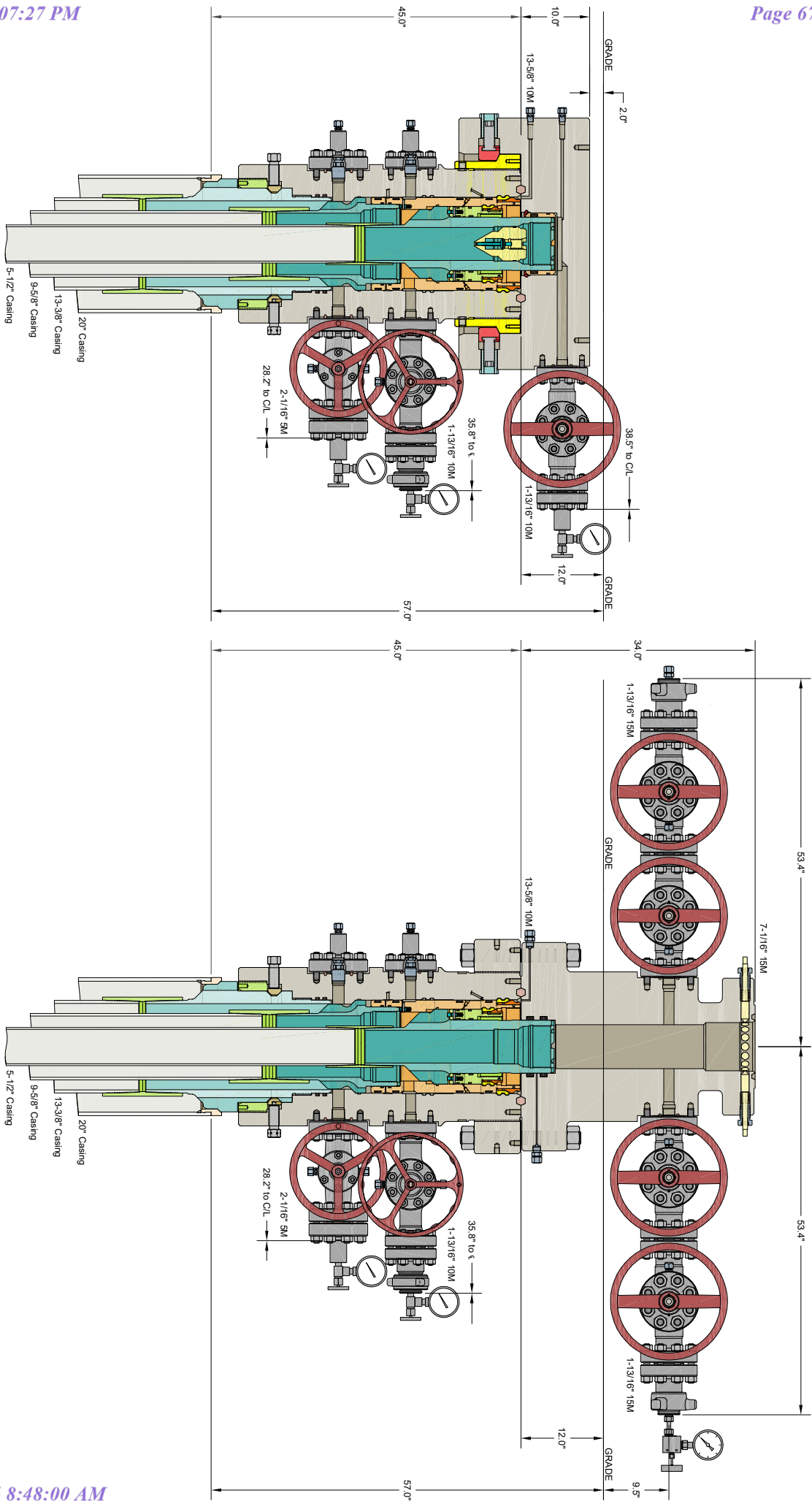
- PBEX's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.
- PBEX does not produce oil or gas until all flowlines, tank batteries,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

LSE_NAME	ProdDate	Proj Oil	Proj Gas	Proj NGL	Proj Water
1BSS TIER 1	Month 1	11301	25928	141566	50749
1BSS TIER 1	Month 2	34577	96869	528905	86731
1BSS TIER 1	Month 3	28055	94389	515366	63947
1BSS TIER 1	Month 4	23246	88775	484713	53668
1BSS TIER 1	Month 5	18835	78883	430704	43849
1BSS TIER 1	Month 6	16783	75401	411690	39300
1BSS TIER 1	Month 7	14747	70097	382731	34684
1BSS TIER 1	Month 8	12765	63473	346560	30123
1BSS TIER 1	Month 9	11945	61651	336615	28263
1BSS TIER 1	Month 10	10570	56301	307401	25063
1BSS TIER 1	Month 11	10069	55093	300806	23917
1BSS TIER 1	Month 12	9333	52289	285497	22203
1BSS TIER 1	Month 13	7885	45056	246004	18781
1BSS TIER 1	Month 14	8204	47702	260453	19562
1BSS TIER 1	Month 15	7476	44173	241186	17844
1BSS TIER 1	Month 16	7302	43768	238973	17443
1BSS TIER 1	Month 17	6701	40688	222158	16019
1BSS TIER 1	Month 18	6585	40459	220904	15755
1BSS TIER 1	Month 19	6275	38970	212775	15021
1BSS TIER 1	Month 20	5804	36399	198741	13903
1BSS TIER 1	Month 21	5746	36352	198480	13769
1BSS TIER 1	Month 22	5336	34041	185865	12794
1BSS TIER 1	Month 23	5302	34078	186064	12717
1BSS TIER 1	Month 24	5103	33033	180358	12244
1BSS TIER 1	Month 25	4451	28992	158295	10683
1BSS TIER 1	Month 26	4764	31218	170452	11440
1BSS TIER 1	Month 27	4459	29380	160417	10709
1BSS TIER 1	Month 28	4461	29550	161341	10716
1BSS TIER 1	Month 29	4184	27855	152088	10054
1BSS TIER 1	Month 30	4195	28058	153197	10083
1BSS TIER 1	Month 31	4072	27359	149379	9790
1BSS TIER 1	Month 32	3831	25844	141109	9212
1BSS TIER 1	Month 33	3851	26084	142421	9263
1BSS TIER 1	Month 34	3629	24670	134700	8730
1BSS TIER 1	Month 35	3654	24929	136110	8792
1BSS TIER 1	Month 36	3562	24381	133123	8572
1BSS TIER 1	Month 37	3253	22335	121949	7829
1BSS TIER 1	Month 38	3396	23391	127715	8176

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 30-025-55824	Pool Code 41450	Pool Name LUSK;BONE SPRING, NORTH
Property Code 338342	Property Name BOND 33-34 FED COM	Well Number #104H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,684.54'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,368' FSL	1,183' FEL	32.700516°	-103.783734°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		1,650' FSL	50' FEL	32.701216°	-103.745716°	LEA

Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API n/a	Overlapping Spacing Unit (Y/N) N	Consolidation Code F
Order Numbers. R-23684		30-025-55721	Well setbacks are under Common Ownership: ☒ Yes ☐ No	

BOND 33-34 FED COM 207H- Defining Well

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,368' FSL	1,183' FEL	32.700516°	-103.783734°	LEA

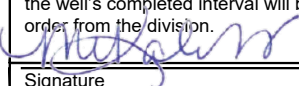
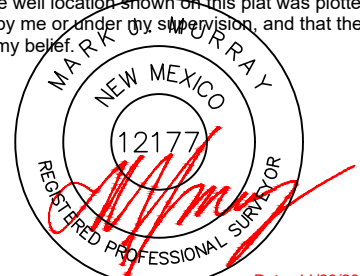
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	33	18S	32E		1,651' FSL	100' FWL	32.701285°	-103.779564°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		1,650' FSL	100' FEL	32.701216°	-103.745879°	LEA

Unitized Area or Area of Uniform Interest n/a	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,684.54
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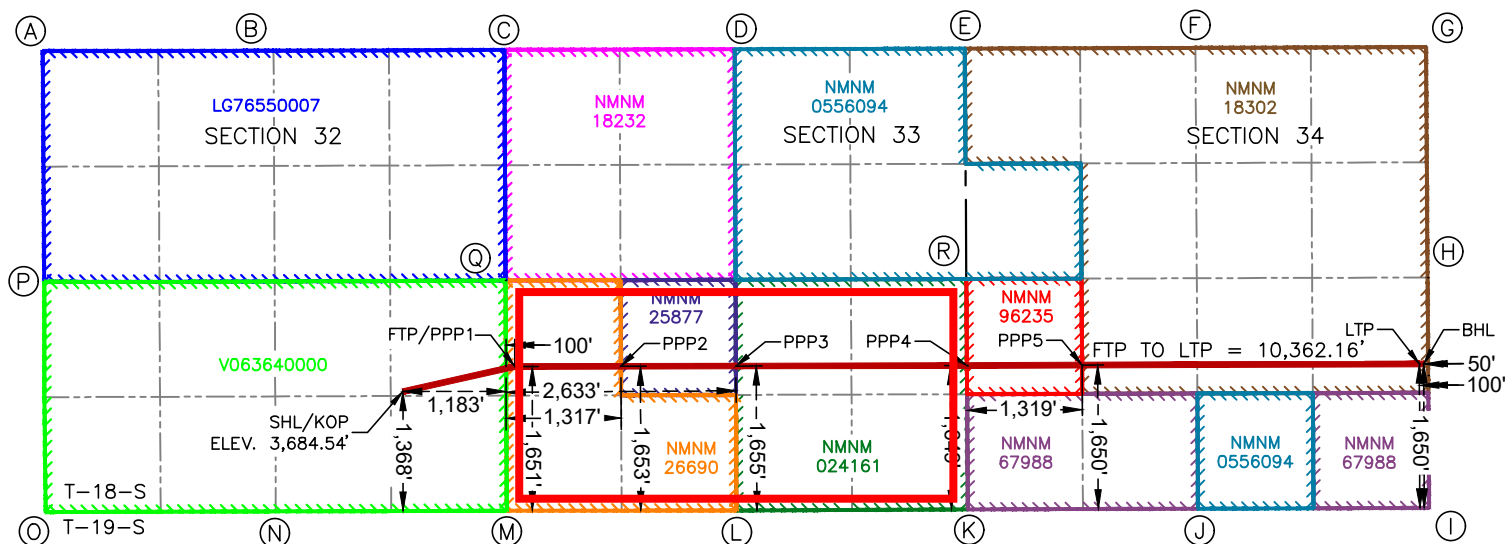
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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		Signature and Seal of Professional Surveyor	
Printed Name Mikah Thomas			
Email Address mikah@pbex.com		Certificate Number 12177	Date of Survey 11/28/2025
		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 #104H

SURFACE HOLE LOCATION
& KICK-OFF POINT
1,368' FSL & 1,183' FEL
ELEV. = 3,684.54'

NAD 83 X = 710,399.76'
NAD 83 Y = 619,016.98'
NAD 83 LAT = 32.700516°
NAD 83 LONG = -103.783734°

FIRST TAKE POINT &
PENETRATION POINT 1
1,651' FSL & 100' FWL

NAD 83 X = 711,681.11'
NAD 83 Y = 619,303.40'
NAD 83 LAT = 32.701285°
NAD 83 LONG = -103.779564°

PENETRATION POINT 2
1,653' FSL & 1,317' FWL

NAD 83 X = 712,898.07'
NAD 83 Y = 619,306.48'
NAD 83 LAT = 32.701276°
NAD 83 LONG = -103.775608°

PENETRATION POINT 3
1,655' FSL & 2,633' FWL

NAD 83 X = 714,214.11'
NAD 83 Y = 619,309.82'
NAD 83 LAT = 32.701266°
NAD 83 LONG = -103.771330°

PENETRATION POINT 4
1,649' FSL & 0' FWL

NAD 83 X = 716,860.24'
NAD 83 Y = 619,316.82'
NAD 83 LAT = 32.701246°
NAD 83 LONG = -103.762728°

PENETRATION POINT 5
1,650' FSL & 1,319' FWL

NAD 83 X = 718,179.23'
NAD 83 Y = 619,321.06'
NAD 83 LAT = 32.701238°
NAD 83 LONG = -103.758440°

LAST TAKE POINT
1,650' FSL & 100' FEL

NAD 83 X = 722,043.22'
NAD 83 Y = 619,334.27'
NAD 83 LAT = 32.701216°
NAD 83 LONG = -103.745879°

BOTTOM HOLE LOCATION
1,650' FSL & 50' FEL

NAD 83 X = 722,093.22'
NAD 83 Y = 619,334.45'
NAD 83 LAT = 32.701216°
NAD 83 LONG = -103.745716°

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'
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'

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 **QUERRECHO PLAINS; LOWER BONE**

API Number 30-025-55824	Pool Code 50600 50510	Pool Name QUERRECHO PLAINS, UPPER DS
Property Code 338342	Property Name BOND 33-34 FED COM	Well Number #104H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,684.54'
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 1,368' FSL	Ft. from E/W 1,183' FEL	Latitude 32.700516°	Longitude -103.783734°	County LEA
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Bottom Hole Location

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 1,650' FSL	Ft. from E/W 50' FEL	Latitude 32.701216°	Longitude -103.745716°	County LEA
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Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API n/a	Overlapping Spacing Unit (Y/N) N	Consolidation Code F
Order Numbers. R-23684			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

BOND 33-34 FED COM 207H- Defining Well

Kick Off Point (KOP)

UL I	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,368' FSL	Ft. from E/W 1,183' FEL	Latitude 32.700516°	Longitude -103.783734°	County LEA
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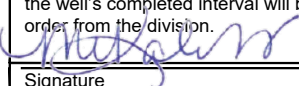
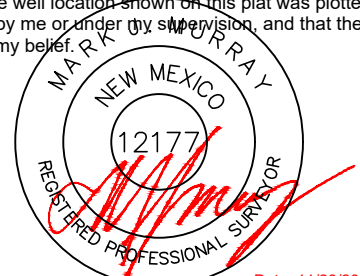
First Take Point (FTP)

UL L	Section 33	Township 18S	Range 32E	Lot	Ft. from N/S 1,651' FSL	Ft. from E/W 100' FWL	Latitude 32.701285°	Longitude -103.779564°	County LEA
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Last Take Point (LTP)

UL I	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 1,650' FSL	Ft. from E/W 100' FEL	Latitude 32.701216°	Longitude -103.745879°	County LEA
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Unitized Area or Area of Uniform Interest n/a	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,684.54
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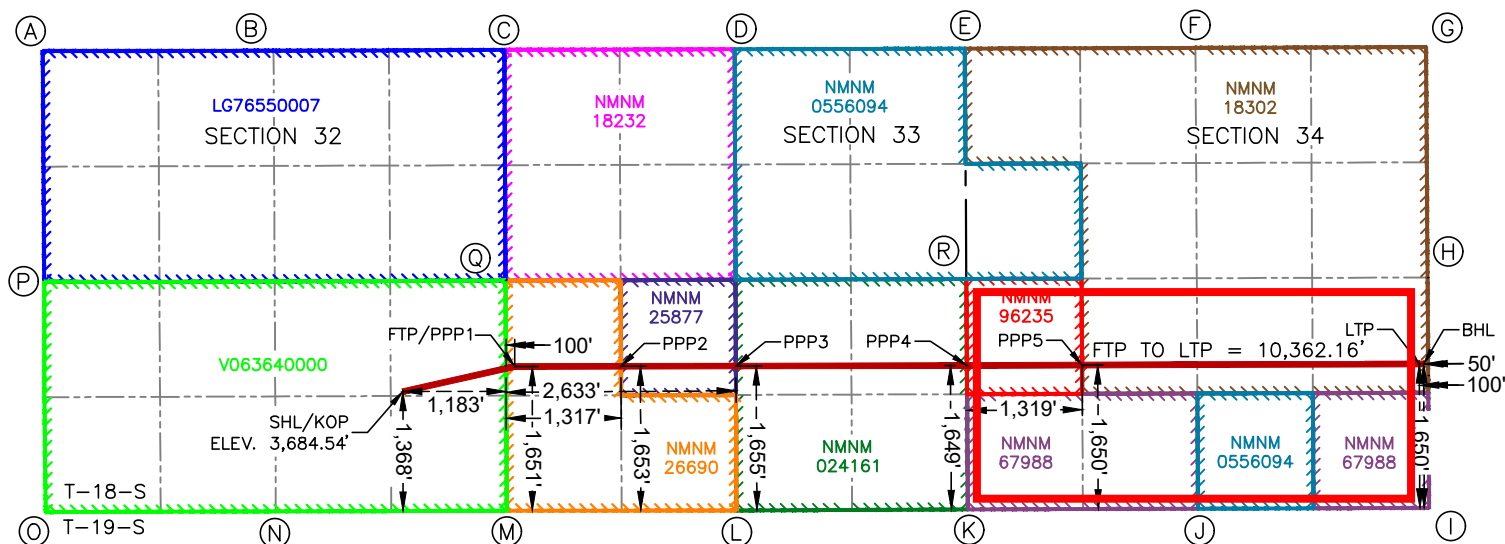
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.

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BOND 33-34 FED COM #104H

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PENETRATION POINT 5
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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 / NESE / 32.70046 / -103.783725	County or Parish/State: LEA / NM
Well Number: 104H	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: 2887046

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/15/2025	Time Sundry Submitted: 03:26
Date proposed operation will begin: 12/15/2025	

Procedure Description: AFMSS APD Number: 10400103895 PBEX Operations, LLC requests the following: Well name change: Original: Bond 33-34 Fed Com 104H New: Bond 33-34 Fed Com 104H Casing/Cement/Mud change shown on attachment. SHL, BHL, lateral move shown on attachment.

NOI Attachments

Procedure Description

- PPP_Change_Bond_104H__104H_20251222105551.pdf
- Bond_32_34_Fed_Com_104H_20251222105547.pdf
- 24_041778_BOND_33_34_FED_COM__104H_C102_20251222105542.pdf
- 5.5_20.00__0.361__P110_RY_92.5_RBW_USS_FREEDOM_HTQ_Data_Sheet_03_14_24_20251215152421.pdf
- Plan_1_WM__04__Bond_33_34_FED_COM__104H_20251215152413.pdf
- Plan_1_AC__04__Bond_33_34_FED_COM__104H_20251215152408.pdf
- Plan_1__04__Bond_33_34_FED_COM__104H_20251215152403.pdf

Well Name: BOND 33-34 FED COM	Well Location: T18S / R32E / SEC 32 / NESE / 32.70046 / -103.783725	County or Parish/State: LEA / NM
Well Number: 104H	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	

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 10:55 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: LONG VO	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5759885402	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 01/15/2026
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: NESE / 1348 FSL / 1180 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.70046 / LONG: -103.783725 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2178 FSL / 1319 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7026934 / LONG: -103.758441 (TVD: 8450 feet, MD: 15395 feet)

PPP: NWSE / 2183 FSL / 2634 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7027196 / LONG: -103.7713272 (TVD: 8450 feet, MD: 11431 feet)

PPP: NESW / 2180 FSL / 1318 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702728 / LONG: -103.7756066 (TVD: 8450 feet, MD: 10114 feet)

PPP: NWSW / 2178 FSL / 100 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.702733 / LONG: -103.779565 (TVD: 8450 feet, MD: 8906 feet)

PPP: NWSW / 2178 FSL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7027023 / LONG: -103.7627298 (TVD: 8450 feet, MD: 14075 feet)

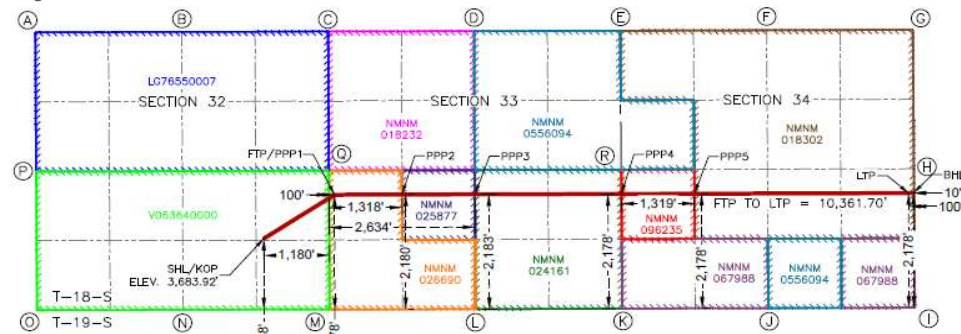
BHL: NESE / 2178 FSL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.702666 / LONG: -103.745588 (TVD: 8450 feet, MD: 19348 feet)

CONFIDENTIAL

PPP Changes

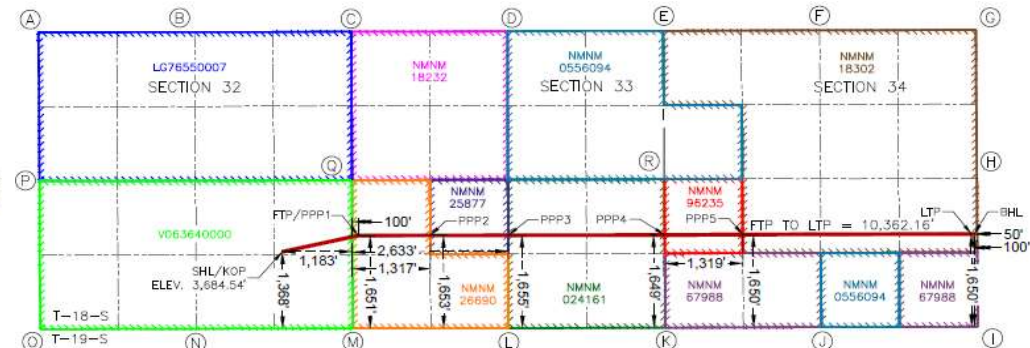
Original- Grey
New- Blue

Original: Bond 33-34 Fed Com 104H



Original- SHL	32-18S-32E	1348 FSL & 1180 FEL	V06364000
Original- KOP	32-18S-32E	1348 FSL & 1180 FEL	V06364000
Original- FTP	32-18S-32E	2178 FSL & 100 FWL	NMNM026690
Original- PPP2	33-18S-32E	2180 FSL & 1318 FWL	NMNM-25877
Original- PPP3	33-18S-32E	2183 FSL & 2634 FWL	NMNM024161
Original- PPP4	34-18S-32E	2178 FSL & 0 FWL	NMNM096235
Original- PPP5	34-18S-32E	2178 FSL & 1319 FWL	NMNM018302
Original- LTP	34-18S-32E	2178 FSL & 100 FEL	NMNM018302
Original- BHL	34-18S-32E	2178 FSL & 10 FEL	NMNM018302

New: Bond 33-34 Fed Com 104H



New-SHL	33-18S-32E	1368 FSL & 1183 FEL	LG76550005
New-KOP	33-18S-32E	1368 FSL & 1183 FEL	LG76550006
New-FTP	33-18S-32E	1651 FSL & 100 FWL	LG76550007
New-PPP2	33-18S-32E	1653 FSL & 1317 FWL	NMNM18232
New-PPP3	33-18S-32E	1655 FSL & 2633 FWL	NMNM056094
New-PPP4	34-18S-32E	1649 FSL & 0 FWL	NMNM18302
New-PPP5	34-18S-32E	1650 FSL & 1319 FWL	NMNM18303
New-LTP	34-18S-32E	1650 FSL & 100 FEL	NMNM18302
New-BHL	34-18S-32E	1650 FSL & 50 FEL	NMNM18302

Bond 32-34 Fed Com 104H

Original Design in Grey

New Design in Blue

Target Zone: 1BSS

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 1	12 1/4	9 5/8	API	no	0	4000	0	3970	J-55	40	BTC	1.125	1.125	1.6
Intermediate 2	12 1/4	9 5/8	API	no	4000	4535	3970	4505	HCL80	40	BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2	API	no	0	19348	0	8450	P-110	17	CDC HTQ	1.125	1.125	1.6

Casing Design- NEW

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	54.55	BTC	1.125	1.125	1.6
Intermediate	12 1/4	9 5/8	API	no	0	4535	0	4485	L80HC	40	BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2	API	no	0	19296	0	8418	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	804	2.65	2129.5	10.5	100%	C or H	Fluid Loss, Retarder, LCM, Possibly Beads
	Tail	3785	240	1.33	319.2	13.2	100%	C or H	Fluid Loss, Retarder, LCM
Produciton	Lead	4035	275	4.3	1184.4	10.5	20%	H	Fluid Loss, Retarder, LCM
	Tail	7820	2158	1.68	3625	13	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	753	3.32	2500.5	10.5	100%	C	Fluid Loss, Retarder, LCM, Possibly Beads
	Tail	3785	388	1.21	469.8	13.2	100%	C	Fluid Loss, Retarder, LCM
Produciton	Lead	4035	380	3.03	1152.2	10.5	20%	H	Fluid Loss, Retarder, LCM
	Tail	7820	2,828	1.23	3478.5	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	4535	Brine Based Mud	10.2	35-45	NC
Production	4535	19348	Oil Based Mud	9.7	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	10.2	35-45	NC
Production	4535	19296	Oil Based Mud	9.7	35-65	4 to 6



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

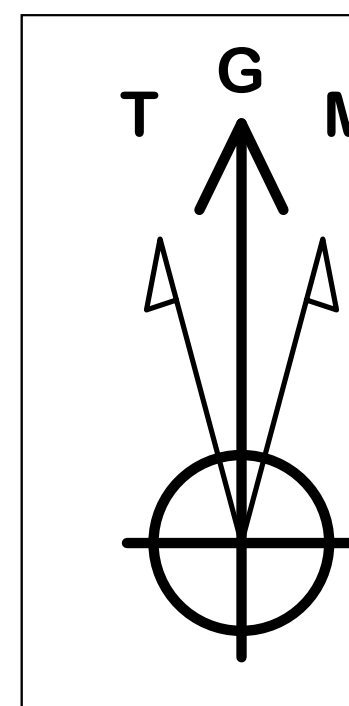
	Pipe	Connection	
MECHANICAL PROPERTIES	(P110 RY)		RBW: 92.5%
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS			
Outside Diameter	5.500	6.300	in.
Wall Thickness	0.361		in.
Inside Diameter	4.778	4.778	in.
Drift - API	4.653	4.653	in.
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]

- 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: (04) Bond 33-34 FED COM #104H
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 @ 3715.04usft
Elevation: 3684.54
To convert a Magnetic Direction to a Grid Direction, Add 6.051°



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

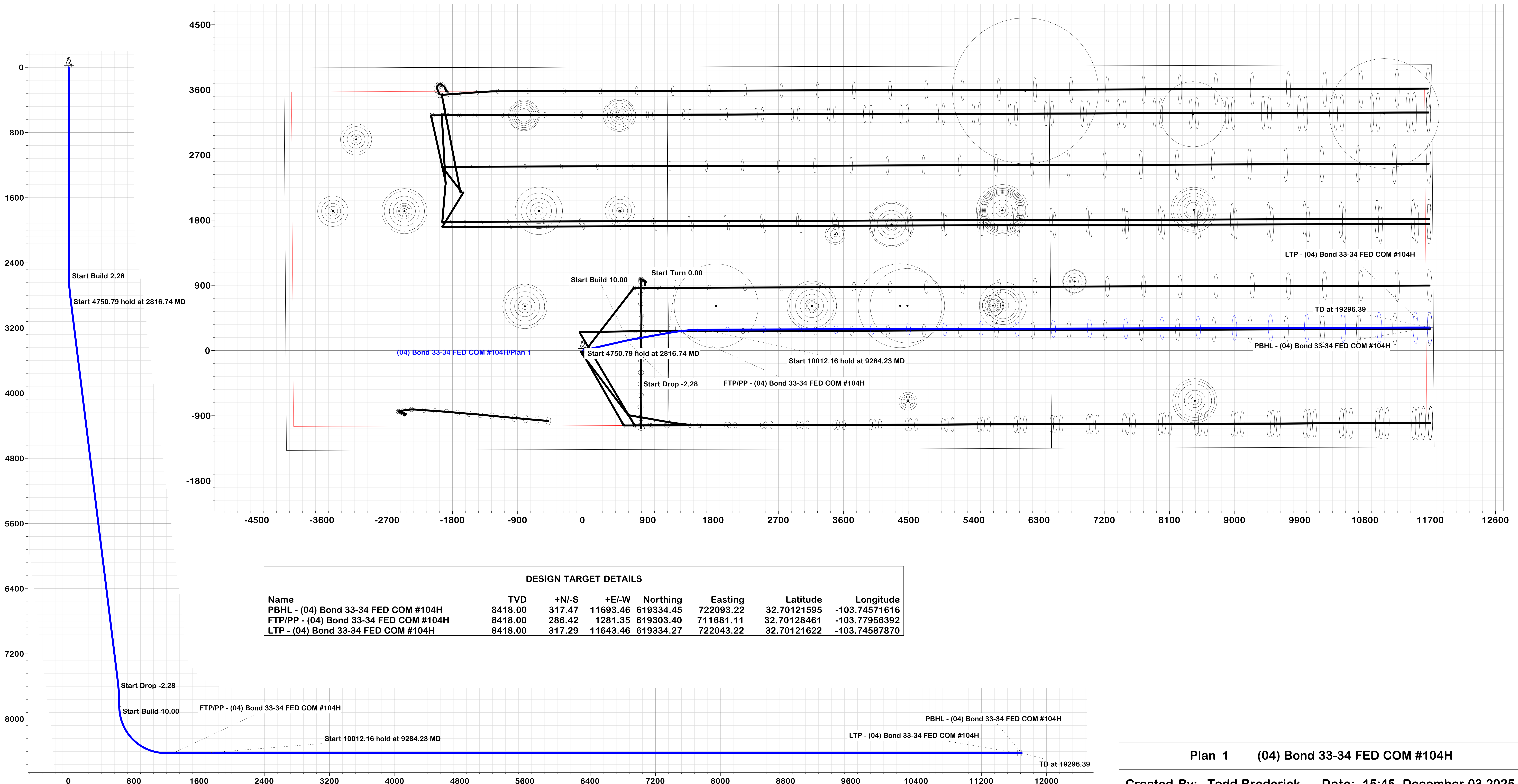
Magnetic Field
Strength: 47225.6nT
Dip Angle: 60.14°
Date: 12/2/2025
Model: IGRF2025



PBEX
Site: Bond South Pad - Phase 2
Well: (04) Bond 33-34 FED COM #104H
Wellbore: #104H
Plan: Plan 1

WELL DETAILS: (04) Bond 33-34 FED COM #104H					
		Northing	Easting	Latitude	Longitude
0.00	0.00	619016.98	710399.76	32.70051569	-103.78373411

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	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.000	0.00
3	2816.74	7.21	77.15	2815.91	4.43	19.40	2.28	77.150	19.42
4	7567.53	7.21	77.15	7529.14	137.02	600.69	0.00	0.000	601.10
5	7884.27	0.00	79.83	7845.04	141.45	620.10	2.28	180.000	620.51
6	8784.27	90.00	79.83	8418.00	242.61	1184.05	10.00	0.000	1184.77
7	9284.23	90.00	89.83	8418.00	287.61	1681.34	2.00	90.000	1682.19
8	19296.39	90.00	89.83	8418.00	317.47	11693.46	0.00	0.000	11694.35



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - (04) Bond 33-34 FED COM #104H	8418.00	317.47	11693.46	619334.45	722093.22	32.70121595	-103.74571616
FTP/PP - (04) Bond 33-34 FED COM #104H	8418.00	286.42	1281.35	619303.40	711681.11	32.70128461	-103.77956392
LTP - (04) Bond 33-34 FED COM #104H	8418.00	317.29	11643.46	619334.27	722043.22	32.70121622	-103.74587870

Plan 1 (04) Bond 33-34 FED COM #104H
Created By: Todd Broderick Date: 15:45, December 03 2025

Vertical Section at 89.83° (400 usft/in)



PBEX

Lea County, NM (N83 - NME)

Bond South Pad - Phase 2

(04) Bond 33-34 FED COM #104H

TBD

#104H

Plan 1

Anticollision Report

03 December, 2025

DIXON



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	19,296.39	Plan 1 (#104H)	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	19,268.62	22,748.97	1,706.83	1,264.95	3.863	CC
(01) Bond 32-34 FED COM 205H - 205H - Plan 2	19,296.39	22,771.47	1,706.84	1,264.05	3.855	ES, SF
(02) Bond 32-34 FED COM 301H - 301H - Plan 2						Out of range
(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	19,290.91	21,818.82	1,500.02	989.35	2.937	CC
(03) Bond 32-34 FED COM #103H - #103H - Plan 1	19,296.39	21,818.82	1,500.03	989.25	2.937	ES, SF
Bond Pad Offsets						
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)						Out of range
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	8,530.54	8,341.17	795.68	750.23	17.505	CC, ES
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	8,800.00	8,390.62	837.52	788.19	16.978	SF
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)	8,300.00	11,190.00	2,038.68	1,973.74	31.397	CC, ES
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)	8,400.00	11,190.00	2,052.76	1,986.37	30.917	SF
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	14,392.62	7,225.00	1,354.68	1,194.49	8.457	CC
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	14,400.00	7,225.00	1,354.69	1,194.47	8.455	ES
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	14,800.00	7,225.00	1,414.41	1,245.56	8.377	SF
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	13,400.44	8,419.28	1,635.04	1,298.72	4.862	CC, ES
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	13,500.00	8,419.28	1,638.06	1,299.79	4.842	SF
(W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)	13,403.56	8,408.84	322.63	-5.10	0.984	Level 3, CC, ES, SF
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	16,049.54	8,417.66	1,000.05	642.20	2.795	CC, ES
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	16,100.00	8,417.66	1,001.33	642.75	2.792	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)	8,401.93	8,307.63	1,780.22	1,587.54	9.239	CC
(W12) HULKSTER 005 - 39572 - (Inc Only)	8,500.00	8,364.79	1,782.10	1,587.40	9.153	ES
(W12) HULKSTER 005 - 39572 - (Inc Only)	8,700.00	8,431.37	1,800.86	1,602.40	9.074	SF
(W13) KEELA FEDERAL 002 - 33339 - (Inc Only)						Out of range
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	11,868.41	8,419.65	1,445.15	1,179.04	5.431	CC
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	11,900.00	8,419.65	1,445.50	1,178.73	5.419	ES
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	12,000.00	8,419.65	1,451.13	1,182.51	5.402	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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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						
(W15) KEELA FEDERAL 004 - 33499 - (Inc Only)						Out of range
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	2,500.00	2,500.06	1,005.30	943.65	16.308	CC
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	2,600.00	2,600.03	1,006.57	942.75	15.772	ES
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	8,000.00	7,960.97	1,505.03	1,309.39	7.693	SF
(W17) MAX STATE 001 - 26754 - (Inc Only)	2,500.00	2,492.22	2,022.15	1,956.30	30.708	CC
(W17) MAX STATE 001 - 26754 - (Inc Only)	4,100.00	4,081.75	2,044.69	1,938.46	19.247	ES
(W17) MAX STATE 001 - 26754 - (Inc Only)	4,900.00	4,875.57	2,063.95	1,939.37	16.568	SF
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	16,040.59	8,429.36	1,635.60	1,267.07	4.438	CC
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	16,100.00	8,429.36	1,636.68	1,266.95	4.427	ES
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	16,200.00	8,429.36	1,643.35	1,272.08	4.426	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)	10,765.78	8,416.44	327.22	67.37	1.259	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)	5,600.00	5,482.00	1,574.94	978.44	2.640	SF
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,700.00	5,482.00	1,569.70	975.45	2.641	ES
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,732.43	5,482.00	1,569.36	976.36	2.646	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	8,243.20	8,266.09	105.72	77.14	3.700	CC, ES
(01) Bond 32-34 FED COM 207H - 207H - Plan 2	8,300.00	8,310.38	111.53	80.01	3.539	SF
(02) Bond 32-34 FED COM 211H - 211H - Plan 2	3,222.51	3,250.83	23.71	8.32	1.541	Level 3, CC, ES, SF
Bond South Pad - Phase 2						
(01) Bond 33-34 FED COM #306H - #306H - Plan 1	2,000.00	1,998.20	60.56	49.44	5.449	CC, ES
(01) Bond 33-34 FED COM #306H - #306H - Plan 1	2,100.00	2,096.27	62.09	50.63	5.415	SF
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	2,325.76	2,326.49	29.38	17.29	2.431	CC, ES, SF
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	1,939.97	1,939.39	19.99	9.08	1.832	Level 3, CC
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	2,000.00	1,999.39	20.10	9.01	1.813	Level 3, 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	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
8,100.00	8,055.71	11,742.44	9,360.00	25.82	55.27	-98.217	1,715.18	655.02	2,032.05	1,968.73	63.33	32.088
8,200.00	8,145.03	11,786.43	9,360.00	26.38	56.11	-104.609	1,715.31	699.02	1,970.22	1,905.27	64.95	30.332
8,300.00	8,225.24	11,845.04	9,360.00	26.91	57.24	-109.667	1,715.48	757.62	1,913.85	1,847.02	66.83	28.639
8,400.00	8,293.90	11,916.47	9,360.00	27.39	58.62	-113.619	1,715.69	829.05	1,863.93	1,795.00	68.93	27.039
8,500.00	8,348.91	11,998.55	9,360.00	27.78	60.22	-116.726	1,715.93	911.13	1,821.21	1,749.95	71.26	25.557
8,600.00	8,388.62	12,088.80	9,360.00	28.07	61.97	-119.219	1,716.20	1,001.38	1,786.26	1,712.50	73.76	24.217
8,700.00	8,411.81	12,184.47	9,360.00	28.25	63.84	-121.261	1,716.48	1,097.05	1,759.59	1,683.23	76.35	23.046
8,800.00	8,418.00	12,282.66	9,360.00	28.31	65.77	-122.719	1,716.76	1,195.24	1,741.68	1,662.77	78.90	22.073
8,900.00	8,418.00	12,381.50	9,360.00	28.34	67.72	-122.849	1,717.05	1,294.08	1,728.94	1,647.42	81.52	21.208
9,000.00	8,418.00	12,480.82	9,360.00	28.37	69.68	-122.952	1,717.34	1,393.40	1,719.14	1,634.87	84.27	20.401
9,025.19	8,418.00	12,505.90	9,360.00	28.38	70.17	-122.974	1,717.42	1,418.48	1,717.13	1,632.15	84.98	20.205

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
9,100.00	8,418.00	12,580.48	9,360.00	28.42	71.65	-123.026	1,717.64	1,493.06	1,712.28	1,625.15	87.13	19.652	
9,123.63	8,418.00	12,604.07	9,360.00	28.44	72.12	-123.039	1,717.70	1,516.65	1,711.08	1,623.26	87.83	19.482	
9,200.00	8,418.00	12,680.36	9,360.00	28.53	73.63	-123.068	1,717.93	1,592.94	1,708.35	1,618.24	90.10	18.960	
9,272.57	8,418.00	12,752.92	9,360.00	28.71	75.08	-123.083	1,718.14	1,665.50	1,707.20	1,614.88	92.32	18.493	
9,300.00	8,418.00	12,780.35	9,360.00	28.82	75.62	-123.080	1,718.22	1,692.93	1,707.30	1,614.14	93.16	18.326	
9,321.14	8,418.00	12,801.49	9,360.00	28.94	76.04	-123.080	1,718.28	1,714.06	1,707.30	1,613.48	93.82	18.197	
9,400.00	8,418.00	12,880.35	9,360.00	29.64	77.62	-123.080	1,718.51	1,792.93	1,707.30	1,611.01	96.29	17.731	
9,421.14	8,418.00	12,901.49	9,360.00	29.91	78.04	-123.080	1,718.57	1,814.06	1,707.30	1,610.34	96.96	17.608	
9,500.00	8,418.00	12,980.35	9,360.00	31.07	79.61	-123.080	1,718.81	1,892.93	1,707.29	1,607.83	99.47	17.165	
9,521.14	8,418.00	13,001.49	9,360.00	31.42	80.04	-123.080	1,718.87	1,914.06	1,707.29	1,607.15	100.14	17.048	
9,600.00	8,418.00	13,080.35	9,360.00	32.77	81.62	-123.080	1,719.10	1,992.93	1,707.29	1,604.61	102.68	16.627	
9,621.14	8,418.00	13,101.49	9,360.00	33.14	82.04	-123.080	1,719.16	2,014.06	1,707.29	1,603.92	103.37	16.517	
9,700.00	8,418.00	13,180.35	9,360.00	34.55	83.62	-123.080	1,719.39	2,092.93	1,707.28	1,601.35	105.93	16.117	
9,721.14	8,418.00	13,201.49	9,360.00	34.94	84.04	-123.080	1,719.45	2,114.06	1,707.28	1,600.66	106.62	16.013	
9,800.00	8,418.00	13,280.35	9,360.00	36.39	85.63	-123.080	1,719.68	2,192.93	1,707.28	1,598.07	109.21	15.633	
9,821.14	8,418.00	13,301.49	9,360.00	36.79	86.05	-123.080	1,719.75	2,214.06	1,707.28	1,597.37	109.91	15.534	
9,900.00	8,418.00	13,380.35	9,360.00	38.27	87.64	-123.081	1,719.98	2,292.93	1,707.27	1,594.76	112.51	15.174	
9,921.14	8,418.00	13,401.49	9,360.00	38.67	88.07	-123.081	1,720.04	2,314.06	1,707.27	1,594.06	113.21	15.080	
10,000.00	8,418.00	13,480.35	9,360.00	40.16	89.65	-123.081	1,720.27	2,392.93	1,707.27	1,591.43	115.84	14.738	
10,021.14	8,418.00	13,501.49	9,360.00	40.57	90.08	-123.081	1,720.33	2,414.06	1,707.27	1,590.72	116.55	14.649	
10,100.00	8,418.00	13,580.35	9,360.00	42.08	91.67	-123.081	1,720.56	2,492.93	1,707.27	1,588.08	119.18	14.325	
10,121.14	8,418.00	13,601.49	9,360.00	42.49	92.10	-123.081	1,720.62	2,514.06	1,707.26	1,587.37	119.90	14.240	
10,200.00	8,418.00	13,680.35	9,360.00	44.01	93.69	-123.081	1,720.85	2,592.92	1,707.26	1,584.71	122.55	13.931	
10,221.14	8,418.00	13,701.49	9,360.00	44.42	94.11	-123.081	1,720.92	2,614.06	1,707.26	1,584.00	123.26	13.851	
10,300.00	8,418.00	13,780.35	9,360.00	45.96	95.71	-123.081	1,721.15	2,692.92	1,707.26	1,581.33	125.93	13.558	
10,321.14	8,418.00	13,801.49	9,360.00	46.37	96.14	-123.081	1,721.21	2,714.06	1,707.25	1,580.61	126.64	13.481	
10,400.00	8,418.00	13,880.35	9,360.00	47.91	97.73	-123.081	1,721.44	2,792.92	1,707.25	1,577.93	129.32	13.202	
10,421.14	8,418.00	13,901.49	9,360.00	48.33	98.16	-123.081	1,721.50	2,814.06	1,707.25	1,577.21	130.04	13.129	
10,500.00	8,418.00	13,980.35	9,360.00	49.88	99.76	-123.081	1,721.73	2,892.92	1,707.25	1,574.52	132.72	12.863	
10,521.14	8,418.00	14,001.49	9,360.00	50.29	100.18	-123.081	1,721.79	2,914.06	1,707.25	1,573.80	133.44	12.794	
10,600.00	8,418.00	14,080.35	9,360.00	51.85	101.78	-123.081	1,722.02	2,992.92	1,707.24	1,571.11	136.14	12.541	
10,621.14	8,418.00	14,101.49	9,360.00	52.27	102.21	-123.081	1,722.09	3,014.06	1,707.24	1,570.38	136.86	12.474	
10,700.00	8,418.00	14,180.35	9,360.00	53.83	103.81	-123.081	1,722.32	3,092.92	1,707.24	1,567.68	139.56	12.233	
10,721.14	8,418.00	14,201.49	9,360.00	54.25	104.24	-123.081	1,722.38	3,114.06	1,707.24	1,566.95	140.29	12.170	
10,800.00	8,418.00	14,280.35	9,360.00	55.82	105.84	-123.081	1,722.61	3,192.92	1,707.23	1,564.24	142.99	11.939	
10,821.14	8,418.00	14,301.49	9,360.00	56.24	106.27	-123.081	1,722.67	3,214.06	1,707.23	1,563.51	143.72	11.879	
10,900.00	8,418.00	14,380.35	9,360.00	57.81	107.87	-123.082	1,722.90	3,292.92	1,707.23	1,560.79	146.44	11.659	
10,921.14	8,418.00	14,401.49	9,360.00	58.23	108.30	-123.082	1,722.96	3,314.06	1,707.23	1,560.06	147.16	11.601	
11,000.00	8,418.00	14,480.35	9,360.00	59.81	109.91	-123.082	1,723.19	3,392.92	1,707.22	1,557.34	149.88	11.390	
11,021.14	8,418.00	14,501.49	9,360.00	60.23	110.34	-123.082	1,723.26	3,414.06	1,707.22	1,556.61	150.61	11.335	
11,100.00	8,418.00	14,580.35	9,360.00	61.81	111.94	-123.082	1,723.49	3,492.92	1,707.22	1,553.88	153.34	11.134	
11,121.14	8,418.00	14,601.49	9,360.00	62.24	112.37	-123.082	1,723.55	3,514.06	1,707.22	1,553.15	154.07	11.081	
11,200.00	8,418.00	14,680.35	9,360.00	63.82	113.98	-123.082	1,723.78	3,592.92	1,707.21	1,550.41	156.80	10.888	
11,221.14	8,418.00	14,701.49	9,360.00	64.24	114.41	-123.082	1,723.84	3,614.06	1,707.21	1,549.68	157.53	10.837	
11,300.00	8,418.00	14,780.35	9,360.00	65.83	116.01	-123.082	1,724.07	3,692.92	1,707.21	1,546.94	160.27	10.652	
11,321.14	8,418.00	14,801.49	9,360.00	66.26	116.44	-123.082	1,724.13	3,714.05	1,707.21	1,546.21	161.00	10.604	
11,400.00	8,418.00	14,880.35	9,360.00	67.85	118.05	-123.082	1,724.36	3,792.92	1,707.20	1,543.47	163.74	10.426	
11,421.14	8,418.00	14,901.49	9,360.00	68.27	118.48	-123.082	1,724.43	3,814.05	1,707.20	1,542.73	164.47	10.380	
11,500.00	8,418.00	14,980.35	9,360.00	69.86	120.09	-123.082	1,724.66	3,892.92	1,707.20	1,539.98	167.21	10.210	
11,521.14	8,418.00	15,001.49	9,360.00	70.29	120.52	-123.082	1,724.72	3,914.05	1,707.20	1,539.25	167.95	10.165	
11,600.00	8,418.00	15,080.35	9,360.00	71.88	122.13	-123.082	1,724.95	3,992.92	1,707.19	1,536.50	170.70	10.001	
11,621.14	8,418.00	15,101.49	9,360.00	72.31	122.56	-123.082	1,725.01	4,014.05	1,707.19	1,535.76	171.43	9.958	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
11,700.00	8,418.00	15,180.35	9,360.00	73.91	124.17	-123.082	1,725.24	4,092.92	1,707.19	1,533.01	174.18	9.801	
11,721.14	8,418.00	15,201.49	9,360.00	74.34	124.60	-123.082	1,725.30	4,114.05	1,707.19	1,532.27	174.92	9.760	
11,800.00	8,418.00	15,280.35	9,360.00	75.93	126.21	-123.082	1,725.53	4,192.92	1,707.18	1,529.52	177.67	9.609	
11,821.14	8,418.00	15,301.49	9,360.00	76.36	126.64	-123.083	1,725.60	4,214.05	1,707.18	1,528.78	178.41	9.569	
11,900.00	8,418.00	15,380.35	9,360.00	77.96	128.26	-123.083	1,725.83	4,292.92	1,707.18	1,526.02	181.16	9.424	
11,921.14	8,418.00	15,401.49	9,360.00	78.39	128.69	-123.083	1,725.89	4,314.05	1,707.18	1,525.28	181.90	9.385	
12,000.00	8,418.00	15,480.35	9,360.00	79.99	130.30	-123.083	1,726.12	4,392.92	1,707.18	1,522.52	184.66	9.245	
12,021.14	8,418.00	15,501.49	9,360.00	80.42	130.73	-123.083	1,726.18	4,414.05	1,707.17	1,521.78	185.40	9.208	
12,100.00	8,418.00	15,580.35	9,360.00	82.02	132.34	-123.083	1,726.41	4,492.92	1,707.17	1,519.02	188.15	9.073	
12,121.14	8,418.00	15,601.49	9,360.00	82.45	132.78	-123.083	1,726.47	4,514.05	1,707.17	1,518.28	188.89	9.038	
12,200.00	8,418.00	15,680.35	9,360.00	84.06	134.39	-123.083	1,726.70	4,592.92	1,707.17	1,515.51	191.66	8.907	
12,221.14	8,418.00	15,701.49	9,360.00	84.49	134.82	-123.083	1,726.77	4,614.05	1,707.16	1,514.77	192.40	8.873	
12,300.00	8,418.00	15,780.35	9,360.00	86.09	136.44	-123.083	1,727.00	4,692.92	1,707.16	1,512.00	195.16	8.748	
12,321.14	8,418.00	15,801.49	9,360.00	86.53	136.87	-123.083	1,727.06	4,714.05	1,707.16	1,511.26	195.90	8.714	
12,400.00	8,418.00	15,880.35	9,360.00	88.13	138.48	-123.083	1,727.29	4,792.92	1,707.16	1,508.49	198.67	8.593	
12,421.14	8,418.00	15,901.49	9,360.00	88.56	138.91	-123.083	1,727.35	4,814.05	1,707.16	1,507.75	199.41	8.561	
12,500.00	8,418.00	15,980.35	9,360.00	90.17	140.53	-123.083	1,727.58	4,892.91	1,707.15	1,504.98	202.17	8.444	
12,521.14	8,418.00	16,001.49	9,360.00	90.60	140.96	-123.083	1,727.64	4,914.05	1,707.15	1,504.23	202.92	8.413	
12,600.00	8,418.00	16,080.35	9,360.00	92.21	142.58	-123.083	1,727.87	4,992.91	1,707.15	1,501.46	205.68	8.300	
12,621.14	8,418.00	16,101.49	9,360.00	92.64	143.01	-123.083	1,727.94	5,014.05	1,707.15	1,500.72	206.43	8.270	
12,700.00	8,418.00	16,180.35	9,360.00	94.25	144.63	-123.083	1,728.17	5,092.91	1,707.14	1,497.94	209.20	8.160	
12,721.14	8,418.00	16,201.49	9,360.00	94.68	145.06	-123.083	1,728.23	5,114.05	1,707.14	1,497.20	209.94	8.132	
12,800.00	8,418.00	16,280.35	9,360.00	96.30	146.68	-123.084	1,728.46	5,192.91	1,707.14	1,494.42	212.71	8.026	
12,821.14	8,418.00	16,301.49	9,360.00	96.73	147.11	-123.084	1,728.52	5,214.05	1,707.14	1,493.68	213.46	7.998	
12,900.00	8,418.00	16,380.35	9,360.00	98.34	148.73	-123.084	1,728.75	5,292.91	1,707.13	1,490.90	216.23	7.895	
12,921.14	8,418.00	16,401.49	9,360.00	98.77	149.16	-123.084	1,728.81	5,314.05	1,707.13	1,490.16	216.97	7.868	
13,000.00	8,418.00	16,480.35	9,360.00	100.38	150.78	-123.084	1,729.05	5,392.91	1,707.13	1,487.38	219.75	7.769	
13,021.14	8,418.00	16,501.49	9,360.00	100.82	151.21	-123.084	1,729.11	5,414.05	1,707.13	1,486.64	220.49	7.742	
13,100.00	8,418.00	16,580.35	9,360.00	102.43	152.83	-123.084	1,729.34	5,492.91	1,707.12	1,483.86	223.27	7.646	
13,121.14	8,418.00	16,601.49	9,360.00	102.86	153.26	-123.084	1,729.40	5,514.05	1,707.12	1,483.11	224.01	7.621	
13,200.00	8,418.00	16,680.35	9,360.00	104.48	154.88	-123.084	1,729.63	5,592.91	1,707.12	1,480.33	226.79	7.527	
13,221.14	8,418.00	16,701.49	9,360.00	104.91	155.31	-123.084	1,729.69	5,614.05	1,707.12	1,479.58	227.53	7.503	
13,300.00	8,418.00	16,780.35	9,360.00	106.52	156.93	-123.084	1,729.92	5,692.91	1,707.11	1,476.80	230.31	7.412	
13,321.14	8,418.00	16,801.49	9,360.00	106.96	157.36	-123.084	1,729.98	5,714.05	1,707.11	1,476.06	231.06	7.388	
13,400.00	8,418.00	16,880.35	9,360.00	108.57	158.98	-123.084	1,730.22	5,792.91	1,707.11	1,473.27	233.84	7.300	
13,421.14	8,418.00	16,901.49	9,360.00	109.01	159.42	-123.084	1,730.28	5,814.05	1,707.11	1,472.53	234.58	7.277	
13,500.00	8,418.00	16,980.35	9,360.00	110.62	161.04	-123.084	1,730.51	5,892.91	1,707.10	1,469.74	237.36	7.192	
13,521.14	8,418.00	17,001.49	9,360.00	111.06	161.47	-123.084	1,730.57	5,914.05	1,707.10	1,469.00	238.11	7.169	
13,600.00	8,418.00	17,080.35	9,360.00	112.67	163.09	-123.084	1,730.80	5,992.91	1,707.10	1,466.21	240.89	7.087	
13,621.14	8,418.00	17,101.49	9,360.00	113.11	163.52	-123.084	1,730.86	6,014.04	1,707.10	1,465.46	241.64	7.065	
13,700.00	8,418.00	17,180.35	9,360.00	114.72	165.14	-123.084	1,731.09	6,092.91	1,707.09	1,462.68	244.42	6.984	
13,721.14	8,418.00	17,201.49	9,360.00	115.16	165.58	-123.084	1,731.15	6,114.04	1,707.09	1,461.93	245.16	6.963	
13,800.00	8,418.00	17,280.35	9,360.00	116.77	167.20	-123.085	1,731.39	6,192.91	1,707.09	1,459.14	247.95	6.885	
13,821.14	8,418.00	17,301.49	9,360.00	117.21	167.63	-123.085	1,731.45	6,214.04	1,707.09	1,458.40	248.69	6.864	
13,900.00	8,418.00	17,380.35	9,360.00	118.83	169.25	-123.085	1,731.68	6,292.91	1,707.09	1,455.61	251.48	6.788	
13,921.14	8,418.00	17,401.49	9,360.00	119.26	169.69	-123.085	1,731.74	6,314.04	1,707.08	1,454.86	252.22	6.768	
14,000.00	8,418.00	17,480.35	9,360.00	120.88	171.31	-123.085	1,731.97	6,392.91	1,707.08	1,452.07	255.01	6.694	
14,021.14	8,418.00	17,501.49	9,360.00	121.31	171.74	-123.085	1,732.03	6,414.04	1,707.08	1,451.32	255.76	6.675	
14,100.00	8,418.00	17,580.35	9,360.00	122.93	173.36	-123.085	1,732.26	6,492.91	1,707.08	1,448.53	258.54	6.603	
14,121.14	8,418.00	17,601.49	9,360.00	123.37	173.80	-123.085	1,732.33	6,514.04	1,707.07	1,447.79	259.29	6.584	
14,200.00	8,418.00	17,680.35	9,360.00	124.99	175.42	-123.085	1,732.56	6,592.91	1,707.07	1,445.00	262.08	6.514	
14,221.14	8,418.00	17,701.49	9,360.00	125.42	175.85	-123.085	1,732.62	6,614.04	1,707.07	1,444.25	262.82	6.495	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
14,300.00	8,418.00	17,780.35	9,360.00	127.04	177.47	-123.085	1,732.85	6,692.91	1,707.07	1,441.46	265.61	6.427	
14,321.14	8,418.00	17,801.49	9,360.00	127.47	177.91	-123.085	1,732.91	6,714.04	1,707.07	1,440.71	266.36	6.409	
14,400.00	8,418.00	17,880.35	9,360.00	129.10	179.53	-123.085	1,733.14	6,792.91	1,707.06	1,437.92	269.15	6.343	
14,421.14	8,418.00	17,901.49	9,360.00	129.53	179.97	-123.085	1,733.20	6,814.04	1,707.06	1,437.17	269.89	6.325	
14,500.00	8,418.00	17,980.35	9,360.00	131.15	181.59	-123.085	1,733.43	6,892.91	1,707.06	1,434.38	272.68	6.260	
14,521.14	8,418.00	18,001.49	9,360.00	131.59	182.02	-123.085	1,733.50	6,914.04	1,707.06	1,433.63	273.43	6.243	
14,600.00	8,418.00	18,080.35	9,360.00	133.21	183.64	-123.085	1,733.73	6,992.91	1,707.05	1,430.83	276.22	6.180	
14,621.14	8,418.00	18,101.49	9,360.00	133.64	184.08	-123.085	1,733.79	7,014.04	1,707.05	1,430.08	276.97	6.163	
14,700.00	8,418.00	18,180.35	9,360.00	135.26	185.70	-123.085	1,734.02	7,092.91	1,707.05	1,427.29	279.76	6.102	
14,721.14	8,418.00	18,201.49	9,360.00	135.70	186.14	-123.086	1,734.08	7,114.04	1,707.05	1,426.54	280.50	6.086	
14,800.00	8,418.00	18,280.35	9,360.00	137.32	187.76	-123.086	1,734.31	7,192.91	1,707.04	1,423.75	283.30	6.026	
14,821.14	8,418.00	18,301.49	9,360.00	137.75	188.19	-123.086	1,734.37	7,214.04	1,707.04	1,423.00	284.04	6.010	
14,900.00	8,418.00	18,380.35	9,360.00	139.38	189.82	-123.086	1,734.60	7,292.90	1,707.04	1,420.20	286.83	5.951	
14,921.14	8,418.00	18,401.49	9,360.00	139.81	190.25	-123.086	1,734.67	7,314.04	1,707.04	1,419.45	287.58	5.936	
15,000.00	8,418.00	18,480.35	9,360.00	141.43	191.88	-123.086	1,734.90	7,392.90	1,707.03	1,416.66	290.37	5.879	
15,021.14	8,418.00	18,501.49	9,360.00	141.87	192.31	-123.086	1,734.96	7,414.04	1,707.03	1,415.91	291.12	5.864	
15,100.00	8,418.00	18,580.35	9,360.00	143.49	193.93	-123.086	1,735.19	7,492.90	1,707.03	1,413.11	293.91	5.808	
15,121.14	8,418.00	18,601.49	9,360.00	143.93	194.37	-123.086	1,735.25	7,514.04	1,707.03	1,412.36	294.66	5.793	
15,200.00	8,418.00	18,680.35	9,360.00	145.55	195.99	-123.086	1,735.48	7,592.90	1,707.02	1,409.57	297.46	5.739	
15,221.14	8,418.00	18,701.49	9,360.00	145.98	196.43	-123.086	1,735.54	7,614.04	1,707.02	1,408.82	298.20	5.724	
15,300.00	8,418.00	18,780.35	9,360.00	147.61	198.05	-123.086	1,735.77	7,692.90	1,707.02	1,406.02	301.00	5.671	
15,321.14	8,418.00	18,801.49	9,360.00	148.04	198.49	-123.086	1,735.84	7,714.04	1,707.02	1,405.27	301.75	5.657	
15,400.00	8,418.00	18,880.35	9,360.00	149.67	200.11	-123.086	1,736.07	7,792.90	1,707.01	1,402.47	304.54	5.605	
15,421.14	8,418.00	18,901.49	9,360.00	150.10	200.54	-123.086	1,736.13	7,814.04	1,707.01	1,401.72	305.29	5.591	
15,500.00	8,418.00	18,980.35	9,360.00	151.72	202.17	-123.086	1,736.36	7,892.90	1,707.01	1,398.93	308.08	5.541	
15,521.14	8,418.00	19,001.49	9,360.00	152.16	202.60	-123.086	1,736.42	7,914.04	1,707.01	1,398.18	308.83	5.527	
15,600.00	8,418.00	19,080.35	9,360.00	153.78	204.23	-123.086	1,736.65	7,992.90	1,707.00	1,395.38	311.63	5.478	
15,621.14	8,418.00	19,101.49	9,360.00	154.22	204.66	-123.086	1,736.71	8,014.04	1,707.00	1,394.63	312.38	5.465	
15,700.00	8,418.00	19,180.35	9,360.00	155.84	206.29	-123.087	1,736.94	8,092.90	1,707.00	1,391.83	315.17	5.416	
15,721.14	8,418.00	19,201.49	9,360.00	156.28	206.72	-123.087	1,737.01	8,114.04	1,707.00	1,391.08	315.92	5.403	
15,800.00	8,418.00	19,280.35	9,360.00	157.90	208.35	-123.087	1,737.24	8,192.90	1,707.00	1,388.28	318.72	5.356	
15,821.14	8,418.00	19,301.49	9,360.00	158.34	208.78	-123.087	1,737.30	8,214.04	1,706.99	1,387.53	319.46	5.343	
15,900.00	8,418.00	19,380.35	9,360.00	159.96	210.41	-123.087	1,737.53	8,292.90	1,706.99	1,384.73	322.26	5.297	
15,921.14	8,418.00	19,401.49	9,360.00	160.40	210.84	-123.087	1,737.59	8,314.04	1,706.99	1,383.98	323.01	5.285	
16,000.00	8,418.00	19,480.35	9,360.00	162.02	212.47	-123.087	1,737.82	8,392.90	1,706.99	1,381.18	325.81	5.239	
16,021.14	8,418.00	19,501.49	9,360.00	162.46	212.90	-123.087	1,737.88	8,414.03	1,706.98	1,380.43	326.56	5.227	
16,100.00	8,418.00	19,580.35	9,360.00	164.08	214.53	-123.087	1,738.11	8,492.90	1,706.98	1,377.63	329.35	5.183	
16,121.14	8,418.00	19,601.49	9,360.00	164.52	214.96	-123.087	1,738.18	8,514.03	1,706.98	1,376.88	330.10	5.171	
16,200.00	8,418.00	19,680.35	9,360.00	166.14	216.59	-123.087	1,738.41	8,592.90	1,706.98	1,374.08	332.90	5.128	
16,221.14	8,418.00	19,701.49	9,360.00	166.58	217.02	-123.087	1,738.47	8,614.03	1,706.98	1,373.33	333.65	5.116	
16,300.00	8,418.00	19,780.35	9,360.00	168.20	218.65	-123.087	1,738.70	8,692.90	1,706.97	1,370.53	336.45	5.074	
16,321.14	8,418.00	19,801.49	9,360.00	168.64	219.09	-123.087	1,738.76	8,714.03	1,706.97	1,369.78	337.20	5.062	
16,400.00	8,418.00	19,880.35	9,360.00	170.27	220.71	-123.087	1,738.99	8,792.90	1,706.97	1,366.97	339.99	5.021	
16,421.14	8,418.00	19,901.49	9,360.00	170.70	221.15	-123.087	1,739.05	8,814.03	1,706.97	1,366.22	340.74	5.010	
16,500.00	8,418.00	19,980.35	9,360.00	172.33	222.77	-123.087	1,739.28	8,892.90	1,706.96	1,363.42	343.54	4.969	
16,521.14	8,418.00	20,001.49	9,360.00	172.76	223.21	-123.087	1,739.35	8,914.03	1,706.96	1,362.67	344.29	4.958	
16,600.00	8,418.00	20,080.35	9,360.00	174.39	224.83	-123.087	1,739.58	8,992.90	1,706.96	1,359.87	347.09	4.918	
16,621.14	8,418.00	20,101.49	9,360.00	174.82	225.27	-123.087	1,739.64	9,014.03	1,706.96	1,359.12	347.84	4.907	
16,700.00	8,418.00	20,180.35	9,360.00	176.45	226.89	-123.088	1,739.87	9,092.90	1,706.95	1,356.32	350.64	4.868	
16,721.14	8,418.00	20,201.49	9,360.00	176.89	227.33	-123.088	1,739.93	9,114.03	1,706.95	1,355.56	351.39	4.858	
16,800.00	8,418.00	20,280.35	9,360.00	178.51	228.96	-123.088	1,740.16	9,192.90	1,706.95	1,352.76	354.19	4.819	
16,821.14	8,418.00	20,301.49	9,360.00	178.95	229.39	-123.088	1,740.22	9,214.03	1,706.95	1,352.01	354.94	4.809	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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)		
16,900.00	8,418.00	20,380.35	9,360.00	180.57	231.02	-123.088	1,740.45	9,292.90	1,706.94	1,349.21	357.73	4.772	
16,921.14	8,418.00	20,401.49	9,360.00	181.01	231.45	-123.088	1,740.52	9,314.03	1,706.94	1,348.46	358.48	4.762	
17,000.00	8,418.00	20,480.35	9,360.00	182.64	233.08	-123.088	1,740.75	9,392.90	1,706.94	1,345.65	361.28	4.725	
17,021.14	8,418.00	20,501.49	9,360.00	183.07	233.52	-123.088	1,740.81	9,414.03	1,706.94	1,344.90	362.03	4.715	
17,100.00	8,418.00	20,580.35	9,360.00	184.70	235.14	-123.088	1,741.04	9,492.90	1,706.93	1,342.10	364.83	4.679	
17,121.14	8,418.00	20,601.49	9,360.00	185.14	235.58	-123.088	1,741.10	9,514.03	1,706.93	1,341.35	365.58	4.669	
17,200.00	8,418.00	20,680.35	9,360.00	186.76	237.20	-123.088	1,741.33	9,592.89	1,706.93	1,338.54	368.38	4.634	
17,221.14	8,418.00	20,701.49	9,360.00	187.20	237.64	-123.088	1,741.39	9,614.03	1,706.93	1,337.79	369.13	4.624	
17,300.00	8,418.00	20,780.35	9,360.00	188.82	239.27	-123.088	1,741.62	9,692.89	1,706.92	1,334.99	371.93	4.589	
17,321.14	8,418.00	20,801.49	9,360.00	189.26	239.70	-123.088	1,741.69	9,714.03	1,706.92	1,334.24	372.68	4.580	
17,400.00	8,418.00	20,880.35	9,360.00	190.89	241.33	-123.088	1,741.92	9,792.89	1,706.92	1,331.43	375.49	4.546	
17,421.14	8,418.00	20,901.49	9,360.00	191.32	241.76	-123.088	1,741.98	9,814.03	1,706.92	1,330.68	376.24	4.537	
17,500.00	8,418.00	20,980.35	9,360.00	192.95	243.39	-123.088	1,742.21	9,892.89	1,706.91	1,327.88	379.04	4.503	
17,521.14	8,418.00	21,001.49	9,360.00	193.39	243.83	-123.088	1,742.27	9,914.03	1,706.91	1,327.13	379.79	4.494	
17,600.00	8,418.00	21,080.35	9,360.00	195.01	245.45	-123.088	1,742.50	9,992.89	1,706.91	1,324.32	382.59	4.461	
17,621.14	8,418.00	21,101.49	9,360.00	195.45	245.89	-123.089	1,742.56	10,014.03	1,706.91	1,323.57	383.34	4.453	
17,700.00	8,418.00	21,180.35	9,360.00	197.08	247.52	-123.089	1,742.80	10,092.89	1,706.91	1,320.77	386.14	4.420	
17,721.14	8,418.00	21,201.49	9,360.00	197.51	247.95	-123.089	1,742.86	10,114.03	1,706.90	1,320.01	386.89	4.412	
17,800.00	8,418.00	21,280.35	9,360.00	199.14	249.58	-123.089	1,743.09	10,192.89	1,706.90	1,317.21	389.69	4.380	
17,821.14	8,418.00	21,301.49	9,360.00	199.58	250.02	-123.089	1,743.15	10,214.03	1,706.90	1,316.46	390.44	4.372	
17,900.00	8,418.00	21,380.35	9,360.00	201.20	251.64	-123.089	1,743.38	10,292.89	1,706.90	1,313.65	393.24	4.341	
17,921.14	8,418.00	21,401.49	9,360.00	201.64	252.08	-123.089	1,743.44	10,314.03	1,706.89	1,312.90	393.99	4.332	
18,000.00	8,418.00	21,480.35	9,360.00	203.27	253.71	-123.089	1,743.67	10,392.89	1,706.89	1,310.10	396.80	4.302	
18,021.14	8,418.00	21,501.49	9,360.00	203.70	254.14	-123.089	1,743.73	10,414.03	1,706.89	1,309.34	397.55	4.294	
18,100.00	8,418.00	21,580.35	9,360.00	205.33	255.77	-123.089	1,743.97	10,492.89	1,706.89	1,306.54	400.35	4.264	
18,121.14	8,418.00	21,601.49	9,360.00	205.77	256.21	-123.089	1,744.03	10,514.03	1,706.89	1,305.79	401.10	4.256	
18,200.00	8,418.00	21,680.35	9,360.00	207.40	257.83	-123.089	1,744.26	10,592.89	1,706.88	1,302.98	403.90	4.226	
18,221.14	8,418.00	21,701.49	9,360.00	207.83	258.27	-123.089	1,744.32	10,614.03	1,706.88	1,302.23	404.65	4.218	
18,300.00	8,418.00	21,780.35	9,360.00	209.46	259.90	-123.089	1,744.55	10,692.89	1,706.88	1,299.42	407.45	4.189	
18,321.14	8,418.00	21,801.49	9,360.00	209.90	260.33	-123.089	1,744.61	10,714.02	1,706.88	1,298.67	408.20	4.181	
18,400.00	8,418.00	21,880.35	9,360.00	211.52	261.96	-123.089	1,744.84	10,792.89	1,706.87	1,295.87	411.01	4.153	
18,421.14	8,418.00	21,901.49	9,360.00	211.96	262.40	-123.089	1,744.90	10,814.02	1,706.87	1,295.11	411.76	4.145	
18,500.00	8,418.00	21,980.35	9,360.00	213.59	264.02	-123.089	1,745.14	10,892.89	1,706.87	1,292.31	414.56	4.117	
18,521.14	8,418.00	22,001.49	9,360.00	214.02	264.46	-123.089	1,745.20	10,914.02	1,706.87	1,291.55	415.31	4.110	
18,600.00	8,418.00	22,080.35	9,360.00	215.65	266.09	-123.090	1,745.43	10,992.89	1,706.86	1,288.75	418.11	4.082	
18,621.14	8,418.00	22,101.49	9,360.00	216.09	266.52	-123.090	1,745.49	11,014.02	1,706.86	1,288.00	418.87	4.075	
18,700.00	8,418.00	22,180.35	9,360.00	217.72	268.15	-123.090	1,745.72	11,092.89	1,706.86	1,285.19	421.67	4.048	
18,721.14	8,418.00	22,201.49	9,360.00	218.15	268.59	-123.090	1,745.78	11,114.02	1,706.86	1,284.44	422.42	4.041	
18,800.00	8,418.00	22,280.35	9,360.00	219.78	270.22	-123.090	1,746.01	11,192.89	1,706.85	1,281.63	425.22	4.014	
18,821.14	8,418.00	22,301.49	9,360.00	220.22	270.65	-123.090	1,746.08	11,214.02	1,706.85	1,280.88	425.97	4.007	
18,900.00	8,418.00	22,380.35	9,360.00	221.85	272.28	-123.090	1,746.31	11,292.89	1,706.85	1,278.07	428.78	3.981	
18,921.14	8,418.00	22,401.49	9,360.00	222.28	272.72	-123.090	1,746.37	11,314.02	1,706.85	1,277.32	429.53	3.974	
19,000.00	8,418.00	22,480.35	9,360.00	223.91	274.34	-123.090	1,746.60	11,392.89	1,706.84	1,274.51	432.33	3.948	
19,021.14	8,418.00	22,501.49	9,360.00	224.35	274.78	-123.090	1,746.66	11,414.02	1,706.84	1,273.76	433.08	3.941	
19,100.00	8,418.00	22,580.35	9,360.00	225.98	276.41	-123.090	1,746.89	11,492.89	1,706.84	1,270.95	435.89	3.916	
19,121.14	8,418.00	22,601.49	9,360.00	226.41	276.84	-123.090	1,746.95	11,514.02	1,706.84	1,270.20	436.64	3.909	
19,200.00	8,418.00	22,680.35	9,360.00	228.04	278.47	-123.090	1,747.18	11,592.89	1,706.83	1,267.39	439.44	3.884	
19,268.62	8,418.00	22,748.97	9,360.00	229.46	279.89	-123.090	1,747.38	11,661.50	1,706.83	1,264.95	441.88	3.863 CC	
19,296.39	8,418.00	22,771.47	9,360.00	230.03	280.35	-123.090	1,747.45	11,684.00	1,706.84	1,264.05	442.78	3.855 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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	
7,300.00	7,263.72	10,698.35	8,418.00	22.67	54.94	-82.356	1,784.91	563.12	2,013.24	1,949.45	63.80	31.557	
7,400.00	7,362.93	10,710.59	8,418.00	23.08	55.17	-81.930	1,784.95	575.36	1,956.15	1,891.18	64.96	30.111	
7,500.00	7,462.14	10,722.83	8,418.00	23.48	55.40	-81.504	1,784.99	587.61	1,902.52	1,836.41	66.11	28.777	
7,600.00	7,561.37	10,734.88	8,418.00	23.87	55.63	-80.680	1,785.02	599.65	1,852.70	1,785.49	67.20	27.569	
7,700.00	7,660.93	10,743.94	8,418.00	24.28	55.80	-79.225	1,785.05	608.71	1,807.43	1,739.22	68.20	26.501	
7,800.00	7,760.78	10,749.14	8,418.00	24.65	55.90	-78.065	1,785.06	613.91	1,767.32	1,698.27	69.05	25.594	
7,900.00	7,860.77	10,750.73	8,418.00	24.82	55.93	-80.519	1,785.07	615.50	1,732.78	1,663.09	69.70	24.861	
8,000.00	7,959.98	10,761.99	8,418.00	25.28	56.14	-83.327	1,785.10	626.76	1,702.05	1,631.62	70.43	24.166	
8,100.00	8,055.71	10,790.04	8,418.00	25.82	56.66	-85.238	1,785.18	654.81	1,674.47	1,603.06	71.40	23.451	
8,200.00	8,145.03	10,834.04	8,418.00	26.38	57.49	-86.342	1,785.31	698.81	1,650.23	1,577.60	72.63	22.720	
8,300.00	8,225.24	10,892.64	8,418.00	26.91	58.60	-86.839	1,785.48	757.42	1,629.02	1,554.87	74.14	21.971	
8,400.00	8,293.90	10,964.07	8,418.00	27.39	59.96	-87.004	1,785.69	828.85	1,610.12	1,534.15	75.97	21.194	
8,500.00	8,348.91	11,046.16	8,418.00	27.78	61.52	-87.141	1,785.93	910.93	1,592.64	1,514.49	78.14	20.381	
8,600.00	8,388.62	11,136.41	8,418.00	28.07	63.25	-87.540	1,786.20	1,001.18	1,575.71	1,495.04	80.67	19.533	
8,700.00	8,411.81	11,232.07	8,418.00	28.25	65.09	-88.435	1,786.48	1,096.84	1,558.70	1,475.19	83.51	18.665	
8,800.00	8,418.00	11,330.26	8,418.00	28.31	66.99	-89.681	1,786.76	1,195.03	1,541.44	1,454.85	86.59	17.801	
8,900.00	8,418.00	11,429.11	8,418.00	28.34	68.91	-89.680	1,787.05	1,293.88	1,526.34	1,436.47	89.87	16.984	
9,000.00	8,418.00	11,528.42	8,418.00	28.37	70.84	-89.678	1,787.34	1,393.19	1,514.69	1,421.42	93.28	16.239	
9,100.00	8,418.00	11,628.09	8,418.00	28.42	72.79	-89.678	1,787.63	1,492.85	1,506.52	1,409.74	96.79	15.566	
9,200.00	8,418.00	11,727.97	8,418.00	28.53	74.75	-89.677	1,787.93	1,592.74	1,501.83	1,401.45	100.38	14.961	
9,299.61	8,418.00	11,827.57	8,418.00	28.82	76.71	-89.677	1,788.22	1,692.33	1,500.36	1,396.34	104.02	14.424	
9,300.00	8,418.00	11,827.96	8,418.00	28.82	76.72	-89.677	1,788.22	1,692.72	1,500.59	1,396.55	104.04	14.424	
9,400.00	8,418.00	11,927.96	8,418.00	29.64	78.69	-89.677	1,788.51	1,792.72	1,500.58	1,392.84	107.74	13.928	
9,429.66	8,418.00	11,957.62	8,418.00	30.02	79.28	-89.677	1,788.60	1,822.38	1,500.58	1,391.73	108.85	13.785	
9,500.00	8,418.00	12,027.96	8,418.00	31.07	80.67	-89.677	1,788.80	1,892.72	1,500.58	1,389.08	111.49	13.459	
9,529.66	8,418.00	12,057.62	8,418.00	31.56	81.25	-89.677	1,788.89	1,922.38	1,500.58	1,387.96	112.62	13.325	
9,600.00	8,418.00	12,127.96	8,418.00	32.77	82.65	-89.677	1,789.10	1,992.72	1,500.57	1,385.29	115.28	13.016	
9,629.66	8,418.00	12,157.62	8,418.00	33.29	83.24	-89.677	1,789.18	2,022.38	1,500.57	1,384.15	116.42	12.890	
9,700.00	8,418.00	12,227.96	8,418.00	34.55	84.63	-89.677	1,789.39	2,092.72	1,500.57	1,381.46	119.11	12.598	
9,729.66	8,418.00	12,257.62	8,418.00	35.10	85.22	-89.677	1,789.48	2,122.38	1,500.56	1,380.31	120.25	12.479	
9,800.00	8,418.00	12,327.96	8,418.00	36.39	86.62	-89.677	1,789.68	2,192.72	1,500.56	1,377.60	122.96	12.203	
9,829.66	8,418.00	12,357.62	8,418.00	36.95	87.21	-89.677	1,789.77	2,222.38	1,500.56	1,376.45	124.11	12.090	
9,900.00	8,418.00	12,427.96	8,418.00	38.27	88.62	-89.677	1,789.97	2,292.72	1,500.55	1,373.71	126.84	11.830	
9,929.66	8,418.00	12,457.62	8,418.00	38.83	89.21	-89.677	1,790.06	2,322.38	1,500.55	1,372.56	128.00	11.723	
10,000.00	8,418.00	12,527.96	8,418.00	40.16	90.61	-89.677	1,790.27	2,392.72	1,500.55	1,369.81	130.74	11.477	
10,029.66	8,418.00	12,557.62	8,418.00	40.73	91.21	-89.677	1,790.35	2,422.38	1,500.55	1,368.65	131.90	11.376	
10,100.00	8,418.00	12,627.96	8,418.00	42.08	92.61	-89.677	1,790.56	2,492.72	1,500.54	1,365.88	134.66	11.143	
10,129.66	8,418.00	12,657.62	8,418.00	42.65	93.21	-89.677	1,790.65	2,522.38	1,500.54	1,364.72	135.83	11.048	
10,200.00	8,418.00	12,727.96	8,418.00	44.01	94.62	-89.677	1,790.85	2,592.72	1,500.54	1,361.94	138.59	10.827	
10,229.66	8,418.00	12,757.62	8,418.00	44.59	95.21	-89.677	1,790.94	2,622.38	1,500.54	1,360.77	139.77	10.736	
10,300.00	8,418.00	12,827.96	8,418.00	45.96	96.62	-89.677	1,791.14	2,692.72	1,500.53	1,357.99	142.54	10.527	
10,329.66	8,418.00	12,857.62	8,418.00	46.54	97.22	-89.677	1,791.23	2,722.38	1,500.53	1,356.81	143.72	10.441	
10,400.00	8,418.00	12,927.96	8,418.00	47.91	98.63	-89.677	1,791.44	2,792.72	1,500.53	1,354.02	146.51	10.242	
10,429.66	8,418.00	12,957.62	8,418.00	48.49	99.23	-89.677	1,791.52	2,822.38	1,500.52	1,352.84	147.69	10.160	
10,500.00	8,418.00	13,027.96	8,418.00	49.88	100.64	-89.677	1,791.73	2,892.72	1,500.52	1,350.04	150.48	9.971	
10,529.66	8,418.00	13,057.62	8,418.00	50.46	101.24	-89.677	1,791.82	2,922.38	1,500.52	1,348.85	151.66	9.894	
10,600.00	8,418.00	13,127.96	8,418.00	51.85	102.65	-89.677	1,792.02	2,992.72	1,500.51	1,346.05	154.47	9.714	
10,629.66	8,418.00	13,157.62	8,418.00	52.44	103.25	-89.677	1,792.11	3,022.38	1,500.51	1,344.86	155.65	9.640	
10,700.00	8,418.00	13,227.96	8,418.00	53.83	104.67	-89.677	1,792.31	3,092.72	1,500.51	1,342.05	158.46	9.469	
10,729.66	8,418.00	13,257.62	8,418.00	54.42	105.27	-89.677	1,792.40	3,122.38	1,500.51	1,340.86	159.65	9.399	
10,800.00	8,418.00	13,327.96	8,418.00	55.82	106.69	-89.677	1,792.61	3,192.72	1,500.50	1,338.04	162.47	9.236	
10,829.66	8,418.00	13,357.62	8,418.00	56.41	107.29	-89.677	1,792.69	3,222.38	1,500.50	1,336.84	163.66	9.169	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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)		
10,900.00	8,418.00	13,427.96	8,418.00	57.81	108.71	-89.677	1,792.90	3,292.72	1,500.50	1,334.02	166.48	9.013	
10,929.66	8,418.00	13,457.62	8,418.00	58.40	109.31	-89.677	1,792.99	3,322.38	1,500.50	1,332.82	167.67	8.949	
11,000.00	8,418.00	13,527.96	8,418.00	59.81	110.73	-89.677	1,793.19	3,392.72	1,500.49	1,329.99	170.50	8.801	
11,029.66	8,418.00	13,557.62	8,418.00	60.40	111.33	-89.677	1,793.28	3,422.38	1,500.49	1,328.80	171.69	8.739	
11,100.00	8,418.00	13,627.96	8,418.00	61.81	112.75	-89.677	1,793.48	3,492.72	1,500.49	1,325.96	174.52	8.598	
11,129.66	8,418.00	13,657.62	8,418.00	62.41	113.35	-89.677	1,793.57	3,522.38	1,500.48	1,324.77	175.72	8.539	
11,200.00	8,418.00	13,727.96	8,418.00	63.82	114.78	-89.677	1,793.78	3,592.72	1,500.48	1,321.93	178.55	8.403	
11,229.66	8,418.00	13,757.62	8,418.00	64.42	115.38	-89.677	1,793.86	3,622.38	1,500.48	1,320.73	179.75	8.347	
11,300.00	8,418.00	13,827.96	8,418.00	65.83	116.80	-89.677	1,794.07	3,692.72	1,500.47	1,317.88	182.59	8.218	
11,329.66	8,418.00	13,857.62	8,418.00	66.43	117.40	-89.677	1,794.16	3,722.38	1,500.47	1,316.68	183.79	8.164	
11,400.00	8,418.00	13,927.96	8,418.00	67.85	118.83	-89.677	1,794.36	3,792.72	1,500.47	1,313.84	186.63	8.040	
11,429.66	8,418.00	13,957.62	8,418.00	68.44	119.43	-89.677	1,794.45	3,822.37	1,500.47	1,312.63	187.83	7.988	
11,500.00	8,418.00	14,027.96	8,418.00	69.86	120.86	-89.677	1,794.65	3,892.72	1,500.46	1,309.78	190.68	7.869	
11,529.66	8,418.00	14,057.62	8,418.00	70.46	121.46	-89.677	1,794.74	3,922.37	1,500.46	1,308.58	191.88	7.820	
11,600.00	8,418.00	14,127.96	8,418.00	71.88	122.89	-89.677	1,794.95	3,992.71	1,500.46	1,305.73	194.73	7.705	
11,629.66	8,418.00	14,157.62	8,418.00	72.48	123.49	-89.677	1,795.03	4,022.37	1,500.46	1,304.52	195.93	7.658	
11,700.00	8,418.00	14,227.96	8,418.00	73.91	124.92	-89.677	1,795.24	4,092.71	1,500.45	1,301.67	198.79	7.548	
11,729.66	8,418.00	14,257.62	8,418.00	74.51	125.53	-89.677	1,795.32	4,122.37	1,500.45	1,300.46	199.99	7.503	
11,800.00	8,418.00	14,327.96	8,418.00	75.93	126.96	-89.677	1,795.53	4,192.71	1,500.45	1,297.60	202.84	7.397	
11,829.66	8,418.00	14,357.62	8,418.00	76.54	127.56	-89.677	1,795.62	4,222.37	1,500.44	1,296.39	204.05	7.353	
11,900.00	8,418.00	14,427.96	8,418.00	77.96	128.99	-89.677	1,795.82	4,292.71	1,500.44	1,293.53	206.91	7.252	
11,929.66	8,418.00	14,457.62	8,418.00	78.56	129.59	-89.677	1,795.91	4,322.37	1,500.44	1,292.33	208.11	7.210	
12,000.00	8,418.00	14,527.96	8,418.00	79.99	131.03	-89.677	1,796.12	4,392.71	1,500.43	1,289.46	210.97	7.112	
12,029.66	8,418.00	14,557.62	8,418.00	80.60	131.63	-89.677	1,796.20	4,422.37	1,500.43	1,288.25	212.18	7.072	
12,100.00	8,418.00	14,627.96	8,418.00	82.02	133.06	-89.677	1,796.41	4,492.71	1,500.43	1,285.39	215.04	6.977	
12,129.66	8,418.00	14,657.62	8,418.00	82.63	133.67	-89.677	1,796.49	4,522.37	1,500.43	1,284.18	216.25	6.938	
12,200.00	8,418.00	14,727.96	8,418.00	84.06	135.10	-89.677	1,796.70	4,592.71	1,500.42	1,281.31	219.11	6.848	
12,229.66	8,418.00	14,757.62	8,418.00	84.66	135.70	-89.677	1,796.79	4,622.37	1,500.42	1,280.10	220.32	6.810	
12,300.00	8,418.00	14,827.96	8,418.00	86.09	137.14	-89.677	1,796.99	4,692.71	1,500.42	1,277.23	223.19	6.723	
12,329.66	8,418.00	14,857.62	8,418.00	86.70	137.74	-89.677	1,797.08	4,722.37	1,500.42	1,276.02	224.40	6.686	
12,400.00	8,418.00	14,927.96	8,418.00	88.13	139.18	-89.677	1,797.29	4,792.71	1,500.41	1,273.15	227.26	6.602	
12,429.66	8,418.00	14,957.62	8,418.00	88.74	139.78	-89.677	1,797.37	4,822.37	1,500.41	1,271.94	228.47	6.567	
12,500.00	8,418.00	15,027.96	8,418.00	90.17	141.22	-89.677	1,797.58	4,892.71	1,500.41	1,269.06	231.34	6.486	
12,529.66	8,418.00	15,057.62	8,418.00	90.78	141.82	-89.677	1,797.66	4,922.37	1,500.40	1,267.85	232.55	6.452	
12,600.00	8,418.00	15,127.96	8,418.00	92.21	143.26	-89.677	1,797.87	4,992.71	1,500.40	1,264.98	235.42	6.373	
12,629.66	8,418.00	15,157.62	8,418.00	92.82	143.86	-89.677	1,797.96	5,022.37	1,500.40	1,263.76	236.63	6.341	
12,700.00	8,418.00	15,227.96	8,418.00	94.25	145.30	-89.677	1,798.16	5,092.71	1,500.39	1,260.89	239.51	6.265	
12,729.66	8,418.00	15,257.62	8,418.00	94.86	145.91	-89.677	1,798.25	5,122.37	1,500.39	1,259.67	240.72	6.233	
12,800.00	8,418.00	15,327.96	8,418.00	96.30	147.34	-89.677	1,798.46	5,192.71	1,500.39	1,256.80	243.59	6.159	
12,829.66	8,418.00	15,357.62	8,418.00	96.90	147.95	-89.677	1,798.54	5,222.37	1,500.39	1,255.58	244.80	6.129	
12,900.00	8,418.00	15,427.96	8,418.00	98.34	149.39	-89.677	1,798.75	5,292.71	1,500.38	1,252.70	247.68	6.058	
12,929.66	8,418.00	15,457.62	8,418.00	98.95	149.99	-89.677	1,798.83	5,322.37	1,500.38	1,251.49	248.89	6.028	
13,000.00	8,418.00	15,527.96	8,418.00	100.38	151.43	-89.677	1,799.04	5,392.71	1,500.38	1,248.61	251.77	5.959	
13,029.66	8,418.00	15,557.62	8,418.00	100.99	152.04	-89.677	1,799.13	5,422.37	1,500.38	1,247.39	252.98	5.931	
13,100.00	8,418.00	15,627.96	8,418.00	102.43	153.48	-89.677	1,799.33	5,492.71	1,500.37	1,244.51	255.86	5.864	
13,129.66	8,418.00	15,657.62	8,418.00	103.04	154.08	-89.677	1,799.42	5,522.37	1,500.37	1,243.30	257.07	5.836	
13,200.00	8,418.00	15,727.96	8,418.00	104.48	155.52	-89.677	1,799.63	5,592.71	1,500.37	1,240.41	259.95	5.772	
13,229.66	8,418.00	15,757.62	8,418.00	105.08	156.13	-89.677	1,799.71	5,622.37	1,500.36	1,239.20	261.17	5.745	
13,300.00	8,418.00	15,827.96	8,418.00	106.52	157.57	-89.677	1,799.92	5,692.71	1,500.36	1,236.31	264.05	5.682	
13,329.66	8,418.00	15,857.62	8,418.00	107.13	158.18	-89.677	1,800.00	5,722.37	1,500.36	1,235.10	265.26	5.656	
13,400.00	8,418.00	15,927.96	8,418.00	108.57	159.62	-89.677	1,800.21	5,792.71	1,500.35	1,232.21	268.14	5.595	
13,429.66	8,418.00	15,957.62	8,418.00	109.18	160.22	-89.677	1,800.30	5,822.37	1,500.35	1,231.00	269.36	5.570	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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)		
13,500.00	8,418.00	16,027.96	8,418.00	110.62	161.66	-89.677	1,800.50	5,892.71	1,500.35	1,228.11	272.24	5.511	
13,529.66	8,418.00	16,057.62	8,418.00	111.23	162.27	-89.677	1,800.59	5,922.37	1,500.35	1,226.89	273.45	5.487	
13,600.00	8,418.00	16,127.96	8,418.00	112.67	163.71	-89.677	1,800.80	5,992.71	1,500.34	1,224.01	276.33	5.429	
13,629.66	8,418.00	16,157.62	8,418.00	113.28	164.32	-89.677	1,800.88	6,022.37	1,500.34	1,222.79	277.55	5.406	
13,700.00	8,418.00	16,227.96	8,418.00	114.72	165.76	-89.677	1,801.09	6,092.71	1,500.34	1,219.90	280.43	5.350	
13,729.66	8,418.00	16,257.62	8,418.00	115.33	166.37	-89.677	1,801.17	6,122.37	1,500.34	1,218.69	281.65	5.327	
13,800.00	8,418.00	16,327.96	8,418.00	116.77	167.81	-89.677	1,801.38	6,192.71	1,500.33	1,215.80	284.53	5.273	
13,829.66	8,418.00	16,357.62	8,418.00	117.38	168.42	-89.677	1,801.47	6,222.36	1,500.33	1,214.58	285.75	5.250	
13,900.00	8,418.00	16,427.96	8,418.00	118.83	169.86	-89.677	1,801.67	6,292.71	1,500.33	1,211.69	288.64	5.198	
13,929.66	8,418.00	16,457.62	8,418.00	119.44	170.47	-89.677	1,801.76	6,322.36	1,500.32	1,210.47	289.85	5.176	
14,000.00	8,418.00	16,527.96	8,418.00	120.88	171.91	-89.677	1,801.97	6,392.70	1,500.32	1,207.58	292.74	5.125	
14,029.66	8,418.00	16,557.62	8,418.00	121.49	172.52	-89.677	1,802.05	6,422.36	1,500.32	1,206.36	293.96	5.104	
14,100.00	8,418.00	16,627.96	8,418.00	122.93	173.96	-89.677	1,802.26	6,492.70	1,500.31	1,203.47	296.84	5.054	
14,129.66	8,418.00	16,657.62	8,418.00	123.54	174.57	-89.677	1,802.34	6,522.36	1,500.31	1,202.25	298.06	5.034	
14,200.00	8,418.00	16,727.96	8,418.00	124.99	176.01	-89.677	1,802.55	6,592.70	1,500.31	1,199.36	300.95	4.985	
14,229.66	8,418.00	16,757.62	8,418.00	125.60	176.62	-89.677	1,802.64	6,622.36	1,500.31	1,198.14	302.17	4.965	
14,300.00	8,418.00	16,827.96	8,418.00	127.04	178.06	-89.677	1,802.84	6,692.70	1,500.30	1,195.25	305.05	4.918	
14,329.66	8,418.00	16,857.62	8,418.00	127.65	178.67	-89.677	1,802.93	6,722.36	1,500.30	1,194.03	306.27	4.899	
14,400.00	8,418.00	16,927.96	8,418.00	129.10	180.11	-89.677	1,803.14	6,792.70	1,500.30	1,191.14	309.16	4.853	
14,429.66	8,418.00	16,957.62	8,418.00	129.70	180.72	-89.677	1,803.22	6,822.36	1,500.30	1,189.92	310.38	4.834	
14,500.00	8,418.00	17,027.96	8,418.00	131.15	182.16	-89.677	1,803.43	6,892.70	1,500.29	1,187.02	313.27	4.789	
14,529.66	8,418.00	17,057.62	8,418.00	131.76	182.77	-89.677	1,803.51	6,922.36	1,500.29	1,185.80	314.49	4.771	
14,600.00	8,418.00	17,127.96	8,418.00	133.21	184.22	-89.677	1,803.72	6,992.70	1,500.29	1,182.91	317.38	4.727	
14,629.66	8,418.00	17,157.62	8,418.00	133.82	184.83	-89.677	1,803.81	7,022.36	1,500.28	1,181.69	318.59	4.709	
14,700.00	8,418.00	17,227.96	8,418.00	135.26	186.27	-89.677	1,804.01	7,092.70	1,500.28	1,178.80	321.48	4.667	
14,729.66	8,418.00	17,257.62	8,418.00	135.87	186.88	-89.677	1,804.10	7,122.36	1,500.28	1,177.57	322.70	4.649	
14,800.00	8,418.00	17,327.96	8,418.00	137.32	188.32	-89.677	1,804.31	7,192.70	1,500.27	1,174.68	325.59	4.608	
14,829.66	8,418.00	17,357.62	8,418.00	137.93	188.93	-89.677	1,804.39	7,222.36	1,500.27	1,173.46	326.81	4.591	
14,900.00	8,418.00	17,427.96	8,418.00	139.38	190.38	-89.677	1,804.60	7,292.70	1,500.27	1,170.56	329.71	4.550	
14,929.66	8,418.00	17,457.62	8,418.00	139.99	190.99	-89.677	1,804.68	7,322.36	1,500.27	1,169.34	330.92	4.534	
15,000.00	8,418.00	17,527.96	8,418.00	141.43	192.43	-89.677	1,804.89	7,392.70	1,500.26	1,166.45	333.82	4.494	
15,029.66	8,418.00	17,557.62	8,418.00	142.04	193.04	-89.677	1,804.98	7,422.36	1,500.26	1,165.22	335.04	4.478	
15,100.00	8,418.00	17,627.96	8,418.00	143.49	194.49	-89.677	1,805.18	7,492.70	1,500.26	1,162.33	337.93	4.440	
15,129.66	8,418.00	17,657.62	8,418.00	144.10	195.10	-89.677	1,805.27	7,522.36	1,500.26	1,161.11	339.15	4.424	
15,200.00	8,418.00	17,727.96	8,418.00	145.55	196.54	-89.677	1,805.48	7,592.70	1,500.25	1,158.21	342.04	4.386	
15,229.66	8,418.00	17,757.62	8,418.00	146.16	197.15	-89.677	1,805.56	7,622.36	1,500.25	1,156.99	343.26	4.371	
15,300.00	8,418.00	17,827.96	8,418.00	147.61	198.60	-89.677	1,805.77	7,692.70	1,500.25	1,154.09	346.16	4.334	
15,329.66	8,418.00	17,857.62	8,418.00	148.22	199.21	-89.677	1,805.85	7,722.36	1,500.24	1,152.87	347.38	4.319	
15,400.00	8,418.00	17,927.96	8,418.00	149.67	200.65	-89.677	1,806.06	7,792.70	1,500.24	1,149.97	350.27	4.283	
15,429.66	8,418.00	17,957.62	8,418.00	150.28	201.26	-89.677	1,806.15	7,822.36	1,500.24	1,148.75	351.49	4.268	
15,500.00	8,418.00	18,027.96	8,418.00	151.72	202.71	-89.677	1,806.35	7,892.70	1,500.23	1,145.85	354.38	4.233	
15,529.66	8,418.00	18,057.62	8,418.00	152.34	203.32	-89.677	1,806.44	7,922.36	1,500.23	1,144.63	355.60	4.219	
15,600.00	8,418.00	18,127.96	8,418.00	153.78	204.76	-89.677	1,806.64	7,992.70	1,500.23	1,141.73	358.50	4.185	
15,629.66	8,418.00	18,157.62	8,418.00	154.39	205.37	-89.677	1,806.73	8,022.36	1,500.23	1,140.51	359.72	4.171	
15,700.00	8,418.00	18,227.96	8,418.00	155.84	206.82	-89.677	1,806.94	8,092.70	1,500.22	1,137.61	362.61	4.137	
15,729.66	8,418.00	18,257.62	8,418.00	156.45	207.43	-89.677	1,807.02	8,122.36	1,500.22	1,136.39	363.84	4.123	
15,800.00	8,418.00	18,327.96	8,418.00	157.90	208.88	-89.677	1,807.23	8,192.70	1,500.22	1,133.49	366.73	4.091	
15,829.66	8,418.00	18,357.62	8,418.00	158.51	209.49	-89.677	1,807.32	8,222.36	1,500.22	1,132.26	367.95	4.077	
15,900.00	8,418.00	18,427.96	8,418.00	159.96	210.93	-89.677	1,807.52	8,292.70	1,500.21	1,129.36	370.85	4.045	
15,929.66	8,418.00	18,457.62	8,418.00	160.57	211.54	-89.677	1,807.61	8,322.36	1,500.21	1,128.14	372.07	4.032	
16,000.00	8,418.00	18,527.96	8,418.00	162.02	212.99	-89.677	1,807.81	8,392.70	1,500.21	1,125.24	374.97	4.001	
16,029.66	8,418.00	18,557.62	8,418.00	162.63	213.60	-89.677	1,807.90	8,422.36	1,500.20	1,124.02	376.19	3.988	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
16,100.00	8,418.00	18,627.96	8,418.00	164.08	215.05	-89.677	1,808.11	8,492.70	1,500.20	1,121.12	379.08	3.957	
16,129.66	8,418.00	18,657.62	8,418.00	164.69	215.66	-89.677	1,808.19	8,522.35	1,500.20	1,119.89	380.30	3.945	
16,200.00	8,418.00	18,727.96	8,418.00	166.14	217.10	-89.677	1,808.40	8,592.70	1,500.19	1,116.99	383.20	3.915	
16,229.66	8,418.00	18,757.62	8,418.00	166.76	217.71	-89.677	1,808.49	8,622.35	1,500.19	1,115.77	384.42	3.902	
16,300.00	8,418.00	18,827.96	8,418.00	168.20	219.16	-89.677	1,808.69	8,692.69	1,500.19	1,112.87	387.32	3.873	
16,329.66	8,418.00	18,857.62	8,418.00	168.82	219.77	-89.677	1,808.78	8,722.35	1,500.19	1,111.64	388.54	3.861	
16,400.00	8,418.00	18,927.96	8,418.00	170.27	221.22	-89.677	1,808.98	8,792.69	1,500.18	1,108.74	391.44	3.832	
16,429.66	8,418.00	18,957.62	8,418.00	170.88	221.83	-89.677	1,809.07	8,822.35	1,500.18	1,107.52	392.66	3.821	
16,500.00	8,418.00	19,027.96	8,418.00	172.33	223.28	-89.677	1,809.28	8,892.69	1,500.18	1,104.62	395.56	3.793	
16,529.66	8,418.00	19,057.62	8,418.00	172.94	223.89	-89.677	1,809.36	8,922.35	1,500.17	1,103.39	396.78	3.781	
16,600.00	8,418.00	19,127.96	8,418.00	174.39	225.34	-89.677	1,809.57	8,992.69	1,500.17	1,100.49	399.68	3.753	
16,629.66	8,418.00	19,157.62	8,418.00	175.00	225.95	-89.677	1,809.66	9,022.35	1,500.17	1,099.27	400.90	3.742	
16,700.00	8,418.00	19,227.96	8,418.00	176.45	227.40	-89.677	1,809.86	9,092.69	1,500.17	1,096.37	403.80	3.715	
16,729.66	8,418.00	19,257.62	8,418.00	177.06	228.01	-89.677	1,809.95	9,122.35	1,500.16	1,095.14	405.02	3.704	
16,800.00	8,418.00	19,327.96	8,418.00	178.51	229.45	-89.677	1,810.15	9,192.69	1,500.16	1,092.24	407.92	3.678	
16,829.66	8,418.00	19,357.62	8,418.00	179.12	230.07	-89.677	1,810.24	9,222.35	1,500.16	1,091.02	409.14	3.667	
16,900.00	8,418.00	19,427.96	8,418.00	180.57	231.51	-89.677	1,810.45	9,292.69	1,500.15	1,088.11	412.04	3.641	
16,929.66	8,418.00	19,457.62	8,418.00	181.19	232.12	-89.677	1,810.53	9,322.35	1,500.15	1,086.89	413.26	3.630	
17,000.00	8,418.00	19,527.96	8,418.00	182.64	233.57	-89.677	1,810.74	9,392.69	1,500.15	1,083.98	416.16	3.605	
17,029.66	8,418.00	19,557.62	8,418.00	183.25	234.18	-89.677	1,810.83	9,422.35	1,500.15	1,082.76	417.39	3.594	
17,100.00	8,418.00	19,627.96	8,418.00	184.70	235.63	-89.677	1,811.03	9,492.69	1,500.14	1,079.86	420.28	3.569	
17,129.66	8,418.00	19,657.62	8,418.00	185.31	236.24	-89.677	1,811.12	9,522.35	1,500.14	1,078.63	421.51	3.559	
17,200.00	8,418.00	19,727.96	8,418.00	186.76	237.69	-89.677	1,811.32	9,592.69	1,500.14	1,075.73	424.41	3.535	
17,229.66	8,418.00	19,757.62	8,418.00	187.37	238.30	-89.677	1,811.41	9,622.35	1,500.13	1,074.50	425.63	3.525	
17,300.00	8,418.00	19,827.96	8,418.00	188.82	239.75	-89.677	1,811.62	9,692.69	1,500.13	1,071.60	428.53	3.501	
17,329.66	8,418.00	19,857.62	8,418.00	189.44	240.36	-89.677	1,811.70	9,722.35	1,500.13	1,070.38	429.75	3.491	
17,400.00	8,418.00	19,927.96	8,418.00	190.89	241.81	-89.677	1,811.91	9,792.69	1,500.13	1,067.47	432.65	3.467	
17,429.66	8,418.00	19,957.62	8,418.00	191.50	242.42	-89.677	1,812.00	9,822.35	1,500.12	1,066.25	433.88	3.457	
17,500.00	8,418.00	20,027.96	8,418.00	192.95	243.87	-89.677	1,812.20	9,892.69	1,500.12	1,063.34	436.78	3.435	
17,529.66	8,418.00	20,057.62	8,418.00	193.56	244.48	-89.677	1,812.29	9,922.35	1,500.12	1,062.12	438.00	3.425	
17,600.00	8,418.00	20,127.96	8,418.00	195.01	245.93	-89.677	1,812.49	9,992.69	1,500.11	1,059.21	440.90	3.402	
17,629.66	8,418.00	20,157.62	8,418.00	195.63	246.54	-89.677	1,812.58	10,022.35	1,500.11	1,057.99	442.12	3.393	
17,700.00	8,418.00	20,227.96	8,418.00	197.08	247.99	-89.677	1,812.79	10,092.69	1,500.11	1,055.08	445.02	3.371	
17,729.66	8,418.00	20,257.62	8,418.00	197.69	248.60	-89.677	1,812.87	10,122.35	1,500.11	1,053.86	446.25	3.362	
17,800.00	8,418.00	20,327.96	8,418.00	199.14	250.05	-89.677	1,813.08	10,192.69	1,500.10	1,050.95	449.15	3.340	
17,829.66	8,418.00	20,357.62	8,418.00	199.75	250.66	-89.677	1,813.17	10,222.35	1,500.10	1,049.73	450.37	3.331	
17,900.00	8,418.00	20,427.96	8,418.00	201.20	252.11	-89.677	1,813.37	10,292.69	1,500.10	1,046.82	453.27	3.309	
17,929.66	8,418.00	20,457.62	8,418.00	201.82	252.72	-89.677	1,813.46	10,322.35	1,500.09	1,045.60	454.50	3.301	
18,000.00	8,418.00	20,527.96	8,418.00	203.27	254.17	-89.677	1,813.66	10,392.69	1,500.09	1,042.69	457.40	3.280	
18,029.66	8,418.00	20,557.62	8,418.00	203.88	254.79	-89.677	1,813.75	10,422.35	1,500.09	1,041.47	458.62	3.271	
18,100.00	8,418.00	20,627.96	8,418.00	205.33	256.24	-89.677	1,813.96	10,492.69	1,500.09	1,038.56	461.52	3.250	
18,129.66	8,418.00	20,657.62	8,418.00	205.94	256.85	-89.677	1,814.04	10,522.35	1,500.08	1,037.34	462.75	3.242	
18,200.00	8,418.00	20,727.96	8,418.00	207.40	258.30	-89.677	1,814.25	10,592.69	1,500.08	1,034.43	465.65	3.221	
18,229.66	8,418.00	20,757.62	8,418.00	208.01	258.91	-89.677	1,814.34	10,622.35	1,500.08	1,033.21	466.87	3.213	
18,300.00	8,418.00	20,827.96	8,418.00	209.46	260.36	-89.677	1,814.54	10,692.69	1,500.07	1,030.30	469.77	3.193	
18,329.66	8,418.00	20,857.62	8,418.00	210.07	260.97	-89.677	1,814.63	10,722.35	1,500.07	1,029.08	471.00	3.185	
18,400.00	8,418.00	20,927.96	8,418.00	211.52	262.42	-89.677	1,814.83	10,792.69	1,500.07	1,026.17	473.90	3.165	
18,429.66	8,418.00	20,957.62	8,418.00	212.14	263.03	-89.677	1,814.92	10,822.35	1,500.07	1,024.94	475.12	3.157	
18,500.00	8,418.00	21,027.96	8,418.00	213.59	264.48	-89.677	1,815.13	10,892.69	1,500.06	1,022.04	478.02	3.138	
18,529.66	8,418.00	21,057.62	8,418.00	214.20	265.09	-89.677	1,815.21	10,922.34	1,500.06	1,020.81	479.25	3.130	
18,600.00	8,418.00	21,127.96	8,418.00	215.65	266.54	-89.677	1,815.42	10,992.69	1,500.06	1,017.91	482.15	3.111	
18,629.66	8,418.00	21,157.62	8,418.00	216.26	267.15	-89.677	1,815.51	11,022.34	1,500.05	1,016.68	483.37	3.103	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
18,700.00	8,418.00	21,227.96	8,418.00	217.72	268.60	-89.677	1,815.71	11,092.68	1,500.05	1,013.77	486.28	3.085	
18,729.66	8,418.00	21,257.62	8,418.00	218.33	269.22	-89.677	1,815.80	11,122.34	1,500.05	1,012.55	487.50	3.077	
18,800.00	8,418.00	21,327.96	8,418.00	219.78	270.67	-89.677	1,816.00	11,192.68	1,500.04	1,009.64	490.40	3.059	
18,829.66	8,418.00	21,357.62	8,418.00	220.39	271.28	-89.677	1,816.09	11,222.34	1,500.04	1,008.42	491.63	3.051	
18,900.00	8,418.00	21,427.96	8,418.00	221.85	272.73	-89.677	1,816.30	11,292.68	1,500.04	1,005.51	494.53	3.033	
18,929.66	8,418.00	21,457.62	8,418.00	222.46	273.34	-89.677	1,816.38	11,322.34	1,500.04	1,004.28	495.75	3.026	
19,000.00	8,418.00	21,527.96	8,418.00	223.91	274.79	-89.677	1,816.59	11,392.68	1,500.03	1,001.38	498.66	3.008	
19,029.66	8,418.00	21,557.62	8,418.00	224.52	275.40	-89.677	1,816.68	11,422.34	1,500.03	1,000.15	499.88	3.001	
19,100.00	8,418.00	21,627.96	8,418.00	225.98	276.85	-89.677	1,816.88	11,492.68	1,500.03	997.24	502.78	2.983	
19,129.66	8,418.00	21,657.62	8,418.00	226.59	277.47	-89.677	1,816.97	11,522.34	1,500.03	996.02	504.01	2.976	
19,200.00	8,418.00	21,727.96	8,418.00	228.04	278.92	-89.677	1,817.17	11,592.68	1,500.02	993.11	506.91	2.959	
19,229.66	8,418.00	21,757.62	8,418.00	228.65	279.53	-89.677	1,817.26	11,622.34	1,500.02	991.88	508.14	2.952	
19,290.91	8,418.00	21,818.82	8,418.00	229.92	280.79	-89.677	1,817.44	11,683.54	1,500.02	989.35	510.66	2.937 CC	
19,296.39	8,418.00	21,818.82	8,418.00	230.03	280.79	-89.677	1,817.44	11,683.54	1,500.03	989.25	510.78	2.937 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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	43.384	905.76	856.04	1,246.42					
100.00	100.00	80.44	80.44	0.79	0.50	43.394	905.61	856.22	1,246.29	1,245.00	1.29	966.377		
200.00	200.00	182.32	182.31	1.45	0.93	43.423	905.18	856.66	1,246.28	1,243.90	2.38	523.711		
241.92	241.92	222.88	222.88	1.63	1.08	43.431	905.03	856.76	1,246.24	1,243.53	2.71	459.043		
300.00	300.00	276.77	276.76	1.89	1.28	43.440	904.95	856.98	1,246.34	1,243.17	3.17	393.452		
400.00	400.00	380.80	380.79	2.25	1.65	43.456	904.93	857.43	1,246.63	1,242.73	3.90	319.601		
445.90	445.90	426.86	426.86	2.40	1.81	43.462	904.83	857.51	1,246.61	1,242.40	4.21	296.257		
500.00	500.00	478.61	478.61	2.57	2.00	43.467	904.78	857.62	1,246.66	1,242.10	4.56	273.356		
600.00	600.00	581.52	581.52	2.85	2.36	43.474	904.78	857.83	1,246.79	1,241.59	5.20	239.538		
646.19	646.19	627.15	627.15	2.97	2.52	43.476	904.73	857.84	1,246.76	1,241.28	5.48	227.310		
700.00	700.00	678.26	678.25	3.11	2.70	43.477	904.76	857.89	1,246.82	1,241.02	5.80	214.839		
800.00	800.00	781.24	781.24	3.35	3.06	43.467	905.03	857.85	1,246.99	1,240.59	6.41	194.671		
847.81	847.81	828.77	828.77	3.46	3.23	43.454	905.20	857.64	1,246.97	1,240.29	6.68	186.652		
900.00	900.00	878.82	878.82	3.58	3.40	43.433	905.55	857.33	1,247.01	1,240.04	6.97	178.797		
1,000.00	1,000.00	979.45	979.44	3.79	3.75	43.382	906.46	856.64	1,247.20	1,239.66	7.54	165.371		
1,100.00	1,100.00	1,077.90	1,077.88	3.99	4.10	43.340	907.19	856.09	1,247.36	1,239.26	8.09	154.152		
1,200.00	1,200.00	1,181.32	1,181.30	4.19	4.46	43.298	907.94	855.54	1,247.52	1,238.87	8.65	144.218		
1,231.64	1,231.64	1,212.62	1,212.60	4.25	4.57	43.287	908.10	855.35	1,247.50	1,238.68	8.82	141.446		
1,300.00	1,300.00	1,274.81	1,274.78	4.38	4.79	43.267	908.50	855.14	1,247.67	1,238.50	9.17	136.114		
1,400.00	1,400.00	1,373.96	1,373.93	4.56	5.13	43.244	909.29	855.20	1,248.29	1,238.59	9.70	128.742		
1,500.00	1,500.00	1,471.42	1,471.39	4.74	5.47	43.227	909.98	855.34	1,248.91	1,238.69	10.21	122.272		
1,600.00	1,600.00	1,572.31	1,572.28	4.91	5.83	43.208	910.85	855.58	1,249.70	1,238.96	10.74	116.366		
1,700.00	1,700.00	1,673.33	1,673.29	5.08	6.18	43.194	911.52	855.80	1,250.33	1,239.07	11.26	111.036		
1,800.00	1,800.00	1,771.15	1,771.10	5.24	6.52	43.172	912.34	855.90	1,251.00	1,239.24	11.77	106.321		
1,900.00	1,900.00	1,874.72	1,874.67	5.40	6.89	43.160	913.05	856.23	1,251.73	1,239.44	12.29	101.859		
2,000.00	2,000.00	1,973.19	1,973.15	5.56	7.23	43.149	913.57	856.37	1,252.22	1,239.43	12.79	97.907		
2,100.00	2,100.00	2,072.85	2,072.80	5.71	7.58	43.134	914.28	856.60	1,252.89	1,239.60	13.29	94.259		
2,200.00	2,200.00	2,169.03	2,168.97	5.86	7.92	43.121	915.01	856.88	1,253.64	1,239.87	13.78	90.982		
2,300.00	2,300.00	2,266.64	2,266.58	6.01	8.26	43.097	916.15	857.22	1,254.74	1,240.47	14.27	87.938		
2,400.00	2,400.00	2,362.47	2,362.40	6.16	8.60	43.068	917.46	857.59	1,256.01	1,241.26	14.75	85.158		
2,500.00	2,500.00	2,458.02	2,457.94	6.30	8.93	43.030	919.21	858.07	1,257.68	1,242.46	15.23	82.600		
2,600.00	2,599.97	2,553.26	2,553.15	6.54	9.26	-34.187	920.94	859.00	1,258.04	1,242.27	15.77	79.797		
2,700.00	2,699.79	2,654.66	2,654.52	6.78	9.62	-34.415	923.20	859.99	1,255.41	1,239.08	16.32	76.910		
2,800.00	2,799.29	2,758.91	2,758.76	7.03	9.99	-34.796	925.07	860.79	1,249.07	1,232.17	16.90	73.903		
2,900.00	2,898.51	2,858.54	2,858.37	7.19	10.33	-35.180	926.83	861.35	1,240.49	1,223.10	17.39	71.317		
3,000.00	2,997.72	2,960.73	2,960.55	7.38	10.69	-35.543	928.34	862.18	1,231.87	1,213.95	17.92	68.732		
3,100.00	3,096.93	3,060.16	3,059.95	7.59	11.04	-35.914	929.79	862.63	1,223.04	1,204.59	18.45	66.277		
3,200.00	3,196.13	3,158.96	3,158.74	7.82	11.39	-36.302	931.54	862.93	1,214.40	1,195.41	18.99	63.940		
3,300.00	3,295.34	3,260.70	3,260.47	8.06	11.74	-36.701	933.15	863.29	1,205.72	1,186.16	19.55	61.666		
3,400.00	3,394.55	3,360.95	3,360.71	8.32	12.10	-37.094	934.53	863.59	1,196.89	1,176.77	20.11	59.503		
3,500.00	3,493.76	3,459.57	3,459.32	8.59	12.44	-37.487	935.90	863.89	1,188.14	1,167.46	20.68	57.455		
3,600.00	3,592.97	3,558.25	3,557.99	8.88	12.79	-37.892	937.40	864.13	1,179.50	1,158.25	21.25	55.505		
3,700.00	3,692.18	3,658.28	3,658.00	9.17	13.14	-38.292	938.71	864.66	1,170.94	1,149.10	21.83	53.634		
3,800.00	3,791.39	3,761.35	3,761.07	9.47	13.50	-38.690	939.67	865.39	1,162.25	1,139.82	22.43	51.820		
3,900.00	3,890.60	3,861.32	3,861.04	9.79	13.85	-39.097	940.55	865.68	1,153.32	1,130.30	23.02	50.105		
4,000.00	3,989.81	3,958.91	3,958.62	10.11	14.19	-39.512	941.63	865.86	1,144.57	1,120.97	23.60	48.492		
4,100.00	4,089.02	4,059.23	4,058.94	10.44	14.54	-39.936	942.69	866.23	1,135.95	1,111.75	24.20	46.940		
4,200.00	4,188.23	4,162.54	4,162.24	10.77	14.91	-40.375	943.54	866.51	1,127.14	1,102.33	24.81	45.436		
4,300.00	4,287.44	4,264.05	4,263.75	11.11	15.26	-40.824	944.20	866.43	1,118.05	1,092.64	25.41	44.002		
4,400.00	4,386.65	4,363.03	4,362.72	11.46	15.61	-41.282	944.95	866.09	1,108.97	1,082.96	26.00	42.647		
4,500.00	4,485.86	4,460.89	4,460.58	11.81	15.95	-41.746	945.80	865.74	1,100.03	1,073.44	26.59	41.363		
4,600.00	4,585.07	4,559.76	4,559.44	12.16	16.30	-42.222	946.73	865.48	1,091.28	1,064.09	27.19	40.138		

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.00	4,684.28	4,659.32	4,659.00	12.52	16.65	-42.710	947.66	865.16	1,082.57	1,054.79	27.78	38.965	
4,800.00	4,783.48	4,759.90	4,759.58	12.89	17.00	-43.215	948.60	864.74	1,073.89	1,045.51	28.38	37.842	
4,900.00	4,882.69	4,861.24	4,860.91	13.26	17.35	-43.743	949.50	864.05	1,065.11	1,036.13	28.97	36.762	
5,000.00	4,981.90	4,960.76	4,960.42	13.63	17.70	-44.272	950.26	863.27	1,056.26	1,026.70	29.56	35.732	
5,100.00	5,081.11	5,059.32	5,058.97	14.00	18.05	-44.810	951.12	862.43	1,047.54	1,017.40	30.14	34.753	
5,200.00	5,180.32	5,160.91	5,160.55	14.38	18.40	-45.392	952.14	861.27	1,038.89	1,008.16	30.73	33.811	
5,300.00	5,279.53	5,262.70	5,262.33	14.75	18.76	-46.001	953.02	859.68	1,030.00	998.69	31.31	32.901	
5,400.00	5,378.74	5,362.42	5,362.02	15.14	19.11	-46.649	954.14	857.40	1,021.08	989.21	31.87	32.035	
5,500.00	5,477.95	5,459.52	5,459.08	15.52	19.45	-47.309	955.40	854.93	1,012.32	979.89	32.43	31.217	
5,600.00	5,577.16	5,557.42	5,556.95	15.91	19.79	-47.970	956.73	852.79	1,003.92	970.94	32.98	30.439	
5,700.00	5,676.37	5,655.81	5,655.30	16.29	20.13	-48.630	957.95	850.87	995.67	962.14	33.53	29.694	
5,800.00	5,775.58	5,753.86	5,753.33	16.68	20.48	-49.287	959.17	849.18	987.67	953.59	34.08	28.984	
5,900.00	5,874.79	5,852.10	5,851.55	17.07	20.82	-49.956	960.46	847.52	979.88	945.26	34.62	28.307	
6,000.00	5,974.00	5,950.50	5,949.92	17.47	21.16	-50.647	961.91	845.72	972.30	937.15	35.15	27.663	
6,100.00	6,073.21	6,049.09	6,048.49	17.86	21.51	-51.350	963.39	843.96	964.92	929.24	35.67	27.048	
6,200.00	6,172.42	6,149.50	6,148.87	18.25	21.86	-52.068	964.84	842.28	957.68	921.48	36.20	26.456	
6,300.00	6,271.63	6,250.49	6,249.84	18.65	22.21	-52.790	965.98	840.65	950.34	913.62	36.72	25.881	
6,400.00	6,370.83	6,348.44	6,347.78	19.05	22.56	-53.490	966.96	839.21	943.08	905.86	37.23	25.333	
6,500.00	6,470.04	6,447.54	6,446.86	19.45	22.90	-54.217	968.17	837.71	936.16	898.43	37.73	24.812	
6,600.00	6,569.25	6,546.96	6,546.26	19.85	23.25	-54.952	969.18	836.21	929.20	890.98	38.23	24.308	
6,700.00	6,668.46	6,644.42	6,643.71	20.25	23.59	-55.678	970.30	834.88	922.58	883.87	38.71	23.832	
6,800.00	6,767.67	6,744.40	6,743.67	20.65	23.94	-56.435	971.50	833.49	916.15	876.96	39.19	23.374	
6,900.00	6,866.88	6,844.03	6,843.28	21.05	24.29	-57.198	972.52	832.08	909.71	870.04	39.67	22.932	
7,000.00	6,966.09	6,942.91	6,942.15	21.46	24.64	-57.964	973.61	830.73	903.52	863.38	40.14	22.512	
7,100.00	7,065.30	7,041.90	7,041.12	21.86	24.98	-58.767	974.73	828.97	897.40	856.81	40.59	22.109	
7,200.00	7,164.51	7,139.85	7,139.04	22.26	25.33	-59.582	976.05	827.13	891.62	850.59	41.03	21.730	
7,300.00	7,263.72	7,239.57	7,238.73	22.67	25.68	-60.428	977.38	825.16	886.00	844.53	41.47	21.366	
7,400.00	7,362.93	7,338.77	7,338.91	23.08	26.03	-61.299	978.70	823.00	880.51	838.62	41.89	21.017	
7,500.00	7,462.14	7,441.26	7,440.36	23.48	26.38	-62.207	979.84	820.53	874.96	832.65	42.31	20.679	
7,600.00	7,561.37	7,541.13	7,540.19	23.87	26.73	-63.060	980.73	818.11	869.50	826.81	42.70	20.365	
7,700.00	7,660.93	7,641.45	7,640.48	24.28	27.08	-63.685	981.54	815.89	865.58	822.45	43.13	20.071	
7,800.00	7,760.78	7,742.50	7,741.50	24.65	27.44	-64.113	982.10	813.65	863.26	819.70	43.57	19.814	
7,900.00	7,860.77	7,842.25	7,841.23	24.82	27.78	-64.031	982.67	811.51	862.64	818.67	43.97	19.619	
8,000.00	7,959.98	7,942.31	7,941.28	25.28	28.13	-68.274	983.11	809.54	858.26	813.92	44.35	19.353	
8,100.00	8,055.71	8,039.61	8,038.56	25.82	28.47	-71.122	983.36	807.79	847.88	803.30	44.58	19.018	
8,200.00	8,145.03	8,130.98	8,129.92	26.38	28.79	-75.309	983.22	806.47	833.18	788.51	44.67	18.650	
8,300.00	8,225.24	8,210.98	8,209.91	26.91	29.07	-80.213	982.92	805.47	817.14	772.46	44.69	18.287	
8,400.00	8,293.90	8,276.76	8,275.68	27.39	29.30	-84.989	982.74	804.58	803.52	758.74	44.78	17.944	
8,500.00	8,348.91	8,328.38	8,327.29	27.78	29.48	-88.838	982.71	803.78	796.15	750.95	45.20	17.614	
8,530.54	8,362.73	8,341.17	8,340.08	27.87	29.53	-89.713	982.73	803.58	795.68	750.23	45.45	17.505 CC, ES	
8,600.00	8,388.62	8,365.01	8,363.93	28.07	29.61	-91.048	982.80	803.23	798.31	752.16	46.15	17.298	
8,700.00	8,411.81	8,385.94	8,384.85	28.25	29.68	-91.129	982.88	802.92	811.99	764.38	47.61	17.055	
8,800.00	8,418.00	8,390.62	8,389.53	28.31	29.70	-89.320	982.91	802.86	837.52	788.19	49.33	16.978 SF	
8,900.00	8,418.00	8,389.34	8,388.25	28.34	29.69	-89.217	982.90	802.88	875.85	824.74	51.11	17.138	
9,000.00	8,418.00	8,388.03	8,386.94	28.37	29.69	-89.103	982.89	802.89	926.42	873.68	52.74	17.565	
9,100.00	8,418.00	8,386.70	8,385.61	28.42	29.69	-88.976	982.89	802.91	987.29	933.14	54.15	18.231	
9,200.00	8,418.00	8,385.34	8,384.25	28.53	29.68	-88.833	982.88	802.93	1,056.62	1,001.29	55.32	19.099	
9,300.00	8,418.00	8,383.95	8,382.86	28.82	29.68	-88.679	982.88	802.95	1,132.74	1,076.48	56.26	20.132	
9,400.00	8,418.00	8,382.56	8,381.47	29.64	29.67	-88.564	982.87	802.97	1,213.06	1,156.03	57.03	21.269	
9,500.00	8,418.00	8,381.16	8,380.07	31.07	29.67	-88.449	982.86	802.99	1,296.12	1,238.44	57.68	22.471	
9,600.00	8,418.00	8,379.75	8,378.66	32.77	29.66	-88.334	982.86	803.01	1,381.43	1,323.20	58.22	23.727	
9,700.00	8,418.00	8,378.34	8,377.25	34.55	29.66	-88.218	982.85	803.03	1,468.58	1,409.90	58.68	25.026	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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													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	
9,800.00	8,418.00	8,376.92	8,375.84	36.39	29.65	-88.102	982.84	803.05	1,557.29	1,498.21	59.07	26.362	
9,900.00	8,418.00	8,375.50	8,374.42	38.27	29.65	-87.986	982.84	803.07	1,647.28	1,587.87	59.41	27.727	
10,000.00	8,418.00	8,374.08	8,372.99	40.16	29.64	-87.869	982.83	803.10	1,738.37	1,678.67	59.70	29.118	
10,100.00	8,418.00	8,372.65	8,371.56	42.08	29.64	-87.751	982.83	803.12	1,830.39	1,770.43	59.95	30.529	
10,200.00	8,418.00	8,371.21	8,370.12	44.01	29.63	-87.634	982.82	803.14	1,923.20	1,863.02	60.18	31.958	
10,300.00	8,418.00	8,369.77	8,368.68	45.96	29.63	-87.516	982.82	803.16	2,016.70	1,956.32	60.38	33.403	



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W03) LEAR STATE 002H - 38866 - (Gyro/MWD)													Offset Site Error: 0.00 usft
Survey Program: 100-GYRO-NS, 8768-MWD							Rule Assigned:						Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Separation		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	
8,200.00	8,145.03	11,190.00	9,353.53	26.38	58.63	153.341	-974.23	-474.13	2,045.01	1,981.70	63.31	32.300	
8,300.00	8,225.24	11,190.00	9,353.53	26.91	58.63	153.626	-974.23	-474.13	2,038.68	1,973.74	64.93	31.397 CC, ES	
8,304.04	8,228.26	11,190.00	9,353.53	26.93	58.63	153.618	-974.23	-474.13	2,038.85	1,973.86	65.00	31.369	
8,400.00	8,293.90	11,190.00	9,353.53	27.39	58.63	152.983	-974.23	-474.13	2,052.76	1,986.37	66.40	30.917 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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 365-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	
12,900.00	8,418.00	7,225.00	7,223.61	98.34	163.77	-28.691	953.21	6,788.44	2,016.20	1,830.44	185.76	10.854	
13,000.00	8,418.00	7,225.00	7,223.61	100.38	163.77	-28.691	953.21	6,788.44	1,943.30	1,758.46	184.84	10.514	
13,100.00	8,418.00	7,225.00	7,223.61	102.43	163.77	-28.691	953.21	6,788.44	1,872.90	1,689.15	183.74	10.193	
13,200.00	8,418.00	7,225.00	7,223.61	104.48	163.77	-28.691	953.21	6,788.44	1,805.30	1,622.84	182.46	9.894	
13,300.00	8,418.00	7,225.00	7,223.61	106.52	163.77	-28.691	953.21	6,788.44	1,740.81	1,559.86	180.95	9.620	
13,349.14	8,418.00	7,225.00	7,223.61	107.53	163.77	-28.691	953.21	6,788.44	1,710.38	1,530.25	180.13	9.495	
13,400.00	8,418.00	7,225.00	7,223.61	108.57	163.77	-28.691	953.21	6,788.44	1,679.81	1,500.60	179.21	9.373	
13,447.67	8,418.00	7,225.00	7,223.61	109.55	163.77	-28.691	953.21	6,788.44	1,652.07	1,473.77	178.30	9.266	
13,500.00	8,418.00	7,225.00	7,223.61	110.62	163.77	-28.691	953.21	6,788.44	1,622.69	1,445.46	177.23	9.156	
13,546.15	8,418.00	7,225.00	7,223.61	111.57	163.77	-28.691	953.21	6,788.44	1,597.75	1,421.51	176.24	9.066	
13,600.00	8,418.00	7,225.00	7,223.61	112.67	163.77	-28.691	953.21	6,788.44	1,569.86	1,394.85	175.01	8.970	
13,644.57	8,418.00	7,225.00	7,223.61	113.59	163.77	-28.691	953.21	6,788.44	1,547.82	1,373.86	173.95	8.898	
13,700.00	8,418.00	7,225.00	7,223.61	114.72	163.77	-28.691	953.21	6,788.44	1,521.78	1,349.19	172.59	8.817	
13,742.91	8,418.00	7,225.00	7,223.61	115.60	163.77	-28.691	953.21	6,788.44	1,502.71	1,331.21	171.50	8.762	
13,800.00	8,418.00	7,225.00	7,223.61	116.77	163.77	-28.691	953.21	6,788.44	1,478.90	1,308.88	170.02	8.699	
13,841.18	8,418.00	7,225.00	7,223.61	117.62	163.77	-28.691	953.21	6,788.44	1,462.86	1,293.93	168.94	8.659	
13,900.00	8,418.00	7,225.00	7,223.61	118.83	163.77	-28.691	953.21	6,788.44	1,441.69	1,274.29	167.40	8.612	
13,939.37	8,418.00	7,225.00	7,223.61	119.63	163.77	-28.691	953.21	6,788.44	1,428.70	1,262.31	166.39	8.586	
14,000.00	8,418.00	7,225.00	7,223.61	120.88	163.77	-28.691	953.21	6,788.44	1,410.61	1,245.71	164.90	8.554	
14,037.46	8,418.00	7,225.00	7,223.61	121.65	163.77	-28.691	953.21	6,788.44	1,400.63	1,236.60	164.03	8.539	
14,100.00	8,418.00	7,225.00	7,223.61	122.93	163.77	-28.691	953.21	6,788.44	1,386.06	1,223.35	162.71	8.519	
14,135.47	8,418.00	7,225.00	7,223.61	123.66	163.77	-28.691	953.21	6,788.44	1,378.99	1,216.94	162.05	8.510	
14,200.00	8,418.00	7,225.00	7,223.61	124.99	163.77	-28.691	953.21	6,788.44	1,368.40	1,207.33	161.06	8.496	
14,233.40	8,418.00	7,225.00	7,223.61	125.67	163.77	-28.691	953.21	6,788.44	1,364.08	1,203.41	160.67	8.490	
14,300.00	8,418.00	7,225.00	7,223.61	127.04	163.77	-28.691	953.21	6,788.44	1,357.88	1,197.70	160.18	8.477	
14,331.28	8,418.00	7,225.00	7,223.61	127.68	163.77	-28.691	953.21	6,788.44	1,356.09	1,196.01	160.09	8.471	
14,392.62	8,418.00	7,225.00	7,223.61	128.94	163.77	-28.691	953.21	6,788.44	1,354.68	1,194.49	160.19	8.457 CC	
14,400.00	8,418.00	7,225.00	7,223.61	129.10	163.77	-28.691	953.21	6,788.44	1,354.69	1,194.47	160.22	8.455 ES	
14,420.91	8,418.00	7,225.00	7,223.61	129.53	163.77	-28.691	953.21	6,788.44	1,354.96	1,194.60	160.36	8.450	
14,500.00	8,418.00	7,225.00	7,223.61	131.15	163.77	-28.691	953.21	6,788.44	1,358.87	1,197.63	161.24	8.428	
14,600.00	8,418.00	7,225.00	7,223.61	133.21	163.77	-28.691	953.21	6,788.44	1,370.36	1,207.21	163.15	8.399	
14,700.00	8,418.00	7,225.00	7,223.61	135.26	163.77	-28.691	953.21	6,788.44	1,388.96	1,223.20	165.76	8.379	
14,800.00	8,418.00	7,225.00	7,223.61	137.32	163.77	-28.691	953.21	6,788.44	1,414.41	1,245.56	168.85	8.377 SF	
14,900.00	8,418.00	7,225.00	7,223.61	139.38	163.77	-28.691	953.21	6,788.44	1,446.34	1,274.17	172.17	8.401	
15,000.00	8,418.00	7,225.00	7,223.61	141.43	163.77	-28.691	953.21	6,788.44	1,484.33	1,308.82	175.52	8.457	
15,100.00	8,418.00	7,225.00	7,223.61	143.49	163.77	-28.691	953.21	6,788.44	1,527.93	1,349.19	178.74	8.548	
15,200.00	8,418.00	7,225.00	7,223.61	145.55	163.77	-28.691	953.21	6,788.44	1,576.68	1,394.93	181.76	8.675	
15,300.00	8,418.00	7,225.00	7,223.61	147.61	163.77	-28.691	953.21	6,788.44	1,630.11	1,445.62	184.50	8.835	
15,400.00	8,418.00	7,225.00	7,223.61	149.67	163.77	-28.691	953.21	6,788.44	1,687.78	1,500.84	186.94	9.028	
15,500.00	8,418.00	7,225.00	7,223.61	151.72	163.77	-28.691	953.21	6,788.44	1,749.27	1,560.18	189.09	9.251	
15,600.00	8,418.00	7,225.00	7,223.61	153.78	163.77	-28.691	953.21	6,788.44	1,814.19	1,623.23	190.97	9.500	
15,700.00	8,418.00	7,225.00	7,223.61	155.84	163.77	-28.691	953.21	6,788.44	1,882.19	1,689.61	192.58	9.774	
15,800.00	8,418.00	7,225.00	7,223.61	157.90	163.77	-28.691	953.21	6,788.44	1,952.94	1,758.98	193.96	10.069	
15,900.00	8,418.00	7,225.00	7,223.61	159.96	163.77	-28.691	953.21	6,788.44	2,026.16	1,831.02	195.14	10.383	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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	
12,200.00	8,418.00	8,419.28	8,414.96	84.06	227.75	-90.000	1,934.92	5,792.66	2,028.40	1,731.58	296.82	6.834	
12,300.00	8,418.00	8,419.28	8,414.96	86.09	227.75	-90.000	1,934.92	5,792.66	1,970.87	1,670.69	300.18	6.566	
12,400.00	8,418.00	8,419.28	8,414.96	88.13	227.75	-90.000	1,934.92	5,792.66	1,916.83	1,613.17	303.66	6.312	
12,500.00	8,418.00	8,419.28	8,414.96	90.17	227.75	-90.000	1,934.92	5,792.66	1,866.58	1,559.35	307.23	6.075	
12,600.00	8,418.00	8,419.28	8,414.96	92.21	227.75	-90.000	1,934.92	5,792.66	1,820.45	1,509.59	310.86	5.856	
12,700.00	8,418.00	8,419.28	8,414.96	94.25	227.75	-90.000	1,934.92	5,792.66	1,778.75	1,464.24	314.51	5.656	
12,800.00	8,418.00	8,419.28	8,414.96	96.30	227.75	-90.000	1,934.92	5,792.66	1,741.80	1,423.67	318.13	5.475	
12,900.00	8,418.00	8,419.28	8,414.96	98.34	227.75	-90.000	1,934.92	5,792.66	1,709.91	1,388.23	321.67	5.316	
13,000.00	8,418.00	8,419.28	8,414.96	100.38	227.75	-90.000	1,934.92	5,792.66	1,683.36	1,358.27	325.08	5.178	
13,100.00	8,418.00	8,419.28	8,414.96	102.43	227.75	-90.000	1,934.92	5,792.66	1,662.41	1,334.10	328.31	5.064	
13,200.00	8,418.00	8,419.28	8,414.96	104.48	227.75	-90.000	1,934.92	5,792.66	1,647.28	1,315.99	331.28	4.972	
13,300.00	8,418.00	8,419.28	8,414.96	106.52	227.75	-90.000	1,934.92	5,792.66	1,638.12	1,304.16	333.96	4.905	
13,400.00	8,418.00	8,419.28	8,414.96	108.57	227.75	-90.000	1,934.92	5,792.66	1,635.04	1,298.73	336.30	4.862	
13,400.44	8,418.00	8,419.28	8,414.96	108.58	227.75	-90.000	1,934.92	5,792.66	1,635.04	1,298.72	336.31	4.862	CC, ES
13,500.00	8,418.00	8,419.28	8,414.96	110.62	227.75	-90.000	1,934.92	5,792.66	1,638.06	1,299.79	338.27	4.842	SF
13,600.00	8,418.00	8,419.28	8,414.96	112.67	227.75	-90.000	1,934.92	5,792.66	1,647.17	1,307.32	339.85	4.847	
13,700.00	8,418.00	8,419.28	8,414.96	114.72	227.75	-90.000	1,934.92	5,792.66	1,662.25	1,321.21	341.04	4.874	
13,800.00	8,418.00	8,419.28	8,414.96	116.77	227.75	-90.000	1,934.92	5,792.66	1,683.15	1,341.32	341.83	4.924	
13,900.00	8,418.00	8,419.28	8,414.96	118.83	227.75	-90.000	1,934.92	5,792.66	1,709.65	1,367.39	342.26	4.995	
14,000.00	8,418.00	8,419.28	8,414.96	120.88	227.75	-90.000	1,934.92	5,792.66	1,741.50	1,399.15	342.35	5.087	
14,100.00	8,418.00	8,419.28	8,414.96	122.93	227.75	-90.000	1,934.92	5,792.66	1,778.40	1,436.28	342.13	5.198	
14,200.00	8,418.00	8,419.28	8,414.96	124.99	227.75	-90.000	1,934.92	5,792.66	1,820.06	1,478.43	341.64	5.327	
14,300.00	8,418.00	8,419.28	8,414.96	127.04	227.75	-90.000	1,934.92	5,792.66	1,866.16	1,525.23	340.93	5.474	
14,400.00	8,418.00	8,419.28	8,414.96	129.10	227.75	-90.000	1,934.92	5,792.66	1,916.37	1,576.34	340.02	5.636	
14,500.00	8,418.00	8,419.28	8,414.96	131.15	227.75	-90.000	1,934.92	5,792.66	1,970.37	1,631.40	338.97	5.813	
14,600.00	8,418.00	8,419.28	8,414.96	133.21	227.75	-90.000	1,934.92	5,792.66	2,027.88	1,690.07	337.80	6.003	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	
11,400.00	8,418.00	8,408.86	8,407.06	67.85	219.11	-90.196	622.53	5,799.70	2,029.38	1,780.35	249.02	8.149		
11,500.00	8,418.00	8,408.86	8,407.06	69.86	219.11	-90.195	622.53	5,799.70	1,930.71	1,681.41	249.30	7.744		
11,600.00	8,418.00	8,408.86	8,407.06	71.88	219.11	-90.195	622.53	5,799.70	1,832.20	1,582.56	249.64	7.339		
11,700.00	8,418.00	8,408.86	8,407.06	73.91	219.11	-90.195	622.53	5,799.70	1,733.85	1,483.81	250.03	6.934		
11,800.00	8,418.00	8,408.86	8,407.06	75.93	219.11	-90.195	622.53	5,799.70	1,635.70	1,385.19	250.51	6.529		
11,900.00	8,418.00	8,408.86	8,407.06	77.96	219.11	-90.195	622.53	5,799.70	1,537.79	1,286.70	251.09	6.125		
12,000.00	8,418.00	8,408.86	8,407.06	79.99	219.11	-90.195	622.53	5,799.70	1,440.17	1,188.38	251.79	5.720		
12,100.00	8,418.00	8,408.86	8,407.05	82.02	219.11	-90.194	622.53	5,799.70	1,342.90	1,090.24	252.66	5.315		
12,200.00	8,418.00	8,408.86	8,407.05	84.06	219.11	-90.194	622.53	5,799.70	1,246.06	992.33	253.73	4.911		
12,300.00	8,418.00	8,408.86	8,407.05	86.09	219.11	-90.194	622.53	5,799.70	1,149.76	894.69	255.07	4.508		
12,400.00	8,418.00	8,408.85	8,407.05	88.13	219.11	-90.194	622.53	5,799.70	1,054.15	797.39	256.76	4.106		
12,500.00	8,418.00	8,408.85	8,407.05	90.17	219.11	-90.194	622.53	5,799.70	959.44	700.52	258.92	3.706		
12,600.00	8,418.00	8,408.85	8,407.05	92.21	219.11	-90.194	622.53	5,799.70	865.92	604.22	261.70	3.309		
12,700.00	8,418.00	8,408.85	8,407.05	94.25	219.11	-90.193	622.53	5,799.70	774.01	508.70	265.31	2.917		
12,800.00	8,418.00	8,408.85	8,407.05	96.30	219.11	-90.193	622.53	5,799.70	684.39	414.32	270.06	2.534		
12,900.00	8,418.00	8,408.85	8,407.05	98.34	219.11	-90.193	622.53	5,799.70	598.06	321.72	276.33	2.164		
13,000.00	8,418.00	8,408.85	8,407.05	100.38	219.11	-90.193	622.53	5,799.70	516.68	232.09	284.59	1.815	Level 3	
13,100.00	8,418.00	8,408.85	8,407.04	102.43	219.11	-90.193	622.53	5,799.70	442.99	147.77	295.22	1.501	Level 3	
13,200.00	8,418.00	8,408.85	8,407.04	104.48	219.11	-90.192	622.53	5,799.70	381.49	73.57	307.91	1.239	Level 3	
13,300.00	8,418.00	8,408.85	8,407.04	106.52	219.11	-90.192	622.53	5,799.70	338.85	18.48	320.37	1.058	Level 3	
13,400.00	8,418.00	8,408.84	8,407.04	108.57	219.11	-90.192	622.53	5,799.70	322.65	-4.98	327.63	0.985	Level 3	
13,403.56	8,418.00	8,408.84	8,407.04	108.65	219.11	-90.192	622.53	5,799.70	322.63	-5.10	327.73	0.984	Level 3, CC, ES, SF	
13,500.00	8,418.00	8,408.84	8,407.04	110.62	219.11	-90.192	622.53	5,799.70	336.74	10.80	325.94	1.033	Level 3	
13,600.00	8,418.00	8,408.84	8,407.04	112.67	219.11	-90.192	622.53	5,799.70	377.73	60.21	317.52	1.190	Level 3	
13,700.00	8,418.00	8,408.84	8,407.04	114.72	219.11	-90.192	622.53	5,799.70	438.14	130.96	307.18	1.426	Level 3	
13,800.00	8,418.00	8,408.84	8,407.04	116.77	219.11	-90.191	622.53	5,799.70	511.13	213.36	297.76	1.717	Level 3	
13,900.00	8,418.00	8,408.84	8,407.04	118.83	219.11	-90.191	622.53	5,799.70	592.06	302.02	290.04	2.041		
14,000.00	8,418.00	8,408.84	8,407.04	120.88	219.11	-90.191	622.53	5,799.70	678.10	394.18	283.92	2.388		
14,100.00	8,418.00	8,408.84	8,407.03	122.93	219.11	-90.191	622.53	5,799.70	767.54	488.44	279.10	2.750		
14,200.00	8,418.00	8,408.84	8,407.03	124.99	219.11	-90.191	622.53	5,799.70	859.30	584.02	275.28	3.122		
14,300.00	8,418.00	8,408.84	8,407.03	127.04	219.11	-90.190	622.53	5,799.70	952.73	680.50	272.22	3.500		
14,400.00	8,418.00	8,408.83	8,407.03	129.10	219.11	-90.190	622.53	5,799.70	1,047.36	777.62	269.75	3.883		
14,500.00	8,418.00	8,408.83	8,407.03	131.15	219.11	-90.190	622.53	5,799.70	1,142.92	875.20	267.72	4.269		
14,600.00	8,418.00	8,408.83	8,407.03	133.21	219.11	-90.190	622.53	5,799.70	1,239.17	973.13	266.04	4.658		
14,700.00	8,418.00	8,408.83	8,407.03	135.26	219.11	-90.190	622.53	5,799.70	1,335.98	1,071.33	264.64	5.048		
14,800.00	8,418.00	8,408.83	8,407.03	137.32	219.11	-90.190	622.53	5,799.70	1,433.22	1,169.75	263.47	5.440		
14,900.00	8,418.00	8,408.83	8,407.03	139.38	219.11	-90.189	622.53	5,799.70	1,530.82	1,268.35	262.47	5.832		
15,000.00	8,418.00	8,408.83	8,407.03	141.43	219.11	-90.189	622.53	5,799.70	1,628.71	1,367.09	261.61	6.226		
15,100.00	8,418.00	8,408.83	8,407.02	143.49	219.11	-90.189	622.53	5,799.70	1,726.84	1,465.96	260.88	6.619		
15,200.00	8,418.00	8,408.83	8,407.02	145.55	219.11	-90.189	622.53	5,799.70	1,825.18	1,564.93	260.25	7.013		
15,300.00	8,418.00	8,408.83	8,407.02	147.61	219.11	-90.189	622.53	5,799.70	1,923.68	1,663.98	259.70	7.407		
15,400.00	8,418.00	8,408.82	8,407.02	149.67	219.11	-90.189	622.53	5,799.70	2,022.34	1,763.12	259.22	7.802		

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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					Rule Assigned:				Offset Well Error:		0.00 usft	
Reference	Offset	Semi Major Axis		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		
14,300.00	8,418.00	8,417.67	8,416.50	127.04	194.83	89.916	-692.26	8,449.60	2,015.19	1,750.51	264.68	7.614		
14,400.00	8,418.00	8,417.67	8,416.50	129.10	194.83	89.916	-692.26	8,449.60	1,929.01	1,660.85	268.16	7.194		
14,500.00	8,418.00	8,417.67	8,416.50	131.15	194.83	89.916	-692.26	8,449.60	1,844.23	1,572.28	271.95	6.782		
14,600.00	8,418.00	8,417.67	8,416.50	133.21	194.83	89.916	-692.26	8,449.60	1,761.04	1,484.97	276.07	6.379		
14,700.00	8,418.00	8,417.67	8,416.50	135.26	194.83	89.916	-692.26	8,449.60	1,679.69	1,399.14	280.55	5.987		
14,800.00	8,418.00	8,417.67	8,416.50	137.32	194.83	89.916	-692.26	8,449.60	1,600.45	1,315.04	285.41	5.607		
14,900.00	8,418.00	8,417.67	8,416.50	139.38	194.83	89.916	-692.26	8,449.60	1,523.66	1,232.99	290.68	5.242		
15,000.00	8,418.00	8,417.67	8,416.50	141.43	194.83	89.916	-692.26	8,449.60	1,449.70	1,153.36	296.34	4.892		
15,100.00	8,418.00	8,417.67	8,416.50	143.49	194.83	89.916	-692.26	8,449.60	1,379.03	1,076.62	302.42	4.560		
15,200.00	8,418.00	8,417.67	8,416.50	145.55	194.83	89.916	-692.26	8,449.60	1,312.18	1,003.32	308.86	4.248		
15,300.00	8,418.00	8,417.67	8,416.50	147.61	194.83	89.916	-692.26	8,449.60	1,249.77	934.14	315.63	3.960		
15,400.00	8,418.00	8,417.66	8,416.50	149.67	194.83	89.916	-692.26	8,449.60	1,192.48	869.87	322.61	3.696		
15,500.00	8,418.00	8,417.66	8,416.49	151.72	194.83	89.916	-692.26	8,449.60	1,141.10	811.45	329.65	3.462		
15,600.00	8,418.00	8,417.66	8,416.49	153.78	194.83	89.916	-692.26	8,449.60	1,096.44	759.91	336.53	3.258		
15,700.00	8,418.00	8,417.66	8,416.49	155.84	194.83	89.916	-692.26	8,449.60	1,059.38	716.38	343.00	3.089		
15,800.00	8,418.00	8,417.66	8,416.49	157.90	194.83	89.916	-692.26	8,449.60	1,030.72	681.99	348.73	2.956		
15,900.00	8,418.00	8,417.66	8,416.49	159.96	194.83	89.916	-692.26	8,449.60	1,011.17	657.77	353.40	2.861		
16,000.00	8,418.00	8,417.66	8,416.49	162.02	194.83	89.916	-692.26	8,449.60	1,001.28	644.53	356.75	2.807		
16,049.54	8,418.00	8,417.66	8,416.49	163.04	194.83	89.916	-692.26	8,449.60	1,000.05	642.20	357.85	2.795 CC, ES		
16,100.00	8,418.00	8,417.66	8,416.49	164.08	194.83	89.916	-692.26	8,449.60	1,001.33	642.75	358.58	2.792 SF		
16,200.00	8,418.00	8,417.66	8,416.49	166.14	194.83	89.916	-692.26	8,449.60	1,011.31	652.47	358.84	2.818		
16,300.00	8,418.00	8,417.66	8,416.49	168.20	194.83	89.916	-692.26	8,449.60	1,030.94	673.33	357.61	2.883		
16,400.00	8,418.00	8,417.66	8,416.49	170.27	194.83	89.916	-692.26	8,449.60	1,059.68	704.59	355.09	2.984		
16,500.00	8,418.00	8,417.66	8,416.49	172.33	194.83	89.916	-692.26	8,449.60	1,096.82	745.27	351.55	3.120		
16,600.00	8,418.00	8,417.66	8,416.49	174.39	194.83	89.916	-692.26	8,449.60	1,141.54	794.27	347.27	3.287		
16,700.00	8,418.00	8,417.66	8,416.49	176.45	194.83	89.916	-692.26	8,449.60	1,192.98	850.47	342.52	3.483		
16,800.00	8,418.00	8,417.66	8,416.49	178.51	194.83	89.916	-692.26	8,449.60	1,250.32	912.80	337.52	3.704		
16,900.00	8,418.00	8,417.66	8,416.49	180.57	194.83	89.916	-692.26	8,449.60	1,312.78	980.31	332.47	3.949		
17,000.00	8,418.00	8,417.66	8,416.49	182.64	194.83	89.916	-692.26	8,449.60	1,379.67	1,052.19	327.48	4.213		
17,100.00	8,418.00	8,417.66	8,416.49	184.70	194.83	89.916	-692.26	8,449.60	1,450.37	1,127.72	322.65	4.495		
17,200.00	8,418.00	8,417.66	8,416.49	186.76	194.83	89.916	-692.26	8,449.60	1,524.36	1,206.32	318.04	4.793		
17,300.00	8,418.00	8,417.66	8,416.49	188.82	194.83	89.916	-692.26	8,449.60	1,601.18	1,287.50	313.67	5.105		
17,400.00	8,418.00	8,417.66	8,416.49	190.89	194.83	89.916	-692.26	8,449.60	1,680.43	1,370.87	309.57	5.428		
17,500.00	8,418.00	8,417.66	8,416.49	192.95	194.83	89.916	-692.26	8,449.60	1,761.80	1,456.08	305.72	5.763		
17,600.00	8,418.00	8,417.66	8,416.49	195.01	194.83	89.916	-692.26	8,449.60	1,845.00	1,542.87	302.14	6.107		
17,700.00	8,418.00	8,417.66	8,416.49	197.08	194.83	89.916	-692.26	8,449.60	1,929.80	1,631.00	298.80	6.459		
17,800.00	8,418.00	8,417.65	8,416.49	199.14	194.83	89.916	-692.26	8,449.60	2,015.99	1,720.30	295.69	6.818		

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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
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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	3.96	3.96	0.00	0.08	14.933	1,930.33	514.80	1,997.80				
100.00	100.00	103.96	103.96	0.79	2.19	14.933	1,930.33	514.80	1,997.80	1,994.83	2.97	672.438	
200.00	200.00	203.96	203.96	1.45	4.29	14.933	1,930.33	514.80	1,997.80	1,992.07	5.73	348.442	
300.00	300.00	303.96	303.96	1.89	6.37	14.933	1,930.33	514.80	1,997.80	1,989.54	8.26	241.849	
400.00	400.00	406.31	406.31	2.25	8.49	14.931	1,930.60	514.80	1,998.06	1,987.32	10.74	185.984	
500.00	500.00	503.98	503.96	2.57	10.51	14.933	1,930.33	514.80	1,997.80	1,984.72	13.08	152.749	
600.00	600.00	603.98	603.96	2.85	12.39	14.933	1,930.33	514.80	1,997.80	1,982.56	15.24	131.113	
700.00	700.00	714.61	714.58	3.11	14.46	14.932	1,930.44	514.80	1,997.94	1,980.36	17.57	113.705	
728.94	728.94	747.13	747.10	3.18	15.07	14.933	1,930.23	514.80	1,997.76	1,979.51	18.25	109.461	
800.00	800.00	803.99	803.96	3.35	16.18	14.933	1,930.33	514.80	1,997.80	1,978.28	19.52	102.323	
900.00	900.00	909.26	909.22	3.58	18.20	14.932	1,930.48	514.80	1,997.95	1,976.17	21.78	91.741	
1,000.00	1,000.00	1,004.01	1,003.96	3.79	20.10	14.933	1,930.33	514.80	1,997.80	1,973.91	23.89	83.609	
1,100.00	1,100.00	1,111.99	1,111.93	3.99	22.34	14.930	1,930.71	514.80	1,998.18	1,971.84	26.33	75.883	
1,200.00	1,200.00	1,204.05	1,203.96	4.19	24.20	14.933	1,930.33	514.80	1,997.80	1,969.41	28.39	70.366	
1,300.00	1,300.00	1,304.05	1,303.96	4.38	26.15	14.928	1,930.92	514.80	1,998.37	1,967.84	30.53	65.461	
1,400.00	1,400.00	1,418.46	1,418.36	4.56	28.38	14.932	1,930.49	514.80	1,998.01	1,965.07	32.94	60.662	
1,432.09	1,432.09	1,455.17	1,455.07	4.62	29.09	14.934	1,930.17	514.80	1,997.74	1,964.03	33.71	59.266	
1,500.00	1,500.00	1,504.06	1,503.96	4.74	29.85	14.933	1,930.33	514.80	1,997.80	1,963.21	34.59	57.752	
1,600.00	1,600.00	1,604.07	1,603.96	4.91	31.55	14.933	1,930.33	514.80	1,997.80	1,961.33	36.47	54.786	
1,700.00	1,700.00	1,704.07	1,703.96	5.08	33.46	14.933	1,930.33	514.80	1,997.80	1,959.26	38.54	51.836	
1,800.00	1,800.00	1,804.83	1,804.72	5.24	35.38	14.931	1,930.53	514.80	1,997.99	1,957.36	40.63	49.179	
1,900.00	1,900.00	1,907.18	1,907.08	5.40	37.34	14.932	1,930.42	514.80	1,997.89	1,955.15	42.74	46.747	
2,000.00	2,000.00	2,004.07	2,003.96	5.56	39.16	14.933	1,930.33	514.80	1,997.80	1,953.09	44.71	44.679	
2,100.00	2,100.00	2,106.47	2,106.36	5.71	41.05	14.932	1,930.40	514.80	1,997.87	1,951.11	46.76	42.725	
2,200.00	2,200.00	2,204.08	2,203.96	5.86	42.94	14.933	1,930.33	514.80	1,997.80	1,948.99	48.81	40.933	
2,300.00	2,300.00	2,304.08	2,303.96	6.01	44.95	14.933	1,930.33	514.80	1,997.80	1,946.84	50.96	39.201	
2,400.00	2,400.00	2,415.71	2,415.58	6.16	47.20	14.930	1,930.70	514.80	1,998.19	1,944.84	53.35	37.454	
2,500.00	2,500.00	2,504.11	2,503.96	6.30	49.15	14.933	1,930.33	514.80	1,997.80	1,942.35	55.45	36.029	
2,600.00	2,599.97	2,604.08	2,603.93	6.54	51.62	-62.287	1,930.33	514.80	1,996.88	1,938.80	58.08	34.384	
2,700.00	2,699.79	2,703.90	2,703.75	6.78	54.09	-62.494	1,930.33	514.80	1,994.11	1,933.42	60.69	32.857	
2,800.00	2,799.29	2,804.90	2,804.75	7.03	56.59	-62.848	1,930.94	514.80	1,990.13	1,926.79	63.34	31.421	
2,900.00	2,898.51	2,907.09	2,906.94	7.19	59.11	-63.194	1,930.78	514.80	1,984.28	1,918.29	65.98	30.073	
3,000.00	2,997.72	3,009.27	3,009.12	7.38	61.64	-63.524	1,930.47	514.80	1,978.31	1,909.67	68.65	28.819	
3,100.00	3,096.93	3,101.09	3,100.89	7.59	63.79	-63.823	1,930.33	514.80	1,972.56	1,901.62	70.94	27.804	
3,200.00	3,196.13	3,200.30	3,200.09	7.82	66.05	-64.149	1,930.33	514.80	1,967.02	1,893.67	73.35	26.816	
3,300.00	3,295.34	3,299.72	3,299.51	8.06	68.32	-64.485	1,931.44	514.80	1,962.63	1,886.86	75.77	25.903	
3,400.00	3,394.55	3,405.90	3,405.69	8.32	70.74	-64.836	1,931.24	514.80	1,957.04	1,878.70	78.34	24.982	
3,500.00	3,493.76	3,512.07	3,511.85	8.59	73.16	-65.187	1,930.65	514.80	1,951.15	1,870.24	80.91	24.115	
3,600.00	3,592.97	3,597.21	3,596.93	8.88	75.02	-65.471	1,930.33	514.80	1,945.52	1,862.59	82.93	23.460	
3,700.00	3,692.18	3,696.42	3,696.14	9.17	77.11	-65.806	1,930.33	514.80	1,940.31	1,855.13	85.18	22.780	
3,800.00	3,791.39	3,799.02	3,798.73	9.47	79.27	-66.159	1,931.19	514.80	1,936.01	1,848.52	87.50	22.127	
3,900.00	3,890.60	3,906.91	3,906.62	9.79	81.55	-66.525	1,930.76	514.80	1,930.54	1,840.62	89.92	21.468	
4,000.00	3,989.81	3,994.11	3,993.77	10.11	83.41	-66.821	1,930.33	514.80	1,925.08	1,833.13	91.95	20.937	
4,100.00	4,089.02	4,093.32	4,092.98	10.44	85.58	-67.163	1,930.33	514.80	1,920.14	1,825.87	94.27	20.368	
4,200.00	4,188.23	4,192.53	4,192.19	10.77	87.74	-67.507	1,930.33	514.80	1,915.27	1,818.68	96.60	19.828	
4,300.00	4,287.44	4,298.60	4,298.25	11.11	90.06	-67.881	1,931.19	514.80	1,911.33	1,812.26	99.07	19.293	
4,400.00	4,386.65	4,405.22	4,404.86	11.46	92.38	-68.251	1,930.59	514.80	1,906.06	1,804.51	101.55	18.770	
4,500.00	4,485.86	4,490.23	4,489.82	11.81	94.26	-68.548	1,930.33	514.80	1,901.09	1,797.50	103.58	18.353	
4,600.00	4,585.07	4,589.44	4,589.03	12.16	96.45	-68.899	1,930.33	514.80	1,896.50	1,790.57	105.94	17.902	
4,700.00	4,684.28	4,688.65	4,688.24	12.52	98.65	-69.251	1,930.33	514.80	1,891.99	1,783.70	108.29	17.471	
4,800.00	4,783.48	4,794.54	4,794.11	12.89	101.00	-69.632	1,931.26	514.80	1,888.48	1,777.69	110.79	17.046	
4,900.00	4,882.69	4,900.57	4,900.13	13.26	103.34	-70.010	1,930.69	514.80	1,883.58	1,770.30	113.29	16.627	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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-NOLY												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
5,000.00	4,981.90	4,986.35	4,985.86	13.63	105.24	-70.317	1,930.33	514.80	1,878.89	1,763.55	115.34	16.290
5,100.00	5,081.11	5,085.56	5,085.07	14.00	107.42	-70.676	1,930.33	514.80	1,874.67	1,757.00	117.67	15.932
5,200.00	5,180.32	5,184.77	5,184.28	14.38	109.60	-71.036	1,930.33	514.80	1,870.52	1,750.53	120.00	15.588
5,300.00	5,279.53	5,289.79	5,289.29	14.75	111.91	-71.422	1,931.30	514.80	1,867.42	1,744.97	122.45	15.250
5,400.00	5,378.74	5,395.77	5,395.26	15.14	114.24	-71.808	1,930.78	514.80	1,862.94	1,738.02	124.92	14.913
5,500.00	5,477.95	5,482.48	5,481.91	15.52	116.14	-72.126	1,930.33	514.80	1,858.54	1,731.56	126.98	14.637
5,600.00	5,577.16	5,581.69	5,581.12	15.91	118.31	-72.492	1,930.33	514.80	1,854.70	1,725.41	129.29	14.345
5,700.00	5,676.37	5,680.90	5,680.33	16.29	120.48	-72.860	1,930.33	514.80	1,850.94	1,719.34	131.60	14.065
5,800.00	5,775.58	5,785.07	5,784.48	16.68	122.75	-73.250	1,931.34	514.80	1,848.26	1,714.24	134.02	13.791
5,900.00	5,874.79	5,890.99	5,890.40	17.07	125.07	-73.645	1,930.86	514.80	1,844.20	1,707.74	136.46	13.514
6,000.00	5,974.00	5,978.60	5,977.96	17.47	126.97	-73.972	1,930.33	514.80	1,840.11	1,701.60	138.51	13.285
6,100.00	6,073.21	6,077.81	6,077.17	17.86	129.07	-74.346	1,930.33	514.80	1,836.66	1,695.91	140.75	13.049
6,200.00	6,172.42	6,177.02	6,176.38	18.25	131.18	-74.720	1,930.33	514.80	1,833.29	1,690.31	142.98	12.822
6,300.00	6,271.63	6,283.53	6,282.87	18.65	133.43	-75.125	1,931.10	514.80	1,830.78	1,685.41	145.37	12.594
6,400.00	6,370.83	6,390.45	6,389.79	19.05	135.70	-75.532	1,930.45	514.80	1,826.96	1,679.20	147.76	12.365
6,500.00	6,470.04	6,474.72	6,474.00	19.45	137.52	-75.853	1,930.33	514.80	1,823.65	1,673.94	149.72	12.180
6,600.00	6,569.25	6,573.93	6,573.21	19.85	139.68	-76.233	1,930.33	514.80	1,820.61	1,668.60	152.00	11.977
6,700.00	6,668.46	6,674.18	6,673.46	20.25	141.86	-76.619	1,931.43	514.80	1,818.74	1,664.43	154.31	11.786
6,800.00	6,767.67	6,780.03	6,779.30	20.65	144.16	-77.027	1,931.18	514.80	1,815.61	1,658.89	156.73	11.585
6,900.00	6,866.88	6,885.86	6,885.12	21.05	146.46	-77.436	1,930.54	514.80	1,812.21	1,653.07	159.14	11.387
7,000.00	6,966.09	6,970.84	6,970.05	21.46	148.30	-77.766	1,930.33	514.80	1,809.23	1,648.11	161.12	11.229
7,100.00	7,065.30	7,070.05	7,069.26	21.86	150.45	-78.152	1,930.33	514.80	1,806.59	1,643.20	163.39	11.057
7,200.00	7,164.51	7,169.58	7,168.78	22.26	152.61	-78.539	1,931.44	514.80	1,805.14	1,639.47	165.66	10.896
7,300.00	7,263.72	7,275.37	7,274.56	22.67	154.90	-78.953	1,931.23	514.80	1,802.47	1,634.40	168.07	10.724
7,400.00	7,362.93	7,381.14	7,380.33	23.08	157.19	-79.369	1,930.63	514.80	1,799.52	1,629.05	170.47	10.556
7,500.00	7,462.14	7,466.96	7,466.10	23.48	159.05	-79.707	1,930.33	514.80	1,796.87	1,624.42	172.46	10.419
7,600.00	7,561.37	7,566.20	7,565.33	23.87	161.20	-80.076	1,930.33	514.80	1,794.69	1,620.00	174.69	10.274
7,700.00	7,660.93	7,665.76	7,664.89	24.28	163.35	-80.332	1,930.33	514.80	1,793.10	1,616.15	176.95	10.133
7,705.71	7,666.62	7,671.45	7,670.58	24.30	163.47	-80.343	1,930.33	514.80	1,793.04	1,615.96	177.08	10.126
7,800.00	7,760.78	7,771.81	7,770.93	24.65	165.64	-80.485	1,931.27	514.80	1,793.16	1,613.81	179.34	9.999
7,900.00	7,860.77	7,878.39	7,877.50	24.82	167.95	-83.218	1,930.70	514.80	1,792.37	1,610.66	181.71	9.864
8,000.00	7,959.98	7,964.89	7,963.94	25.28	169.88	-83.698	1,930.33	514.80	1,790.64	1,606.91	183.73	9.746
8,100.00	8,055.71	8,060.61	8,059.67	25.82	172.09	-84.861	1,930.33	514.80	1,787.67	1,601.62	186.05	9.608
8,200.00	8,145.03	8,149.94	8,148.99	26.38	174.16	-86.509	1,930.33	514.80	1,783.93	1,595.64	188.29	9.474
8,300.00	8,225.24	8,233.34	8,232.38	26.91	176.08	-88.429	1,931.40	514.80	1,781.73	1,591.23	190.49	9.353
8,400.00	8,293.90	8,306.36	8,305.40	27.39	177.77	-90.280	1,931.18	514.80	1,780.22	1,587.58	192.64	9.241
8,401.93	8,295.09	8,307.63	8,306.67	27.39	177.80	-90.312	1,931.17	514.80	1,780.22	1,587.54	192.68	9.239 CC
8,500.00	8,348.91	8,364.79	8,363.83	27.78	179.12	-91.656	1,930.87	514.80	1,782.10	1,587.40	194.70	9.153 ES
8,600.00	8,388.62	8,406.88	8,405.92	28.07	180.10	-92.234	1,930.57	514.80	1,788.69	1,592.04	196.66	9.096
8,700.00	8,411.81	8,431.37	8,430.40	28.25	180.66	-91.771	1,930.37	514.80	1,800.86	1,602.40	198.46	9.074 SF
8,800.00	8,418.00	8,437.78	8,436.81	28.31	180.81	-90.479	1,930.32	514.80	1,818.85	1,618.84	200.01	9.094
8,900.00	8,418.00	8,437.64	8,436.67	28.34	180.81	-90.478	1,930.32	514.80	1,844.35	1,642.83	201.52	9.152
9,000.00	8,418.00	8,437.53	8,436.56	28.37	180.80	-90.481	1,930.32	514.80	1,878.13	1,675.07	203.06	9.249
9,100.00	8,418.00	8,437.45	8,436.48	28.42	180.80	-90.486	1,930.32	514.80	1,919.69	1,715.13	204.56	9.385
9,200.00	8,418.00	8,437.40	8,436.43	28.53	180.80	-90.494	1,930.32	514.80	1,968.51	1,762.51	206.00	9.556
9,300.00	8,418.00	8,437.39	8,436.42	28.82	180.80	-90.503	1,930.32	514.80	2,023.96	1,816.62	207.33	9.762

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W14) KEELA 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		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
10,400.00	8,418.00	8,419.65	8,417.96	47.91	188.80	-90.000	1,740.46	4,261.21	2,060.27	1,832.36	227.91	9.040
10,500.00	8,418.00	8,419.65	8,417.96	49.88	188.80	-90.000	1,740.46	4,261.21	1,990.23	1,760.47	229.76	8.662
10,600.00	8,418.00	8,419.65	8,417.96	51.85	188.80	-90.000	1,740.46	4,261.21	1,922.84	1,691.04	231.80	8.295
10,700.00	8,418.00	8,419.65	8,417.96	53.83	188.80	-90.000	1,740.46	4,261.21	1,858.40	1,624.37	234.03	7.941
10,800.00	8,418.00	8,419.65	8,417.96	55.82	188.80	-90.000	1,740.46	4,261.21	1,797.21	1,560.77	236.44	7.601
10,900.00	8,418.00	8,419.65	8,417.96	57.81	188.80	-90.000	1,740.46	4,261.21	1,739.62	1,500.60	239.02	7.278
11,000.00	8,418.00	8,419.65	8,417.96	59.81	188.80	-90.000	1,740.46	4,261.21	1,686.00	1,444.25	241.75	6.974
11,100.00	8,418.00	8,419.65	8,417.96	61.81	188.80	-90.000	1,740.46	4,261.21	1,636.74	1,392.12	244.62	6.691
11,200.00	8,418.00	8,419.65	8,417.96	63.82	188.80	-90.000	1,740.46	4,261.21	1,592.24	1,344.66	247.58	6.431
11,300.00	8,418.00	8,419.65	8,417.96	65.83	188.80	-90.000	1,740.46	4,261.21	1,552.92	1,302.32	250.60	6.197
11,400.00	8,418.00	8,419.65	8,417.96	67.85	188.80	-90.000	1,740.46	4,261.21	1,519.17	1,265.54	253.62	5.990
11,500.00	8,418.00	8,419.65	8,417.96	69.86	188.80	-90.000	1,740.46	4,261.21	1,491.37	1,234.78	256.60	5.812
11,600.00	8,418.00	8,419.65	8,417.96	71.88	188.80	-90.000	1,740.46	4,261.21	1,469.87	1,210.41	259.46	5.665
11,700.00	8,418.00	8,419.65	8,417.96	73.91	188.80	-90.000	1,740.46	4,261.21	1,454.93	1,192.79	262.14	5.550
11,800.00	8,418.00	8,419.65	8,417.96	75.93	188.80	-90.000	1,740.46	4,261.21	1,446.77	1,182.17	264.59	5.468
11,868.41	8,418.00	8,419.65	8,417.96	77.32	188.80	-90.000	1,740.46	4,261.21	1,445.15	1,179.04	266.11	5.431 CC
11,900.00	8,418.00	8,419.65	8,417.96	77.96	188.80	-90.000	1,740.46	4,261.21	1,445.50	1,178.73	266.77	5.419 ES
12,000.00	8,418.00	8,419.65	8,417.96	79.99	188.80	-90.000	1,740.46	4,261.21	1,451.13	1,182.51	268.62	5.402 SF
12,100.00	8,418.00	8,419.65	8,417.96	82.02	188.80	-90.000	1,740.46	4,261.21	1,463.59	1,193.46	270.13	5.418
12,200.00	8,418.00	8,419.65	8,417.96	84.06	188.80	-90.000	1,740.46	4,261.21	1,482.70	1,211.41	271.29	5.465
12,300.00	8,418.00	8,419.65	8,417.96	86.09	188.80	-90.000	1,740.46	4,261.21	1,508.22	1,236.10	272.12	5.543
12,400.00	8,418.00	8,419.65	8,417.96	88.13	188.80	-90.000	1,740.46	4,261.21	1,539.82	1,267.19	272.62	5.648
12,500.00	8,418.00	8,419.65	8,417.96	90.17	188.80	-90.000	1,740.46	4,261.21	1,577.14	1,304.29	272.84	5.780
12,600.00	8,418.00	8,419.65	8,417.96	92.21	188.80	-90.000	1,740.46	4,261.21	1,619.78	1,346.97	272.81	5.937
12,700.00	8,418.00	8,419.65	8,417.96	94.25	188.80	-90.000	1,740.46	4,261.21	1,667.33	1,394.77	272.56	6.117
12,800.00	8,418.00	8,419.65	8,417.96	96.30	188.80	-90.000	1,740.46	4,261.21	1,719.39	1,447.26	272.13	6.318
12,900.00	8,418.00	8,419.65	8,417.96	98.34	188.80	-90.000	1,740.46	4,261.21	1,775.57	1,504.00	271.57	6.538
13,000.00	8,418.00	8,419.65	8,417.96	100.38	188.80	-90.000	1,740.46	4,261.21	1,835.47	1,564.58	270.89	6.776
13,100.00	8,418.00	8,419.65	8,417.96	102.43	188.80	-90.000	1,740.46	4,261.21	1,898.75	1,628.62	270.14	7.029
13,200.00	8,418.00	8,419.65	8,417.96	104.48	188.80	-90.000	1,740.46	4,261.21	1,965.09	1,695.77	269.33	7.296
13,300.00	8,418.00	8,419.65	8,417.96	106.52	188.80	-90.000	1,740.46	4,261.21	2,034.18	1,765.71	268.48	7.577

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-52.686	609.39	-799.54	1,005.30					
100.00	100.00	99.96	99.96	0.79	2.07	-52.686	609.39	-799.54	1,005.30	1,002.45	2.85	352.485		
200.00	200.00	199.96	199.96	1.45	4.13	-52.686	609.39	-799.54	1,005.30	999.72	5.58	180.171		
300.00	300.00	299.97	299.96	1.89	6.09	-52.686	609.39	-799.54	1,005.30	997.31	7.98	125.913		
400.00	400.00	402.89	402.88	2.25	8.06	-52.679	609.54	-799.54	1,005.40	995.08	10.32	97.458		
500.00	500.00	499.98	499.96	2.57	10.51	-52.686	609.39	-799.54	1,005.30	992.22	13.08	76.868		
600.00	600.00	599.98	599.96	2.85	13.27	-52.686	609.39	-799.54	1,005.30	989.18	16.12	62.376		
700.00	700.00	700.30	700.28	3.11	16.03	-52.663	609.91	-799.54	1,005.61	986.47	19.14	52.538		
800.00	800.00	801.42	801.40	3.35	18.82	-52.670	609.76	-799.54	1,005.52	983.36	22.17	45.357		
900.00	900.00	902.55	902.52	3.58	21.61	-52.685	609.43	-799.54	1,005.33	980.14	25.18	39.921		
942.61	942.61	942.60	942.57	3.67	22.53	-52.686	609.39	-799.54	1,005.30	979.10	26.19	38.378		
1,000.00	1,000.00	999.99	999.96	3.79	23.77	-52.686	609.39	-799.54	1,005.30	977.74	27.56	36.483		
1,100.00	1,100.00	1,099.99	1,099.96	3.99	25.92	-52.686	609.39	-799.54	1,005.30	975.38	29.92	33.604		
1,200.00	1,200.00	1,200.20	1,200.17	4.19	28.08	-52.674	609.65	-799.54	1,005.46	973.18	32.27	31.154		
1,300.00	1,300.00	1,300.74	1,300.71	4.38	30.25	-52.678	609.57	-799.54	1,005.41	970.78	34.63	29.032		
1,400.00	1,400.00	1,401.28	1,401.25	4.56	32.42	-52.686	609.41	-799.54	1,005.31	968.33	36.98	27.184		
1,440.13	1,440.13	1,440.13	1,440.09	4.63	33.22	-52.686	609.39	-799.54	1,005.30	967.44	37.86	26.556		
1,500.00	1,500.00	1,499.99	1,499.96	4.74	34.45	-52.686	609.39	-799.54	1,005.30	966.11	39.19	25.653		
1,600.00	1,600.00	1,599.99	1,599.96	4.91	36.50	-52.686	609.39	-799.54	1,005.30	963.89	41.41	24.277		
1,700.00	1,700.00	1,700.22	1,700.19	5.08	38.55	-52.674	609.65	-799.54	1,005.46	961.83	43.63	23.046		
1,800.00	1,800.00	1,800.76	1,800.73	5.24	40.61	-52.678	609.57	-799.54	1,005.41	959.56	45.85	21.927		
1,900.00	1,900.00	1,901.30	1,901.27	5.40	42.67	-52.686	609.40	-799.54	1,005.30	957.23	48.07	20.913		
1,937.34	1,937.34	1,937.36	1,937.30	5.46	43.43	-52.686	609.39	-799.54	1,005.30	956.40	48.89	20.561		
2,000.00	2,000.00	2,000.01	1,999.96	5.56	44.77	-52.686	609.39	-799.54	1,005.30	954.97	50.33	19.975		
2,100.00	2,100.00	2,100.01	2,099.96	5.71	46.90	-52.686	609.39	-799.54	1,005.30	952.68	52.62	19.106		
2,200.00	2,200.00	2,200.49	2,200.43	5.86	49.05	-52.648	610.24	-799.54	1,005.81	950.90	54.91	18.318		
2,300.00	2,300.00	2,302.04	2,301.97	6.01	51.21	-52.657	610.03	-799.54	1,005.69	948.47	57.22	17.575		
2,400.00	2,400.00	2,403.59	2,403.52	6.16	53.38	-52.678	609.57	-799.54	1,005.41	945.88	59.54	16.888		
2,497.15	2,497.15	2,497.21	2,497.11	6.29	55.29	-52.686	609.39	-799.54	1,005.30	943.71	61.58	16.324		
2,500.00	2,500.00	2,500.06	2,499.96	6.30	55.35	-52.686	609.39	-799.54	1,005.30	943.65	61.65	16.308 CC		
2,600.00	2,599.97	2,600.03	2,599.93	6.54	57.35	-129.901	609.39	-799.54	1,006.57	942.75	63.82	15.772 ES		
2,700.00	2,699.79	2,700.45	2,700.35	6.78	59.35	-130.062	610.13	-799.54	1,010.85	944.85	66.00	15.317		
2,800.00	2,799.29	2,801.69	2,801.58	7.03	61.37	-130.397	609.89	-799.54	1,017.13	948.93	68.20	14.914		
2,900.00	2,898.51	2,898.62	2,898.47	7.19	63.31	-130.914	609.39	-799.54	1,025.01	954.74	70.27	14.587		
3,000.00	2,997.72	2,997.83	2,997.68	7.38	65.42	-131.438	609.39	-799.54	1,033.31	960.77	72.54	14.245		
3,100.00	3,096.93	3,097.04	3,096.89	7.59	67.54	-131.953	609.39	-799.54	1,041.69	966.87	74.82	13.923		
3,200.00	3,196.13	3,197.24	3,197.08	7.82	69.67	-132.418	610.45	-799.54	1,050.76	973.63	77.13	13.624		
3,300.00	3,295.34	3,298.55	3,298.38	8.06	71.83	-132.943	610.10	-799.54	1,059.11	979.64	79.47	13.327		
3,400.00	3,394.55	3,399.85	3,399.67	8.32	73.98	-133.475	609.40	-799.54	1,067.35	985.53	81.83	13.044		
3,500.00	3,493.76	3,493.95	3,493.72	8.59	76.03	-133.933	609.39	-799.54	1,076.04	991.96	84.09	12.797		
3,600.00	3,592.97	3,593.16	3,592.93	8.88	78.20	-134.409	609.39	-799.54	1,084.82	998.36	86.46	12.546		
3,700.00	3,692.18	3,693.25	3,693.01	9.17	80.38	-134.834	610.45	-799.54	1,094.24	1,005.37	88.87	12.313		
3,800.00	3,791.39	3,794.52	3,794.28	9.47	82.59	-135.318	610.11	-799.54	1,102.98	1,011.67	91.31	12.079		
3,900.00	3,890.60	3,895.78	3,895.53	9.79	84.80	-135.811	609.42	-799.54	1,111.63	1,017.86	93.76	11.856		
4,000.00	3,989.81	3,990.10	3,989.77	10.11	86.66	-136.236	609.39	-799.54	1,120.66	1,024.79	95.87	11.689		
4,100.00	4,089.02	4,089.94	4,089.60	10.44	88.62	-136.636	610.32	-799.54	1,130.26	1,032.17	98.09	11.523		
4,200.00	4,188.23	4,192.87	4,192.52	10.77	90.64	-137.103	609.87	-799.54	1,139.24	1,038.86	100.38	11.350		
4,300.00	4,287.44	4,287.78	4,287.40	11.11	92.52	-137.530	609.39	-799.54	1,148.25	1,045.72	102.53	11.199		
4,400.00	4,386.65	4,386.99	4,386.61	11.46	94.50	-137.948	609.39	-799.54	1,157.57	1,052.78	104.79	11.046		
4,500.00	4,485.86	4,486.20	4,485.82	11.81	96.49	-138.360	609.39	-799.54	1,166.95	1,059.89	107.06	10.900		
4,600.00	4,585.07	4,586.84	4,586.46	12.16	98.50	-138.741	610.07	-799.54	1,176.71	1,067.35	109.37	10.759		
4,700.00	4,684.28	4,687.54	4,687.15	12.52	100.52	-139.162	609.67	-799.54	1,186.03	1,074.35	111.68	10.620		

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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
4,800.00	4,783.48	4,783.87	4,783.44	12.89	102.45	-139.555	609.39	-799.54	1,195.45	1,081.54	113.91	10.495
4,900.00	4,882.69	4,883.08	4,882.65	13.26	104.43	-139.941	609.39	-799.54	1,205.06	1,088.86	116.20	10.371
5,000.00	4,981.90	4,982.29	4,981.86	13.63	106.42	-140.320	609.39	-799.54	1,214.72	1,096.22	118.50	10.251
5,100.00	5,081.11	5,082.93	5,082.50	14.00	108.43	-140.671	610.07	-799.54	1,224.74	1,103.91	120.83	10.136
5,200.00	5,180.32	5,183.58	5,183.15	14.38	110.45	-141.061	609.67	-799.54	1,234.33	1,111.16	123.16	10.022
5,300.00	5,279.53	5,279.96	5,279.49	14.75	112.40	-141.424	609.39	-799.54	1,244.02	1,118.57	125.45	9.917
5,400.00	5,378.74	5,379.17	5,378.70	15.14	114.45	-141.781	609.39	-799.54	1,253.88	1,126.06	127.82	9.810
5,500.00	5,477.95	5,478.38	5,477.91	15.52	116.49	-142.132	609.39	-799.54	1,263.80	1,133.60	130.20	9.707
5,600.00	5,577.16	5,579.00	5,578.52	15.91	118.56	-142.454	610.06	-799.54	1,274.04	1,141.43	132.61	9.608
5,700.00	5,676.37	5,679.61	5,679.13	16.29	120.64	-142.816	609.66	-799.54	1,283.88	1,148.85	135.02	9.509
5,800.00	5,775.58	5,776.06	5,775.54	16.68	122.62	-143.152	609.39	-799.54	1,293.81	1,156.46	137.35	9.420
5,900.00	5,874.79	5,875.27	5,874.75	17.07	124.66	-143.482	609.39	-799.54	1,303.91	1,164.16	139.74	9.331
6,000.00	5,974.00	5,974.49	5,973.96	17.47	126.71	-143.763	610.47	-799.54	1,314.47	1,172.33	142.13	9.248
6,100.00	6,073.21	6,075.55	6,075.01	17.86	128.79	-144.097	610.29	-799.54	1,324.57	1,180.00	144.57	9.162
6,200.00	6,172.42	6,176.59	6,176.04	18.25	130.87	-144.439	609.75	-799.54	1,334.58	1,187.56	147.01	9.078
6,300.00	6,271.63	6,272.17	6,271.59	18.65	132.90	-144.752	609.39	-799.54	1,344.69	1,195.28	149.41	9.000
6,400.00	6,370.83	6,371.38	6,370.79	19.05	135.08	-145.057	609.39	-799.54	1,354.99	1,203.04	151.95	8.917
6,500.00	6,470.04	6,470.59	6,470.00	19.45	137.26	-145.358	609.39	-799.54	1,365.32	1,210.83	154.49	8.838
6,600.00	6,569.25	6,571.10	6,570.51	19.85	139.46	-145.631	610.08	-799.54	1,375.94	1,218.88	157.06	8.760
6,700.00	6,668.46	6,671.63	6,671.03	20.25	141.67	-145.943	609.68	-799.54	1,386.20	1,226.56	159.64	8.683
6,800.00	6,767.67	6,768.31	6,767.63	20.65	143.89	-146.234	609.39	-799.54	1,396.54	1,234.30	162.23	8.608
6,900.00	6,866.88	6,867.52	6,866.84	21.05	146.28	-146.517	609.39	-799.54	1,407.01	1,242.02	165.00	8.528
7,000.00	6,966.09	6,966.73	6,966.05	21.46	148.66	-146.797	609.39	-799.54	1,417.52	1,249.76	167.76	8.450
7,100.00	7,065.30	7,068.49	7,067.78	21.86	151.11	-147.027	610.76	-799.54	1,428.53	1,257.95	170.58	8.374
7,200.00	7,164.51	7,170.34	7,169.61	22.26	153.57	-147.335	609.96	-799.54	1,438.84	1,265.42	173.42	8.297
7,300.00	7,263.72	7,264.53	7,263.68	22.67	155.84	-147.610	609.39	-799.54	1,449.24	1,273.16	176.08	8.231
7,400.00	7,362.93	7,363.74	7,362.89	23.08	158.25	-147.873	609.39	-799.54	1,459.88	1,281.01	178.87	8.162
7,500.00	7,462.14	7,462.95	7,462.10	23.48	160.66	-148.133	609.39	-799.54	1,470.55	1,288.88	181.66	8.095
7,600.00	7,561.37	7,564.59	7,563.71	23.87	163.12	-148.378	610.78	-799.54	1,481.51	1,297.02	184.49	8.030
7,700.00	7,660.93	7,666.71	7,665.81	24.28	165.60	-148.690	610.00	-799.54	1,489.21	1,301.85	187.36	7.948
7,800.00	7,760.78	7,761.77	7,760.74	24.65	167.95	-148.865	609.39	-799.54	1,493.57	1,303.54	190.03	7.860
7,900.00	7,860.77	7,861.75	7,860.73	24.82	170.47	-151.582	609.39	-799.54	1,494.96	1,302.25	192.71	7.758
8,000.00	7,959.98	7,960.97	7,959.94	25.28	172.97	-151.305	609.39	-799.54	1,505.03	1,309.39	195.64	7.693 SF
8,100.00	8,055.71	8,058.89	8,057.83	25.82	175.43	-150.517	610.82	-799.54	1,530.63	1,331.96	198.66	7.705
8,200.00	8,145.03	8,150.39	8,149.33	26.38	177.74	-149.202	610.17	-799.54	1,570.12	1,368.52	201.60	7.788
8,300.00	8,225.24	8,226.42	8,225.20	26.91	179.65	-146.911	609.39	-799.54	1,623.16	1,418.99	204.17	7.950
8,400.00	8,293.90	8,295.08	8,293.86	27.39	181.39	-143.233	609.39	-799.54	1,688.66	1,482.11	206.55	8.176
8,500.00	8,348.91	8,350.10	8,348.87	27.78	182.79	-137.226	609.39	-799.54	1,764.61	1,556.07	208.53	8.462
8,600.00	8,388.62	8,389.81	8,388.58	28.07	183.79	-127.178	609.39	-799.54	1,848.84	1,638.79	210.05	8.802
8,700.00	8,411.81	8,413.00	8,411.77	28.25	184.38	-110.388	609.39	-799.54	1,938.87	1,727.83	211.04	9.187
8,800.00	8,418.00	8,419.19	8,417.96	28.31	184.54	-90.000	609.39	-799.54	2,031.96	1,820.47	211.48	9.608

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		Offset Wellbore Centre		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	0.00	0.00	0.00	0.00	-17.469	1,928.89	-607.02	2,022.16				
100.00	100.00	91.96	91.96	0.79	2.63	-17.469	1,928.89	-607.02	2,022.15	2,018.73	3.42	591.496	
200.00	200.00	191.96	191.96	1.45	5.50	-17.469	1,928.89	-607.02	2,022.15	2,015.20	6.94	291.275	
300.00	300.00	291.96	291.96	1.89	8.36	-17.469	1,928.89	-607.02	2,022.15	2,011.90	10.25	197.259	
400.00	400.00	391.96	391.96	2.25	11.22	-17.469	1,928.89	-607.02	2,022.15	2,008.67	13.48	150.050	
500.00	500.00	491.97	491.96	2.57	13.93	-17.469	1,928.89	-607.02	2,022.15	2,005.65	16.49	122.607	
600.00	600.00	591.97	591.96	2.85	16.60	-17.469	1,928.89	-607.02	2,022.15	2,002.69	19.45	103.950	
700.00	700.00	692.58	692.57	3.11	19.30	-17.464	1,929.47	-607.02	2,022.70	2,000.29	22.41	90.274	
800.00	800.00	795.83	795.82	3.35	22.06	-17.465	1,929.35	-607.02	2,022.59	1,997.18	25.41	79.592	
900.00	900.00	899.08	899.07	3.58	24.83	-17.467	1,929.05	-607.02	2,022.32	1,993.92	28.40	71.199	
1,000.00	1,000.00	991.99	991.96	3.79	27.00	-17.469	1,928.89	-607.02	2,022.15	1,991.36	30.79	65.675	
1,100.00	1,100.00	1,091.99	1,091.96	3.99	29.06	-17.469	1,928.89	-607.02	2,022.15	1,989.09	33.05	61.179	
1,200.00	1,200.00	1,192.04	1,192.01	4.19	31.12	-17.464	1,929.43	-607.02	2,022.67	1,987.36	35.31	57.286	
1,300.00	1,300.00	1,295.53	1,295.51	4.38	33.25	-17.465	1,929.33	-607.02	2,022.58	1,984.95	37.63	53.754	
1,400.00	1,400.00	1,399.03	1,399.00	4.56	35.38	-17.467	1,929.05	-607.02	2,022.32	1,982.38	39.94	50.635	
1,500.00	1,500.00	1,492.02	1,491.96	4.74	37.31	-17.469	1,928.89	-607.02	2,022.15	1,980.10	42.05	48.092	
1,600.00	1,600.00	1,592.02	1,591.96	4.91	39.40	-17.469	1,928.89	-607.02	2,022.15	1,977.83	44.31	45.634	
1,700.00	1,700.00	1,692.07	1,692.01	5.08	41.49	-17.462	1,929.71	-607.02	2,022.93	1,976.36	46.57	43.435	
1,800.00	1,800.00	1,797.38	1,797.32	5.24	43.70	-17.463	1,929.56	-607.02	2,022.80	1,973.86	48.94	41.331	
1,900.00	1,900.00	1,902.69	1,902.63	5.40	45.90	-17.467	1,929.12	-607.02	2,022.40	1,971.10	51.30	39.420	
2,000.00	2,000.00	1,992.07	1,991.96	5.56	47.88	-17.469	1,928.89	-607.02	2,022.15	1,968.71	53.44	37.841	
2,100.00	2,100.00	2,092.07	2,091.96	5.71	50.19	-17.469	1,928.89	-607.02	2,022.15	1,966.25	55.90	36.176	
2,200.00	2,200.00	2,192.07	2,191.96	5.86	52.49	-17.469	1,928.89	-607.02	2,022.15	1,963.79	58.35	34.653	
2,300.00	2,300.00	2,299.17	2,299.05	6.01	54.96	-17.461	1,929.79	-607.02	2,023.02	1,962.05	60.97	33.180	
2,400.00	2,400.00	2,406.38	2,406.24	6.16	57.43	-17.466	1,929.20	-607.02	2,022.49	1,958.90	63.59	31.806	
2,500.00	2,500.00	2,492.22	2,491.96	6.30	59.55	-17.469	1,928.89	-607.02	2,022.15	1,956.30	65.85	30.708 CC	
2,600.00	2,599.97	2,592.20	2,591.93	6.54	62.15	-94.672	1,928.89	-607.02	2,022.31	1,953.73	68.58	29.489	
2,700.00	2,699.79	2,692.01	2,691.75	6.78	64.74	-94.828	1,928.89	-607.02	2,022.80	1,951.51	71.29	28.373	
2,800.00	2,799.29	2,797.60	2,797.29	7.03	67.48	-95.089	1,931.02	-607.02	2,025.71	1,951.55	74.16	27.316	
2,900.00	2,898.51	2,907.96	2,907.63	7.19	70.35	-95.480	1,930.36	-607.02	2,026.29	1,949.16	77.13	26.270	
3,000.00	2,997.72	3,018.30	3,017.95	7.38	73.22	-95.881	1,929.06	-607.02	2,026.41	1,946.29	80.12	25.292	
3,037.54	3,034.96	3,059.72	3,059.35	7.46	74.29	-96.033	1,928.41	-607.02	2,026.34	1,945.10	81.24	24.942	
3,100.00	3,096.93	3,089.35	3,088.89	7.59	74.92	-96.133	1,928.89	-607.02	2,027.37	1,945.41	81.96	24.737	
3,200.00	3,196.13	3,188.56	3,188.09	7.82	77.26	-96.483	1,928.89	-607.02	2,028.76	1,944.33	84.42	24.031	
3,300.00	3,295.34	3,290.50	3,290.02	8.06	79.66	-96.830	1,930.12	-607.02	2,031.39	1,944.43	86.96	23.361	
3,400.00	3,394.55	3,399.60	3,399.11	8.32	82.23	-97.217	1,929.68	-607.02	2,032.55	1,942.90	89.66	22.670	
3,500.00	3,493.76	3,508.68	3,508.17	8.59	84.81	-97.609	1,928.68	-607.02	2,033.32	1,940.96	92.36	22.016	
3,600.00	3,592.97	3,585.56	3,584.93	8.88	86.60	-97.876	1,928.89	-607.02	2,035.08	1,940.79	94.29	21.583	
3,700.00	3,692.18	3,684.77	3,684.14	9.17	88.93	-98.223	1,928.89	-607.02	2,036.85	1,940.10	96.75	21.053	
3,800.00	3,791.39	3,791.21	3,790.55	9.47	91.42	-98.577	1,930.61	-607.02	2,040.31	1,940.93	99.38	20.531	
3,900.00	3,890.60	3,904.07	3,903.39	9.79	94.07	-98.978	1,929.78	-607.02	2,041.55	1,939.40	102.15	19.985	
4,000.00	3,989.81	3,982.54	3,981.77	10.11	95.87	-99.260	1,928.89	-607.02	2,042.62	1,938.52	104.10	19.622	
4,100.00	4,089.02	4,081.75	4,080.98	10.44	97.86	-99.605	1,928.89	-607.02	2,044.69	1,938.46	106.23	19.247 ES	
4,200.00	4,188.23	4,183.03	4,182.25	10.77	99.90	-99.947	1,929.69	-607.02	2,047.58	1,939.17	108.41	18.887	
4,300.00	4,287.44	4,291.79	4,291.01	11.11	102.09	-100.327	1,929.30	-607.02	2,049.47	1,938.73	110.74	18.507	
4,400.00	4,386.65	4,379.43	4,378.61	11.46	103.92	-100.634	1,928.89	-607.02	2,051.36	1,938.64	112.72	18.199	
4,500.00	4,485.86	4,478.64	4,477.82	11.81	106.12	-100.975	1,928.89	-607.02	2,053.73	1,938.66	115.07	17.848	
4,600.00	4,585.07	4,577.85	4,577.03	12.16	108.32	-101.316	1,928.89	-607.02	2,056.17	1,938.75	117.42	17.512	
4,700.00	4,684.28	4,682.92	4,682.08	12.52	110.65	-101.665	1,929.83	-607.02	2,059.55	1,939.65	119.90	17.177	
4,800.00	4,783.48	4,789.15	4,788.30	12.89	113.01	-102.034	1,929.30	-607.02	2,061.69	1,939.28	122.41	16.842	
4,900.00	4,882.69	4,875.57	4,874.65	13.26	115.02	-102.333	1,928.89	-607.02	2,063.95	1,939.37	124.57	16.568 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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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)		
14,800.00	8,418.00	8,429.36	8,427.96	137.32	205.68	-90.000	1,943.36	8,432.79	2,052.86	1,737.46	315.40	6.509	
14,900.00	8,418.00	8,429.36	8,427.96	139.38	205.68	-90.000	1,943.36	8,432.79	1,994.02	1,673.87	320.16	6.228	
15,000.00	8,418.00	8,429.36	8,427.96	141.43	205.68	-90.000	1,943.36	8,432.79	1,938.56	1,613.54	325.02	5.964	
15,100.00	8,418.00	8,429.36	8,427.96	143.49	205.68	-90.000	1,943.36	8,432.79	1,886.77	1,556.81	329.96	5.718	
15,200.00	8,418.00	8,429.36	8,427.96	145.55	205.68	-90.000	1,943.36	8,432.79	1,838.96	1,504.03	334.93	5.491	
15,300.00	8,418.00	8,429.36	8,427.96	147.61	205.68	-90.000	1,943.36	8,432.79	1,795.46	1,455.59	339.87	5.283	
15,400.00	8,418.00	8,429.36	8,427.96	149.67	205.68	-90.000	1,943.36	8,432.79	1,756.57	1,411.86	344.71	5.096	
15,500.00	8,418.00	8,429.36	8,427.96	151.72	205.68	-90.000	1,943.36	8,432.79	1,722.62	1,373.24	349.39	4.930	
15,600.00	8,418.00	8,429.36	8,427.96	153.78	205.68	-90.000	1,943.36	8,432.79	1,693.90	1,340.08	353.82	4.787	
15,700.00	8,418.00	8,429.36	8,427.96	155.84	205.68	-90.000	1,943.36	8,432.79	1,670.69	1,312.76	357.93	4.668	
15,800.00	8,418.00	8,429.36	8,427.96	157.90	205.68	-90.000	1,943.36	8,432.79	1,653.20	1,291.56	361.64	4.571	
15,900.00	8,418.00	8,429.36	8,427.96	159.96	205.68	-90.000	1,943.36	8,432.79	1,641.63	1,276.75	364.88	4.499	
16,000.00	8,418.00	8,429.36	8,427.96	162.02	205.68	-90.000	1,943.36	8,432.79	1,636.11	1,268.52	367.59	4.451	
16,040.59	8,418.00	8,429.36	8,427.96	162.86	205.68	-90.000	1,943.36	8,432.79	1,635.60	1,267.07	368.53	4.438 CC	
16,100.00	8,418.00	8,429.36	8,427.96	164.08	205.68	-90.000	1,943.36	8,432.79	1,636.68	1,266.95	369.73	4.427 ES	
16,200.00	8,418.00	8,429.36	8,427.96	166.14	205.68	-90.000	1,943.36	8,432.79	1,643.35	1,272.08	371.27	4.426 SF	
16,300.00	8,418.00	8,429.36	8,427.96	168.20	205.68	-90.000	1,943.36	8,432.79	1,656.05	1,283.83	372.22	4.449	
16,400.00	8,418.00	8,429.36	8,427.96	170.27	205.68	-90.000	1,943.36	8,432.79	1,674.63	1,302.04	372.59	4.495	
16,500.00	8,418.00	8,429.36	8,427.96	172.33	205.68	-90.000	1,943.36	8,432.79	1,698.90	1,326.49	372.41	4.562	
16,600.00	8,418.00	8,429.36	8,427.96	174.39	205.68	-90.000	1,943.36	8,432.79	1,728.62	1,356.90	371.73	4.650	
16,700.00	8,418.00	8,429.36	8,427.96	176.45	205.68	-90.000	1,943.36	8,432.79	1,763.52	1,392.92	370.60	4.759	
16,800.00	8,418.00	8,429.36	8,427.96	178.51	205.68	-90.000	1,943.36	8,432.79	1,803.30	1,434.20	369.10	4.886	
16,900.00	8,418.00	8,429.36	8,427.96	180.57	205.68	-90.000	1,943.36	8,432.79	1,847.64	1,480.37	367.28	5.031	
17,000.00	8,418.00	8,429.36	8,427.96	182.64	205.68	-90.000	1,943.36	8,432.79	1,896.22	1,531.02	365.20	5.192	
17,100.00	8,418.00	8,429.36	8,427.96	184.70	205.68	-90.000	1,943.36	8,432.79	1,948.73	1,585.80	362.93	5.369	
17,200.00	8,418.00	8,429.36	8,427.96	186.76	205.68	-90.000	1,943.36	8,432.79	2,004.85	1,644.34	360.51	5.561	
17,300.00	8,418.00	8,429.36	8,427.96	188.82	205.68	-90.000	1,943.36	8,432.79	2,064.29	1,706.30	357.99	5.766	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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
8,800.00	8,418.00	8,416.59	8,414.05	28.31	204.73	-91.926	619.25	3,161.91	1,997.67	1,764.66	233.01	8.573
8,900.00	8,418.00	8,416.54	8,414.01	28.34	204.72	-90.597	619.25	3,161.91	1,897.74	1,664.71	233.03	8.144
9,000.00	8,418.00	8,416.50	8,413.97	28.37	204.72	-90.351	619.25	3,161.91	1,798.00	1,564.96	233.05	7.715
9,100.00	8,418.00	8,416.48	8,413.94	28.42	204.72	-90.250	619.25	3,161.91	1,698.64	1,465.57	233.07	7.288
9,200.00	8,418.00	8,416.46	8,413.93	28.53	204.72	-90.197	619.25	3,161.91	1,599.85	1,366.73	233.11	6.863
9,300.00	8,418.00	8,416.46	8,413.92	28.82	204.72	-90.169	619.25	3,161.91	1,501.86	1,268.69	233.17	6.441
9,400.00	8,418.00	8,416.46	8,413.92	29.64	204.72	-90.169	619.25	3,161.91	1,404.43	1,171.17	233.26	6.021
9,500.00	8,418.00	8,416.46	8,413.92	31.07	204.72	-90.168	619.25	3,161.91	1,307.39	1,074.01	233.38	5.602
9,600.00	8,418.00	8,416.46	8,413.92	32.77	204.72	-90.168	619.25	3,161.91	1,210.83	977.28	233.55	5.184
9,700.00	8,418.00	8,416.45	8,413.92	34.55	204.72	-90.168	619.25	3,161.91	1,114.88	881.09	233.79	4.769
9,800.00	8,418.00	8,416.45	8,413.92	36.39	204.72	-90.168	619.25	3,161.91	1,019.71	785.59	234.12	4.356
9,900.00	8,418.00	8,416.45	8,413.92	38.27	204.72	-90.168	619.25	3,161.91	925.55	690.96	234.59	3.945
10,000.00	8,418.00	8,416.45	8,413.92	40.16	204.72	-90.168	619.25	3,161.91	832.76	597.49	235.27	3.540
10,100.00	8,418.00	8,416.45	8,413.92	42.08	204.72	-90.167	619.25	3,161.91	741.84	505.60	236.25	3.140
10,200.00	8,418.00	8,416.45	8,413.92	44.01	204.72	-90.167	619.25	3,161.91	653.59	415.90	237.69	2.750
10,300.00	8,418.00	8,416.45	8,413.91	45.96	204.72	-90.167	619.25	3,161.91	569.23	329.42	239.81	2.374
10,400.00	8,418.00	8,416.45	8,413.91	47.91	204.72	-90.167	619.25	3,161.91	490.78	247.89	242.89	2.021
10,500.00	8,418.00	8,416.45	8,413.91	49.88	204.72	-90.167	619.25	3,161.91	421.56	174.37	247.18	1.705 Level 3
10,600.00	8,418.00	8,416.45	8,413.91	51.85	204.72	-90.167	619.25	3,161.91	366.82	114.28	252.53	1.453 Level 3
10,700.00	8,418.00	8,416.45	8,413.91	53.83	204.72	-90.166	619.25	3,161.91	333.77	76.08	257.68	1.295 Level 3
10,765.78	8,418.00	8,416.44	8,413.91	55.14	204.72	-90.166	619.25	3,161.91	327.22	67.37	259.85	1.259 Level 3, CC, ES, SF
10,800.00	8,418.00	8,416.44	8,413.91	55.82	204.72	-90.166	619.25	3,161.91	329.00	68.64	260.37	1.264 Level 3
10,900.00	8,418.00	8,416.44	8,413.91	57.81	204.72	-90.166	619.25	3,161.91	353.68	94.14	259.53	1.363 Level 3
11,000.00	8,418.00	8,416.44	8,413.91	59.81	204.72	-90.166	619.25	3,161.91	402.41	145.89	256.52	1.569 Level 3
11,100.00	8,418.00	8,416.44	8,413.91	61.81	204.72	-90.166	619.25	3,161.91	467.74	214.66	253.07	1.848 Level 3
11,200.00	8,418.00	8,416.44	8,413.91	63.82	204.72	-90.166	619.25	3,161.91	543.71	293.69	250.02	2.175
11,300.00	8,418.00	8,416.44	8,413.91	65.83	204.72	-90.166	619.25	3,161.91	626.47	378.90	247.57	2.531
11,400.00	8,418.00	8,416.44	8,413.90	67.85	204.72	-90.165	619.25	3,161.91	713.66	468.02	245.64	2.905
11,500.00	8,418.00	8,416.44	8,413.90	69.86	204.72	-90.165	619.25	3,161.91	803.84	559.70	244.14	3.293
11,600.00	8,418.00	8,416.44	8,413.90	71.88	204.72	-90.165	619.25	3,161.91	896.10	653.14	242.96	3.688
11,700.00	8,418.00	8,416.44	8,413.90	73.91	204.72	-90.165	619.25	3,161.91	989.87	747.85	242.02	4.090
11,800.00	8,418.00	8,416.44	8,413.90	75.93	204.72	-90.165	619.25	3,161.91	1,084.75	843.48	241.27	4.496
11,900.00	8,418.00	8,416.43	8,413.90	77.96	204.72	-90.165	619.25	3,161.91	1,180.48	939.82	240.66	4.905
12,000.00	8,418.00	8,416.43	8,413.90	79.99	204.72	-90.164	619.25	3,161.91	1,276.86	1,036.70	240.16	5.317
12,100.00	8,418.00	8,416.43	8,413.90	82.02	204.72	-90.164	619.25	3,161.91	1,373.76	1,134.01	239.75	5.730
12,200.00	8,418.00	8,416.43	8,413.90	84.06	204.72	-90.164	619.25	3,161.91	1,471.08	1,231.67	239.40	6.145
12,300.00	8,418.00	8,416.43	8,413.90	86.09	204.72	-90.164	619.25	3,161.91	1,568.73	1,329.61	239.11	6.561
12,400.00	8,418.00	8,416.43	8,413.90	88.13	204.72	-90.164	619.25	3,161.91	1,666.66	1,427.79	238.87	6.977
12,500.00	8,418.00	8,416.43	8,413.89	90.17	204.72	-90.164	619.25	3,161.91	1,764.82	1,526.16	238.67	7.395
12,600.00	8,418.00	8,416.43	8,413.89	92.21	204.72	-90.163	619.25	3,161.91	1,863.18	1,624.69	238.49	7.812
12,700.00	8,418.00	8,416.43	8,413.89	94.25	204.72	-90.163	619.25	3,161.91	1,961.70	1,723.36	238.35	8.231
12,800.00	8,418.00	8,416.43	8,413.89	96.30	204.72	-90.163	619.25	3,161.91	2,060.37	1,822.15	238.22	8.649

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	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	71.532	614.75	1,840.70	1,940.89				
100.00	100.00	68.96	68.96	0.79	7.31	71.532	614.75	1,840.70	1,940.64	1,932.55	8.10	239.716	
200.00	200.00	168.96	168.96	1.45	17.91	71.532	614.75	1,840.70	1,940.64	1,921.29	19.36	100.260	
300.00	300.00	268.96	268.96	1.89	28.51	71.532	614.75	1,840.70	1,940.64	1,910.24	30.40	63.834	
400.00	400.00	368.96	368.96	2.25	39.11	71.532	614.75	1,840.70	1,940.64	1,899.28	41.36	46.917	
500.00	500.00	468.96	468.96	2.57	49.71	71.532	614.75	1,840.70	1,940.64	1,888.37	52.28	37.122	
600.00	600.00	568.96	568.96	2.85	60.31	71.532	614.75	1,840.70	1,940.64	1,877.48	63.16	30.726	
700.00	700.00	668.96	668.96	3.11	70.91	71.532	614.75	1,840.70	1,940.64	1,866.63	74.02	26.219	
800.00	800.00	768.96	768.96	3.35	81.51	71.532	614.75	1,840.70	1,940.64	1,855.79	84.86	22.869	
900.00	900.00	868.96	868.96	3.58	92.11	71.532	614.75	1,840.70	1,940.64	1,844.96	95.69	20.282	
1,000.00	1,000.00	968.96	968.96	3.79	102.71	71.532	614.75	1,840.70	1,940.64	1,834.14	106.50	18.222	
1,100.00	1,100.00	1,068.96	1,068.96	3.99	113.31	71.532	614.75	1,840.70	1,940.64	1,823.34	117.30	16.544	
1,200.00	1,200.00	1,168.96	1,168.96	4.19	123.91	71.532	614.75	1,840.70	1,940.64	1,812.54	128.10	15.149	
1,300.00	1,300.00	1,268.96	1,268.96	4.38	134.51	71.532	614.75	1,840.70	1,940.64	1,801.75	138.89	13.973	
1,400.00	1,400.00	1,368.96	1,368.96	4.56	145.11	71.532	614.75	1,840.70	1,940.64	1,790.97	149.67	12.966	
1,500.00	1,500.00	1,468.96	1,468.96	4.74	155.71	71.532	614.75	1,840.70	1,940.64	1,780.19	160.45	12.095	
1,600.00	1,600.00	1,568.96	1,568.96	4.91	166.31	71.532	614.75	1,840.70	1,940.64	1,769.42	171.22	11.334	
1,700.00	1,700.00	1,668.96	1,668.96	5.08	176.91	71.532	614.75	1,840.70	1,940.64	1,758.65	181.99	10.664	
1,800.00	1,800.00	1,768.96	1,768.96	5.24	187.51	71.532	614.75	1,840.70	1,940.64	1,747.89	192.75	10.068	
1,900.00	1,900.00	1,868.96	1,868.96	5.40	198.11	71.532	614.75	1,840.70	1,940.64	1,737.13	203.51	9.536	
2,000.00	2,000.00	1,968.96	1,968.96	5.56	208.71	71.532	614.75	1,840.70	1,940.64	1,726.38	214.27	9.057	
2,100.00	2,100.00	2,068.96	2,068.96	5.71	219.31	71.532	614.75	1,840.70	1,940.64	1,715.62	225.02	8.624	
2,200.00	2,200.00	2,168.96	2,168.96	5.86	229.91	71.532	614.75	1,840.70	1,940.64	1,704.87	235.77	8.231	
2,300.00	2,300.00	2,268.96	2,268.96	6.01	240.51	71.532	614.75	1,840.70	1,940.64	1,694.12	246.52	7.872	
2,400.00	2,400.00	2,368.96	2,368.96	6.16	251.11	71.532	614.75	1,840.70	1,940.64	1,683.38	257.27	7.543	
2,500.00	2,500.00	2,468.96	2,468.96	6.30	261.71	71.532	614.75	1,840.70	1,940.64	1,672.64	268.01	7.241	
2,600.00	2,599.97	2,568.93	2,568.93	6.54	272.31	-5.629	614.75	1,840.70	1,938.67	1,659.82	278.84	6.953	
2,700.00	2,699.79	2,668.75	2,668.75	6.78	282.89	-5.659	614.75	1,840.70	1,932.74	1,643.08	289.66	6.672	
2,800.00	2,799.29	2,768.25	2,768.25	7.03	293.43	-5.711	614.75	1,840.70	1,922.87	1,622.41	300.46	6.400	
2,900.00	2,898.51	2,867.47	2,867.47	7.19	303.95	-5.753	614.75	1,840.70	1,910.44	1,599.30	311.14	6.140	
3,000.00	2,997.72	2,966.68	2,966.68	7.38	314.47	-5.791	614.75	1,840.70	1,897.95	1,576.11	321.85	5.897	
3,100.00	3,096.93	3,065.89	3,065.89	7.59	324.98	-5.829	614.75	1,840.70	1,885.47	1,552.90	332.57	5.669	
3,200.00	3,196.13	3,165.09	3,165.09	7.82	335.50	-5.868	614.75	1,840.70	1,872.98	1,529.67	343.32	5.456	
3,300.00	3,295.34	3,264.30	3,264.30	8.06	346.02	-5.908	614.75	1,840.70	1,860.50	1,506.42	354.07	5.255	
3,400.00	3,394.55	3,363.51	3,363.51	8.32	356.53	-5.948	614.75	1,840.70	1,848.01	1,483.17	364.85	5.065	
3,500.00	3,493.76	3,462.72	3,462.72	8.59	367.05	-5.988	614.75	1,840.70	1,835.53	1,459.90	375.63	4.886	
3,600.00	3,592.97	3,561.93	3,561.93	8.88	377.56	-6.029	614.75	1,840.70	1,823.05	1,436.62	386.43	4.718	
3,700.00	3,692.18	3,661.14	3,661.14	9.17	388.08	-6.071	614.75	1,840.70	1,810.57	1,413.33	397.24	4.558	
3,800.00	3,791.39	3,760.35	3,760.35	9.47	398.60	-6.113	614.75	1,840.70	1,798.09	1,390.03	408.06	4.406	
3,900.00	3,890.60	3,859.56	3,859.56	9.79	409.11	-6.156	614.75	1,840.70	1,785.61	1,366.72	418.89	4.263	
4,000.00	3,989.81	3,958.77	3,958.77	10.11	419.63	-6.200	614.75	1,840.70	1,773.13	1,343.41	429.72	4.126	
4,100.00	4,089.02	4,057.98	4,057.98	10.44	430.15	-6.244	614.75	1,840.70	1,760.65	1,320.09	440.56	3.996	
4,200.00	4,188.23	4,157.19	4,157.19	10.77	440.66	-6.289	614.75	1,840.70	1,748.18	1,296.76	451.41	3.873	
4,300.00	4,287.44	4,256.40	4,256.40	11.11	451.18	-6.334	614.75	1,840.70	1,735.70	1,273.43	462.27	3.755	
4,400.00	4,386.65	4,355.61	4,355.61	11.46	461.69	-6.380	614.75	1,840.70	1,723.23	1,250.10	473.13	3.642	
4,500.00	4,485.86	4,454.82	4,454.82	11.81	472.21	-6.427	614.75	1,840.70	1,710.75	1,226.76	483.99	3.535	
4,600.00	4,585.07	4,554.03	4,554.03	12.16	482.73	-6.474	614.75	1,840.70	1,698.28	1,203.42	494.86	3.432	
4,700.00	4,684.28	4,653.24	4,653.24	12.52	493.24	-6.522	614.75	1,840.70	1,685.81	1,180.07	505.74	3.333	
4,800.00	4,783.48	4,752.44	4,752.44	12.89	503.76	-6.571	614.75	1,840.70	1,673.34	1,156.73	516.62	3.239	
4,900.00	4,882.69	4,851.65	4,851.65	13.26	514.28	-6.620	614.75	1,840.70	1,660.87	1,133.38	527.50	3.149	
5,000.00	4,981.90	4,950.86	4,950.86	13.63	524.79	-6.671	614.75	1,840.70	1,648.41	1,110.03	538.38	3.062	
5,100.00	5,081.11	5,050.07	5,050.07	14.00	535.31	-6.722	614.75	1,840.70	1,635.94	1,086.67	549.27	2.978	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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												Offset Well Error:	0.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.00	5,180.32	5,149.28	5,149.28	14.38	545.82	-6.774	614.75	1,840.70	1,623.48	1,063.32	560.16	2.898	
5,300.00	5,279.53	5,248.49	5,248.49	14.75	556.34	-6.826	614.75	1,840.70	1,611.01	1,039.96	571.05	2.821	
5,400.00	5,378.74	5,347.70	5,347.70	15.14	566.86	-6.880	614.75	1,840.70	1,598.55	1,016.61	581.94	2.747	
5,500.00	5,477.95	5,446.91	5,446.91	15.52	577.37	-6.934	614.75	1,840.70	1,586.09	993.25	592.84	2.675	
5,600.00	5,577.16	5,482.00	5,482.00	15.91	581.09	-6.953	614.75	1,840.70	1,574.94	978.44	596.50	2.640 SF	
5,700.00	5,676.37	5,482.00	5,482.00	16.29	581.09	-6.953	614.75	1,840.70	1,569.70	975.45	594.25	2.641 ES	
5,732.43	5,708.54	5,482.00	5,482.00	16.42	581.09	-6.953	614.75	1,840.70	1,569.36	976.36	593.00	2.646 CC	
5,800.00	5,775.58	5,482.00	5,482.00	16.68	581.09	-6.953	614.75	1,840.70	1,570.81	981.22	589.60	2.664	
5,900.00	5,874.79	5,482.00	5,482.00	17.07	581.09	-6.953	614.75	1,840.70	1,578.28	995.66	582.62	2.709	
6,000.00	5,974.00	5,482.00	5,482.00	17.47	581.09	-6.953	614.75	1,840.70	1,592.01	1,018.53	573.48	2.776	
6,100.00	6,073.21	5,482.00	5,482.00	17.86	581.09	-6.953	614.75	1,840.70	1,611.83	1,049.46	562.37	2.866	
6,200.00	6,172.42	5,482.00	5,482.00	18.25	581.09	-6.953	614.75	1,840.70	1,637.53	1,087.95	549.58	2.980	
6,300.00	6,271.63	5,482.00	5,482.00	18.65	581.09	-6.953	614.75	1,840.70	1,668.84	1,133.43	535.41	3.117	
6,400.00	6,370.83	5,482.00	5,482.00	19.05	581.09	-6.953	614.75	1,840.70	1,705.44	1,185.29	520.16	3.279	
6,500.00	6,470.04	5,482.00	5,482.00	19.45	581.09	-6.953	614.75	1,840.70	1,747.01	1,242.87	504.14	3.465	
6,600.00	6,569.25	5,482.00	5,482.00	19.85	581.09	-6.953	614.75	1,840.70	1,793.20	1,305.57	487.63	3.677	
6,700.00	6,668.46	5,482.00	5,482.00	20.25	581.09	-6.953	614.75	1,840.70	1,843.66	1,372.78	470.88	3.915	
6,800.00	6,767.67	5,482.00	5,482.00	20.65	581.09	-6.953	614.75	1,840.70	1,898.05	1,443.94	454.11	4.180	
6,900.00	6,866.88	5,482.00	5,482.00	21.05	581.09	-6.953	614.75	1,840.70	1,956.04	1,518.56	437.49	4.471	
7,000.00	6,966.09	5,482.00	5,482.00	21.46	581.09	-6.953	614.75	1,840.70	2,017.33	1,596.17	421.16	4.790	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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)			
0.00	0.00	3.07	3.07	0.00	0.02	-8.730	256.64	-39.41	259.65	259.65			
100.00	100.00	103.07	103.07	0.79	0.81	-8.730	256.64	-39.41	259.65	258.06	1.59	163.140	
200.00	200.00	203.07	203.07	1.45	1.46	-8.730	256.64	-39.41	259.65	256.74	2.91	89.353	
300.00	300.00	303.07	303.07	1.89	1.90	-8.730	256.64	-39.41	259.65	255.85	3.79	68.428	
400.00	400.00	403.07	403.07	2.25	2.26	-8.730	256.64	-39.41	259.65	255.13	4.52	57.482	
500.00	500.00	503.07	503.07	2.57	2.58	-8.730	256.64	-39.41	259.65	254.50	5.14	50.476	
600.00	600.00	603.07	603.07	2.85	2.86	-8.730	256.64	-39.41	259.65	253.94	5.71	45.495	
700.00	700.00	703.07	703.07	3.11	3.12	-8.730	256.64	-39.41	259.65	253.42	6.22	41.719	
800.00	800.00	803.07	803.07	3.35	3.36	-8.730	256.64	-39.41	259.65	252.94	6.70	38.727	
900.00	900.00	903.07	903.07	3.58	3.58	-8.730	256.64	-39.41	259.65	252.49	7.16	36.280	
1,000.00	1,000.00	1,003.07	1,003.07	3.79	3.80	-8.730	256.64	-39.41	259.65	252.06	7.59	34.228	
1,100.00	1,100.00	1,103.07	1,103.07	3.99	4.00	-8.730	256.64	-39.41	259.65	251.65	7.99	32.476	
1,200.00	1,200.00	1,203.07	1,203.07	4.19	4.20	-8.730	256.64	-39.41	259.65	251.26	8.39	30.957	
1,300.00	1,300.00	1,303.07	1,303.07	4.38	4.39	-8.730	256.64	-39.41	259.65	250.88	8.77	29.622	
1,400.00	1,400.00	1,403.07	1,403.07	4.56	4.57	-8.730	256.64	-39.41	259.65	250.52	9.13	28.437	
1,500.00	1,500.00	1,503.07	1,503.07	4.74	4.74	-8.730	256.64	-39.41	259.65	250.16	9.48	27.376	
1,600.00	1,600.00	1,603.07	1,603.07	4.91	4.92	-8.730	256.64	-39.41	259.65	249.82	9.83	26.418	
1,700.00	1,700.00	1,703.07	1,703.07	5.08	5.08	-8.730	256.64	-39.41	259.65	249.48	10.16	25.548	
1,800.00	1,800.00	1,803.07	1,803.07	5.24	5.25	-8.730	256.64	-39.41	259.65	249.16	10.49	24.752	
1,900.00	1,900.00	1,903.07	1,903.07	5.40	5.41	-8.730	256.64	-39.41	259.65	248.84	10.81	24.020	
2,000.00	2,000.00	2,003.07	2,003.07	5.56	5.56	-8.730	256.64	-39.41	259.65	248.53	11.12	23.345	
2,100.00	2,100.00	2,103.07	2,103.07	5.71	5.72	-8.730	256.64	-39.41	259.65	248.22	11.43	22.720	
2,200.00	2,200.00	2,203.07	2,203.07	5.86	5.87	-8.730	256.64	-39.41	259.65	247.92	11.73	22.137	
2,300.00	2,300.00	2,303.07	2,303.07	6.01	6.01	-8.730	256.64	-39.41	259.65	247.62	12.02	21.594	
2,400.00	2,400.00	2,403.07	2,403.07	6.16	6.16	-8.730	256.64	-39.41	259.65	247.33	12.31	21.084	
2,500.00	2,500.00	2,503.07	2,503.07	6.30	6.30	-8.730	256.64	-39.41	259.65	247.05	12.60	20.606	
2,600.00	2,599.97	2,603.04	2,603.04	6.54	6.44	-86.321	256.64	-39.41	259.51	246.64	12.87	20.159	
2,700.00	2,699.79	2,702.86	2,702.86	6.78	6.58	-87.639	256.64	-39.41	259.20	246.07	13.13	19.736	
2,800.00	2,799.29	2,802.36	2,802.36	7.03	6.72	-89.825	256.64	-39.41	258.98	245.59	13.39	19.339	
2,806.68	2,805.92	2,808.99	2,808.99	7.04	6.73	-90.000	256.64	-39.41	258.98	245.57	13.41	19.316	
2,900.00	2,898.51	2,901.58	2,901.58	7.19	6.85	-92.566	256.64	-39.41	259.24	245.61	13.63	19.013	
3,000.00	2,997.72	3,000.79	3,000.79	7.38	6.98	-95.307	256.64	-39.41	260.11	246.22	13.89	18.720	
3,100.00	3,096.93	3,100.00	3,100.00	7.59	7.12	-98.024	256.64	-39.41	261.58	247.42	14.16	18.477	
3,200.00	3,196.13	3,199.20	3,199.20	7.82	7.24	-100.705	256.64	-39.41	263.64	249.21	14.42	18.278	
3,300.00	3,295.34	3,298.41	3,298.41	8.06	7.37	-103.340	256.64	-39.41	266.27	251.58	14.70	18.118	
3,400.00	3,394.55	3,397.62	3,397.62	8.32	7.50	-105.918	256.64	-39.41	269.47	254.49	14.98	17.992	
3,500.00	3,493.76	3,496.83	3,496.83	8.59	7.62	-108.432	256.64	-39.41	273.20	257.93	15.27	17.894	
3,600.00	3,592.97	3,601.39	3,601.37	8.88	7.81	-110.695	256.66	-37.62	276.52	260.95	15.58	17.751	
3,700.00	3,692.18	3,706.78	3,706.60	9.17	7.99	-112.269	256.72	-31.95	278.15	262.27	15.88	17.518	
3,800.00	3,791.39	3,812.57	3,811.95	9.47	8.19	-113.179	256.82	-22.38	277.82	261.64	16.18	17.169	
3,900.00	3,890.60	3,918.47	3,916.98	9.79	8.41	-113.436	256.97	-8.90	275.39	258.91	16.48	16.710	
4,000.00	3,989.81	4,024.18	4,021.26	10.11	8.65	-113.025	257.16	8.41	270.82	254.05	16.77	16.149	
4,100.00	4,089.02	4,129.44	4,124.38	10.44	8.89	-111.910	257.38	29.46	264.18	247.15	17.03	15.513	
4,200.00	4,188.23	4,231.05	4,223.28	10.77	9.10	-110.196	257.64	52.79	256.00	238.75	17.25	14.841	
4,300.00	4,287.44	4,330.38	4,319.88	11.11	9.33	-108.345	257.88	75.92	247.89	230.39	17.50	14.165	
4,400.00	4,386.65	4,429.72	4,416.49	11.46	9.58	-106.373	258.13	99.05	240.06	222.31	17.74	13.530	
4,500.00	4,485.86	4,529.06	4,513.10	11.81	9.85	-104.271	258.38	122.19	232.53	214.55	17.98	12.935	
4,600.00	4,585.07	4,628.40	4,609.70	12.16	10.14	-102.032	258.63	145.32	225.33	207.13	18.21	12.377	
4,700.00	4,684.28	4,727.74	4,706.31	12.52	10.44	-99.651	258.88	168.45	218.50	200.07	18.43	11.855	
4,800.00	4,783.48	4,827.07	4,802.92	12.89	10.75	-97.123	259.13	191.58	212.08	193.42	18.66	11.368	
4,900.00	4,882.69	4,926.41	4,899.52	13.26	11.08	-94.443	259.38	214.72	206.10	187.21	18.89	10.913	
5,000.00	4,981.90	5,025.75	4,996.13	13.63	11.41	-91.612	259.63	237.85	200.59	181.46	19.13	10.485	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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)		
5,100.00	5,081.11	5,125.09	5,092.74	14.00	11.76	-88.630	259.88	260.98	195.61	176.20	19.40	10.081	
5,200.00	5,180.32	5,224.42	5,189.34	14.38	12.12	-85.503	260.13	284.11	191.18	171.47	19.71	9.697	
5,300.00	5,279.53	5,323.76	5,285.95	14.75	12.48	-82.240	260.38	307.24	187.36	167.28	20.08	9.330	
5,400.00	5,378.74	5,423.10	5,382.56	15.14	12.86	-78.855	260.63	330.38	184.18	163.66	20.52	8.975	
5,500.00	5,477.95	5,522.44	5,479.16	15.52	13.24	-75.364	260.88	353.51	181.67	160.62	21.04	8.632	
5,600.00	5,577.16	5,621.78	5,575.77	15.91	13.62	-71.790	261.13	376.64	179.85	158.19	21.67	8.301	
5,700.00	5,676.37	5,721.11	5,672.38	16.29	14.02	-68.159	261.38	399.77	178.76	156.37	22.40	7.982	
5,798.19	5,773.78	5,818.65	5,767.24	16.67	14.41	-64.565	261.62	422.49	178.41	155.19	23.22	7.685	
5,800.00	5,775.58	5,820.45	5,768.99	16.68	14.42	-64.499	261.63	422.90	178.41	155.17	23.23	7.679	
5,900.00	5,874.79	5,919.79	5,865.59	17.07	14.82	-60.839	261.88	446.04	178.79	154.62	24.17	7.396	
6,000.00	5,974.00	6,019.13	5,962.20	17.47	15.23	-57.210	262.13	469.17	179.91	154.70	25.21	7.136	
6,100.00	6,073.21	6,118.47	6,058.81	17.86	15.64	-53.639	262.38	492.30	181.74	155.41	26.33	6.903	
6,200.00	6,172.42	6,217.80	6,155.41	18.25	16.06	-50.152	262.63	515.43	184.28	156.77	27.52	6.697	
6,300.00	6,271.63	6,317.14	6,252.02	18.65	16.48	-46.770	262.88	538.57	187.49	158.74	28.75	6.521	
6,400.00	6,370.83	6,416.48	6,348.63	19.05	16.91	-43.512	263.13	561.70	191.33	161.31	30.02	6.373	
6,500.00	6,470.04	6,515.82	6,445.23	19.45	17.33	-40.390	263.38	584.83	195.78	164.47	31.31	6.253	
6,600.00	6,569.25	6,615.16	6,541.84	19.85	17.77	-37.414	263.63	607.96	200.78	168.18	32.60	6.158	
6,700.00	6,668.46	6,714.79	6,638.74	20.25	18.21	-34.581	263.88	631.16	206.30	172.40	33.90	6.085	
6,800.00	6,767.67	6,819.72	6,741.25	20.65	18.67	-32.162	264.12	653.50	210.84	175.69	35.15	5.998	
6,900.00	6,866.88	6,925.21	6,845.07	21.05	19.14	-30.536	264.32	672.16	213.00	176.78	36.22	5.881	
7,000.00	6,966.09	7,030.98	6,949.78	21.46	19.59	-29.630	264.48	687.03	212.55	175.45	37.09	5.730	
7,100.00	7,065.30	7,136.75	7,054.98	21.86	20.01	-29.421	264.60	698.02	209.37	171.59	37.78	5.542	
7,200.00	7,164.51	7,242.23	7,160.21	22.26	20.39	-29.931	264.67	705.10	203.44	165.20	38.24	5.321	
7,300.00	7,263.72	7,347.13	7,265.06	22.67	20.66	-31.240	264.71	708.30	194.85	156.45	38.40	5.075	
7,400.00	7,362.93	7,448.07	7,366.00	23.08	20.75	-33.248	264.71	708.51	184.35	146.07	38.29	4.815	
7,500.00	7,462.14	7,547.28	7,465.21	23.48	20.80	-35.509	264.71	708.51	173.97	135.88	38.09	4.568	
7,600.00	7,561.37	7,646.51	7,564.44	23.87	20.85	-37.963	264.71	708.51	164.05	126.28	37.76	4.344	
7,700.00	7,660.93	7,746.08	7,664.00	24.28	20.89	-39.942	264.71	708.51	156.81	119.27	37.54	4.177	
7,800.00	7,760.78	7,845.93	7,763.85	24.65	20.94	-41.164	264.71	708.51	152.75	115.25	37.50	4.073	
7,900.00	7,860.77	7,945.91	7,863.84	24.82	20.99	-44.246	264.71	708.51	151.54	113.96	37.58	4.032	
8,000.00	7,959.98	8,045.13	7,963.05	25.28	21.04	-48.005	264.71	708.51	143.57	106.60	36.97	3.883	
8,100.00	8,055.71	8,140.85	8,058.78	25.82	21.08	-58.869	264.71	708.51	126.05	91.70	34.35	3.670	
8,200.00	8,145.03	8,230.17	8,148.10	26.38	21.13	-79.061	264.71	708.51	108.40	78.93	29.47	3.678	
8,243.20	8,180.95	8,266.09	8,184.02	26.61	21.14	-90.000	264.71	708.51	105.72	77.14	28.57	3.700 CC, ES	
8,300.00	8,225.24	8,310.38	8,228.31	26.91	21.16	-104.112	264.71	708.51	111.53	80.01	31.51	3.539 SF	
8,400.00	8,293.90	8,379.04	8,296.97	27.39	21.20	-122.428	264.71	708.51	151.17	110.53	40.64	3.720	
8,500.00	8,348.91	8,434.06	8,351.98	27.78	21.22	-130.760	264.71	708.51	218.66	173.19	45.47	4.809	
8,600.00	8,388.62	8,473.76	8,391.69	28.07	21.24	-130.243	264.71	708.51	302.15	254.61	47.54	6.356	
8,700.00	8,411.81	8,496.96	8,414.88	28.25	21.26	-117.793	264.71	708.51	394.62	346.13	48.49	8.139	
8,800.00	8,418.00	8,503.14	8,421.07	28.31	21.26	-90.000	264.71	708.51	491.41	442.49	48.92	10.045	
8,900.00	8,418.00	8,503.14	8,421.07	28.34	21.26	-90.000	264.71	708.51	589.84	540.72	49.12	12.009	
9,000.00	8,418.00	8,503.14	8,421.07	28.37	21.26	-90.000	264.71	708.51	689.15	639.93	49.22	14.001	
9,100.00	8,418.00	8,503.14	8,421.07	28.42	21.26	-90.000	264.71	708.51	788.92	739.63	49.28	16.009	
9,200.00	8,418.00	8,503.14	8,421.07	28.53	21.26	-90.000	264.71	708.51	888.87	839.56	49.31	18.025	
9,300.00	8,418.00	10,184.82	9,360.00	28.82	27.62	178.780	267.66	1,697.17	939.14	900.04	39.10	24.017	
9,300.00	8,418.00	10,184.82	9,360.00	28.82	27.62	178.780	267.66	1,697.18	939.14	900.04	39.10	24.017	
9,400.00	8,418.00	10,284.82	9,360.00	29.64	29.37	178.780	267.96	1,797.17	939.14	899.14	40.01	23.475	
9,400.00	8,418.00	10,284.82	9,360.00	29.64	29.37	178.780	267.96	1,797.18	939.14	899.14	40.01	23.475	
9,500.00	8,418.00	10,384.82	9,360.00	31.07	31.15	178.780	268.26	1,897.17	939.14	898.19	40.95	22.934	
9,500.00	8,418.00	10,384.82	9,360.00	31.07	31.15	178.780	268.26	1,897.17	939.14	898.19	40.95	22.934	
9,600.00	8,418.00	10,484.82	9,360.00	32.77	32.97	178.780	268.55	1,997.17	939.14	897.21	41.93	22.397	
9,600.00	8,418.00	10,484.82	9,360.00	32.77	32.97	178.780	268.55	1,997.17	939.14	897.21	41.93	22.397	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
9,700.00	8,418.00	10,584.82	9,360.00	34.55	34.81	178.780	268.85	2,097.17	939.14	896.20	42.95	21.867	
9,700.00	8,418.00	10,584.82	9,360.00	34.55	34.81	178.780	268.85	2,097.17	939.14	896.20	42.95	21.867	
9,800.00	8,418.00	10,684.82	9,360.00	36.39	36.68	178.780	269.15	2,197.17	939.14	895.15	44.00	21.346	
9,800.00	8,418.00	10,684.82	9,360.00	36.39	36.68	178.780	269.15	2,197.17	939.14	895.15	44.00	21.346	
9,900.00	8,418.00	10,784.82	9,360.00	38.27	38.58	178.780	269.45	2,297.17	939.14	894.07	45.08	20.834	
9,900.00	8,418.00	10,784.82	9,360.00	38.27	38.58	178.780	269.45	2,297.17	939.14	894.07	45.08	20.834	
10,000.00	8,418.00	10,884.82	9,360.00	40.16	40.48	178.780	269.75	2,397.17	939.14	892.96	46.18	20.335	
10,000.00	8,418.00	10,884.82	9,360.00	40.16	40.48	178.780	269.75	2,397.17	939.14	892.96	46.18	20.335	
10,100.00	8,418.00	10,984.82	9,360.00	42.08	42.41	178.780	270.05	2,497.17	939.14	891.82	47.32	19.847	
10,100.00	8,418.00	10,984.82	9,360.00	42.08	42.41	178.780	270.05	2,497.17	939.14	891.82	47.32	19.847	
10,200.00	8,418.00	11,084.82	9,360.00	44.01	44.34	178.780	270.34	2,597.17	939.14	890.67	48.48	19.373	
10,200.00	8,418.00	11,084.82	9,360.00	44.01	44.34	178.780	270.34	2,597.17	939.14	890.67	48.48	19.373	
10,300.00	8,418.00	11,184.82	9,360.00	45.96	46.29	178.780	270.64	2,697.17	939.14	889.48	49.66	18.912	
10,300.00	8,418.00	11,184.82	9,360.00	45.96	46.29	178.780	270.64	2,697.17	939.14	889.48	49.66	18.912	
10,400.00	8,418.00	11,284.82	9,360.00	47.91	48.25	178.780	270.94	2,797.17	939.14	888.28	50.86	18.465	
10,400.00	8,418.00	11,284.82	9,360.00	47.91	48.25	178.780	270.94	2,797.17	939.14	888.28	50.86	18.465	
10,500.00	8,418.00	11,384.82	9,360.00	49.88	50.22	178.780	271.24	2,897.17	939.14	887.06	52.08	18.032	
10,500.00	8,418.00	11,384.82	9,360.00	49.88	50.22	178.780	271.24	2,897.17	939.14	887.06	52.08	18.032	
10,600.00	8,418.00	11,484.82	9,360.00	51.85	52.19	178.780	271.54	2,997.17	939.14	885.82	53.32	17.613	
10,600.00	8,418.00	11,484.82	9,360.00	51.85	52.19	178.780	271.54	2,997.17	939.14	885.82	53.32	17.613	
10,700.00	8,418.00	11,584.82	9,360.00	53.83	54.17	178.780	271.83	3,097.17	939.14	884.56	54.58	17.207	
10,700.00	8,418.00	11,584.82	9,360.00	53.83	54.17	178.780	271.83	3,097.17	939.14	884.56	54.58	17.207	
10,800.00	8,418.00	11,684.82	9,360.00	55.82	56.16	178.780	272.13	3,197.17	939.14	883.29	55.85	16.815	
10,800.00	8,418.00	11,684.82	9,360.00	55.82	56.16	178.780	272.13	3,197.17	939.14	883.29	55.85	16.815	
10,900.00	8,418.00	11,784.82	9,360.00	57.81	58.16	178.780	272.43	3,297.17	939.14	882.00	57.14	16.436	
10,900.00	8,418.00	11,784.82	9,360.00	57.81	58.16	178.780	272.43	3,297.17	939.14	882.00	57.14	16.436	
11,000.00	8,418.00	11,884.82	9,360.00	59.81	60.16	178.780	272.73	3,397.17	939.14	880.70	58.44	16.069	
11,000.00	8,418.00	11,884.82	9,360.00	59.81	60.16	178.780	272.73	3,397.17	939.14	880.70	58.44	16.069	
11,100.00	8,418.00	11,984.82	9,360.00	61.81	62.16	178.780	273.03	3,497.17	939.14	879.39	59.76	15.716	
11,100.00	8,418.00	11,984.82	9,360.00	61.81	62.16	178.780	273.03	3,497.17	939.14	879.39	59.76	15.716	
11,200.00	8,418.00	12,084.82	9,360.00	63.82	64.17	178.780	273.33	3,597.17	939.14	878.06	61.08	15.374	
11,200.00	8,418.00	12,084.82	9,360.00	63.82	64.17	178.780	273.33	3,597.17	939.14	878.06	61.08	15.374	
11,300.00	8,418.00	12,184.82	9,360.00	65.83	66.18	178.780	273.62	3,697.17	939.14	876.72	62.42	15.045	
11,300.00	8,418.00	12,184.82	9,360.00	65.83	66.18	178.780	273.62	3,697.17	939.14	876.72	62.42	15.045	
11,400.00	8,418.00	12,284.82	9,360.00	67.85	68.19	178.780	273.92	3,797.17	939.14	875.37	63.77	14.727	
11,400.00	8,418.00	12,284.82	9,360.00	67.85	68.19	178.780	273.92	3,797.17	939.14	875.37	63.77	14.727	
11,500.00	8,418.00	12,384.82	9,360.00	69.86	70.21	178.780	274.22	3,897.17	939.14	874.01	65.13	14.419	
11,500.00	8,418.00	12,384.82	9,360.00	69.86	70.21	178.780	274.22	3,897.17	939.14	874.01	65.13	14.419	
11,600.00	8,418.00	12,484.82	9,360.00	71.88	72.23	178.780	274.52	3,997.17	939.14	872.64	66.50	14.123	
11,600.00	8,418.00	12,484.82	9,360.00	71.88	72.23	178.780	274.52	3,997.17	939.14	872.64	66.50	14.123	
11,700.00	8,418.00	12,584.82	9,360.00	73.91	74.26	178.780	274.82	4,097.17	939.14	871.27	67.88	13.836	
11,700.00	8,418.00	12,584.82	9,360.00	73.91	74.26	178.780	274.82	4,097.17	939.14	871.27	67.88	13.836	
11,800.00	8,418.00	12,684.82	9,360.00	75.93	76.28	178.780	275.11	4,197.17	939.14	869.88	69.26	13.559	
11,800.00	8,418.00	12,684.82	9,360.00	75.93	76.28	178.780	275.11	4,197.17	939.14	869.88	69.26	13.559	
11,900.00	8,418.00	12,784.82	9,360.00	77.96	78.31	178.780	275.41	4,297.17	939.14	868.49	70.66	13.292	
11,900.00	8,418.00	12,784.82	9,360.00	77.96	78.31	178.780	275.41	4,297.17	939.14	868.49	70.66	13.292	
12,000.00	8,418.00	12,884.82	9,360.00	79.99	80.34	178.780	275.71	4,397.17	939.14	867.09	72.06	13.034	
12,000.00	8,418.00	12,884.82	9,360.00	79.99	80.34	178.780	275.71	4,397.17	939.14	867.09	72.06	13.034	
12,100.00	8,418.00	12,984.82	9,360.00	82.02	82.38	178.780	276.01	4,497.17	939.14	865.68	73.46	12.784	
12,100.00	8,418.00	12,984.82	9,360.00	82.02	82.38	178.780	276.01	4,497.17	939.14	865.68	73.46	12.784	
12,200.00	8,418.00	13,084.82	9,360.00	84.06	84.41	178.780	276.31	4,597.17	939.14	864.27	74.88	12.542	
12,200.00	8,418.00	13,084.82	9,360.00	84.06	84.41	178.780	276.31	4,597.17	939.14	864.27	74.88	12.542	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	
12,300.00	8,418.00	13,184.82	9,360.00	86.09	86.45	178.780	276.61	4,697.16	939.14	862.85	76.30	12.309	
12,300.00	8,418.00	13,184.82	9,360.00	86.09	86.45	178.780	276.61	4,697.16	939.14	862.85	76.30	12.309	
12,400.00	8,418.00	13,284.82	9,360.00	88.13	88.48	178.780	276.90	4,797.16	939.14	861.42	77.72	12.083	
12,400.00	8,418.00	13,284.82	9,360.00	88.13	88.48	178.780	276.90	4,797.16	939.14	861.42	77.72	12.083	
12,500.00	8,418.00	13,384.82	9,360.00	90.17	90.52	178.780	277.20	4,897.16	939.14	859.99	79.16	11.865	
12,500.00	8,418.00	13,384.82	9,360.00	90.17	90.52	178.780	277.20	4,897.16	939.14	859.99	79.16	11.865	
12,600.00	8,418.00	13,484.82	9,360.00	92.21	92.56	178.780	277.50	4,997.16	939.14	858.55	80.59	11.653	
12,600.00	8,418.00	13,484.82	9,360.00	92.21	92.56	178.780	277.50	4,997.16	939.14	858.55	80.59	11.653	
12,700.00	8,418.00	13,584.82	9,360.00	94.25	94.60	178.780	277.80	5,097.16	939.14	857.11	82.03	11.448	
12,700.00	8,418.00	13,584.82	9,360.00	94.25	94.60	178.780	277.80	5,097.16	939.14	857.11	82.03	11.448	
12,800.00	8,418.00	13,684.82	9,360.00	96.30	96.65	178.780	278.10	5,197.16	939.14	855.66	83.48	11.250	
12,800.00	8,418.00	13,684.82	9,360.00	96.30	96.65	178.780	278.10	5,197.16	939.14	855.66	83.48	11.250	
12,900.00	8,418.00	13,784.82	9,360.00	98.34	98.69	178.780	278.40	5,297.16	939.14	854.21	84.93	11.058	
12,900.00	8,418.00	13,784.82	9,360.00	98.34	98.69	178.780	278.40	5,297.16	939.14	854.21	84.93	11.058	
13,000.00	8,418.00	13,884.82	9,360.00	100.38	100.74	178.780	278.69	5,397.16	939.14	852.76	86.39	10.871	
13,000.00	8,418.00	13,884.82	9,360.00	100.38	100.74	178.780	278.69	5,397.16	939.14	852.76	86.39	10.871	
13,100.00	8,418.00	13,984.82	9,360.00	102.43	102.78	178.780	278.99	5,497.16	939.14	851.30	87.85	10.691	
13,100.00	8,418.00	13,984.82	9,360.00	102.43	102.78	178.780	278.99	5,497.16	939.14	851.30	87.85	10.691	
13,200.00	8,418.00	14,084.82	9,360.00	104.48	104.83	178.780	279.29	5,597.16	939.14	849.83	89.31	10.516	
13,200.00	8,418.00	14,084.82	9,360.00	104.48	104.83	178.780	279.29	5,597.16	939.14	849.83	89.31	10.516	
13,300.00	8,418.00	14,184.82	9,360.00	106.52	106.88	178.780	279.59	5,697.16	939.14	848.37	90.78	10.346	
13,300.00	8,418.00	14,184.82	9,360.00	106.52	106.88	178.780	279.59	5,697.16	939.14	848.37	90.78	10.346	
13,400.00	8,418.00	14,284.82	9,360.00	108.57	108.92	178.780	279.89	5,797.16	939.14	846.90	92.25	10.181	
13,400.00	8,418.00	14,284.82	9,360.00	108.57	108.92	178.780	279.89	5,797.16	939.14	846.90	92.25	10.181	
13,500.00	8,418.00	14,384.82	9,360.00	110.62	110.97	178.780	280.18	5,897.15	939.14	845.42	93.72	10.021	
13,500.00	8,418.00	14,384.82	9,360.00	110.62	110.97	178.780	280.18	5,897.15	939.14	845.42	93.72	10.021	
13,600.00	8,418.00	14,484.82	9,360.00	112.67	113.02	178.780	280.48	5,997.15	939.14	843.95	95.20	9.865	
13,600.00	8,418.00	14,484.82	9,360.00	112.67	113.02	178.780	280.48	5,997.15	939.14	843.95	95.20	9.865	
13,700.00	8,418.00	14,584.82	9,360.00	114.72	115.07	178.780	280.78	6,097.15	939.14	842.47	96.68	9.714	
13,700.00	8,418.00	14,584.82	9,360.00	114.72	115.07	178.780	280.78	6,097.15	939.14	842.47	96.68	9.714	
13,800.00	8,418.00	14,684.82	9,360.00	116.77	117.13	178.780	281.08	6,197.15	939.14	840.98	98.16	9.568	
13,800.00	8,418.00	14,684.82	9,360.00	116.77	117.13	178.780	281.08	6,197.15	939.14	840.98	98.16	9.568	
13,900.00	8,418.00	14,784.82	9,360.00	118.83	119.18	178.780	281.38	6,297.15	939.14	839.50	99.64	9.425	
13,900.00	8,418.00	14,784.82	9,360.00	118.83	119.18	178.780	281.38	6,297.15	939.14	839.50	99.64	9.425	
14,000.00	8,418.00	14,884.82	9,360.00	120.88	121.23	178.780	281.68	6,397.15	939.14	838.01	101.13	9.286	
14,000.00	8,418.00	14,884.82	9,360.00	120.88	121.23	178.780	281.68	6,397.15	939.14	838.01	101.13	9.286	
14,100.00	8,418.00	14,984.82	9,360.00	122.93	123.28	178.780	281.97	6,497.15	939.14	836.52	102.62	9.151	
14,100.00	8,418.00	14,984.82	9,360.00	122.93	123.28	178.780	281.97	6,497.15	939.14	836.52	102.62	9.151	
14,200.00	8,418.00	15,084.82	9,360.00	124.99	125.34	178.780	282.27	6,597.15	939.14	835.03	104.11	9.020	
14,200.00	8,418.00	15,084.82	9,360.00	124.99	125.34	178.780	282.27	6,597.15	939.14	835.03	104.11	9.020	
14,300.00	8,418.00	15,184.82	9,360.00	127.04	127.39	178.780	282.57	6,697.15	939.14	833.53	105.61	8.893	
14,300.00	8,418.00	15,184.82	9,360.00	127.04	127.39	178.780	282.57	6,697.15	939.14	833.53	105.61	8.893	
14,400.00	8,418.00	15,284.82	9,360.00	129.10	129.45	178.780	282.87	6,797.15	939.14	832.04	107.11	8.768	
14,400.00	8,418.00	15,284.82	9,360.00	129.10	129.45	178.780	282.87	6,797.15	939.14	832.04	107.11	8.768	
14,500.00	8,418.00	15,384.82	9,360.00	131.15	131.50	178.780	283.17	6,897.15	939.14	830.54	108.61	8.647	
14,500.00	8,418.00	15,384.82	9,360.00	131.15	131.50	178.780	283.17	6,897.15	939.14	830.54	108.61	8.647	
14,600.00	8,418.00	15,484.82	9,360.00	133.21	133.56	178.780	283.46	6,997.15	939.14	829.03	110.11	8.529	
14,600.00	8,418.00	15,484.82	9,360.00	133.21	133.56	178.780	283.46	6,997.15	939.14	829.03	110.11	8.529	
14,700.00	8,418.00	15,584.82	9,360.00	135.26	135.61	178.780	283.76	7,097.15	939.14	827.53	111.61	8.414	
14,700.00	8,418.00	15,584.82	9,360.00	135.26	135.61	178.780	283.76	7,097.15	939.14	827.53	111.61	8.414	
14,800.00	8,418.00	15,684.82	9,360.00	137.32	137.67	178.780	284.06	7,197.15	939.14	826.03	113.12	8.302	
14,800.00	8,418.00	15,684.82	9,360.00	137.32	137.67	178.780	284.06	7,197.15	939.14	826.03	113.12	8.302	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
14,900.00	8,418.00	15,784.82	9,360.00	139.38	139.73	178.780	284.36	7,297.15	939.14	824.52	114.62	8.193	
14,900.00	8,418.00	15,784.82	9,360.00	139.38	139.73	178.780	284.36	7,297.15	939.14	824.52	114.62	8.193	
15,000.00	8,418.00	15,884.82	9,360.00	141.43	141.78	178.780	284.66	7,397.15	939.14	823.01	116.13	8.087	
15,000.00	8,418.00	15,884.82	9,360.00	141.43	141.78	178.780	284.66	7,397.15	939.14	823.01	116.13	8.087	
15,100.00	8,418.00	15,984.82	9,360.00	143.49	143.84	178.780	284.96	7,497.15	939.14	821.50	117.64	7.983	
15,100.00	8,418.00	15,984.82	9,360.00	143.49	143.84	178.780	284.96	7,497.15	939.14	821.50	117.64	7.983	
15,200.00	8,418.00	16,084.82	9,360.00	145.55	145.90	178.780	285.25	7,597.15	939.14	819.99	119.16	7.882	
15,200.00	8,418.00	16,084.82	9,360.00	145.55	145.90	178.780	285.25	7,597.15	939.14	819.99	119.16	7.882	
15,300.00	8,418.00	16,184.82	9,360.00	147.61	147.96	178.780	285.55	7,697.15	939.14	818.47	120.67	7.783	
15,300.00	8,418.00	16,184.82	9,360.00	147.61	147.96	178.780	285.55	7,697.15	939.14	818.47	120.67	7.783	
15,400.00	8,418.00	16,284.82	9,360.00	149.67	150.01	178.780	285.85	7,797.15	939.14	816.96	122.18	7.686	
15,400.00	8,418.00	16,284.82	9,360.00	149.67	150.01	178.780	285.85	7,797.15	939.14	816.96	122.18	7.686	
15,500.00	8,418.00	16,384.82	9,360.00	151.72	152.07	178.780	286.15	7,897.15	939.14	815.44	123.70	7.592	
15,500.00	8,418.00	16,384.82	9,360.00	151.72	152.07	178.780	286.15	7,897.15	939.14	815.44	123.70	7.592	
15,600.00	8,418.00	16,484.82	9,360.00	153.78	154.13	178.780	286.45	7,997.15	939.14	813.92	125.22	7.500	
15,600.00	8,418.00	16,484.82	9,360.00	153.78	154.13	178.780	286.45	7,997.15	939.14	813.92	125.22	7.500	
15,700.00	8,418.00	16,584.82	9,360.00	155.84	156.19	178.780	286.75	8,097.14	939.14	812.41	126.74	7.410	
15,700.00	8,418.00	16,584.82	9,360.00	155.84	156.19	178.780	286.75	8,097.15	939.14	812.41	126.74	7.410	
15,800.00	8,418.00	16,684.82	9,360.00	157.90	158.25	178.780	287.04	8,197.14	939.14	810.88	128.26	7.322	
15,800.00	8,418.00	16,684.82	9,360.00	157.90	158.25	178.780	287.04	8,197.15	939.14	810.88	128.26	7.322	
15,900.00	8,418.00	16,784.82	9,360.00	159.96	160.31	178.780	287.34	8,297.14	939.14	809.36	129.78	7.236	
15,900.00	8,418.00	16,784.82	9,360.00	159.96	160.31	178.780	287.34	8,297.15	939.14	809.36	129.78	7.236	
16,000.00	8,418.00	16,884.82	9,360.00	162.02	162.37	178.780	287.64	8,397.14	939.14	807.84	131.30	7.152	
16,000.00	8,418.00	16,884.82	9,360.00	162.02	162.37	178.780	287.64	8,397.15	939.14	807.84	131.30	7.152	
16,100.00	8,418.00	16,984.82	9,360.00	164.08	164.43	178.780	287.94	8,497.14	939.14	806.32	132.83	7.070	
16,100.00	8,418.00	16,984.82	9,360.00	164.08	164.43	178.780	287.94	8,497.15	939.14	806.32	132.83	7.070	
16,200.00	8,418.00	17,084.82	9,360.00	166.14	166.49	178.780	288.24	8,597.14	939.14	804.79	134.35	6.990	
16,200.00	8,418.00	17,084.82	9,360.00	166.14	166.49	178.780	288.24	8,597.15	939.14	804.79	134.35	6.990	
16,300.00	8,418.00	17,184.82	9,360.00	168.20	168.55	178.780	288.53	8,697.14	939.14	803.26	135.88	6.912	
16,300.00	8,418.00	17,184.82	9,360.00	168.20	168.55	178.780	288.53	8,697.14	939.14	803.26	135.88	6.912	
16,400.00	8,418.00	17,284.82	9,360.00	170.27	170.61	178.780	288.83	8,797.14	939.14	801.74	137.41	6.835	
16,400.00	8,418.00	17,284.82	9,360.00	170.27	170.61	178.780	288.83	8,797.14	939.14	801.74	137.41	6.835	
16,500.00	8,418.00	17,384.82	9,360.00	172.33	172.67	178.780	289.13	8,897.14	939.14	800.21	138.93	6.760	
16,500.00	8,418.00	17,384.82	9,360.00	172.33	172.67	178.780	289.13	8,897.14	939.14	800.21	138.93	6.760	
16,600.00	8,418.00	17,484.82	9,360.00	174.39	174.73	178.780	289.43	8,997.14	939.14	798.68	140.46	6.686	
16,600.00	8,418.00	17,484.82	9,360.00	174.39	174.73	178.780	289.43	8,997.14	939.14	798.68	140.46	6.686	
16,700.00	8,418.00	17,584.82	9,360.00	176.45	176.80	178.780	289.73	9,097.14	939.14	797.15	141.99	6.614	
16,700.00	8,418.00	17,584.82	9,360.00	176.45	176.80	178.780	289.73	9,097.14	939.14	797.15	141.99	6.614	
16,800.00	8,418.00	17,684.82	9,360.00	178.51	178.86	178.780	290.03	9,197.14	939.14	795.62	143.52	6.543	
16,800.00	8,418.00	17,684.82	9,360.00	178.51	178.86	178.780	290.03	9,197.14	939.14	795.62	143.52	6.543	
16,900.00	8,418.00	17,784.82	9,360.00	180.57	180.92	178.780	290.32	9,297.14	939.14	794.09	145.06	6.474	
16,900.00	8,418.00	17,784.82	9,360.00	180.57	180.92	178.780	290.32	9,297.14	939.14	794.09	145.06	6.474	
17,000.00	8,418.00	17,884.82	9,360.00	182.64	182.98	178.780	290.62	9,397.14	939.14	792.55	146.59	6.407	
17,000.00	8,418.00	17,884.82	9,360.00	182.64	182.98	178.780	290.62	9,397.14	939.14	792.55	146.59	6.407	
17,100.00	8,418.00	17,984.82	9,360.00	184.70	185.04	178.780	290.92	9,497.14	939.14	791.02	148.12	6.340	
17,100.00	8,418.00	17,984.82	9,360.00	184.70	185.04	178.780	290.92	9,497.14	939.14	791.02	148.12	6.340	
17,200.00	8,418.00	18,084.82	9,360.00	186.76	187.11	178.780	291.22	9,597.14	939.14	789.49	149.66	6.275	
17,200.00	8,418.00	18,084.82	9,360.00	186.76	187.11	178.780	291.22	9,597.14	939.14	789.49	149.66	6.275	
17,300.00	8,418.00	18,184.82	9,360.00	188.82	189.17	178.780	291.52	9,697.14	939.14	787.95	151.19	6.212	
17,300.00	8,418.00	18,184.82	9,360.00	188.82	189.17	178.780	291.52	9,697.14	939.14	787.95	151.19	6.212	
17,400.00	8,418.00	18,284.82	9,360.00	190.89	191.23	178.780	291.81	9,797.14	939.14	786.41	152.73	6.149	
17,400.00	8,418.00	18,284.82	9,360.00	190.89	191.23	178.780	291.81	9,797.14	939.14	786.41	152.73	6.149	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	
17,500.00	8,418.00	18,384.82	9,360.00	192.95	193.29	178.780	292.11	9,897.14	939.14	784.88	154.27	6.088	
17,500.00	8,418.00	18,384.82	9,360.00	192.95	193.29	178.780	292.11	9,897.14	939.14	784.88	154.27	6.088	
17,600.00	8,418.00	18,484.82	9,360.00	195.01	195.36	178.780	292.41	9,997.14	939.14	783.34	155.80	6.028	
17,600.00	8,418.00	18,484.82	9,360.00	195.01	195.36	178.780	292.41	9,997.14	939.14	783.34	155.80	6.028	
17,700.00	8,418.00	18,584.82	9,360.00	197.08	197.42	178.780	292.71	10,097.14	939.14	781.80	157.34	5.969	
17,700.00	8,418.00	18,584.82	9,360.00	197.08	197.42	178.780	292.71	10,097.14	939.14	781.80	157.34	5.969	
17,800.00	8,418.00	18,684.82	9,360.00	199.14	199.48	178.780	293.01	10,197.14	939.14	780.26	158.88	5.911	
17,800.00	8,418.00	18,684.82	9,360.00	199.14	199.48	178.780	293.01	10,197.14	939.14	780.26	158.88	5.911	
17,900.00	8,418.00	18,784.82	9,360.00	201.20	201.55	178.780	293.31	10,297.14	939.14	778.72	160.42	5.854	
17,900.00	8,418.00	18,784.82	9,360.00	201.20	201.55	178.780	293.31	10,297.14	939.14	778.72	160.42	5.854	
18,000.00	8,418.00	18,884.82	9,360.00	203.27	203.61	178.780	293.60	10,397.13	939.14	777.18	161.96	5.799	
18,000.00	8,418.00	18,884.82	9,360.00	203.27	203.61	178.780	293.60	10,397.13	939.14	777.18	161.96	5.799	
18,100.00	8,418.00	18,984.82	9,360.00	205.33	205.67	178.780	293.90	10,497.13	939.14	775.64	163.50	5.744	
18,100.00	8,418.00	18,984.82	9,360.00	205.33	205.67	178.780	293.90	10,497.13	939.14	775.64	163.50	5.744	
18,200.00	8,418.00	19,084.82	9,360.00	207.40	207.74	178.780	294.20	10,597.13	939.14	774.10	165.04	5.690	
18,200.00	8,418.00	19,084.82	9,360.00	207.40	207.74	178.780	294.20	10,597.13	939.14	774.10	165.04	5.690	
18,300.00	8,418.00	19,184.82	9,360.00	209.46	209.80	178.780	294.50	10,697.13	939.14	772.56	166.58	5.638	
18,300.00	8,418.00	19,184.82	9,360.00	209.46	209.80	178.780	294.50	10,697.13	939.14	772.56	166.58	5.638	
18,400.00	8,418.00	19,284.82	9,360.00	211.52	211.86	178.780	294.80	10,797.13	939.14	771.02	168.13	5.586	
18,400.00	8,418.00	19,284.82	9,360.00	211.52	211.86	178.780	294.80	10,797.13	939.14	771.02	168.13	5.586	
18,500.00	8,418.00	19,384.82	9,360.00	213.59	213.93	178.780	295.09	10,897.13	939.14	769.47	169.67	5.535	
18,500.00	8,418.00	19,384.82	9,360.00	213.59	213.93	178.780	295.09	10,897.13	939.14	769.47	169.67	5.535	
18,600.00	8,418.00	19,484.82	9,360.00	215.65	215.99	178.780	295.39	10,997.13	939.14	767.93	171.21	5.485	
18,600.00	8,418.00	19,484.82	9,360.00	215.65	215.99	178.780	295.39	10,997.13	939.14	767.93	171.21	5.485	
18,700.00	8,418.00	19,584.82	9,360.00	217.72	218.06	178.780	295.69	11,097.13	939.14	766.39	172.76	5.436	
18,700.00	8,418.00	19,584.82	9,360.00	217.72	218.06	178.780	295.69	11,097.13	939.14	766.39	172.76	5.436	
18,800.00	8,418.00	19,684.82	9,360.00	219.78	220.12	178.780	295.99	11,197.13	939.14	764.84	174.30	5.388	
18,800.00	8,418.00	19,684.82	9,360.00	219.78	220.12	178.780	295.99	11,197.13	939.14	764.84	174.30	5.388	
18,900.00	8,418.00	19,784.82	9,360.00	221.85	222.19	178.780	296.29	11,297.13	939.14	763.30	175.85	5.341	
18,900.00	8,418.00	19,784.82	9,360.00	221.85	222.19	178.780	296.29	11,297.13	939.14	763.30	175.85	5.341	
19,000.00	8,418.00	19,884.82	9,360.00	223.91	224.25	178.780	296.59	11,397.13	939.14	761.75	177.39	5.294	
19,000.00	8,418.00	19,884.82	9,360.00	223.91	224.25	178.780	296.59	11,397.13	939.14	761.75	177.39	5.294	
19,100.00	8,418.00	19,984.82	9,360.00	225.98	226.31	178.780	296.88	11,497.13	939.14	760.21	178.94	5.248	
19,100.00	8,418.00	19,984.82	9,360.00	225.98	226.31	178.780	296.88	11,497.13	939.14	760.21	178.94	5.248	
19,200.00	8,418.00	20,084.82	9,360.00	228.04	228.38	178.780	297.18	11,597.13	939.14	758.66	180.48	5.203	
19,200.03	8,418.00	20,084.85	9,360.00	228.04	228.38	178.780	297.18	11,597.16	939.14	758.66	180.48	5.203	
19,296.39	8,418.00	20,181.21	9,360.00	230.03	230.37	178.780	297.47	11,693.52	939.14	757.17	181.97	5.161	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.06	2.06	0.00	0.02	-8.731	236.90	-36.38	239.68				
100.00	100.00	102.06	102.06	0.79	0.80	-8.731	236.90	-36.38	239.68	238.09	1.58	151.225	
200.00	200.00	202.06	202.06	1.45	1.46	-8.731	236.90	-36.38	239.68	236.78	2.90	82.608	
300.00	300.00	302.06	302.06	1.89	1.90	-8.731	236.90	-36.38	239.68	235.89	3.79	63.225	
400.00	400.00	402.06	402.06	2.25	2.26	-8.731	236.90	-36.38	239.68	235.16	4.51	53.098	
500.00	500.00	502.06	502.06	2.57	2.57	-8.731	236.90	-36.38	239.68	234.54	5.14	46.619	
600.00	600.00	602.06	602.06	2.85	2.85	-8.731	236.90	-36.38	239.68	233.97	5.70	42.015	
700.00	700.00	702.06	702.06	3.11	3.11	-8.731	236.90	-36.38	239.68	233.46	6.22	38.525	
800.00	800.00	802.06	802.06	3.35	3.35	-8.731	236.90	-36.38	239.68	232.97	6.70	35.760	
900.00	900.00	902.06	902.06	3.58	3.58	-8.731	236.90	-36.38	239.68	232.52	7.15	33.499	
1,000.00	1,000.00	1,002.06	1,002.06	3.79	3.79	-8.731	236.90	-36.38	239.68	232.09	7.58	31.604	
1,100.00	1,100.00	1,102.06	1,102.06	3.99	4.00	-8.731	236.90	-36.38	239.68	231.68	7.99	29.986	
1,200.00	1,200.00	1,202.06	1,202.06	4.19	4.19	-8.731	236.90	-36.38	239.68	231.29	8.39	28.582	
1,300.00	1,300.00	1,302.06	1,302.06	4.38	4.38	-8.731	236.90	-36.38	239.68	230.91	8.76	27.349	
1,400.00	1,400.00	1,402.06	1,402.06	4.56	4.57	-8.731	236.90	-36.38	239.68	230.55	9.13	26.255	
1,500.00	1,500.00	1,502.06	1,502.06	4.74	4.74	-8.731	236.90	-36.38	239.68	230.19	9.48	25.275	
1,600.00	1,600.00	1,602.06	1,602.06	4.91	4.92	-8.731	236.90	-36.38	239.68	229.85	9.83	24.390	
1,700.00	1,700.00	1,702.06	1,702.06	5.08	5.08	-8.731	236.90	-36.38	239.68	229.52	10.16	23.586	
1,800.00	1,800.00	1,802.06	1,802.06	5.24	5.25	-8.731	236.90	-36.38	239.68	229.19	10.49	22.851	
1,900.00	1,900.00	1,902.06	1,902.06	5.40	5.41	-8.731	236.90	-36.38	239.68	228.87	10.81	22.176	
2,000.00	2,000.00	2,002.23	2,002.23	5.56	5.56	-8.730	236.90	-36.38	239.68	228.55	11.12	21.550	
2,100.00	2,100.00	2,110.60	2,110.57	5.71	5.80	-8.539	235.06	-35.29	237.85	226.36	11.49	20.693	
2,200.00	2,200.00	2,218.64	2,218.43	5.86	6.03	-7.963	229.72	-32.13	232.54	220.69	11.84	19.637	
2,300.00	2,300.00	2,326.07	2,325.37	6.01	6.28	-6.953	220.95	-26.94	223.80	211.61	12.19	18.357	
2,400.00	2,400.00	2,432.59	2,430.94	6.16	6.55	-5.412	208.84	-19.78	211.76	199.21	12.55	16.879	
2,500.00	2,500.00	2,537.91	2,534.75	6.30	6.84	-3.178	193.56	-10.75	196.60	183.70	12.90	15.241	
2,600.00	2,599.97	2,641.90	2,636.54	6.54	7.15	-78.208	175.26	0.08	178.20	164.95	13.25	13.450	
2,700.00	2,699.79	2,744.41	2,736.06	6.78	7.48	-76.367	154.12	12.58	156.23	142.63	13.60	11.488	
2,800.00	2,799.29	2,845.19	2,832.98	7.03	7.83	-74.731	130.37	26.63	130.62	116.66	13.96	9.358	
2,900.00	2,898.51	2,943.89	2,926.91	7.19	8.14	-71.840	104.28	42.07	101.79	87.54	14.25	7.142	
3,000.00	2,997.72	3,039.06	3,017.03	7.38	8.42	-65.926	77.94	57.64	72.30	57.74	14.56	4.966	
3,100.00	3,096.93	3,134.24	3,107.15	7.59	8.75	-52.444	51.61	73.22	44.46	29.68	14.77	3.009	
3,200.00	3,196.13	3,229.41	3,197.27	7.82	9.08	-11.483	25.28	88.79	24.70	9.68	15.02	1.644 Level 3	
3,222.51	3,218.47	3,250.83	3,217.56	7.88	9.16	4.014	19.35	92.30	23.71	8.32	15.39	1.541 Level 3, CC, ES, SF	
3,300.00	3,295.34	3,324.59	3,287.40	8.06	9.43	47.695	-1.05	104.37	33.58	17.01	16.57	2.027	
3,400.00	3,394.55	3,419.76	3,377.52	8.32	9.80	69.455	-27.39	119.94	59.40	42.32	17.08	3.478	
3,500.00	3,493.76	3,514.93	3,467.64	8.59	10.17	77.728	-53.72	135.52	88.39	70.87	17.52	5.045	
3,600.00	3,592.97	3,610.11	3,557.77	8.88	10.56	81.898	-80.05	151.09	118.25	100.25	17.99	6.572	
3,700.00	3,692.18	3,705.28	3,647.89	9.17	10.95	84.386	-106.38	166.67	148.44	129.95	18.49	8.028	
3,800.00	3,791.39	3,800.46	3,738.01	9.47	11.35	86.033	-132.72	182.24	178.80	159.80	19.01	9.408	
3,900.00	3,890.60	3,895.63	3,828.13	9.79	11.76	87.202	-159.05	197.82	209.26	189.73	19.53	10.714	
4,000.00	3,989.81	3,990.80	3,918.26	10.11	12.17	88.074	-185.38	213.39	239.78	219.71	20.07	11.947	
4,100.00	4,089.02	4,085.98	4,008.38	10.44	12.59	88.749	-211.71	228.97	270.34	249.72	20.62	13.113	
4,200.00	4,188.23	4,181.15	4,098.50	10.77	13.02	89.287	-238.05	244.55	300.92	279.75	21.17	14.215	
4,300.00	4,287.44	4,276.33	4,188.63	11.11	13.45	89.726	-264.38	260.12	331.53	309.80	21.73	15.257	
4,400.00	4,386.65	4,371.50	4,278.75	11.46	13.88	90.091	-290.71	275.70	362.14	339.85	22.29	16.244	
4,500.00	4,485.86	4,466.67	4,368.87	11.81	14.32	90.399	-317.04	291.27	392.77	369.91	22.86	17.178	
4,600.00	4,585.07	4,561.85	4,458.99	12.16	14.76	90.662	-343.38	306.85	423.41	399.97	23.44	18.064	
4,700.00	4,684.28	4,657.02	4,549.12	12.52	15.21	90.890	-369.71	322.42	454.06	430.04	24.02	18.905	
4,800.00	4,783.48	4,752.20	4,639.24	12.89	15.66	91.089	-396.04	338.00	484.71	460.11	24.60	19.703	
4,900.00	4,882.69	4,847.37	4,729.36	13.26	16.11	91.264	-422.37	353.57	515.36	490.18	25.19	20.463	
5,000.00	4,981.90	4,942.54	4,819.48	13.63	16.56	91.420	-448.70	369.15	546.02	520.25	25.77	21.185	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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)		
5,100.00	5,081.11	5,037.72	4,909.61	14.00	17.02	91.559	-475.04	384.72	576.69	550.32	26.37	21.872	
5,200.00	5,180.32	5,132.89	4,999.73	14.38	17.47	91.684	-501.37	400.30	607.35	580.39	26.96	22.528	
5,300.00	5,279.53	5,228.07	5,089.85	14.75	17.93	91.797	-527.70	415.87	638.02	610.46	27.56	23.153	
5,400.00	5,378.74	5,323.24	5,179.98	15.14	18.40	91.899	-554.03	431.45	668.69	640.53	28.16	23.750	
5,500.00	5,477.95	5,418.42	5,270.10	15.52	18.86	91.993	-580.37	447.03	699.36	670.61	28.76	24.320	
5,600.00	5,577.16	5,513.59	5,360.22	15.91	19.32	92.079	-606.70	462.60	730.04	700.68	29.36	24.865	
5,700.00	5,676.37	5,608.76	5,450.34	16.29	19.79	92.158	-633.03	478.18	760.71	730.75	29.96	25.387	
5,800.00	5,775.58	5,703.94	5,540.47	16.68	20.26	92.231	-659.36	493.75	791.39	760.81	30.57	25.887	
5,900.00	5,874.79	5,799.11	5,630.59	17.07	20.73	92.298	-685.70	509.33	822.06	790.88	31.18	26.365	
6,000.00	5,974.00	5,894.29	5,720.71	17.47	21.20	92.360	-712.03	524.90	852.74	820.95	31.79	26.825	
6,100.00	6,073.21	5,989.46	5,810.84	17.86	21.67	92.418	-738.36	540.48	883.42	851.02	32.40	27.265	
6,200.00	6,172.42	6,084.63	5,900.96	18.25	22.14	92.473	-764.69	556.05	914.10	881.09	33.01	27.688	
6,300.00	6,271.63	6,179.81	5,991.08	18.65	22.62	92.523	-791.03	571.63	944.78	911.15	33.63	28.095	
6,400.00	6,370.83	6,274.98	6,081.20	19.05	23.09	92.571	-817.36	587.20	975.46	941.22	34.24	28.486	
6,500.00	6,470.04	6,370.16	6,171.33	19.45	23.57	92.616	-843.69	602.78	1,006.14	971.28	34.86	28.862	
6,600.00	6,569.25	6,465.33	6,261.45	19.85	24.04	92.658	-870.02	618.35	1,036.82	1,001.34	35.48	29.224	
6,700.00	6,668.46	6,560.50	6,351.57	20.25	24.52	92.697	-896.36	633.93	1,067.51	1,031.41	36.10	29.574	
6,800.00	6,767.67	6,692.21	6,476.85	20.65	25.00	92.785	-931.29	654.59	1,097.09	1,060.14	36.95	29.691	
6,900.00	6,866.88	6,843.32	6,622.67	21.05	25.96	93.020	-965.36	674.74	1,122.24	1,084.41	37.82	29.671	
7,000.00	6,966.09	6,997.73	6,773.62	21.46	26.71	93.402	-993.29	691.26	1,142.58	1,103.99	38.59	29.605	
7,100.00	7,065.30	7,154.64	6,928.56	21.86	27.41	93.931	-1,014.46	703.78	1,158.01	1,118.76	39.24	29.508	
7,200.00	7,164.51	7,313.13	7,086.21	22.26	28.06	94.609	-1,028.39	712.03	1,168.45	1,128.69	39.76	29.390	
7,300.00	7,263.72	7,472.26	7,245.14	22.67	28.59	95.442	-1,034.82	715.83	1,173.90	1,133.82	40.08	29.287	
7,400.00	7,362.93	7,592.11	7,364.99	23.08	28.72	96.162	-1,035.27	716.09	1,175.50	1,135.30	40.20	29.242	
7,500.00	7,462.14	7,691.32	7,464.20	23.48	28.74	96.765	-1,035.27	716.09	1,176.92	1,136.59	40.33	29.181	
7,600.00	7,561.37	7,790.55	7,563.43	23.87	28.76	97.367	-1,035.27	716.09	1,178.45	1,138.01	40.44	29.140	
7,700.00	7,660.93	7,890.11	7,662.99	24.28	28.78	97.841	-1,035.27	716.09	1,179.68	1,139.11	40.58	29.073	
7,800.00	7,760.78	7,989.96	7,762.84	24.65	28.80	98.113	-1,035.27	716.09	1,180.43	1,139.72	40.70	29.001	
7,900.00	7,860.77	8,089.95	7,862.83	24.82	28.82	95.514	-1,035.27	716.09	1,180.65	1,139.85	40.80	28.938	
8,000.00	7,959.98	8,189.16	7,962.04	25.28	28.84	95.946	-1,035.27	716.09	1,181.80	1,140.88	40.92	28.883	
8,100.00	8,055.71	8,284.89	8,057.77	25.82	28.86	96.922	-1,035.27	716.09	1,185.15	1,144.05	41.10	28.836	
8,200.00	8,145.03	8,374.21	8,147.09	26.38	28.88	98.173	-1,035.27	716.09	1,191.76	1,150.37	41.38	28.797	
8,300.00	8,225.24	8,454.42	8,227.30	26.91	28.90	99.313	-1,035.27	716.09	1,203.08	1,161.27	41.81	28.774	
8,400.00	8,293.90	8,523.08	8,295.96	27.39	28.91	99.904	-1,035.27	716.09	1,220.67	1,178.26	42.40	28.786	
8,500.00	8,348.91	8,578.09	8,350.97	27.78	28.93	99.509	-1,035.27	716.09	1,245.80	1,202.64	43.16	28.866	
8,600.00	8,388.62	8,617.80	8,390.68	28.07	28.93	97.737	-1,035.27	716.09	1,279.14	1,235.12	44.02	29.057	
8,700.00	8,411.81	8,640.99	8,413.87	28.25	28.94	94.295	-1,035.27	716.09	1,320.52	1,275.61	44.91	29.403	
8,800.00	8,418.00	8,647.18	8,420.06	28.31	28.94	90.000	-1,035.27	716.09	1,368.83	1,323.09	45.74	29.926	
8,900.00	8,418.00	8,647.18	8,420.06	28.34	28.94	90.000	-1,035.27	716.09	1,420.79	1,374.26	46.54	30.532	
9,000.00	8,418.00	8,647.18	8,420.06	28.37	28.94	90.000	-1,035.27	716.09	1,474.86	1,427.57	47.29	31.188	
9,100.00	8,418.00	8,647.18	8,420.06	28.42	28.94	90.000	-1,035.27	716.09	1,530.74	1,482.73	48.00	31.889	
9,200.00	8,418.00	8,647.18	8,420.06	28.53	28.94	90.000	-1,035.27	716.09	1,588.17	1,539.50	48.67	32.628	
9,300.00	8,418.00	10,326.16	9,360.00	28.82	35.41	125.454	-1,032.33	1,701.05	1,620.46	1,568.40	52.06	31.128	
9,300.00	8,418.00	10,326.17	9,360.00	28.82	35.41	125.454	-1,032.33	1,701.05	1,620.46	1,568.40	52.06	31.128	
9,400.00	8,418.00	10,426.16	9,360.00	29.64	36.61	125.454	-1,032.03	1,801.05	1,620.46	1,565.94	54.51	29.726	
9,400.00	8,418.00	10,426.17	9,360.00	29.64	36.61	125.454	-1,032.03	1,801.05	1,620.46	1,565.94	54.51	29.726	
9,500.00	8,418.00	10,526.16	9,360.00	31.07	37.92	125.454	-1,031.74	1,901.05	1,620.46	1,563.38	57.08	28.391	
9,500.00	8,418.00	10,526.17	9,360.00	31.07	37.92	125.454	-1,031.74	1,901.05	1,620.46	1,563.38	57.08	28.391	
9,600.00	8,418.00	10,626.16	9,360.00	32.77	39.31	125.454	-1,031.44	2,001.05	1,620.46	1,560.72	59.73	27.129	
9,600.00	8,418.00	10,626.17	9,360.00	32.77	39.31	125.454	-1,031.44	2,001.05	1,620.46	1,560.72	59.73	27.128	
9,700.00	8,418.00	10,726.16	9,360.00	34.55	40.78	125.454	-1,031.14	2,101.05	1,620.46	1,557.99	62.47	25.940	
9,700.00	8,418.00	10,726.17	9,360.00	34.55	40.78	125.454	-1,031.14	2,101.05	1,620.46	1,557.99	62.47	25.939	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,800.00	8,418.00	10,826.16	9,360.00	36.39	42.31	125.454	-1,030.84	2,201.05	1,620.46	1,555.18	65.28	24.823			
9,800.00	8,418.00	10,826.17	9,360.00	36.39	42.31	125.454	-1,030.84	2,201.05	1,620.46	1,555.18	65.28	24.823			
9,900.00	8,418.00	10,926.16	9,360.00	38.27	43.90	125.454	-1,030.54	2,301.05	1,620.46	1,552.30	68.15	23.777			
9,900.00	8,418.00	10,926.17	9,360.00	38.27	43.90	125.454	-1,030.54	2,301.05	1,620.46	1,552.30	68.15	23.777			
10,000.00	8,418.00	11,026.16	9,360.00	40.16	45.53	125.454	-1,030.24	2,401.05	1,620.46	1,549.37	71.08	22.797			
10,000.00	8,418.00	11,026.17	9,360.00	40.16	45.53	125.454	-1,030.24	2,401.05	1,620.46	1,549.37	71.08	22.797			
10,100.00	8,418.00	11,126.16	9,360.00	42.08	47.20	125.454	-1,029.95	2,501.05	1,620.46	1,546.40	74.06	21.880			
10,100.00	8,418.00	11,126.17	9,360.00	42.08	47.20	125.454	-1,029.95	2,501.05	1,620.46	1,546.40	74.06	21.880			
10,200.00	8,418.00	11,226.16	9,360.00	44.01	48.91	125.454	-1,029.65	2,601.05	1,620.46	1,543.37	77.08	21.022			
10,200.00	8,418.00	11,226.17	9,360.00	44.01	48.91	125.454	-1,029.65	2,601.05	1,620.46	1,543.37	77.08	21.022			
10,300.00	8,418.00	11,326.16	9,360.00	45.96	50.64	125.454	-1,029.35	2,701.05	1,620.46	1,540.31	80.14	20.220			
10,300.00	8,418.00	11,326.17	9,360.00	45.96	50.64	125.454	-1,029.35	2,701.05	1,620.46	1,540.31	80.14	20.220			
10,400.00	8,418.00	11,426.16	9,360.00	47.91	52.41	125.454	-1,029.05	2,801.04	1,620.46	1,537.22	83.24	19.468			
10,400.00	8,418.00	11,426.17	9,360.00	47.91	52.41	125.454	-1,029.05	2,801.05	1,620.46	1,537.22	83.24	19.468			
10,500.00	8,418.00	11,526.16	9,360.00	49.88	54.19	125.454	-1,028.75	2,901.04	1,620.46	1,534.09	86.36	18.763			
10,500.00	8,418.00	11,526.17	9,360.00	49.88	54.19	125.454	-1,028.75	2,901.05	1,620.46	1,534.09	86.36	18.763			
10,600.00	8,418.00	11,626.16	9,360.00	51.85	56.00	125.454	-1,028.46	3,001.04	1,620.46	1,530.94	89.52	18.102			
10,600.00	8,418.00	11,626.17	9,360.00	51.85	56.00	125.454	-1,028.46	3,001.05	1,620.46	1,530.94	89.52	18.102			
10,700.00	8,418.00	11,726.16	9,360.00	53.83	57.82	125.454	-1,028.16	3,101.04	1,620.46	1,527.76	92.70	17.481			
10,700.00	8,418.00	11,726.17	9,360.00	53.83	57.82	125.454	-1,028.16	3,101.05	1,620.46	1,527.76	92.70	17.481			
10,800.00	8,418.00	11,826.16	9,360.00	55.82	59.67	125.454	-1,027.86	3,201.04	1,620.46	1,524.56	95.90	16.898			
10,800.00	8,418.00	11,826.17	9,360.00	55.82	59.67	125.454	-1,027.86	3,201.05	1,620.46	1,524.56	95.90	16.898			
10,900.00	8,418.00	11,926.16	9,360.00	57.81	61.52	125.454	-1,027.56	3,301.04	1,620.46	1,521.34	99.12	16.349			
10,900.00	8,418.00	11,926.17	9,360.00	57.81	61.52	125.454	-1,027.56	3,301.04	1,620.46	1,521.34	99.12	16.349			
11,000.00	8,418.00	12,026.16	9,360.00	59.81	63.39	125.454	-1,027.26	3,401.04	1,620.46	1,518.10	102.36	15.831			
11,000.00	8,418.00	12,026.17	9,360.00	59.81	63.39	125.454	-1,027.26	3,401.04	1,620.46	1,518.10	102.36	15.831			
11,100.00	8,418.00	12,126.16	9,360.00	61.81	65.28	125.454	-1,026.96	3,501.04	1,620.46	1,514.84	105.61	15.343			
11,100.00	8,418.00	12,126.17	9,360.00	61.81	65.28	125.454	-1,026.96	3,501.04	1,620.46	1,514.84	105.61	15.343			
11,200.00	8,418.00	12,226.16	9,360.00	63.82	67.17	125.454	-1,026.67	3,601.04	1,620.46	1,511.57	108.88	14.882			
11,200.00	8,418.00	12,226.17	9,360.00	63.82	67.17	125.454	-1,026.67	3,601.04	1,620.46	1,511.57	108.88	14.882			
11,300.00	8,418.00	12,326.16	9,360.00	65.83	69.07	125.454	-1,026.37	3,701.04	1,620.46	1,508.29	112.17	14.446			
11,300.00	8,418.00	12,326.17	9,360.00	65.83	69.07	125.454	-1,026.37	3,701.04	1,620.46	1,508.29	112.17	14.446			
11,400.00	8,418.00	12,426.16	9,360.00	67.85	70.99	125.454	-1,026.07	3,801.04	1,620.46	1,504.99	115.47	14.034			
11,400.00	8,418.00	12,426.17	9,360.00	67.85	70.99	125.454	-1,026.07	3,801.04	1,620.46	1,504.99	115.47	14.034			
11,500.00	8,418.00	12,526.16	9,360.00	69.86	72.91	125.454	-1,025.77	3,901.04	1,620.46	1,501.68	118.78	13.643			
11,500.00	8,418.00	12,526.17	9,360.00	69.86	72.91	125.454	-1,025.77	3,901.04	1,620.46	1,501.68	118.78	13.643			
11,600.00	8,418.00	12,626.16	9,360.00	71.88	74.84	125.454	-1,025.47	4,001.04	1,620.46	1,498.36	122.10	13.272			
11,600.00	8,418.00	12,626.17	9,360.00	71.88	74.84	125.454	-1,025.47	4,001.04	1,620.46	1,498.36	122.10	13.272			
11,700.00	8,418.00	12,726.16	9,360.00	73.91	76.77	125.454	-1,025.18	4,101.04	1,620.46	1,495.03	125.43	12.920			
11,700.00	8,418.00	12,726.17	9,360.00	73.91	76.77	125.454	-1,025.18	4,101.04	1,620.46	1,495.03	125.43	12.920			
11,800.00	8,418.00	12,826.16	9,360.00	75.93	78.72	125.454	-1,024.88	4,201.04	1,620.46	1,491.69	128.76	12.585			
11,800.00	8,418.00	12,826.17	9,360.00	75.93	78.72	125.454	-1,024.88	4,201.04	1,620.46	1,491.69	128.76	12.585			
11,900.00	8,418.00	12,926.16	9,360.00	77.96	80.67	125.454	-1,024.58	4,301.04	1,620.46	1,488.35	132.11	12.266			
11,900.00	8,418.00	12,926.17	9,360.00	77.96	80.67	125.454	-1,024.58	4,301.04	1,620.46	1,488.35	132.11	12.266			
12,000.00	8,418.00	13,026.16	9,360.00	79.99	82.62	125.454	-1,024.28	4,401.04	1,620.46	1,484.99	135.47	11.962			
12,000.00	8,418.00	13,026.17	9,360.00	79.99	82.62	125.454	-1,024.28	4,401.04	1,620.46	1,484.99	135.47	11.962			
12,100.00	8,418.00	13,126.16	9,360.00	82.02	84.58	125.454	-1,023.98	4,501.04	1,620.46	1,481.63	138.83	11.672			
12,100.00	8,418.00	13,126.17	9,360.00	82.02	84.58	125.454	-1,023.98	4,501.04	1,620.46	1,481.63	138.83	11.672			
12,200.00	8,418.00	13,226.16	9,360.00	84.06	86.55	125.454	-1,023.68	4,601.04	1,620.46	1,478.26	142.20	11.396			
12,200.00	8,418.00	13,226.17	9,360.00	84.06	86.55	125.454	-1,023.68	4,601.04	1,620.46	1,478.26	142.20	11.396			
12,300.00	8,418.00	13,326.16	9,360.00	86.09	88.52	125.454	-1,023.39	4,701.04	1,620.46	1,474.89	145.57	11.132			
12,300.00	8,418.00	13,326.17	9,360.00	86.09	88.52	125.454	-1,023.39	4,701.04	1,620.46	1,474.89	145.57	11.132			

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		Offset Wellbore Centre		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	
12,400.00	8,418.00	13,426.16	9,360.00	88.13	90.50	125.454	-1,023.09	4,801.04	1,620.46	1,471.51	148.95	10.879	
12,400.00	8,418.00	13,426.17	9,360.00	88.13	90.50	125.454	-1,023.09	4,801.04	1,620.46	1,471.51	148.95	10.879	
12,500.00	8,418.00	13,526.16	9,360.00	90.17	92.48	125.454	-1,022.79	4,901.04	1,620.46	1,468.12	152.34	10.637	
12,500.00	8,418.00	13,526.17	9,360.00	90.17	92.48	125.454	-1,022.79	4,901.04	1,620.46	1,468.12	152.34	10.637	
12,600.00	8,418.00	13,626.16	9,360.00	92.21	94.46	125.454	-1,022.49	5,001.03	1,620.46	1,464.73	155.73	10.406	
12,600.00	8,418.00	13,626.17	9,360.00	92.21	94.46	125.454	-1,022.49	5,001.04	1,620.46	1,464.73	155.73	10.406	
12,700.00	8,418.00	13,726.16	9,360.00	94.25	96.44	125.454	-1,022.19	5,101.03	1,620.46	1,461.33	159.12	10.184	
12,700.00	8,418.00	13,726.17	9,360.00	94.25	96.44	125.454	-1,022.19	5,101.04	1,620.46	1,461.33	159.12	10.184	
12,800.00	8,418.00	13,826.16	9,360.00	96.30	98.43	125.454	-1,021.90	5,201.03	1,620.46	1,457.93	162.52	9.971	
12,800.00	8,418.00	13,826.17	9,360.00	96.30	98.43	125.454	-1,021.90	5,201.04	1,620.46	1,457.93	162.52	9.971	
12,900.00	8,418.00	13,926.16	9,360.00	98.34	100.43	125.454	-1,021.60	5,301.03	1,620.46	1,454.53	165.93	9.766	
12,900.00	8,418.00	13,926.17	9,360.00	98.34	100.43	125.454	-1,021.60	5,301.04	1,620.46	1,454.53	165.93	9.766	
13,000.00	8,418.00	14,026.16	9,360.00	100.38	102.42	125.454	-1,021.30	5,401.03	1,620.46	1,451.12	169.34	9.569	
13,000.00	8,418.00	14,026.17	9,360.00	100.38	102.42	125.454	-1,021.30	5,401.04	1,620.46	1,451.12	169.34	9.569	
13,100.00	8,418.00	14,126.16	9,360.00	102.43	104.42	125.454	-1,021.00	5,501.03	1,620.46	1,447.71	172.75	9.380	
13,100.00	8,418.00	14,126.17	9,360.00	102.43	104.42	125.454	-1,021.00	5,501.04	1,620.46	1,447.71	172.75	9.380	
13,200.00	8,418.00	14,226.16	9,360.00	104.48	106.42	125.454	-1,020.70	5,601.03	1,620.46	1,444.29	176.16	9.199	
13,200.00	8,418.00	14,226.17	9,360.00	104.48	106.42	125.454	-1,020.70	5,601.03	1,620.46	1,444.29	176.16	9.199	
13,300.00	8,418.00	14,326.16	9,360.00	106.52	108.43	125.454	-1,020.40	5,701.03	1,620.46	1,440.88	179.58	9.024	
13,300.00	8,418.00	14,326.17	9,360.00	106.52	108.43	125.454	-1,020.40	5,701.03	1,620.46	1,440.88	179.58	9.024	
13,400.00	8,418.00	14,426.16	9,360.00	108.57	110.43	125.454	-1,020.11	5,801.03	1,620.46	1,437.46	183.00	8.855	
13,400.00	8,418.00	14,426.17	9,360.00	108.57	110.43	125.454	-1,020.11	5,801.03	1,620.46	1,437.46	183.00	8.855	
13,500.00	8,418.00	14,526.16	9,360.00	110.62	112.44	125.454	-1,019.81	5,901.03	1,620.46	1,434.03	186.43	8.692	
13,500.00	8,418.00	14,526.17	9,360.00	110.62	112.44	125.454	-1,019.81	5,901.03	1,620.46	1,434.03	186.43	8.692	
13,600.00	8,418.00	14,626.16	9,360.00	112.67	114.45	125.454	-1,019.51	6,001.03	1,620.46	1,430.60	189.85	8.535	
13,600.00	8,418.00	14,626.17	9,360.00	112.67	114.45	125.454	-1,019.51	6,001.03	1,620.46	1,430.60	189.85	8.535	
13,700.00	8,418.00	14,726.16	9,360.00	114.72	116.46	125.454	-1,019.21	6,101.03	1,620.46	1,427.17	193.28	8.384	
13,700.00	8,418.00	14,726.17	9,360.00	114.72	116.46	125.454	-1,019.21	6,101.03	1,620.46	1,427.17	193.28	8.384	
13,800.00	8,418.00	14,826.16	9,360.00	116.77	118.48	125.454	-1,018.91	6,201.03	1,620.46	1,423.74	196.72	8.238	
13,800.00	8,418.00	14,826.17	9,360.00	116.77	118.48	125.454	-1,018.91	6,201.03	1,620.46	1,423.74	196.72	8.238	
13,900.00	8,418.00	14,926.16	9,360.00	118.83	120.50	125.454	-1,018.62	6,301.03	1,620.46	1,420.31	200.15	8.096	
13,900.00	8,418.00	14,926.17	9,360.00	118.83	120.50	125.454	-1,018.62	6,301.03	1,620.46	1,420.31	200.15	8.096	
14,000.00	8,418.00	15,026.16	9,360.00	120.88	122.51	125.454	-1,018.32	6,401.03	1,620.46	1,416.87	203.59	7.960	
14,000.00	8,418.00	15,026.17	9,360.00	120.88	122.51	125.454	-1,018.32	6,401.03	1,620.46	1,416.87	203.59	7.960	
14,100.00	8,418.00	15,126.16	9,360.00	122.93	124.53	125.454	-1,018.02	6,501.03	1,620.46	1,413.43	207.02	7.827	
14,100.00	8,418.00	15,126.17	9,360.00	122.93	124.53	125.454	-1,018.02	6,501.03	1,620.46	1,413.43	207.02	7.827	
14,200.00	8,418.00	15,226.16	9,360.00	124.99	126.55	125.454	-1,017.72	6,601.03	1,620.46	1,409.99	210.47	7.699	
14,200.00	8,418.00	15,226.17	9,360.00	124.99	126.55	125.454	-1,017.72	6,601.03	1,620.46	1,409.99	210.47	7.699	
14,300.00	8,418.00	15,326.16	9,360.00	127.04	128.58	125.454	-1,017.42	6,701.03	1,620.46	1,406.55	213.91	7.576	
14,300.00	8,418.00	15,326.17	9,360.00	127.04	128.58	125.454	-1,017.42	6,701.03	1,620.46	1,406.55	213.91	7.576	
14,400.00	8,418.00	15,426.16	9,360.00	129.10	130.60	125.454	-1,017.12	6,801.03	1,620.46	1,403.11	217.35	7.455	
14,400.00	8,418.00	15,426.17	9,360.00	129.10	130.60	125.454	-1,017.12	6,801.03	1,620.46	1,403.11	217.35	7.455	
14,500.00	8,418.00	15,526.16	9,360.00	131.15	132.63	125.454	-1,016.83	6,901.03	1,620.46	1,399.66	220.80	7.339	
14,500.00	8,418.00	15,526.17	9,360.00	131.15	132.63	125.454	-1,016.83	6,901.03	1,620.46	1,399.66	220.80	7.339	
14,600.00	8,418.00	15,626.16	9,360.00	133.21	134.65	125.454	-1,016.53	7,001.03	1,620.46	1,396.21	224.25	7.226	
14,600.00	8,418.00	15,626.17	9,360.00	133.21	134.65	125.454	-1,016.53	7,001.03	1,620.46	1,396.21	224.25	7.226	
14,700.00	8,418.00	15,726.16	9,360.00	135.26	136.68	125.454	-1,016.23	7,101.03	1,620.46	1,392.76	227.69	7.117	
14,700.00	8,418.00	15,726.17	9,360.00	135.26	136.68	125.454	-1,016.23	7,101.03	1,620.46	1,392.76	227.69	7.117	
14,800.00	8,418.00	15,826.16	9,360.00	137.32	138.71	125.454	-1,015.93	7,201.03	1,620.46	1,389.31	231.15	7.011	
14,800.00	8,418.00	15,826.17	9,360.00	137.32	138.71	125.454	-1,015.93	7,201.03	1,620.46	1,389.31	231.15	7.011	
14,900.00	8,418.00	15,926.16	9,360.00	139.38	140.74	125.454	-1,015.63	7,301.02	1,620.46	1,385.86	234.60	6.907	
14,900.00	8,418.00	15,926.17	9,360.00	139.38	140.74	125.454	-1,015.63	7,301.03	1,620.46	1,385.86	234.60	6.907	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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	
15,000.00	8,418.00	16,026.16	9,360.00	141.43	142.77	125.454	-1,015.34	7,401.02	1,620.46	1,382.41	238.05	6.807	
15,000.00	8,418.00	16,026.17	9,360.00	141.43	142.77	125.454	-1,015.34	7,401.03	1,620.46	1,382.41	238.05	6.807	
15,100.00	8,418.00	16,126.16	9,360.00	143.49	144.81	125.454	-1,015.04	7,501.02	1,620.46	1,378.95	241.51	6.710	
15,100.00	8,418.00	16,126.17	9,360.00	143.49	144.81	125.454	-1,015.04	7,501.03	1,620.46	1,378.95	241.51	6.710	
15,200.00	8,418.00	16,226.16	9,360.00	145.55	146.84	125.454	-1,014.74	7,601.02	1,620.46	1,375.50	244.96	6.615	
15,200.00	8,418.00	16,226.17	9,360.00	145.55	146.84	125.454	-1,014.74	7,601.03	1,620.46	1,375.50	244.96	6.615	
15,300.00	8,418.00	16,326.16	9,360.00	147.61	148.87	125.454	-1,014.44	7,701.02	1,620.46	1,372.04	248.42	6.523	
15,300.00	8,418.00	16,326.17	9,360.00	147.61	148.87	125.454	-1,014.44	7,701.03	1,620.46	1,372.04	248.42	6.523	
15,400.00	8,418.00	16,426.16	9,360.00	149.67	150.91	125.454	-1,014.14	7,801.02	1,620.46	1,368.58	251.88	6.434	
15,400.00	8,418.00	16,426.17	9,360.00	149.67	150.91	125.454	-1,014.14	7,801.03	1,620.46	1,368.58	251.88	6.434	
15,500.00	8,418.00	16,526.16	9,360.00	151.72	152.94	125.454	-1,013.84	7,901.02	1,620.46	1,365.12	255.34	6.346	
15,500.00	8,418.00	16,526.17	9,360.00	151.72	152.95	125.454	-1,013.84	7,901.02	1,620.46	1,365.12	255.34	6.346	
15,600.00	8,418.00	16,626.16	9,360.00	153.78	154.98	125.454	-1,013.55	8,001.02	1,620.46	1,361.66	258.80	6.261	
15,600.00	8,418.00	16,626.17	9,360.00	153.78	154.98	125.454	-1,013.55	8,001.02	1,620.46	1,361.66	258.80	6.261	
15,700.00	8,418.00	16,726.16	9,360.00	155.84	157.02	125.454	-1,013.25	8,101.02	1,620.46	1,358.20	262.26	6.179	
15,700.00	8,418.00	16,726.17	9,360.00	155.84	157.02	125.454	-1,013.25	8,101.02	1,620.46	1,358.20	262.26	6.179	
15,800.00	8,418.00	16,826.16	9,360.00	157.90	159.06	125.454	-1,012.95	8,201.02	1,620.46	1,354.74	265.72	6.098	
15,800.00	8,418.00	16,826.17	9,360.00	157.90	159.06	125.454	-1,012.95	8,201.02	1,620.46	1,354.74	265.72	6.098	
15,900.00	8,418.00	16,926.16	9,360.00	159.96	161.10	125.454	-1,012.65	8,301.02	1,620.46	1,351.27	269.19	6.020	
15,900.00	8,418.00	16,926.17	9,360.00	159.96	161.10	125.454	-1,012.65	8,301.02	1,620.46	1,351.27	269.19	6.020	
16,000.00	8,418.00	17,026.16	9,360.00	162.02	163.14	125.454	-1,012.35	8,401.02	1,620.46	1,347.81	272.65	5.943	
16,000.00	8,418.00	17,026.17	9,360.00	162.02	163.14	125.454	-1,012.35	8,401.02	1,620.46	1,347.81	272.65	5.943	
16,100.00	8,418.00	17,126.16	9,360.00	164.08	165.18	125.454	-1,012.06	8,501.02	1,620.46	1,344.34	276.12	5.869	
16,100.00	8,418.00	17,126.17	9,360.00	164.08	165.18	125.454	-1,012.06	8,501.02	1,620.46	1,344.34	276.12	5.869	
16,200.00	8,418.00	17,226.16	9,360.00	166.14	167.22	125.454	-1,011.76	8,601.02	1,620.46	1,340.88	279.58	5.796	
16,200.00	8,418.00	17,226.17	9,360.00	166.14	167.22	125.454	-1,011.76	8,601.02	1,620.46	1,340.88	279.58	5.796	
16,300.00	8,418.00	17,326.16	9,360.00	168.20	169.26	125.454	-1,011.46	8,701.02	1,620.46	1,337.41	283.05	5.725	
16,300.00	8,418.00	17,326.17	9,360.00	168.20	169.26	125.454	-1,011.46	8,701.02	1,620.46	1,337.41	283.05	5.725	
16,400.00	8,418.00	17,426.16	9,360.00	170.27	171.31	125.454	-1,011.16	8,801.02	1,620.46	1,333.94	286.52	5.656	
16,400.00	8,418.00	17,426.17	9,360.00	170.27	171.31	125.454	-1,011.16	8,801.02	1,620.46	1,333.94	286.52	5.656	
16,500.00	8,418.00	17,526.16	9,360.00	172.33	173.35	125.454	-1,010.86	8,901.02	1,620.46	1,330.47	289.98	5.588	
16,500.00	8,418.00	17,526.17	9,360.00	172.33	173.35	125.454	-1,010.86	8,901.02	1,620.46	1,330.47	289.98	5.588	
16,600.00	8,418.00	17,626.16	9,360.00	174.39	175.39	125.454	-1,010.56	9,001.02	1,620.46	1,327.01	293.45	5.522	
16,600.00	8,418.00	17,626.17	9,360.00	174.39	175.39	125.454	-1,010.56	9,001.02	1,620.46	1,327.01	293.45	5.522	
16,700.00	8,418.00	17,726.16	9,360.00	176.45	177.44	125.454	-1,010.27	9,101.02	1,620.46	1,323.54	296.92	5.458	
16,700.00	8,418.00	17,726.17	9,360.00	176.45	177.44	125.454	-1,010.27	9,101.02	1,620.46	1,323.54	296.92	5.457	
16,800.00	8,418.00	17,826.16	9,360.00	178.51	179.48	125.454	-1,009.97	9,201.02	1,620.46	1,320.06	300.39	5.394	
16,800.00	8,418.00	17,826.17	9,360.00	178.51	179.48	125.454	-1,009.97	9,201.02	1,620.46	1,320.06	300.39	5.394	
16,900.00	8,418.00	17,926.16	9,360.00	180.57	181.53	125.454	-1,009.67	9,301.02	1,620.46	1,316.59	303.86	5.333	
16,900.00	8,418.00	17,926.17	9,360.00	180.57	181.53	125.454	-1,009.67	9,301.02	1,620.46	1,316.59	303.86	5.333	
17,000.00	8,418.00	18,026.16	9,360.00	182.64	183.58	125.454	-1,009.37	9,401.02	1,620.46	1,313.12	307.34	5.273	
17,000.00	8,418.00	18,026.17	9,360.00	182.64	183.58	125.454	-1,009.37	9,401.02	1,620.46	1,313.12	307.34	5.273	
17,100.00	8,418.00	18,126.16	9,360.00	184.70	185.62	125.454	-1,009.07	9,501.02	1,620.46	1,309.65	310.81	5.214	
17,100.00	8,418.00	18,126.17	9,360.00	184.70	185.62	125.454	-1,009.07	9,501.02	1,620.46	1,309.65	310.81	5.214	
17,200.00	8,418.00	18,226.16	9,360.00	186.76	187.67	125.454	-1,008.78	9,601.01	1,620.46	1,306.18	314.28	5.156	
17,200.00	8,418.00	18,226.17	9,360.00	186.76	187.67	125.454	-1,008.78	9,601.02	1,620.46	1,306.18	314.28	5.156	
17,300.00	8,418.00	18,326.16	9,360.00	188.82	189.72	125.454	-1,008.48	9,701.01	1,620.46	1,302.70	317.76	5.100	
17,300.00	8,418.00	18,326.17	9,360.00	188.82	189.72	125.454	-1,008.48	9,701.02	1,620.46	1,302.70	317.76	5.100	
17,400.00	8,418.00	18,426.16	9,360.00	190.89	191.77	125.454	-1,008.18	9,801.01	1,620.46	1,299.23	321.23	5.045	
17,400.00	8,418.00	18,426.17	9,360.00	190.89	191.77	125.454	-1,008.18	9,801.02	1,620.46	1,299.23	321.23	5.045	
17,500.00	8,418.00	18,526.16	9,360.00	192.95	193.82	125.454	-1,007.88	9,901.01	1,620.46	1,295.75	324.70	4.991	
17,500.00	8,418.00	18,526.17	9,360.00	192.95	193.82	125.454	-1,007.88	9,901.02	1,620.46	1,295.75	324.70	4.991	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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	
17,600.00	8,418.00	18,626.16	9,360.00	195.01	195.86	125.454	-1,007.58	10,001.01	1,620.46	1,292.28	328.18	4.938	
17,600.00	8,418.00	18,626.17	9,360.00	195.01	195.86	125.454	-1,007.58	10,001.02	1,620.46	1,292.28	328.18	4.938	
17,700.00	8,418.00	18,726.16	9,360.00	197.08	197.91	125.454	-1,007.28	10,101.01	1,620.46	1,288.80	331.65	4.886	
17,700.00	8,418.00	18,726.17	9,360.00	197.08	197.91	125.454	-1,007.28	10,101.01	1,620.46	1,288.80	331.66	4.886	
17,800.00	8,418.00	18,826.16	9,360.00	199.14	199.96	125.454	-1,006.99	10,201.01	1,620.46	1,285.33	335.13	4.835	
17,800.00	8,418.00	18,826.17	9,360.00	199.14	199.96	125.454	-1,006.99	10,201.01	1,620.46	1,285.33	335.13	4.835	
17,900.00	8,418.00	18,926.16	9,360.00	201.20	202.01	125.454	-1,006.69	10,301.01	1,620.46	1,281.85	338.61	4.786	
17,900.00	8,418.00	18,926.17	9,360.00	201.20	202.01	125.454	-1,006.69	10,301.01	1,620.46	1,281.85	338.61	4.786	
18,000.00	8,418.00	19,026.16	9,360.00	203.27	204.07	125.454	-1,006.39	10,401.01	1,620.46	1,278.37	342.08	4.737	
18,000.00	8,418.00	19,026.17	9,360.00	203.27	204.07	125.454	-1,006.39	10,401.01	1,620.46	1,278.37	342.08	4.737	
18,100.00	8,418.00	19,126.16	9,360.00	205.33	206.12	125.454	-1,006.09	10,501.01	1,620.46	1,274.90	345.56	4.689	
18,100.00	8,418.00	19,126.17	9,360.00	205.33	206.12	125.454	-1,006.09	10,501.01	1,620.46	1,274.90	345.56	4.689	
18,200.00	8,418.00	19,226.16	9,360.00	207.40	208.17	125.454	-1,005.79	10,601.01	1,620.46	1,271.42	349.04	4.643	
18,200.00	8,418.00	19,226.17	9,360.00	207.40	208.17	125.454	-1,005.79	10,601.01	1,620.46	1,271.42	349.04	4.643	
18,300.00	8,418.00	19,326.16	9,360.00	209.46	210.22	125.454	-1,005.50	10,701.01	1,620.46	1,267.94	352.52	4.597	
18,300.00	8,418.00	19,326.17	9,360.00	209.46	210.22	125.454	-1,005.50	10,701.01	1,620.46	1,267.94	352.52	4.597	
18,400.00	8,418.00	19,426.16	9,360.00	211.52	212.27	125.454	-1,005.20	10,801.01	1,620.46	1,264.46	356.00	4.552	
18,400.00	8,418.00	19,426.17	9,360.00	211.52	212.27	125.454	-1,005.20	10,801.01	1,620.46	1,264.46	356.00	4.552	
18,500.00	8,418.00	19,526.16	9,360.00	213.59	214.32	125.454	-1,004.90	10,901.01	1,620.46	1,260.98	359.48	4.508	
18,500.00	8,418.00	19,526.17	9,360.00	213.59	214.32	125.454	-1,004.90	10,901.01	1,620.46	1,260.98	359.48	4.508	
18,600.00	8,418.00	19,626.16	9,360.00	215.65	216.38	125.454	-1,004.60	11,001.01	1,620.46	1,257.50	362.96	4.465	
18,600.00	8,418.00	19,626.17	9,360.00	215.65	216.38	125.454	-1,004.60	11,001.01	1,620.46	1,257.50	362.96	4.465	
18,700.00	8,418.00	19,726.16	9,360.00	217.72	218.43	125.454	-1,004.30	11,101.01	1,620.46	1,254.02	366.44	4.422	
18,700.00	8,418.00	19,726.17	9,360.00	217.72	218.43	125.454	-1,004.30	11,101.01	1,620.46	1,254.02	366.44	4.422	
18,800.00	8,418.00	19,826.16	9,360.00	219.78	220.48	125.454	-1,004.00	11,201.01	1,620.46	1,250.54	369.92	4.381	
18,800.00	8,418.00	19,826.17	9,360.00	219.78	220.48	125.454	-1,004.00	11,201.01	1,620.46	1,250.54	369.92	4.381	
18,900.00	8,418.00	19,926.16	9,360.00	221.85	222.54	125.454	-1,003.71	11,301.01	1,620.46	1,247.06	373.40	4.340	
18,900.00	8,418.00	19,926.17	9,360.00	221.85	222.54	125.454	-1,003.71	11,301.01	1,620.46	1,247.06	373.40	4.340	
19,000.00	8,418.00	20,026.16	9,360.00	223.91	224.59	125.454	-1,003.41	11,401.01	1,620.46	1,243.58	376.88	4.300	
19,000.00	8,418.00	20,026.17	9,360.00	223.91	224.59	125.454	-1,003.41	11,401.01	1,620.46	1,243.58	376.88	4.300	
19,100.00	8,418.00	20,126.16	9,360.00	225.98	226.64	125.454	-1,003.11	11,501.01	1,620.46	1,240.10	380.36	4.260	
19,100.00	8,418.00	20,126.17	9,360.00	225.98	226.64	125.454	-1,003.11	11,501.01	1,620.46	1,240.10	380.36	4.260	
19,200.00	8,418.00	20,226.16	9,360.00	228.04	228.70	125.454	-1,002.81	11,601.01	1,620.46	1,236.62	383.84	4.222	
19,200.03	8,418.00	20,226.20	9,360.00	228.04	228.70	125.454	-1,002.81	11,601.04	1,620.46	1,236.62	383.84	4.222	
19,296.39	8,418.00	20,322.56	9,360.00	230.03	230.68	125.454	-1,002.52	11,697.40	1,620.46	1,233.26	387.20	4.185	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	172.075	-59.98	8.35	60.59				
100.00	100.00	98.20	98.20	0.79	0.77	172.075	-59.98	8.35	60.56	59.00	1.56	38.890	
200.00	200.00	198.20	198.20	1.45	1.43	172.075	-59.98	8.35	60.56	57.68	2.88	21.025	
300.00	300.00	298.20	298.20	1.89	1.88	172.075	-59.98	8.35	60.56	56.78	3.78	16.040	
400.00	400.00	398.20	398.20	2.25	2.25	172.075	-59.98	8.35	60.56	56.06	4.50	13.455	
500.00	500.00	498.20	498.20	2.57	2.56	172.075	-59.98	8.35	60.56	55.43	5.13	11.805	
600.00	600.00	598.20	598.20	2.85	2.84	172.075	-59.98	8.35	60.56	54.86	5.69	10.635	
700.00	700.00	698.20	698.20	3.11	3.10	172.075	-59.98	8.35	60.56	54.35	6.21	9.749	
800.00	800.00	798.20	798.20	3.35	3.34	172.075	-59.98	8.35	60.56	53.87	6.69	9.048	
900.00	900.00	898.20	898.20	3.58	3.57	172.075	-59.98	8.35	60.56	53.41	7.15	8.474	
1,000.00	1,000.00	998.20	998.20	3.79	3.79	172.075	-59.98	8.35	60.56	52.98	7.58	7.994	
1,100.00	1,100.00	1,098.20	1,098.20	3.99	3.99	172.075	-59.98	8.35	60.56	52.57	7.99	7.584	
1,200.00	1,200.00	1,198.20	1,198.20	4.19	4.19	172.075	-59.98	8.35	60.56	52.18	8.38	7.228	
1,300.00	1,300.00	1,298.20	1,298.20	4.38	4.38	172.075	-59.98	8.35	60.56	51.80	8.76	6.916	
1,400.00	1,400.00	1,398.20	1,398.20	4.56	4.56	172.075	-59.98	8.35	60.56	51.44	9.12	6.639	
1,500.00	1,500.00	1,498.20	1,498.20	4.74	4.74	172.075	-59.98	8.35	60.56	51.08	9.48	6.391	
1,600.00	1,600.00	1,598.20	1,598.20	4.91	4.91	172.075	-59.98	8.35	60.56	50.74	9.82	6.167	
1,700.00	1,700.00	1,698.20	1,698.20	5.08	5.08	172.075	-59.98	8.35	60.56	50.40	10.16	5.963	
1,800.00	1,800.00	1,798.20	1,798.20	5.24	5.24	172.075	-59.98	8.35	60.56	50.08	10.48	5.777	
1,900.00	1,900.00	1,898.20	1,898.20	5.40	5.40	172.075	-59.98	8.35	60.56	49.76	10.80	5.606	
2,000.00	2,000.00	1,998.20	1,998.20	5.56	5.56	172.075	-59.98	8.35	60.56	49.44	11.11	5.449 CC, ES	
2,100.00	2,100.00	2,096.27	2,096.26	5.71	5.77	171.519	-61.38	9.15	62.09	50.63	11.47	5.415 SF	
2,200.00	2,200.00	2,194.09	2,193.94	5.86	5.97	169.975	-65.69	11.61	66.84	55.04	11.80	5.664	
2,300.00	2,300.00	2,291.45	2,290.95	6.01	6.19	167.836	-72.84	15.70	74.87	62.73	12.14	6.167	
2,400.00	2,400.00	2,388.14	2,386.96	6.16	6.43	165.518	-82.77	21.38	86.23	73.74	12.49	6.904	
2,500.00	2,500.00	2,483.95	2,481.66	6.30	6.69	163.316	-95.38	28.59	100.94	88.09	12.85	7.855	
2,600.00	2,599.97	2,578.77	2,574.84	6.54	6.96	84.746	-110.57	37.27	118.81	105.60	13.21	8.995	
2,700.00	2,699.79	2,672.47	2,666.31	6.78	7.25	84.861	-128.19	47.34	139.50	125.94	13.56	10.286	
2,800.00	2,799.29	2,767.80	2,758.78	7.03	7.52	85.980	-148.30	58.83	162.48	148.55	13.93	11.663	
2,900.00	2,898.51	2,864.87	2,852.88	7.19	7.81	87.952	-169.00	70.67	185.73	171.42	14.31	12.975	
3,000.00	2,997.72	2,961.94	2,946.97	7.38	8.10	89.571	-189.70	82.50	209.16	194.44	14.72	14.210	
3,100.00	3,096.93	3,059.00	3,041.06	7.59	8.40	90.863	-210.40	94.33	232.71	217.57	15.14	15.371	
3,200.00	3,196.13	3,156.07	3,135.16	7.82	8.73	91.919	-231.10	106.16	256.35	240.78	15.57	16.460	
3,300.00	3,295.34	3,253.13	3,229.25	8.06	9.06	92.796	-251.80	117.99	280.06	264.04	16.02	17.480	
3,400.00	3,394.55	3,350.20	3,323.34	8.32	9.41	93.536	-272.50	129.83	303.83	287.35	16.48	18.435	
3,500.00	3,493.76	3,447.27	3,417.43	8.59	9.77	94.169	-293.20	141.66	327.63	310.68	16.95	19.329	
3,600.00	3,592.97	3,544.33	3,511.53	8.88	10.14	94.716	-313.89	153.49	351.47	334.04	17.43	20.166	
3,700.00	3,692.18	3,641.40	3,605.62	9.17	10.52	95.194	-334.59	165.32	375.33	357.42	17.92	20.949	
3,800.00	3,791.39	3,738.47	3,699.71	9.47	10.91	95.614	-355.29	177.15	399.22	380.81	18.41	21.683	
3,900.00	3,890.60	3,835.53	3,793.80	9.79	11.30	95.987	-375.99	188.99	423.12	404.21	18.91	22.371	
4,000.00	3,989.81	3,932.60	3,887.90	10.11	11.70	96.321	-396.69	200.82	447.04	427.62	19.42	23.017	
4,100.00	4,089.02	4,029.66	3,981.99	10.44	12.11	96.620	-417.39	212.65	470.97	451.04	19.94	23.623	
4,200.00	4,188.23	4,126.73	4,076.08	10.77	12.52	96.891	-438.09	224.48	494.91	474.46	20.46	24.193	
4,300.00	4,287.44	4,223.80	4,170.17	11.11	12.93	97.136	-458.79	236.31	518.87	497.88	20.98	24.729	
4,400.00	4,386.65	4,320.86	4,264.27	11.46	13.35	97.360	-479.49	248.15	542.83	521.32	21.51	25.234	
4,500.00	4,485.86	4,417.93	4,358.36	11.81	13.78	97.565	-500.19	259.98	566.79	544.75	22.05	25.710	
4,600.00	4,585.07	4,515.00	4,452.45	12.16	14.20	97.753	-520.89	271.81	590.77	568.18	22.58	26.160	
4,700.00	4,684.28	4,612.06	4,546.54	12.52	14.63	97.927	-541.59	283.64	614.75	591.62	23.12	26.584	
4,800.00	4,783.48	4,709.13	4,640.64	12.89	15.07	98.087	-562.29	295.47	638.73	615.06	23.67	26.986	
4,900.00	4,882.69	4,806.19	4,734.73	13.26	15.50	98.236	-582.99	307.31	662.72	638.50	24.22	27.366	
5,000.00	4,981.90	4,903.26	4,828.82	13.63	15.94	98.375	-603.69	319.14	686.71	661.94	24.77	27.726	
5,100.00	5,081.11	5,000.33	4,922.91	14.00	16.38	98.504	-624.39	330.97	710.71	685.39	25.32	28.067	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	5,180.32	5,097.39	5,017.01	14.38	16.82	98.625	-645.08	342.80	734.71	708.83	25.88	28.391	
5,300.00	5,279.53	5,194.46	5,111.10	14.75	17.27	98.738	-665.78	354.63	758.71	732.27	26.44	28.699	
5,400.00	5,378.74	5,291.53	5,205.19	15.14	17.71	98.844	-686.48	366.47	782.71	755.72	27.00	28.992	
5,500.00	5,477.95	5,388.59	5,299.28	15.52	18.16	98.944	-707.18	378.30	806.72	779.16	27.56	29.271	
5,600.00	5,577.16	5,485.66	5,393.38	15.91	18.61	99.038	-727.88	390.13	830.73	802.60	28.13	29.537	
5,700.00	5,676.37	5,582.72	5,487.47	16.29	19.06	99.127	-748.58	401.96	854.74	826.05	28.69	29.790	
5,800.00	5,775.58	5,679.79	5,581.56	16.68	19.51	99.211	-769.28	413.79	878.75	849.49	29.26	30.031	
5,900.00	5,874.79	5,776.86	5,675.65	17.07	19.97	99.290	-789.98	425.63	902.77	872.94	29.83	30.262	
6,000.00	5,974.00	5,873.92	5,769.75	17.47	20.42	99.366	-810.68	437.46	926.78	896.38	30.40	30.483	
6,100.00	6,073.21	5,970.99	5,863.84	17.86	20.88	99.437	-831.38	449.29	950.80	919.82	30.98	30.694	
6,200.00	6,172.42	6,068.06	5,957.93	18.25	21.34	99.505	-852.08	461.12	974.82	943.27	31.55	30.895	
6,300.00	6,271.63	6,165.12	6,052.02	18.65	21.79	99.570	-872.78	472.95	998.84	966.71	32.13	31.089	
6,400.00	6,370.83	6,262.19	6,146.12	19.05	22.25	99.632	-893.48	484.79	1,022.86	990.16	32.71	31.274	
6,500.00	6,470.04	6,359.25	6,240.21	19.45	22.71	99.691	-914.18	496.62	1,046.89	1,013.60	33.29	31.452	
6,600.00	6,569.25	6,456.32	6,334.30	19.85	23.17	99.747	-934.88	508.45	1,070.91	1,037.04	33.87	31.622	
6,700.00	6,668.46	6,553.39	6,428.39	20.25	23.63	99.801	-955.57	520.28	1,094.93	1,060.49	34.44	31.791	
6,800.00	6,767.67	6,691.93	6,563.27	20.65	24.29	99.935	-982.99	535.96	1,117.50	1,082.27	35.23	31.722	
6,900.00	6,866.88	6,842.60	6,711.49	21.05	24.99	100.252	-1,006.41	549.34	1,135.64	1,099.64	36.00	31.549	
7,000.00	6,966.09	6,995.15	6,862.80	21.46	25.65	100.749	-1,023.19	558.93	1,149.19	1,112.53	36.66	31.346	
7,100.00	7,065.30	7,148.75	7,015.96	21.86	26.23	101.427	-1,032.99	564.53	1,158.13	1,120.94	37.19	31.142	
7,200.00	7,164.51	7,295.54	7,162.71	22.26	26.54	102.244	-1,035.72	566.09	1,162.53	1,125.08	37.45	31.041	
7,300.00	7,263.72	7,394.75	7,261.92	22.67	26.57	102.843	-1,035.72	566.09	1,165.27	1,127.66	37.62	30.978	
7,400.00	7,362.93	7,493.96	7,361.13	23.08	26.59	103.438	-1,035.72	566.09	1,168.15	1,130.37	37.78	30.920	
7,500.00	7,462.14	7,593.17	7,460.34	23.48	26.61	104.031	-1,035.72	566.09	1,171.15	1,133.20	37.95	30.861	
7,600.00	7,561.37	7,692.41	7,559.57	23.87	26.63	104.633	-1,035.72	566.09	1,174.22	1,136.13	38.10	30.822	
7,700.00	7,660.93	7,791.97	7,659.13	24.28	26.66	105.121	-1,035.72	566.09	1,176.62	1,138.35	38.27	30.746	
7,800.00	7,760.78	7,891.82	7,758.98	24.65	26.68	105.402	-1,035.72	566.09	1,178.03	1,139.60	38.43	30.657	
7,900.00	7,860.77	7,991.80	7,858.97	24.82	26.70	102.802	-1,035.72	566.09	1,178.45	1,139.91	38.54	30.581	
8,000.00	7,959.98	8,091.02	7,958.18	25.28	26.73	103.086	-1,035.72	566.09	1,181.04	1,142.34	38.70	30.521	
8,100.00	8,055.71	8,186.74	8,053.91	25.82	26.75	103.696	-1,035.72	566.09	1,187.94	1,148.99	38.94	30.504	
8,200.00	8,145.03	8,276.07	8,143.23	26.38	26.77	104.381	-1,035.72	566.09	1,200.04	1,160.74	39.30	30.534	
8,300.00	8,225.24	8,356.27	8,223.44	26.91	26.79	104.782	-1,035.72	566.09	1,218.52	1,178.74	39.79	30.627	
8,400.00	8,293.90	8,424.93	8,292.10	27.39	26.81	104.491	-1,035.72	566.09	1,244.53	1,204.13	40.40	30.806	
8,500.00	8,348.91	8,479.95	8,347.11	27.78	26.82	103.088	-1,035.72	566.09	1,278.85	1,237.74	41.12	31.104	
8,600.00	8,388.62	8,519.66	8,386.82	28.07	26.83	100.181	-1,035.72	566.09	1,321.64	1,279.75	41.89	31.554	
8,700.00	8,411.81	8,542.85	8,410.01	28.25	26.83	95.464	-1,035.72	566.09	1,372.22	1,329.59	42.64	32.182	
8,800.00	8,418.00	8,549.04	8,416.20	28.31	26.84	90.000	-1,035.72	566.09	1,429.12	1,385.81	43.31	32.996	
8,900.00	8,418.00	8,549.04	8,416.20	28.34	26.84	90.000	-1,035.72	566.09	1,488.96	1,445.01	43.95	33.882	
9,000.00	8,418.00	8,549.04	8,416.20	28.37	26.84	90.000	-1,035.72	566.09	1,550.27	1,505.72	44.55	34.799	
9,100.00	8,418.00	8,549.04	8,416.20	28.42	26.84	90.000	-1,035.72	566.09	1,612.82	1,567.69	45.13	35.740	
9,200.00	8,418.00	8,549.04	8,416.20	28.53	26.84	90.000	-1,035.72	566.09	1,676.39	1,630.72	45.68	36.699	
9,300.00	8,418.00	8,549.04	8,416.20	28.82	26.84	90.000	-1,035.72	566.09	1,740.84	1,694.64	46.20	37.680	
9,400.00	8,418.00	8,549.04	8,416.20	29.64	26.84	90.000	-1,035.72	566.09	1,807.63	1,760.94	46.69	38.712	
9,500.00	8,418.00	8,549.04	8,416.20	31.07	26.84	90.000	-1,035.72	566.09	1,877.37	1,830.21	47.16	39.810	
9,600.00	8,418.00	8,549.04	8,416.20	32.77	26.84	90.000	-1,035.72	566.09	1,949.75	1,902.15	47.59	40.968	
9,700.00	8,418.00	8,549.04	8,416.20	34.55	26.84	90.000	-1,035.72	566.09	2,024.48	1,976.48	48.00	42.176	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - 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	0.00	0.00	0.00	0.00	171.145	-39.99	6.23	40.48				
100.00	100.00	99.15	99.15	0.79	0.78	171.145	-39.99	6.23	40.47	38.91	1.56	25.867	
200.00	200.00	199.15	199.15	1.45	1.44	171.145	-39.99	6.23	40.47	37.59	2.89	14.021	
300.00	300.00	299.15	299.15	1.89	1.89	171.145	-39.99	6.23	40.47	36.69	3.78	10.708	
400.00	400.00	399.15	399.15	2.25	2.25	171.145	-39.99	6.23	40.47	35.97	4.50	8.985	
500.00	500.00	499.15	499.15	2.57	2.57	171.145	-39.99	6.23	40.47	35.34	5.13	7.885	
600.00	600.00	599.15	599.15	2.85	2.85	171.145	-39.99	6.23	40.47	34.78	5.70	7.104	
700.00	700.00	699.15	699.15	3.11	3.11	171.145	-39.99	6.23	40.47	34.26	6.21	6.513	
800.00	800.00	799.15	799.15	3.35	3.35	171.145	-39.99	6.23	40.47	33.78	6.70	6.045	
900.00	900.00	899.15	899.15	3.58	3.57	171.145	-39.99	6.23	40.47	33.32	7.15	5.662	
1,000.00	1,000.00	999.15	999.15	3.79	3.79	171.145	-39.99	6.23	40.47	32.89	7.58	5.341	
1,100.00	1,100.00	1,099.15	1,099.15	3.99	3.99	171.145	-39.99	6.23	40.47	32.49	7.99	5.067	
1,200.00	1,200.00	1,199.15	1,199.15	4.19	4.19	171.145	-39.99	6.23	40.47	32.09	8.38	4.830	
1,300.00	1,300.00	1,299.15	1,299.15	4.38	4.38	171.145	-39.99	6.23	40.47	31.71	8.76	4.621	
1,400.00	1,400.00	1,399.15	1,399.15	4.56	4.56	171.145	-39.99	6.23	40.47	31.35	9.12	4.436	
1,500.00	1,500.00	1,499.15	1,499.15	4.74	4.74	171.145	-39.99	6.23	40.47	30.99	9.48	4.270	
1,600.00	1,600.00	1,599.15	1,599.15	4.91	4.91	171.145	-39.99	6.23	40.47	30.65	9.82	4.121	
1,700.00	1,700.00	1,699.15	1,699.15	5.08	5.08	171.145	-39.99	6.23	40.47	30.32	10.16	3.985	
1,800.00	1,800.00	1,799.15	1,799.15	5.24	5.24	171.145	-39.99	6.23	40.47	29.99	10.48	3.860	
1,900.00	1,900.00	1,899.15	1,899.15	5.40	5.40	171.145	-39.99	6.23	40.47	29.67	10.80	3.746	
2,000.00	2,000.00	1,999.15	1,999.15	5.56	5.56	171.145	-39.99	6.23	40.47	29.36	11.12	3.641	
2,100.00	2,100.00	2,100.52	2,100.48	5.71	5.95	168.302	-37.90	7.85	38.72	27.20	11.52	3.362	
2,200.00	2,200.00	2,201.35	2,200.97	5.86	6.33	158.085	-31.60	12.71	34.11	22.27	11.83	2.882	
2,300.00	2,300.00	2,301.06	2,299.81	6.01	6.71	135.745	-21.25	20.70	29.68	17.65	12.02	2.469	
2,325.76	2,325.76	2,326.49	2,324.91	6.05	6.80	127.684	-17.96	23.25	29.38	17.29	12.08	2.431	CC, ES, SF
2,400.00	2,400.00	2,399.14	2,396.24	6.16	7.09	102.653	-7.10	31.63	32.55	20.11	12.44	2.616	
2,500.00	2,500.00	2,495.89	2,490.43	6.30	7.27	77.067	10.36	45.12	47.11	34.08	13.03	3.615	
2,600.00	2,599.97	2,593.38	2,585.15	6.54	7.51	-13.242	28.63	59.23	65.36	51.71	13.66	4.787	
2,700.00	2,699.79	2,691.45	2,680.43	6.78	7.77	-21.383	47.00	73.42	81.87	67.65	14.22	5.759	
2,800.00	2,799.29	2,789.93	2,776.12	7.03	8.05	-27.745	65.45	87.67	96.00	81.23	14.77	6.500	
2,900.00	2,898.51	2,888.61	2,871.99	7.19	8.35	-33.249	83.94	101.95	108.88	93.64	15.23	7.147	
3,000.00	2,997.72	2,987.29	2,967.87	7.38	8.67	-37.602	102.43	116.24	122.50	106.77	15.73	7.789	
3,100.00	3,096.93	3,085.98	3,063.75	7.59	9.00	-41.073	120.92	130.52	136.68	120.45	16.23	8.422	
3,200.00	3,196.13	3,184.66	3,159.62	7.82	9.35	-43.887	139.41	144.80	151.27	134.52	16.74	9.035	
3,300.00	3,295.34	3,283.34	3,255.50	8.06	9.71	-46.204	157.90	159.08	166.14	148.88	17.27	9.623	
3,400.00	3,394.55	3,382.02	3,351.38	8.32	10.07	-48.139	176.39	173.36	181.25	163.45	17.80	10.184	
3,500.00	3,493.76	3,480.71	3,447.26	8.59	10.45	-49.775	194.88	187.64	196.52	178.18	18.34	10.717	
3,600.00	3,592.97	3,579.39	3,543.13	8.88	10.83	-51.175	213.37	201.92	211.93	193.04	18.88	11.222	
3,700.00	3,692.18	3,678.07	3,639.01	9.17	11.23	-52.385	231.86	216.20	227.44	208.00	19.44	11.701	
3,800.00	3,791.39	3,776.75	3,734.89	9.47	11.63	-53.441	250.35	230.48	243.04	223.04	20.00	12.153	
3,900.00	3,890.60	3,875.44	3,830.77	9.79	12.03	-54.369	268.84	244.76	258.71	238.15	20.57	12.580	
4,000.00	3,989.81	3,974.12	3,926.64	10.11	12.44	-55.191	287.32	259.04	274.44	253.31	21.14	12.984	
4,100.00	4,089.02	4,072.80	4,022.52	10.44	12.86	-55.924	305.81	273.33	290.22	268.51	21.71	13.366	
4,200.00	4,188.23	4,171.49	4,118.40	10.77	13.28	-56.581	324.30	287.61	306.04	283.75	22.29	13.728	
4,300.00	4,287.44	4,270.17	4,214.28	11.11	13.70	-57.174	342.79	301.89	321.90	299.02	22.88	14.070	
4,400.00	4,386.65	4,368.85	4,310.15	11.46	14.13	-57.711	361.28	316.17	337.79	314.32	23.47	14.394	
4,500.00	4,485.86	4,467.53	4,406.03	11.81	14.56	-58.200	379.77	330.45	353.70	329.64	24.06	14.702	
4,600.00	4,585.07	4,566.22	4,501.91	12.16	15.00	-58.647	398.26	344.73	369.64	344.98	24.65	14.993	
4,700.00	4,684.28	4,664.90	4,597.79	12.52	15.44	-59.056	416.75	359.01	385.59	360.34	25.25	15.270	
4,800.00	4,783.48	4,763.58	4,693.66	12.89	15.88	-59.434	435.24	373.29	401.57	375.72	25.85	15.533	
4,900.00	4,882.69	4,862.26	4,789.54	13.26	16.32	-59.782	453.73	387.57	417.56	391.10	26.45	15.784	
5,000.00	4,981.90	4,960.95	4,885.42	13.63	16.76	-60.105	472.22	401.85	433.56	406.50	27.06	16.022	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - 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		Offset Wellbore Centre		Distance			Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor	
5,100.00	5,081.11	5,059.63	4,981.30	14.00	17.21	-60.404	490.71	416.14	449.58	421.91	27.67	16.249	
5,200.00	5,180.32	5,158.31	5,077.17	14.38	17.66	-60.684	509.20	430.42	465.61	437.33	28.28	16.465	
5,300.00	5,279.53	5,257.00	5,173.05	14.75	18.11	-60.944	527.69	444.70	481.64	452.75	28.89	16.672	
5,400.00	5,378.74	5,355.68	5,268.93	15.14	18.56	-61.188	546.17	458.98	497.69	468.19	29.50	16.869	
5,500.00	5,477.95	5,454.36	5,364.81	15.52	19.02	-61.416	564.66	473.26	513.74	483.63	30.12	17.058	
5,600.00	5,577.16	5,553.04	5,460.68	15.91	19.47	-61.631	583.15	487.54	529.81	499.07	30.73	17.238	
5,700.00	5,676.37	5,651.73	5,556.56	16.29	19.93	-61.833	601.64	501.82	545.88	514.52	31.35	17.411	
5,800.00	5,775.58	5,750.41	5,652.44	16.68	20.39	-62.023	620.13	516.10	561.95	529.98	31.97	17.576	
5,900.00	5,874.79	5,849.09	5,748.31	17.07	20.85	-62.203	638.62	530.38	578.03	545.44	32.59	17.735	
6,000.00	5,974.00	5,947.77	5,844.19	17.47	21.31	-62.374	657.11	544.66	594.12	560.90	33.22	17.887	
6,100.00	6,073.21	6,046.46	5,940.07	17.86	21.77	-62.535	675.60	558.94	610.21	576.37	33.84	18.033	
6,200.00	6,172.42	6,145.14	6,035.95	18.25	22.23	-62.688	694.09	573.23	626.30	591.84	34.46	18.173	
6,300.00	6,271.63	6,243.82	6,131.82	18.65	22.69	-62.833	712.58	587.51	642.40	607.32	35.09	18.308	
6,400.00	6,370.83	6,342.51	6,227.70	19.05	23.16	-62.971	731.07	601.79	658.51	622.79	35.71	18.438	
6,500.00	6,470.04	6,441.19	6,323.58	19.45	23.62	-63.103	749.56	616.07	674.62	638.27	36.34	18.563	
6,600.00	6,569.25	6,539.87	6,419.46	19.85	24.09	-63.228	768.05	630.35	690.73	653.76	36.97	18.683	
6,700.00	6,668.46	6,638.55	6,515.33	20.25	24.55	-63.348	786.54	644.63	706.84	669.24	37.60	18.799	
6,800.00	6,767.67	6,737.24	6,611.21	20.65	25.02	-63.462	805.02	658.91	722.96	684.73	38.23	18.911	
6,900.00	6,866.88	6,841.07	6,712.11	21.05	25.51	-63.579	824.44	673.90	739.04	700.16	38.89	19.006	
7,000.00	6,966.09	6,994.73	6,862.93	21.46	26.26	-63.976	847.53	691.74	750.87	711.16	39.71	18.908	
7,100.00	7,065.30	7,149.72	7,016.94	21.86	26.94	-64.764	861.03	702.17	755.44	715.23	40.21	18.789	
7,200.00	7,164.51	7,296.55	7,163.66	22.26	27.30	-65.884	864.70	705.00	752.89	712.69	40.19	18.733	
7,300.00	7,263.72	7,395.76	7,262.87	22.67	27.35	-66.756	864.70	705.00	747.81	707.62	40.19	18.608	
7,400.00	7,362.93	7,494.97	7,362.08	23.08	27.39	-67.639	864.70	705.00	742.91	702.75	40.17	18.495	
7,500.00	7,462.14	7,594.18	7,461.29	23.48	27.43	-68.534	864.70	705.00	738.20	698.06	40.14	18.393	
7,600.00	7,561.37	7,693.42	7,560.52	23.87	27.48	-69.396	864.70	705.00	733.74	693.67	40.07	18.311	
7,700.00	7,660.93	7,792.98	7,660.08	24.28	27.52	-70.006	864.70	705.00	730.50	690.42	40.08	18.225	
7,800.00	7,760.78	7,892.83	7,759.93	24.65	27.56	-70.360	864.70	705.00	728.69	688.53	40.16	18.145	
7,900.00	7,860.77	7,992.81	7,859.92	24.82	27.60	-73.157	864.70	705.00	728.16	687.90	40.26	18.087	
8,000.00	7,959.98	8,092.03	7,959.13	25.28	27.64	-74.324	864.70	705.00	724.93	684.74	40.18	18.041	
8,100.00	8,055.71	8,187.75	8,054.86	25.82	27.68	-77.136	864.70	705.00	717.60	677.85	39.75	18.052	
8,200.00	8,145.03	8,277.07	8,144.18	26.38	27.72	-81.211	864.70	705.00	708.28	669.29	38.99	18.166	
8,300.00	8,225.24	8,357.28	8,224.39	26.91	27.76	-85.889	864.70	705.00	700.11	662.09	38.02	18.415	
8,392.85	8,289.42	8,421.46	8,288.57	27.35	27.78	-90.000	864.70	705.00	696.90	659.74	37.16	18.754	
8,400.00	8,293.90	8,425.94	8,293.05	27.39	27.79	-90.285	864.70	705.00	696.92	659.82	37.10	18.786	
8,500.00	8,348.91	8,480.96	8,348.06	27.78	27.81	-93.476	864.70	705.00	702.55	665.99	36.56	19.218	
8,600.00	8,388.62	8,520.67	8,387.77	28.07	27.83	-94.682	864.70	705.00	719.91	683.32	36.59	19.673	
8,700.00	8,411.81	8,543.86	8,410.96	28.25	27.84	-93.342	864.70	705.00	750.19	713.02	37.17	20.181	
8,800.00	8,418.00	8,550.04	8,417.15	28.31	27.84	-90.000	864.70	705.00	792.57	754.47	38.10	20.801	
8,900.00	8,418.00	8,550.04	8,417.15	28.34	27.84	-90.000	864.70	705.00	846.65	807.42	39.23	21.581	
9,000.00	8,418.00	8,550.04	8,417.15	28.37	27.84	-90.000	864.70	705.00	911.16	870.76	40.40	22.554	
9,100.00	8,418.00	8,550.04	8,417.15	28.42	27.84	-90.000	864.70	705.00	983.98	942.47	41.51	23.706	
9,200.00	8,418.00	8,550.04	8,417.15	28.53	27.84	-90.000	864.70	705.00	1,063.32	1,020.81	42.50	25.017	
9,300.00	8,418.00	8,550.04	8,417.15	28.82	27.84	-90.000	864.70	705.00	1,147.72	1,104.35	43.36	26.467	
9,400.00	8,418.00	8,550.04	8,417.15	29.64	27.84	-90.000	864.70	705.00	1,235.04	1,190.93	44.12	27.996	
9,500.00	8,418.00	8,550.04	8,417.15	31.07	27.84	-90.000	864.70	705.00	1,324.16	1,279.38	44.79	29.566	
9,600.00	8,418.00	8,550.04	8,417.15	32.77	27.84	-90.000	864.70	705.00	1,414.74	1,369.35	45.38	31.172	
9,700.00	8,418.00	8,550.04	8,417.15	34.55	27.84	-90.000	864.70	705.00	1,506.51	1,460.59	45.92	32.807	
9,800.00	8,418.00	8,550.04	8,417.15	36.39	27.84	-90.000	864.70	705.00	1,599.26	1,552.86	46.40	34.468	
9,900.00	8,418.00	8,550.04	8,417.15	38.27	27.84	-90.000	864.70	705.00	1,692.84	1,646.01	46.83	36.149	
10,000.00	8,418.00	8,550.04	8,417.15	40.16	27.84	-90.000	864.70	705.00	1,787.12	1,739.90	47.22	37.847	
10,100.00	8,418.00	11,852.36	10,175.00	42.08	46.01	-161.740	870.04	2,495.38	1,851.06	1,800.73	50.34	36.774	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
10,100.00	8,418.00	11,852.36	10,175.00	42.08	46.01	-161.740	870.04	2,495.38	1,851.06	1,800.73	50.34	36.774	
10,200.00	8,418.00	11,952.36	10,175.00	44.01	47.71	-161.740	870.34	2,595.38	1,851.06	1,799.29	51.78	35.751	
10,200.00	8,418.00	11,952.36	10,175.00	44.01	47.71	-161.740	870.34	2,595.38	1,851.06	1,799.29	51.78	35.751	
10,300.00	8,418.00	12,052.36	10,175.00	45.96	49.44	-161.740	870.64	2,695.38	1,851.06	1,797.81	53.25	34.761	
10,300.00	8,418.00	12,052.36	10,175.00	45.96	49.44	-161.740	870.64	2,695.38	1,851.06	1,797.81	53.25	34.761	
10,400.00	8,418.00	12,152.36	10,175.00	47.91	51.20	-161.740	870.94	2,795.38	1,851.06	1,796.31	54.75	33.806	
10,400.00	8,418.00	12,152.36	10,175.00	47.91	51.20	-161.740	870.94	2,795.38	1,851.06	1,796.31	54.75	33.806	
10,500.00	8,418.00	12,252.36	10,175.00	49.88	52.99	-161.740	871.23	2,895.38	1,851.06	1,794.78	56.29	32.886	
10,500.00	8,418.00	12,252.36	10,175.00	49.88	52.99	-161.740	871.23	2,895.38	1,851.06	1,794.78	56.29	32.886	
10,600.00	8,418.00	12,352.36	10,175.00	51.85	54.80	-161.740	871.53	2,995.38	1,851.06	1,793.22	57.85	32.000	
10,600.00	8,418.00	12,352.36	10,175.00	51.85	54.80	-161.740	871.53	2,995.38	1,851.06	1,793.22	57.85	32.000	
10,700.00	8,418.00	12,452.36	10,175.00	53.83	56.63	-161.740	871.83	3,095.38	1,851.06	1,791.63	59.43	31.148	
10,700.00	8,418.00	12,452.36	10,175.00	53.83	56.63	-161.740	871.83	3,095.38	1,851.06	1,791.63	59.43	31.148	
10,800.00	8,418.00	12,552.36	10,175.00	55.82	58.48	-161.740	872.13	3,195.38	1,851.06	1,790.03	61.03	30.329	
10,800.00	8,418.00	12,552.36	10,175.00	55.82	58.48	-161.740	872.13	3,195.38	1,851.06	1,790.03	61.03	30.329	
10,900.00	8,418.00	12,652.36	10,175.00	57.81	60.34	-161.740	872.43	3,295.38	1,851.06	1,788.40	62.66	29.542	
10,900.00	8,418.00	12,652.36	10,175.00	57.81	60.34	-161.740	872.43	3,295.38	1,851.06	1,788.40	62.66	29.542	
11,000.00	8,418.00	12,752.36	10,175.00	59.81	62.22	-161.740	872.72	3,395.38	1,851.06	1,786.76	64.30	28.786	
11,000.00	8,418.00	12,752.36	10,175.00	59.81	62.22	-161.740	872.72	3,395.38	1,851.06	1,786.76	64.30	28.786	
11,100.00	8,418.00	12,852.36	10,175.00	61.81	64.11	-161.740	873.02	3,495.38	1,851.06	1,785.10	65.97	28.061	
11,100.00	8,418.00	12,852.36	10,175.00	61.81	64.11	-161.740	873.02	3,495.38	1,851.06	1,785.10	65.97	28.061	
11,200.00	8,418.00	12,952.36	10,175.00	63.82	66.02	-161.740	873.32	3,595.38	1,851.06	1,783.42	67.64	27.365	
11,200.00	8,418.00	12,952.36	10,175.00	63.82	66.02	-161.740	873.32	3,595.38	1,851.06	1,783.42	67.64	27.365	
11,300.00	8,418.00	13,052.36	10,175.00	65.83	67.93	-161.740	873.62	3,695.38	1,851.06	1,781.73	69.34	26.696	
11,300.00	8,418.00	13,052.36	10,175.00	65.83	67.93	-161.740	873.62	3,695.38	1,851.06	1,781.73	69.34	26.696	
11,400.00	8,418.00	13,152.36	10,175.00	67.85	69.85	-161.740	873.92	3,795.37	1,851.06	1,780.02	71.05	26.055	
11,400.00	8,418.00	13,152.36	10,175.00	67.85	69.85	-161.740	873.92	3,795.38	1,851.06	1,780.02	71.05	26.055	
11,500.00	8,418.00	13,252.36	10,175.00	69.86	71.78	-161.740	874.22	3,895.37	1,851.06	1,778.30	72.77	25.439	
11,500.00	8,418.00	13,252.36	10,175.00	69.86	71.78	-161.740	874.22	3,895.38	1,851.06	1,778.30	72.77	25.439	
11,600.00	8,418.00	13,352.36	10,175.00	71.88	73.72	-161.740	874.51	3,995.37	1,851.06	1,776.56	74.50	24.847	
11,600.00	8,418.00	13,352.36	10,175.00	71.88	73.72	-161.740	874.51	3,995.38	1,851.06	1,776.56	74.50	24.847	
11,700.00	8,418.00	13,452.36	10,175.00	73.91	75.67	-161.740	874.81	4,095.37	1,851.06	1,774.82	76.24	24.278	
11,700.00	8,418.00	13,452.36	10,175.00	73.91	75.67	-161.740	874.81	4,095.38	1,851.06	1,774.82	76.24	24.278	
11,800.00	8,418.00	13,552.36	10,175.00	75.93	77.62	-161.740	875.11	4,195.37	1,851.06	1,773.06	78.00	23.732	
11,800.00	8,418.00	13,552.36	10,175.00	75.93	77.62	-161.740	875.11	4,195.38	1,851.06	1,773.06	78.00	23.732	
11,900.00	8,418.00	13,652.36	10,175.00	77.96	79.58	-161.740	875.41	4,295.37	1,851.06	1,771.30	79.76	23.207	
11,900.00	8,418.00	13,652.36	10,175.00	77.96	79.58	-161.740	875.41	4,295.37	1,851.06	1,771.30	79.76	23.207	
12,000.00	8,418.00	13,752.36	10,175.00	79.99	81.55	-161.740	875.71	4,395.37	1,851.06	1,769.53	81.54	22.702	
12,000.00	8,418.00	13,752.36	10,175.00	79.99	81.55	-161.740	875.71	4,395.37	1,851.06	1,769.53	81.54	22.702	
12,100.00	8,418.00	13,852.36	10,175.00	82.02	83.52	-161.740	876.01	4,495.37	1,851.06	1,767.74	83.32	22.216	
12,100.00	8,418.00	13,852.36	10,175.00	82.02	83.52	-161.740	876.01	4,495.37	1,851.06	1,767.74	83.32	22.216	
12,200.00	8,418.00	13,952.36	10,175.00	84.06	85.49	-161.740	876.30	4,595.37	1,851.06	1,765.95	85.11	21.749	
12,200.00	8,418.00	13,952.36	10,175.00	84.06	85.49	-161.740	876.30	4,595.37	1,851.06	1,765.95	85.11	21.749	
12,300.00	8,418.00	14,052.36	10,175.00	86.09	87.47	-161.740	876.60	4,695.37	1,851.06	1,764.15	86.91	21.299	
12,300.00	8,418.00	14,052.36	10,175.00	86.09	87.47	-161.740	876.60	4,695.37	1,851.06	1,764.15	86.91	21.299	
12,400.00	8,418.00	14,152.36	10,175.00	88.13	89.46	-161.740	876.90	4,795.37	1,851.06	1,762.35	88.72	20.865	
12,400.00	8,418.00	14,152.36	10,175.00	88.13	89.46	-161.740	876.90	4,795.37	1,851.06	1,762.35	88.72	20.865	
12,500.00	8,418.00	14,252.36	10,175.00	90.17	91.44	-161.740	877.20	4,895.37	1,851.06	1,760.53	90.53	20.447	
12,500.00	8,418.00	14,252.36	10,175.00	90.17	91.44	-161.740	877.20	4,895.37	1,851.06	1,760.53	90.53	20.447	
12,600.00	8,418.00	14,352.36	10,175.00	92.21	93.44	-161.740	877.50	4,995.37	1,851.06	1,758.72	92.35	20.045	
12,600.00	8,418.00	14,352.36	10,175.00	92.21	93.44	-161.740	877.50	4,995.37	1,851.06	1,758.72	92.35	20.045	
12,700.00	8,418.00	14,452.36	10,175.00	94.25	95.43	-161.740	877.79	5,095.37	1,851.06	1,756.89	94.17	19.656	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - 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			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)		
12,700.00	8,418.00	14,452.36	10,175.00	94.25	95.43	-161.740	877.79	5,095.37	1,851.06	1,756.89	94.17	19.656	
12,800.00	8,418.00	14,552.36	10,175.00	96.30	97.43	-161.740	878.09	5,195.37	1,851.06	1,755.06	96.00	19.281	
12,800.00	8,418.00	14,552.36	10,175.00	96.30	97.43	-161.740	878.09	5,195.37	1,851.06	1,755.06	96.00	19.281	
12,900.00	8,418.00	14,652.36	10,175.00	98.34	99.43	-161.740	878.39	5,295.37	1,851.06	1,753.22	97.84	18.919	
12,900.00	8,418.00	14,652.36	10,175.00	98.34	99.43	-161.740	878.39	5,295.37	1,851.06	1,753.22	97.84	18.919	
13,000.00	8,418.00	14,752.36	10,175.00	100.38	101.43	-161.740	878.69	5,395.37	1,851.06	1,751.38	99.68	18.570	
13,000.00	8,418.00	14,752.36	10,175.00	100.38	101.43	-161.740	878.69	5,395.37	1,851.06	1,751.38	99.68	18.570	
13,100.00	8,418.00	14,852.36	10,175.00	102.43	103.44	-161.740	878.99	5,495.37	1,851.06	1,749.54	101.53	18.232	
13,100.00	8,418.00	14,852.36	10,175.00	102.43	103.44	-161.740	878.99	5,495.37	1,851.06	1,749.54	101.53	18.232	
13,200.00	8,418.00	14,952.36	10,175.00	104.48	105.45	-161.740	879.29	5,595.37	1,851.06	1,747.69	103.38	17.906	
13,200.00	8,418.00	14,952.36	10,175.00	104.48	105.45	-161.740	879.29	5,595.37	1,851.06	1,747.69	103.38	17.906	
13,300.00	8,418.00	15,052.36	10,175.00	106.52	107.46	-161.740	879.58	5,695.37	1,851.06	1,745.83	105.23	17.590	
13,300.00	8,418.00	15,052.36	10,175.00	106.52	107.46	-161.740	879.58	5,695.37	1,851.06	1,745.83	105.23	17.590	
13,400.00	8,418.00	15,152.36	10,175.00	108.57	109.47	-161.740	879.88	5,795.37	1,851.06	1,743.97	107.09	17.285	
13,400.00	8,418.00	15,152.36	10,175.00	108.57	109.47	-161.740	879.88	5,795.37	1,851.06	1,743.97	107.09	17.285	
13,500.00	8,418.00	15,252.36	10,175.00	110.62	111.49	-161.740	880.18	5,895.37	1,851.06	1,742.11	108.95	16.990	
13,500.00	8,418.00	15,252.36	10,175.00	110.62	111.49	-161.740	880.18	5,895.37	1,851.06	1,742.11	108.95	16.990	
13,600.00	8,418.00	15,352.36	10,175.00	112.67	113.51	-161.740	880.48	5,995.36	1,851.06	1,740.24	110.82	16.703	
13,600.00	8,418.00	15,352.36	10,175.00	112.67	113.51	-161.740	880.48	5,995.37	1,851.06	1,740.24	110.82	16.703	
13,700.00	8,418.00	15,452.36	10,175.00	114.72	115.52	-161.740	880.78	6,095.36	1,851.06	1,738.37	112.69	16.426	
13,700.00	8,418.00	15,452.36	10,175.00	114.72	115.52	-161.740	880.78	6,095.37	1,851.06	1,738.37	112.69	16.426	
13,800.00	8,418.00	15,552.36	10,175.00	116.77	117.55	-161.740	881.07	6,195.36	1,851.06	1,736.50	114.56	16.158	
13,800.00	8,418.00	15,552.36	10,175.00	116.77	117.55	-161.740	881.07	6,195.37	1,851.06	1,736.50	114.56	16.158	
13,900.00	8,418.00	15,652.36	10,175.00	118.83	119.57	-161.740	881.37	6,295.36	1,851.06	1,734.62	116.44	15.897	
13,900.00	8,418.00	15,652.36	10,175.00	118.83	119.57	-161.740	881.37	6,295.37	1,851.06	1,734.62	116.44	15.897	
14,000.00	8,418.00	15,752.36	10,175.00	120.88	121.59	-161.740	881.67	6,395.36	1,851.06	1,732.75	118.32	15.645	
14,000.00	8,418.00	15,752.36	10,175.00	120.88	121.59	-161.740	881.67	6,395.37	1,851.06	1,732.75	118.32	15.645	
14,100.00	8,418.00	15,852.36	10,175.00	122.93	123.62	-161.740	881.97	6,495.36	1,851.06	1,730.86	120.20	15.400	
14,100.00	8,418.00	15,852.36	10,175.00	122.93	123.62	-161.740	881.97	6,495.37	1,851.06	1,730.86	120.20	15.400	
14,200.00	8,418.00	15,952.36	10,175.00	124.99	125.65	-161.740	882.27	6,595.36	1,851.06	1,728.98	122.09	15.162	
14,200.00	8,418.00	15,952.36	10,175.00	124.99	125.65	-161.740	882.27	6,595.36	1,851.06	1,728.98	122.09	15.162	
14,300.00	8,418.00	16,052.36	10,175.00	127.04	127.67	-161.740	882.57	6,695.36	1,851.06	1,727.09	123.97	14.931	
14,300.00	8,418.00	16,052.36	10,175.00	127.04	127.67	-161.740	882.57	6,695.36	1,851.06	1,727.09	123.97	14.931	
14,400.00	8,418.00	16,152.36	10,175.00	129.10	129.70	-161.740	882.86	6,795.36	1,851.06	1,725.20	125.86	14.707	
14,400.00	8,418.00	16,152.36	10,175.00	129.10	129.70	-161.740	882.86	6,795.36	1,851.06	1,725.20	125.86	14.707	
14,500.00	8,418.00	16,252.36	10,175.00	131.15	131.74	-161.740	883.16	6,895.36	1,851.06	1,723.31	127.75	14.489	
14,500.00	8,418.00	16,252.36	10,175.00	131.15	131.74	-161.740	883.16	6,895.36	1,851.06	1,723.31	127.75	14.489	
14,600.00	8,418.00	16,352.36	10,175.00	133.21	133.77	-161.740	883.46	6,995.36	1,851.06	1,721.41	129.65	14.277	
14,600.00	8,418.00	16,352.36	10,175.00	133.21	133.77	-161.740	883.46	6,995.36	1,851.06	1,721.41	129.65	14.277	
14,700.00	8,418.00	16,452.36	10,175.00	135.26	135.80	-161.740	883.76	7,095.36	1,851.06	1,719.52	131.55	14.072	
14,700.00	8,418.00	16,452.36	10,175.00	135.26	135.80	-161.740	883.76	7,095.36	1,851.06	1,719.52	131.55	14.072	
14,800.00	8,418.00	16,552.36	10,175.00	137.32	137.84	-161.740	884.06	7,195.36	1,851.06	1,717.62	133.45	13.871	
14,800.00	8,418.00	16,552.36	10,175.00	137.32	137.84	-161.740	884.06	7,195.36	1,851.06	1,717.62	133.45	13.871	
14,900.00	8,418.00	16,652.36	10,175.00	139.38	139.87	-161.740	884.36	7,295.36	1,851.06	1,715.72	135.35	13.676	
14,900.00	8,418.00	16,652.36	10,175.00	139.38	139.87	-161.740	884.36	7,295.36	1,851.06	1,715.72	135.35	13.676	
15,000.00	8,418.00	16,752.36	10,175.00	141.43	141.91	-161.740	884.65	7,395.36	1,851.06	1,713.81	137.25	13.487	
15,000.00	8,418.00	16,752.36	10,175.00	141.43	141.91	-161.740	884.65	7,395.36	1,851.06	1,713.81	137.25	13.487	
15,100.00	8,418.00	16,852.36	10,175.00	143.49	143.94	-161.740	884.95	7,495.36	1,851.06	1,711.91	139.15	13.302	
15,100.00	8,418.00	16,852.36	10,175.00	143.49	143.94	-161.740	884.95	7,495.36	1,851.06	1,711.91	139.15	13.302	
15,200.00	8,418.00	16,952.36	10,175.00	145.55	145.98	-161.740	885.25	7,595.36	1,851.06	1,710.00	141.06	13.122	
15,200.00	8,418.00	16,952.36	10,175.00	145.55	145.98	-161.740	885.25	7,595.36	1,851.06	1,710.00	141.06	13.122	
15,300.00	8,418.00	17,052.36	10,175.00	147.61	148.02	-161.740	885.55	7,695.36	1,851.06	1,708.09	142.97	12.947	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - 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	
15,300.00	8,418.00	17,052.36	10,175.00	147.61	148.02	-161.740	885.55	7,695.36	1,851.06	1,708.09	142.97	12.947	
15,400.00	8,418.00	17,152.36	10,175.00	149.67	150.06	-161.740	885.85	7,795.36	1,851.06	1,706.18	144.88	12.777	
15,400.00	8,418.00	17,152.36	10,175.00	149.67	150.06	-161.740	885.85	7,795.36	1,851.06	1,706.18	144.88	12.777	
15,500.00	8,418.00	17,252.36	10,175.00	151.72	152.10	-161.740	886.14	7,895.36	1,851.06	1,704.27	146.79	12.610	
15,500.00	8,418.00	17,252.36	10,175.00	151.72	152.10	-161.740	886.14	7,895.36	1,851.06	1,704.27	146.79	12.610	
15,600.00	8,418.00	17,352.36	10,175.00	153.78	154.15	-161.740	886.44	7,995.36	1,851.06	1,702.36	148.70	12.448	
15,600.00	8,418.00	17,352.36	10,175.00	153.78	154.15	-161.740	886.44	7,995.36	1,851.06	1,702.36	148.70	12.448	
15,700.00	8,418.00	17,452.36	10,175.00	155.84	156.19	-161.740	886.74	8,095.36	1,851.06	1,700.45	150.62	12.290	
15,700.00	8,418.00	17,452.36	10,175.00	155.84	156.19	-161.740	886.74	8,095.36	1,851.06	1,700.45	150.62	12.290	
15,800.00	8,418.00	17,552.36	10,175.00	157.90	158.23	-161.740	887.04	8,195.36	1,851.06	1,698.53	152.53	12.136	
15,800.00	8,418.00	17,552.36	10,175.00	157.90	158.23	-161.740	887.04	8,195.36	1,851.06	1,698.53	152.53	12.136	
15,900.00	8,418.00	17,652.36	10,175.00	159.96	160.27	-161.740	887.34	8,295.35	1,851.06	1,696.61	154.45	11.985	
15,900.00	8,418.00	17,652.36	10,175.00	159.96	160.27	-161.740	887.34	8,295.35	1,851.06	1,696.61	154.45	11.985	
16,000.00	8,418.00	17,752.36	10,175.00	162.02	162.32	-161.740	887.64	8,395.35	1,851.06	1,694.70	156.37	11.838	
16,000.00	8,418.00	17,752.36	10,175.00	162.02	162.32	-161.740	887.64	8,395.35	1,851.06	1,694.70	156.37	11.838	
16,100.00	8,418.00	17,852.36	10,175.00	164.08	164.36	-161.740	887.93	8,495.35	1,851.06	1,692.78	158.29	11.694	
16,100.00	8,418.00	17,852.36	10,175.00	164.08	164.36	-161.740	887.93	8,495.35	1,851.06	1,692.78	158.29	11.694	
16,200.00	8,418.00	17,952.36	10,175.00	166.14	166.41	-161.740	888.23	8,595.35	1,851.06	1,690.86	160.21	11.554	
16,200.00	8,418.00	17,952.36	10,175.00	166.14	166.41	-161.740	888.23	8,595.35	1,851.06	1,690.86	160.21	11.554	
16,300.00	8,418.00	18,052.36	10,175.00	168.20	168.46	-161.740	888.53	8,695.35	1,851.06	1,688.93	162.13	11.417	
16,300.00	8,418.00	18,052.36	10,175.00	168.20	168.46	-161.740	888.53	8,695.35	1,851.06	1,688.93	162.13	11.417	
16,400.00	8,418.00	18,152.36	10,175.00	170.27	170.50	-161.740	888.83	8,795.35	1,851.06	1,687.01	164.05	11.283	
16,400.00	8,418.00	18,152.36	10,175.00	170.27	170.50	-161.740	888.83	8,795.35	1,851.06	1,687.01	164.05	11.283	
16,500.00	8,418.00	18,252.36	10,175.00	172.33	172.55	-161.740	889.13	8,895.35	1,851.06	1,685.09	165.98	11.153	
16,500.00	8,418.00	18,252.36	10,175.00	172.33	172.55	-161.740	889.13	8,895.35	1,851.06	1,685.09	165.98	11.153	
16,600.00	8,418.00	18,352.36	10,175.00	174.39	174.60	-161.740	889.43	8,995.35	1,851.06	1,683.16	167.90	11.025	
16,600.00	8,418.00	18,352.36	10,175.00	174.39	174.60	-161.740	889.43	8,995.35	1,851.06	1,683.16	167.90	11.025	
16,700.00	8,418.00	18,452.36	10,175.00	176.45	176.65	-161.740	889.72	9,095.35	1,851.06	1,681.23	169.83	10.900	
16,700.00	8,418.00	18,452.36	10,175.00	176.45	176.65	-161.740	889.72	9,095.35	1,851.06	1,681.23	169.83	10.900	
16,800.00	8,418.00	18,552.36	10,175.00	178.51	178.70	-161.740	890.02	9,195.35	1,851.06	1,679.31	171.76	10.777	
16,800.00	8,418.00	18,552.36	10,175.00	178.51	178.70	-161.740	890.02	9,195.35	1,851.06	1,679.31	171.76	10.777	
16,900.00	8,418.00	18,652.36	10,175.00	180.57	180.74	-161.740	890.32	9,295.35	1,851.06	1,677.38	173.68	10.658	
16,900.00	8,418.00	18,652.36	10,175.00	180.57	180.74	-161.740	890.32	9,295.35	1,851.06	1,677.38	173.68	10.658	
17,000.00	8,418.00	18,752.36	10,175.00	182.64	182.79	-161.740	890.62	9,395.35	1,851.06	1,675.45	175.61	10.541	
17,000.00	8,418.00	18,752.36	10,175.00	182.64	182.79	-161.740	890.62	9,395.35	1,851.06	1,675.45	175.61	10.541	
17,100.00	8,418.00	18,852.36	10,175.00	184.70	184.84	-161.740	890.92	9,495.35	1,851.06	1,673.52	177.54	10.426	
17,100.00	8,418.00	18,852.36	10,175.00	184.70	184.84	-161.740	890.92	9,495.35	1,851.06	1,673.52	177.54	10.426	
17,200.00	8,418.00	18,952.36	10,175.00	186.76	186.90	-161.740	891.21	9,595.35	1,851.06	1,671.59	179.47	10.314	
17,200.00	8,418.00	18,952.36	10,175.00	186.76	186.90	-161.740	891.21	9,595.35	1,851.06	1,671.59	179.47	10.314	
17,300.00	8,418.00	19,052.36	10,175.00	188.82	188.95	-161.740	891.51	9,695.35	1,851.06	1,669.66	181.40	10.204	
17,300.00	8,418.00	19,052.36	10,175.00	188.82	188.95	-161.740	891.51	9,695.35	1,851.06	1,669.66	181.40	10.204	
17,400.00	8,418.00	19,152.36	10,175.00	190.89	191.00	-161.740	891.81	9,795.35	1,851.06	1,667.73	183.34	10.097	
17,400.00	8,418.00	19,152.36	10,175.00	190.89	191.00	-161.740	891.81	9,795.35	1,851.06	1,667.73	183.34	10.097	
17,500.00	8,418.00	19,252.36	10,175.00	192.95	193.05	-161.740	892.11	9,895.35	1,851.06	1,665.79	185.27	9.991	
17,500.00	8,418.00	19,252.36	10,175.00	192.95	193.05	-161.740	892.11	9,895.35	1,851.06	1,665.79	185.27	9.991	
17,600.00	8,418.00	19,352.36	10,175.00	195.01	195.10	-161.740	892.41	9,995.35	1,851.06	1,663.86	187.20	9.888	
17,600.00	8,418.00	19,352.36	10,175.00	195.01	195.10	-161.740	892.41	9,995.35	1,851.06	1,663.86	187.20	9.888	
17,700.00	8,418.00	19,452.36	10,175.00	197.08	197.15	-161.740	892.71	10,095.35	1,851.06	1,661.93	189.14	9.787	
17,700.00	8,418.00	19,452.36	10,175.00	197.08	197.15	-161.740	892.71	10,095.35	1,851.06	1,661.93	189.14	9.787	
17,800.00	8,418.00	19,552.36	10,175.00	199.14	199.21	-161.740	893.00	10,195.35	1,851.06	1,659.99	191.07	9.688	
17,800.00	8,418.00	19,552.36	10,175.00	199.14	199.21	-161.740	893.00	10,195.35	1,851.06	1,659.99	191.07	9.688	
17,900.00	8,418.00	19,652.36	10,175.00	201.20	201.26	-161.740	893.30	10,295.35	1,851.06	1,658.05	193.01	9.591	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - 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	
17,900.00	8,418.00	19,652.36	10,175.00	201.20	201.26	-161.740	893.30	10,295.35	1,851.06	1,658.05	193.01	9.591	
18,000.00	8,418.00	19,752.36	10,175.00	203.27	203.31	-161.740	893.60	10,395.35	1,851.06	1,656.12	194.95	9.495	
18,000.00	8,418.00	19,752.36	10,175.00	203.27	203.31	-161.740	893.60	10,395.35	1,851.06	1,656.12	194.95	9.495	
18,100.00	8,418.00	19,852.36	10,175.00	205.33	205.37	-161.740	893.90	10,495.35	1,851.06	1,654.18	196.88	9.402	
18,100.00	8,418.00	19,852.36	10,175.00	205.33	205.37	-161.740	893.90	10,495.35	1,851.06	1,654.18	196.88	9.402	
18,200.00	8,418.00	19,952.36	10,175.00	207.40	207.42	-161.740	894.20	10,595.34	1,851.06	1,652.24	198.82	9.310	
18,200.00	8,418.00	19,952.36	10,175.00	207.40	207.42	-161.740	894.20	10,595.35	1,851.06	1,652.24	198.82	9.310	
18,300.00	8,418.00	20,052.36	10,175.00	209.46	209.48	-161.740	894.49	10,695.34	1,851.06	1,650.30	200.76	9.220	
18,300.00	8,418.00	20,052.36	10,175.00	209.46	209.48	-161.740	894.49	10,695.35	1,851.06	1,650.30	200.76	9.220	
18,400.00	8,418.00	20,152.36	10,175.00	211.52	211.53	-161.740	894.79	10,795.34	1,851.06	1,648.36	202.70	9.132	
18,400.00	8,418.00	20,152.36	10,175.00	211.52	211.53	-161.740	894.79	10,795.35	1,851.06	1,648.36	202.70	9.132	
18,500.00	8,418.00	20,252.36	10,175.00	213.59	213.59	-161.740	895.09	10,895.34	1,851.06	1,646.43	204.64	9.046	
18,500.00	8,418.00	20,252.36	10,175.00	213.59	213.59	-161.740	895.09	10,895.35	1,851.06	1,646.43	204.64	9.046	
18,600.00	8,418.00	20,352.36	10,175.00	215.65	215.64	-161.740	895.39	10,995.34	1,851.06	1,644.48	206.58	8.961	
18,600.00	8,418.00	20,352.36	10,175.00	215.65	215.64	-161.740	895.39	10,995.35	1,851.06	1,644.48	206.58	8.961	
18,700.00	8,418.00	20,452.36	10,175.00	217.72	217.70	-161.740	895.69	11,095.34	1,851.06	1,642.54	208.52	8.877	
18,700.00	8,418.00	20,452.36	10,175.00	217.72	217.70	-161.740	895.69	11,095.34	1,851.06	1,642.54	208.52	8.877	
18,800.00	8,418.00	20,552.36	10,175.00	219.78	219.75	-161.740	895.99	11,195.34	1,851.06	1,640.60	210.46	8.795	
18,800.00	8,418.00	20,552.36	10,175.00	219.78	219.75	-161.740	895.99	11,195.34	1,851.06	1,640.60	210.46	8.795	
18,900.00	8,418.00	20,652.36	10,175.00	221.85	221.81	-161.740	896.28	11,295.34	1,851.06	1,638.66	212.40	8.715	
18,900.00	8,418.00	20,652.36	10,175.00	221.85	221.81	-161.740	896.28	11,295.34	1,851.06	1,638.66	212.40	8.715	
19,000.00	8,418.00	20,752.36	10,175.00	223.91	223.87	-161.740	896.58	11,395.34	1,851.06	1,636.72	214.34	8.636	
19,000.00	8,418.00	20,752.36	10,175.00	223.91	223.87	-161.740	896.58	11,395.34	1,851.06	1,636.72	214.34	8.636	
19,100.00	8,418.00	20,852.36	10,175.00	225.98	225.92	-161.740	896.88	11,495.34	1,851.06	1,634.78	216.29	8.558	
19,100.00	8,418.00	20,852.36	10,175.00	225.98	225.92	-161.740	896.88	11,495.34	1,851.06	1,634.78	216.29	8.558	
19,200.00	8,418.00	20,952.36	10,175.00	228.04	227.98	-161.740	897.18	11,595.34	1,851.06	1,632.83	218.23	8.482	
19,200.05	8,418.00	20,952.42	10,175.00	228.04	227.98	-161.740	897.18	11,595.39	1,851.06	1,632.83	218.23	8.482	
19,296.39	8,418.00	21,046.64	10,175.00	230.03	229.92	-161.740	897.46	11,689.62	1,851.06	1,630.95	220.12	8.410	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	0.00	0.00	0.00	0.00	171.129	-19.99	3.12	20.24				
100.00	100.00	99.38	99.38	0.79	0.78	171.129	-19.99	3.12	20.23	18.67	1.57	12.916	
200.00	200.00	199.38	199.38	1.45	1.44	171.129	-19.99	3.12	20.23	17.34	2.89	7.005	
300.00	300.00	299.38	299.38	1.89	1.89	171.129	-19.99	3.12	20.23	16.45	3.78	5.352	
400.00	400.00	399.38	399.38	2.25	2.25	171.129	-19.99	3.12	20.23	15.73	4.51	4.491	
500.00	500.00	499.38	499.38	2.57	2.57	171.129	-19.99	3.12	20.23	15.10	5.13	3.941	
600.00	600.00	599.38	599.38	2.85	2.85	171.129	-19.99	3.12	20.23	14.53	5.70	3.551	
700.00	700.00	699.38	699.38	3.11	3.11	171.129	-19.99	3.12	20.23	14.02	6.21	3.255	
800.00	800.00	799.38	799.38	3.35	3.35	171.129	-19.99	3.12	20.23	13.54	6.70	3.021	
900.00	900.00	899.38	899.38	3.58	3.57	171.129	-19.99	3.12	20.23	13.08	7.15	2.830	
1,000.00	1,000.00	999.38	999.38	3.79	3.79	171.129	-19.99	3.12	20.23	12.65	7.58	2.670	
1,100.00	1,100.00	1,099.38	1,099.38	3.99	3.99	171.129	-19.99	3.12	20.23	12.24	7.99	2.533	
1,200.00	1,200.00	1,199.38	1,199.38	4.19	4.19	171.129	-19.99	3.12	20.23	11.85	8.38	2.414	
1,300.00	1,300.00	1,299.38	1,299.38	4.38	4.38	171.129	-19.99	3.12	20.23	11.47	8.76	2.310	
1,400.00	1,400.00	1,399.38	1,399.38	4.56	4.56	171.129	-19.99	3.12	20.23	11.11	9.12	2.217	
1,500.00	1,500.00	1,499.38	1,499.38	4.74	4.74	171.129	-19.99	3.12	20.23	10.75	9.48	2.135	
1,600.00	1,600.00	1,599.38	1,599.38	4.91	4.91	171.129	-19.99	3.12	20.23	10.41	9.82	2.060	
1,700.00	1,700.00	1,699.38	1,699.38	5.08	5.08	171.129	-19.99	3.12	20.23	10.07	10.16	1.992 Level 3	
1,800.00	1,800.00	1,799.38	1,799.38	5.24	5.24	171.129	-19.99	3.12	20.23	9.75	10.48	1.930 Level 3	
1,900.00	1,900.00	1,899.45	1,899.43	5.40	5.48	176.011	-19.99	1.39	20.04	9.24	10.79	1.857 Level 3	
1,939.97	1,939.97	1,939.39	1,939.35	5.46	5.54	180.000	-19.99	0.00	19.99	9.08	10.91	1.832 Level 3, CC	
2,000.00	2,000.00	1,999.39	1,999.31	5.56	5.63	-174.021	-19.99	-2.09	20.10	9.01	11.09	1.813 Level 3, ES, SF	
2,100.00	2,100.00	2,099.33	2,099.19	5.71	5.79	-164.399	-19.99	-5.58	20.76	9.37	11.38	1.823 Level 3	
2,200.00	2,200.00	2,199.27	2,199.06	5.86	5.97	-155.596	-19.99	-9.07	21.95	10.27	11.69	1.879 Level 3	
2,300.00	2,300.00	2,299.21	2,298.94	6.01	6.15	-147.864	-19.99	-12.56	23.61	11.61	12.00	1.968 Level 3	
2,400.00	2,400.00	2,399.14	2,398.82	6.16	6.35	-141.248	-19.99	-16.05	25.64	13.32	12.32	2.081	
2,500.00	2,500.00	2,499.08	2,498.70	6.30	6.55	-135.663	-19.99	-19.53	27.96	15.30	12.66	2.208	
2,600.00	2,599.97	2,598.97	2,598.54	6.54	6.77	-150.480	-21.23	-21.86	32.19	19.12	13.07	2.462	
2,700.00	2,699.79	2,698.69	2,698.19	6.78	6.94	-150.549	-24.99	-21.79	39.86	26.37	13.49	2.954	
2,800.00	2,799.29	2,798.07	2,797.34	7.03	7.01	-148.818	-31.24	-19.37	50.93	37.10	13.83	3.683	
2,900.00	2,898.51	2,897.06	2,895.83	7.19	7.07	-145.922	-39.96	-14.60	64.33	50.26	14.07	4.573	
3,000.00	2,997.72	2,995.71	2,993.58	7.38	7.14	-141.568	-51.10	-7.53	78.26	63.94	14.32	5.465	
3,100.00	3,096.93	3,093.77	3,090.26	7.59	7.25	-136.495	-64.59	1.80	93.19	78.61	14.58	6.392	
3,200.00	3,196.13	3,191.04	3,185.55	7.82	7.44	-131.172	-80.33	13.29	109.64	94.78	14.85	7.382	
3,300.00	3,295.34	3,288.37	3,280.34	8.06	7.61	-126.123	-97.96	26.58	127.80	112.70	15.10	8.465	
3,400.00	3,394.55	3,386.12	3,375.49	8.32	7.82	-122.241	-115.82	40.07	146.80	131.39	15.41	9.526	
3,500.00	3,493.76	3,483.87	3,470.65	8.59	8.05	-119.252	-133.68	53.57	166.30	150.55	15.75	10.559	
3,600.00	3,592.97	3,581.62	3,565.80	8.88	8.30	-116.893	-151.55	67.07	186.15	170.04	16.11	11.555	
3,700.00	3,692.18	3,679.37	3,660.95	9.17	8.57	-114.988	-169.41	80.56	206.24	189.75	16.49	12.508	
3,800.00	3,791.39	3,777.13	3,756.10	9.47	8.85	-113.422	-187.27	94.06	226.52	209.63	16.88	13.417	
3,900.00	3,890.60	3,874.88	3,851.26	9.79	9.14	-112.114	-205.14	107.56	246.93	229.64	17.29	14.281	
4,000.00	3,989.81	3,972.63	3,946.41	10.11	9.44	-111.005	-223.00	121.05	267.44	249.73	17.71	15.099	
4,100.00	4,089.02	4,070.38	4,041.56	10.44	9.76	-110.054	-240.87	134.55	288.04	269.90	18.15	15.874	
4,200.00	4,188.23	4,168.13	4,136.72	10.77	10.09	-109.229	-258.73	148.04	308.71	290.12	18.59	16.608	
4,300.00	4,287.44	4,265.88	4,231.87	11.11	10.42	-108.509	-276.59	161.54	329.43	310.39	19.04	17.301	
4,400.00	4,386.65	4,363.63	4,327.02	11.46	10.77	-107.873	-294.46	175.04	350.19	330.69	19.50	17.957	
4,500.00	4,485.86	4,461.39	4,422.17	11.81	11.13	-107.309	-312.32	188.53	370.99	351.02	19.97	18.577	
4,600.00	4,585.07	4,559.14	4,517.33	12.16	11.49	-106.804	-330.19	202.03	391.82	371.37	20.45	19.163	
4,700.00	4,684.28	4,656.89	4,612.48	12.52	11.87	-106.351	-348.05	215.53	412.67	391.74	20.93	19.718	
4,800.00	4,783.48	4,754.64	4,707.63	12.89	12.24	-105.941	-365.91	229.02	433.55	412.13	21.42	20.243	
4,900.00	4,882.69	4,852.39	4,802.79	13.26	12.63	-105.569	-383.78	242.52	454.45	432.54	21.91	20.740	
5,000.00	4,981.90	4,950.14	4,897.94	13.63	13.02	-105.229	-401.64	256.01	475.36	452.95	22.41	21.211	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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			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)		
5,100.00	5,081.11	5,047.89	4,993.09	14.00	13.42	104.918	-419.50	269.51	496.29	473.38	22.91	21.658	
5,200.00	5,180.32	5,145.65	5,088.24	14.38	13.82	104.632	-437.37	283.01	517.23	493.81	23.42	22.083	
5,300.00	5,279.53	5,243.40	5,183.40	14.75	14.22	104.369	-455.23	296.50	538.19	514.25	23.93	22.486	
5,400.00	5,378.74	5,341.15	5,278.55	15.14	14.63	104.125	-473.10	310.00	559.15	534.70	24.45	22.869	
5,500.00	5,477.95	5,438.90	5,373.70	15.52	15.04	103.899	-490.96	323.50	580.12	555.15	24.97	23.234	
5,600.00	5,577.16	5,536.65	5,468.86	15.91	15.46	103.688	-508.82	336.99	601.10	575.61	25.49	23.581	
5,700.00	5,676.37	5,634.40	5,564.01	16.29	15.88	103.492	-526.69	350.49	622.09	596.07	26.02	23.911	
5,800.00	5,775.58	5,732.15	5,659.16	16.68	16.30	103.308	-544.55	363.98	643.08	616.54	26.54	24.227	
5,900.00	5,874.79	5,829.91	5,754.31	17.07	16.73	103.137	-562.42	377.48	664.08	637.01	27.07	24.528	
6,000.00	5,974.00	5,927.66	5,849.47	17.47	17.16	102.975	-580.28	390.98	685.09	657.48	27.61	24.815	
6,100.00	6,073.21	6,025.41	5,944.62	17.86	17.59	102.824	-598.14	404.47	706.10	677.95	28.14	25.090	
6,200.00	6,172.42	6,123.16	6,039.77	18.25	18.02	102.681	-616.01	417.97	727.11	698.43	28.68	25.352	
6,300.00	6,271.63	6,220.91	6,134.93	18.65	18.45	102.546	-633.87	431.47	748.13	718.91	29.22	25.604	
6,400.00	6,370.83	6,318.66	6,230.08	19.05	18.89	102.418	-651.73	444.96	769.15	739.39	29.76	25.845	
6,500.00	6,470.04	6,416.41	6,325.23	19.45	19.33	102.297	-669.60	458.46	790.18	759.88	30.30	26.076	
6,600.00	6,569.25	6,514.16	6,420.38	19.85	19.77	102.183	-687.46	471.95	811.21	780.36	30.85	26.297	
6,700.00	6,668.46	6,611.92	6,515.54	20.25	20.21	102.074	-705.33	485.45	832.24	800.85	31.39	26.509	
6,800.00	6,767.67	6,709.67	6,610.69	20.65	20.66	101.971	-723.19	498.95	853.27	821.33	31.94	26.713	
6,900.00	6,866.88	6,807.42	6,705.84	21.05	21.10	101.872	-741.05	512.44	874.31	841.82	32.49	26.909	
7,000.00	6,966.09	6,905.17	6,801.00	21.46	21.55	101.779	-758.92	525.94	895.35	862.31	33.04	27.098	
7,100.00	7,065.30	7,002.92	6,896.15	21.86	22.00	101.689	-776.78	539.44	916.39	882.80	33.59	27.279	
7,200.00	7,164.51	7,100.67	6,991.30	22.26	22.44	101.604	-794.64	552.93	937.44	903.29	34.15	27.454	
7,300.00	7,263.72	7,198.42	7,086.45	22.67	22.89	101.522	-812.51	566.43	958.48	923.78	34.70	27.622	
7,400.00	7,362.93	7,296.18	7,181.61	23.08	23.35	101.444	-830.37	579.92	979.53	944.27	35.26	27.783	
7,500.00	7,462.14	7,429.23	7,311.71	23.48	23.97	101.438	-852.54	596.67	998.98	963.03	35.95	27.785	
7,600.00	7,561.37	7,566.92	7,447.56	23.87	24.59	101.739	-870.39	610.16	1,014.63	978.05	36.58	27.740	
7,700.00	7,660.93	7,706.09	7,585.80	24.28	25.17	102.169	-883.12	619.78	1,025.80	988.66	37.14	27.618	
7,800.00	7,760.78	7,846.28	7,725.67	24.65	25.67	102.411	-890.52	625.36	1,032.25	994.66	37.59	27.460	
7,900.00	7,860.77	7,977.13	7,856.49	24.82	25.96	99.792	-892.52	626.98	1,034.04	996.23	37.81	27.348	
8,000.00	7,959.98	8,050.00	7,929.05	25.28	26.13	99.560	-893.56	632.97	1,037.51	999.44	38.07	27.255	
8,100.00	8,055.71	8,128.66	8,005.82	25.82	26.40	99.003	-896.43	649.55	1,046.18	1,007.76	38.42	27.232	
8,200.00	8,145.03	8,200.00	8,072.88	26.38	26.67	98.075	-900.57	673.42	1,059.84	1,020.97	38.87	27.268	
8,300.00	8,225.24	8,280.23	8,144.02	26.91	26.98	96.906	-906.88	709.82	1,078.10	1,038.65	39.45	27.326	
8,400.00	8,293.90	8,356.27	8,206.07	27.39	27.28	95.429	-914.36	753.04	1,100.52	1,060.33	40.19	27.382	
8,500.00	8,348.91	8,432.80	8,262.11	27.78	27.58	93.722	-923.25	804.32	1,126.53	1,085.40	41.13	27.390	
8,600.00	8,388.62	8,510.24	8,311.23	28.07	27.88	91.841	-933.46	863.22	1,155.49	1,113.21	42.29	27.326	
8,700.00	8,411.81	8,589.15	8,352.55	28.25	28.18	89.855	-944.92	929.39	1,186.71	1,143.04	43.67	27.176	
8,800.00	8,418.00	8,670.44	8,385.05	28.31	28.49	88.392	-957.63	1,002.73	1,219.40	1,174.15	45.25	26.946	
8,900.00	8,418.00	8,758.61	8,408.02	28.34	28.85	89.550	-972.15	1,086.52	1,250.99	1,203.84	47.15	26.531	
9,000.00	8,418.00	8,853.23	8,417.86	28.37	29.27	90.023	-988.20	1,179.14	1,279.66	1,230.28	49.38	25.915	
9,100.00	8,418.00	9,020.34	8,418.00	28.42	30.30	90.028	-1,012.60	1,344.44	1,302.74	1,249.82	52.91	24.620	
9,200.00	8,418.00	9,202.87	8,418.00	28.53	32.00	90.027	-1,028.22	1,526.26	1,316.26	1,259.25	57.01	23.088	
9,300.00	8,418.00	9,377.73	8,418.00	28.82	34.10	90.027	-1,032.33	1,701.05	1,320.00	1,258.80	61.19	21.571	
9,300.00	8,418.00	9,377.74	8,418.00	28.82	34.10	90.027	-1,032.33	1,701.05	1,320.00	1,258.80	61.19	21.571	
9,400.00	8,418.00	9,477.73	8,418.00	29.64	35.46	90.027	-1,032.03	1,801.05	1,320.00	1,255.62	64.38	20.504	
9,400.00	8,418.00	9,477.74	8,418.00	29.64	35.46	90.027	-1,032.03	1,801.05	1,320.00	1,255.62	64.38	20.504	
9,500.00	8,418.00	9,577.73	8,418.00	31.07	36.91	90.027	-1,031.74	1,901.05	1,320.00	1,252.33	67.66	19.508	
9,500.00	8,418.00	9,577.74	8,418.00	31.07	36.91	90.027	-1,031.74	1,901.05	1,320.00	1,252.33	67.66	19.508	
9,600.00	8,418.00	9,677.73	8,418.00	32.77	38.43	90.027	-1,031.44	2,001.05	1,320.00	1,248.96	71.03	18.583	
9,600.00	8,418.00	9,677.74	8,418.00	32.77	38.43	90.027	-1,031.44	2,001.05	1,320.00	1,248.96	71.03	18.583	
9,700.00	8,418.00	9,777.73	8,418.00	34.55	40.01	90.027	-1,031.14	2,101.05	1,320.00	1,245.52	74.48	17.723	
9,700.00	8,418.00	9,777.74	8,418.00	34.55	40.01	90.027	-1,031.14	2,101.05	1,320.00	1,245.52	74.48	17.723	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	
9,800.00	8,418.00	9,877.73	8,418.00	36.39	41.64	90.027	-1,030.84	2,201.05	1,320.00	1,242.00	77.99	16.925	
9,800.00	8,418.00	9,877.74	8,418.00	36.39	41.64	90.027	-1,030.84	2,201.05	1,320.00	1,242.00	77.99	16.925	
9,900.00	8,418.00	9,977.73	8,418.00	38.27	43.31	90.027	-1,030.54	2,301.05	1,320.00	1,238.43	81.56	16.184	
9,900.00	8,418.00	9,977.74	8,418.00	38.27	43.31	90.027	-1,030.54	2,301.05	1,320.00	1,238.43	81.56	16.184	
10,000.00	8,418.00	10,077.73	8,418.00	40.16	45.03	90.027	-1,030.24	2,401.05	1,320.00	1,234.81	85.18	15.496	
10,000.00	8,418.00	10,077.74	8,418.00	40.16	45.03	90.027	-1,030.24	2,401.05	1,320.00	1,234.81	85.18	15.496	
10,100.00	8,418.00	10,177.73	8,418.00	42.08	46.77	90.027	-1,029.95	2,501.05	1,320.00	1,231.15	88.85	14.857	
10,100.00	8,418.00	10,177.74	8,418.00	42.08	46.77	90.027	-1,029.95	2,501.05	1,320.00	1,231.15	88.85	14.857	
10,200.00	8,418.00	10,277.73	8,418.00	44.01	48.54	90.027	-1,029.65	2,601.05	1,320.00	1,227.45	92.55	14.262	
10,200.00	8,418.00	10,277.74	8,418.00	44.01	48.54	90.027	-1,029.65	2,601.05	1,320.00	1,227.45	92.55	14.262	
10,300.00	8,418.00	10,377.73	8,418.00	45.96	50.34	90.027	-1,029.35	2,701.05	1,320.00	1,223.71	96.29	13.709	
10,300.00	8,418.00	10,377.74	8,418.00	45.96	50.34	90.027	-1,029.35	2,701.05	1,320.00	1,223.71	96.29	13.709	
10,400.00	8,418.00	10,477.73	8,418.00	47.91	52.16	90.027	-1,029.05	2,801.04	1,320.00	1,219.94	100.06	13.192	
10,400.00	8,418.00	10,477.74	8,418.00	47.91	52.16	90.027	-1,029.05	2,801.05	1,320.00	1,219.94	100.06	13.192	
10,500.00	8,418.00	10,577.73	8,418.00	49.88	54.00	90.027	-1,028.75	2,901.04	1,320.00	1,216.14	103.86	12.710	
10,500.00	8,418.00	10,577.74	8,418.00	49.88	54.00	90.027	-1,028.75	2,901.05	1,320.00	1,216.14	103.86	12.710	
10,600.00	8,418.00	10,677.73	8,418.00	51.85	55.85	90.027	-1,028.46	3,001.04	1,320.00	1,212.32	107.68	12.259	
10,600.00	8,418.00	10,677.74	8,418.00	51.85	55.85	90.027	-1,028.46	3,001.05	1,320.00	1,212.32	107.68	12.259	
10,700.00	8,418.00	10,777.73	8,418.00	53.83	57.72	90.027	-1,028.16	3,101.04	1,320.00	1,208.48	111.52	11.836	
10,700.00	8,418.00	10,777.74	8,418.00	53.83	57.72	90.027	-1,028.16	3,101.05	1,320.00	1,208.48	111.52	11.836	
10,800.00	8,418.00	10,877.73	8,418.00	55.82	59.60	90.027	-1,027.86	3,201.04	1,320.00	1,204.61	115.39	11.440	
10,800.00	8,418.00	10,877.74	8,418.00	55.82	59.60	90.027	-1,027.86	3,201.05	1,320.00	1,204.61	115.39	11.440	
10,900.00	8,418.00	10,977.73	8,418.00	57.81	61.50	90.027	-1,027.56	3,301.04	1,320.00	1,200.73	119.27	11.068	
10,900.00	8,418.00	10,977.74	8,418.00	57.81	61.50	90.027	-1,027.56	3,301.05	1,320.00	1,200.73	119.27	11.067	
11,000.00	8,418.00	11,077.73	8,418.00	59.81	63.40	90.027	-1,027.26	3,401.04	1,320.00	1,196.83	123.17	10.717	
11,000.00	8,418.00	11,077.74	8,418.00	59.81	63.40	90.027	-1,027.26	3,401.05	1,320.00	1,196.83	123.17	10.717	
11,100.00	8,418.00	11,177.73	8,418.00	61.81	65.32	90.027	-1,026.96	3,501.04	1,320.00	1,192.92	127.08	10.387	
11,100.00	8,418.00	11,177.74	8,418.00	61.81	65.32	90.027	-1,026.96	3,501.05	1,320.00	1,192.92	127.08	10.387	
11,200.00	8,418.00	11,277.73	8,418.00	63.82	67.24	90.027	-1,026.67	3,601.04	1,320.00	1,188.99	131.01	10.076	
11,200.00	8,418.00	11,277.74	8,418.00	63.82	67.24	90.027	-1,026.67	3,601.05	1,320.00	1,188.99	131.01	10.076	
11,300.00	8,418.00	11,377.73	8,418.00	65.83	69.18	90.027	-1,026.37	3,701.04	1,320.00	1,185.05	134.95	9.782	
11,300.00	8,418.00	11,377.74	8,418.00	65.83	69.18	90.027	-1,026.37	3,701.05	1,320.00	1,185.05	134.95	9.781	
11,400.00	8,418.00	11,477.73	8,418.00	67.85	71.12	90.027	-1,026.07	3,801.04	1,320.00	1,181.10	138.90	9.503	
11,400.00	8,418.00	11,477.74	8,418.00	67.85	71.12	90.027	-1,026.07	3,801.05	1,320.00	1,181.10	138.90	9.503	
11,500.00	8,418.00	11,577.73	8,418.00	69.86	73.07	90.027	-1,025.77	3,901.04	1,320.00	1,177.14	142.86	9.240	
11,500.00	8,418.00	11,577.74	8,418.00	69.86	73.07	90.027	-1,025.77	3,901.05	1,320.00	1,177.14	142.86	9.240	
11,600.00	8,418.00	11,677.73	8,418.00	71.88	75.02	90.027	-1,025.47	4,001.04	1,320.00	1,173.16	146.83	8.990	
11,600.00	8,418.00	11,677.74	8,418.00	71.88	75.02	90.027	-1,025.47	4,001.05	1,320.00	1,173.16	146.83	8.990	
11,700.00	8,418.00	11,777.73	8,418.00	73.91	76.98	90.027	-1,025.18	4,101.04	1,320.00	1,169.18	150.81	8.752	
11,700.00	8,418.00	11,777.74	8,418.00	73.91	76.98	90.027	-1,025.18	4,101.05	1,320.00	1,169.18	150.81	8.752	
11,800.00	8,418.00	11,877.73	8,418.00	75.93	78.95	90.027	-1,024.88	4,201.04	1,320.00	1,165.19	154.80	8.527	
11,800.00	8,418.00	11,877.74	8,418.00	75.93	78.95	90.027	-1,024.88	4,201.05	1,320.00	1,165.19	154.80	8.527	
11,900.00	8,418.00	11,977.73	8,418.00	77.96	80.92	90.027	-1,024.58	4,301.04	1,320.00	1,161.20	158.80	8.312	
11,900.00	8,418.00	11,977.74	8,418.00	77.96	80.92	90.027	-1,024.58	4,301.05	1,320.00	1,161.20	158.80	8.312	
12,000.00	8,418.00	12,077.73	8,418.00	79.99	82.89	90.027	-1,024.28	4,401.04	1,320.00	1,157.19	162.80	8.108	
12,000.00	8,418.00	12,077.74	8,418.00	79.99	82.89	90.027	-1,024.28	4,401.05	1,320.00	1,157.19	162.80	8.108	
12,100.00	8,418.00	12,177.73	8,418.00	82.02	84.87	90.027	-1,023.98	4,501.04	1,320.00	1,153.18	166.81	7.913	
12,100.00	8,418.00	12,177.74	8,418.00	82.02	84.87	90.027	-1,023.98	4,501.05	1,320.00	1,153.18	166.81	7.913	
12,200.00	8,418.00	12,277.73	8,418.00	84.06	86.86	90.027	-1,023.68	4,601.04	1,320.00	1,149.17	170.83	7.727	
12,200.00	8,418.00	12,277.74	8,418.00	84.06	86.86	90.027	-1,023.68	4,601.05	1,320.00	1,149.17	170.83	7.727	
12,300.00	8,418.00	12,377.73	8,418.00	86.09	88.84	90.027	-1,023.39	4,701.04	1,320.00	1,145.15	174.85	7.549	
12,300.00	8,418.00	12,377.74	8,418.00	86.10	88.84	90.027	-1,023.39	4,701.05	1,320.00	1,145.15	174.85	7.549	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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)			
12,400.00	8,418.00	12,477.73	8,418.00	88.13	90.84	90.027	-1,023.09	4,801.04	1,320.00	1,141.12	178.88	7.379	
12,400.00	8,418.00	12,477.74	8,418.00	88.13	90.84	90.027	-1,023.09	4,801.04	1,320.00	1,141.12	178.88	7.379	
12,500.00	8,418.00	12,577.73	8,418.00	90.17	92.83	90.027	-1,022.79	4,901.04	1,320.00	1,137.09	182.91	7.217	
12,500.00	8,418.00	12,577.74	8,418.00	90.17	92.83	90.027	-1,022.79	4,901.04	1,320.00	1,137.09	182.91	7.217	
12,600.00	8,418.00	12,677.73	8,418.00	92.21	94.83	90.027	-1,022.49	5,001.03	1,320.00	1,133.05	186.95	7.061	
12,600.00	8,418.00	12,677.74	8,418.00	92.21	94.83	90.027	-1,022.49	5,001.04	1,320.00	1,133.05	186.95	7.061	
12,700.00	8,418.00	12,777.73	8,418.00	94.25	96.83	90.027	-1,022.19	5,101.03	1,320.00	1,129.01	190.99	6.911	
12,700.00	8,418.00	12,777.74	8,418.00	94.25	96.83	90.027	-1,022.19	5,101.04	1,320.00	1,129.01	190.99	6.911	
12,800.00	8,418.00	12,877.73	8,418.00	96.30	98.83	90.027	-1,021.90	5,201.03	1,320.00	1,124.96	195.04	6.768	
12,800.00	8,418.00	12,877.74	8,418.00	96.30	98.83	90.027	-1,021.90	5,201.04	1,320.00	1,124.96	195.04	6.768	
12,900.00	8,418.00	12,977.73	8,418.00	98.34	100.84	90.027	-1,021.60	5,301.03	1,320.00	1,120.91	199.08	6.630	
12,900.00	8,418.00	12,977.74	8,418.00	98.34	100.84	90.027	-1,021.60	5,301.04	1,320.00	1,120.91	199.09	6.630	
13,000.00	8,418.00	13,077.73	8,418.00	100.38	102.85	90.027	-1,021.30	5,401.03	1,320.00	1,116.86	203.14	6.498	
13,000.00	8,418.00	13,077.74	8,418.00	100.38	102.85	90.027	-1,021.30	5,401.04	1,320.00	1,116.86	203.14	6.498	
13,100.00	8,418.00	13,177.73	8,418.00	102.43	104.86	90.027	-1,021.00	5,501.03	1,320.00	1,112.80	207.19	6.371	
13,100.00	8,418.00	13,177.74	8,418.00	102.43	104.86	90.027	-1,021.00	5,501.04	1,320.00	1,112.80	207.19	6.371	
13,200.00	8,418.00	13,277.73	8,418.00	104.48	106.87	90.027	-1,020.70	5,601.03	1,320.00	1,108.74	211.25	6.248	
13,200.00	8,418.00	13,277.74	8,418.00	104.48	106.87	90.027	-1,020.70	5,601.04	1,320.00	1,108.74	211.25	6.248	
13,300.00	8,418.00	13,377.73	8,418.00	106.52	108.89	90.027	-1,020.40	5,701.03	1,320.00	1,104.68	215.32	6.131	
13,300.00	8,418.00	13,377.74	8,418.00	106.52	108.89	90.027	-1,020.40	5,701.04	1,320.00	1,104.68	215.32	6.131	
13,400.00	8,418.00	13,477.73	8,418.00	108.57	110.91	90.027	-1,020.11	5,801.03	1,320.00	1,100.62	219.38	6.017	
13,400.00	8,418.00	13,477.74	8,418.00	108.57	110.91	90.027	-1,020.11	5,801.04	1,320.00	1,100.62	219.38	6.017	
13,500.00	8,418.00	13,577.73	8,418.00	110.62	112.93	90.027	-1,019.81	5,901.03	1,320.00	1,096.55	223.45	5.907	
13,500.00	8,418.00	13,577.74	8,418.00	110.62	112.93	90.027	-1,019.81	5,901.04	1,320.00	1,096.55	223.45	5.907	
13,600.00	8,418.00	13,677.73	8,418.00	112.67	114.95	90.027	-1,019.51	6,001.03	1,320.00	1,092.48	227.52	5.802	
13,600.00	8,418.00	13,677.74	8,418.00	112.67	114.95	90.027	-1,019.51	6,001.03	1,320.00	1,092.48	227.52	5.802	
13,700.00	8,418.00	13,777.73	8,418.00	114.72	116.97	90.027	-1,019.21	6,101.03	1,320.00	1,088.41	231.59	5.700	
13,700.00	8,418.00	13,777.74	8,418.00	114.72	116.97	90.027	-1,019.21	6,101.04	1,320.00	1,088.40	231.59	5.700	
13,800.00	8,418.00	13,877.73	8,418.00	116.77	118.99	90.027	-1,018.91	6,201.03	1,320.00	1,084.33	235.67	5.601	
13,800.00	8,418.00	13,877.74	8,418.00	116.77	118.99	90.027	-1,018.91	6,201.04	1,320.00	1,084.33	235.67	5.601	
13,900.00	8,418.00	13,977.73	8,418.00	118.83	121.02	90.027	-1,018.62	6,301.03	1,320.00	1,080.25	239.75	5.506	
13,900.00	8,418.00	13,977.74	8,418.00	118.83	121.02	90.027	-1,018.62	6,301.04	1,320.00	1,080.25	239.75	5.506	
14,000.00	8,418.00	14,077.73	8,418.00	120.88	123.05	90.027	-1,018.32	6,401.03	1,320.00	1,076.17	243.83	5.414	
14,000.00	8,418.00	14,077.74	8,418.00	120.88	123.05	90.027	-1,018.32	6,401.04	1,320.00	1,076.17	243.83	5.414	
14,100.00	8,418.00	14,177.73	8,418.00	122.93	125.07	90.027	-1,018.02	6,501.03	1,320.00	1,072.09	247.91	5.325	
14,100.00	8,418.00	14,177.74	8,418.00	122.93	125.07	90.027	-1,018.02	6,501.04	1,320.00	1,072.09	247.91	5.325	
14,200.00	8,418.00	14,277.73	8,418.00	124.99	127.10	90.027	-1,017.72	6,601.03	1,320.00	1,068.01	251.99	5.238	
14,200.00	8,418.00	14,277.74	8,418.00	124.99	127.10	90.027	-1,017.72	6,601.04	1,320.00	1,068.01	251.99	5.238	
14,300.00	8,418.00	14,377.73	8,418.00	127.04	129.14	90.027	-1,017.42	6,701.03	1,320.00	1,063.92	256.08	5.155	
14,300.00	8,418.00	14,377.74	8,418.00	127.04	129.14	90.027	-1,017.42	6,701.04	1,320.00	1,063.92	256.08	5.155	
14,400.00	8,418.00	14,477.73	8,418.00	129.10	131.17	90.027	-1,017.12	6,801.03	1,320.00	1,059.84	260.16	5.074	
14,400.00	8,418.00	14,477.74	8,418.00	129.10	131.17	90.027	-1,017.12	6,801.04	1,320.00	1,059.83	260.16	5.074	
14,500.00	8,418.00	14,577.73	8,418.00	131.15	133.20	90.027	-1,016.83	6,901.03	1,320.00	1,055.75	264.25	4.995	
14,500.00	8,418.00	14,577.74	8,418.00	131.15	133.20	90.027	-1,016.83	6,901.04	1,320.00	1,055.75	264.25	4.995	
14,600.00	8,418.00	14,677.73	8,418.00	133.21	135.24	90.027	-1,016.53	7,001.03	1,320.00	1,051.66	268.34	4.919	
14,600.00	8,418.00	14,677.74	8,418.00	133.21	135.24	90.027	-1,016.53	7,001.04	1,320.00	1,051.66	268.34	4.919	
14,700.00	8,418.00	14,777.73	8,418.00	135.26	137.27	90.027	-1,016.23	7,101.03	1,320.00	1,047.56	272.43	4.845	
14,700.00	8,418.00	14,777.74	8,418.00	135.26	137.27	90.027	-1,016.23	7,101.04	1,320.00	1,047.56	272.43	4.845	
14,800.00	8,418.00	14,877.73	8,418.00	137.32	139.31	90.027	-1,015.93	7,201.03	1,320.00	1,043.47	276.53	4.773	
14,800.00	8,418.00	14,877.74	8,418.00	137.32	139.31	90.027	-1,015.93	7,201.04	1,320.00	1,043.47	276.53	4.773	
14,900.00	8,418.00	14,977.73	8,418.00	139.38	141.34	90.027	-1,015.63	7,301.02	1,320.00	1,039.38	280.62	4.704	
14,900.00	8,418.00	14,977.74	8,418.00	139.38	141.34	90.027	-1,015.63	7,301.03	1,320.00	1,039.38	280.62	4.704	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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	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)		
15,000.00	8,418.00	15,077.73	8,418.00	141.43	143.38	90.027	-1,015.34	7,401.02	1,320.00	1,035.28	284.72	4.636	
15,000.00	8,418.00	15,077.74	8,418.00	141.43	143.38	90.027	-1,015.34	7,401.03	1,320.00	1,035.28	284.72	4.636	
15,100.00	8,418.00	15,177.73	8,418.00	143.49	145.42	90.027	-1,015.04	7,501.02	1,320.00	1,031.18	288.81	4.570	
15,100.00	8,418.00	15,177.74	8,418.00	143.49	145.42	90.027	-1,015.04	7,501.03	1,320.00	1,031.18	288.82	4.570	
15,200.00	8,418.00	15,277.73	8,418.00	145.55	147.46	90.027	-1,014.74	7,601.02	1,320.00	1,027.09	292.91	4.506	
15,200.00	8,418.00	15,277.74	8,418.00	145.55	147.46	90.027	-1,014.74	7,601.03	1,320.00	1,027.09	292.91	4.506	
15,300.00	8,418.00	15,377.73	8,418.00	147.61	149.50	90.027	-1,014.44	7,701.02	1,320.00	1,022.99	297.01	4.444	
15,300.00	8,418.00	15,377.74	8,418.00	147.61	149.50	90.027	-1,014.44	7,701.03	1,320.00	1,022.99	297.01	4.444	
15,400.00	8,418.00	15,477.73	8,418.00	149.67	151.54	90.027	-1,014.14	7,801.02	1,320.00	1,018.89	301.11	4.384	
15,400.00	8,418.00	15,477.74	8,418.00	149.67	151.54	90.027	-1,014.14	7,801.03	1,320.00	1,018.89	301.11	4.384	
15,500.00	8,418.00	15,577.73	8,418.00	151.72	153.59	90.027	-1,013.84	7,901.02	1,320.00	1,014.78	305.21	4.325	
15,500.00	8,418.00	15,577.74	8,418.00	151.72	153.59	90.027	-1,013.84	7,901.03	1,320.00	1,014.78	305.21	4.325	
15,600.00	8,418.00	15,677.73	8,418.00	153.78	155.63	90.027	-1,013.55	8,001.02	1,320.00	1,010.68	309.32	4.267	
15,600.00	8,418.00	15,677.74	8,418.00	153.78	155.63	90.027	-1,013.55	8,001.03	1,320.00	1,010.68	309.32	4.267	
15,700.00	8,418.00	15,777.73	8,418.00	155.84	157.67	90.027	-1,013.25	8,101.02	1,320.00	1,006.58	313.42	4.212	
15,700.00	8,418.00	15,777.74	8,418.00	155.84	157.67	90.027	-1,013.25	8,101.03	1,320.00	1,006.58	313.42	4.212	
15,800.00	8,418.00	15,877.73	8,418.00	157.90	159.72	90.027	-1,012.95	8,201.02	1,320.00	1,002.47	317.52	4.157	
15,800.00	8,418.00	15,877.74	8,418.00	157.90	159.72	90.027	-1,012.95	8,201.03	1,320.00	1,002.47	317.53	4.157	
15,900.00	8,418.00	15,977.73	8,418.00	159.96	161.76	90.027	-1,012.65	8,301.02	1,320.00	998.37	321.63	4.104	
15,900.00	8,418.00	15,977.74	8,418.00	159.96	161.76	90.027	-1,012.65	8,301.02	1,320.00	998.37	321.63	4.104	
16,000.00	8,418.00	16,077.73	8,418.00	162.02	163.81	90.027	-1,012.35	8,401.02	1,320.00	994.26	325.74	4.052	
16,000.00	8,418.00	16,077.74	8,418.00	162.02	163.81	90.027	-1,012.35	8,401.02	1,320.00	994.26	325.74	4.052	
16,100.00	8,418.00	16,177.73	8,418.00	164.08	165.85	90.027	-1,012.06	8,501.02	1,320.00	990.16	329.84	4.002	
16,100.00	8,418.00	16,177.74	8,418.00	164.08	165.85	90.027	-1,012.06	8,501.02	1,320.00	990.16	329.84	4.002	
16,200.00	8,418.00	16,277.73	8,418.00	166.14	167.90	90.027	-1,011.76	8,601.02	1,320.00	986.05	333.95	3.953	
16,200.00	8,418.00	16,277.74	8,418.00	166.14	167.90	90.027	-1,011.76	8,601.02	1,320.00	986.05	333.95	3.953	
16,300.00	8,418.00	16,377.73	8,418.00	168.20	169.95	90.027	-1,011.46	8,701.02	1,320.00	981.94	338.06	3.905	
16,300.00	8,418.00	16,377.74	8,418.00	168.21	169.95	90.027	-1,011.46	8,701.02	1,320.00	981.94	338.06	3.905	
16,400.00	8,418.00	16,477.73	8,418.00	170.27	172.00	90.027	-1,011.16	8,801.02	1,320.00	977.83	342.17	3.858	
16,400.00	8,418.00	16,477.74	8,418.00	170.27	172.00	90.027	-1,011.16	8,801.02	1,320.00	977.83	342.17	3.858	
16,500.00	8,418.00	16,577.73	8,418.00	172.33	174.04	90.027	-1,010.86	8,901.02	1,320.00	973.72	346.28	3.812	
16,500.00	8,418.00	16,577.74	8,418.00	172.33	174.04	90.027	-1,010.86	8,901.02	1,320.00	973.72	346.28	3.812	
16,600.00	8,418.00	16,677.73	8,418.00	174.39	176.09	90.027	-1,010.56	9,001.02	1,320.00	969.61	350.39	3.767	
16,600.00	8,418.00	16,677.74	8,418.00	174.39	176.09	90.027	-1,010.56	9,001.02	1,320.00	969.61	350.39	3.767	
16,700.00	8,418.00	16,777.73	8,418.00	176.45	178.14	90.027	-1,010.27	9,101.02	1,320.00	965.50	354.50	3.724	
16,700.00	8,418.00	16,777.74	8,418.00	176.45	178.14	90.027	-1,010.27	9,101.02	1,320.00	965.50	354.50	3.724	
16,800.00	8,418.00	16,877.73	8,418.00	178.51	180.19	90.027	-1,009.97	9,201.02	1,320.00	961.39	358.61	3.681	
16,800.00	8,418.00	16,877.74	8,418.00	178.51	180.19	90.027	-1,009.97	9,201.02	1,320.00	961.39	358.61	3.681	
16,900.00	8,418.00	16,977.73	8,418.00	180.57	182.24	90.027	-1,009.67	9,301.02	1,320.00	957.27	362.73	3.639	
16,900.00	8,418.00	16,977.74	8,418.00	180.57	182.24	90.027	-1,009.67	9,301.02	1,320.00	957.27	362.73	3.639	
17,000.00	8,418.00	17,077.73	8,418.00	182.64	184.29	90.027	-1,009.37	9,401.02	1,320.00	953.16	366.84	3.598	
17,000.00	8,418.00	17,077.74	8,418.00	182.64	184.29	90.027	-1,009.37	9,401.02	1,320.00	953.16	366.84	3.598	
17,100.00	8,418.00	17,177.73	8,418.00	184.70	186.34	90.027	-1,009.07	9,501.02	1,320.00	949.05	370.95	3.558	
17,100.00	8,418.00	17,177.74	8,418.00	184.70	186.34	90.027	-1,009.07	9,501.02	1,320.00	949.05	370.95	3.558	
17,200.00	8,418.00	17,277.73	8,418.00	186.76	188.40	90.027	-1,008.78	9,601.01	1,320.00	944.93	375.07	3.519	
17,200.00	8,418.00	17,277.74	8,418.00	186.76	188.40	90.027	-1,008.78	9,601.02	1,320.00	944.93	375.07	3.519	
17,300.00	8,418.00	17,377.73	8,418.00	188.82	190.45	90.027	-1,008.48	9,701.01	1,320.00	940.82	379.18	3.481	
17,300.00	8,418.00	17,377.74	8,418.00	188.82	190.45	90.027	-1,008.48	9,701.02	1,320.00	940.82	379.18	3.481	
17,400.00	8,418.00	17,477.73	8,418.00	190.89	192.50	90.027	-1,008.18	9,801.01	1,320.00	936.70	383.30	3.444	
17,400.00	8,418.00	17,477.74	8,418.00	190.89	192.50	90.027	-1,008.18	9,801.02	1,320.00	936.70	383.30	3.444	
17,500.00	8,418.00	17,577.73	8,418.00	192.95	194.55	90.027	-1,007.88	9,901.01	1,320.00	932.59	387.41	3.407	
17,500.00	8,418.00	17,577.74	8,418.00	192.95	194.55	90.027	-1,007.88	9,901.02	1,320.00	932.58	387.41	3.407	

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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	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		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	
17,600.00	8,418.00	17,677.73	8,418.00	195.01	196.61	90.027	-1,007.58	10,001.01	1,320.00	928.47	391.53	3.371	
17,600.00	8,418.00	17,677.74	8,418.00	195.01	196.61	90.027	-1,007.58	10,001.02	1,320.00	928.47	391.53	3.371	
17,700.00	8,418.00	17,777.73	8,418.00	197.08	198.66	90.027	-1,007.28	10,101.01	1,320.00	924.35	395.65	3.336	
17,700.00	8,418.00	17,777.74	8,418.00	197.08	198.66	90.027	-1,007.28	10,101.02	1,320.00	924.35	395.65	3.336	
17,800.00	8,418.00	17,877.73	8,418.00	199.14	200.71	90.027	-1,006.99	10,201.01	1,320.00	920.23	399.77	3.302	
17,800.00	8,418.00	17,877.74	8,418.00	199.14	200.71	90.027	-1,006.99	10,201.02	1,320.00	920.23	399.77	3.302	
17,900.00	8,418.00	17,977.73	8,418.00	201.20	202.77	90.027	-1,006.69	10,301.01	1,320.00	916.12	403.88	3.268	
17,900.00	8,418.00	17,977.74	8,418.00	201.20	202.77	90.027	-1,006.69	10,301.02	1,320.00	916.12	403.88	3.268	
18,000.00	8,418.00	18,077.73	8,418.00	203.27	204.82	90.027	-1,006.39	10,401.01	1,320.00	912.00	408.00	3.235	
18,000.00	8,418.00	18,077.74	8,418.00	203.27	204.82	90.027	-1,006.39	10,401.02	1,320.00	912.00	408.00	3.235	
18,100.00	8,418.00	18,177.73	8,418.00	205.33	206.87	90.027	-1,006.09	10,501.01	1,320.00	907.88	412.12	3.203	
18,100.00	8,418.00	18,177.74	8,418.00	205.33	206.87	90.027	-1,006.09	10,501.02	1,320.00	907.88	412.12	3.203	
18,200.00	8,418.00	18,277.73	8,418.00	207.40	208.93	90.027	-1,005.79	10,601.01	1,320.00	903.76	416.24	3.171	
18,200.00	8,418.00	18,277.74	8,418.00	207.40	208.93	90.027	-1,005.79	10,601.02	1,320.00	903.76	416.24	3.171	
18,300.00	8,418.00	18,377.73	8,418.00	209.46	210.98	90.027	-1,005.50	10,701.01	1,320.00	899.64	420.36	3.140	
18,300.00	8,418.00	18,377.74	8,418.00	209.46	210.98	90.027	-1,005.50	10,701.02	1,320.00	899.64	420.36	3.140	
18,400.00	8,418.00	18,477.73	8,418.00	211.52	213.04	90.027	-1,005.20	10,801.01	1,320.00	895.52	424.48	3.110	
18,400.00	8,418.00	18,477.74	8,418.00	211.52	213.04	90.027	-1,005.20	10,801.02	1,320.00	895.52	424.48	3.110	
18,500.00	8,418.00	18,577.73	8,418.00	213.59	215.10	90.027	-1,004.90	10,901.01	1,320.00	891.40	428.60	3.080	
18,500.00	8,418.00	18,577.74	8,418.00	213.59	215.10	90.027	-1,004.90	10,901.02	1,320.00	891.40	428.60	3.080	
18,600.00	8,418.00	18,677.73	8,418.00	215.65	217.15	90.027	-1,004.60	11,001.01	1,320.00	887.28	432.72	3.050	
18,600.00	8,418.00	18,677.74	8,418.00	215.65	217.15	90.027	-1,004.60	11,001.02	1,320.00	887.28	432.72	3.050	
18,700.00	8,418.00	18,777.73	8,418.00	217.72	219.21	90.027	-1,004.30	11,101.01	1,320.00	883.16	436.84	3.022	
18,700.00	8,418.00	18,777.74	8,418.00	217.72	219.21	90.027	-1,004.30	11,101.02	1,320.00	883.16	436.84	3.022	
18,800.00	8,418.00	18,877.73	8,418.00	219.78	221.26	90.027	-1,004.00	11,201.01	1,320.00	879.04	440.96	2.993	
18,800.00	8,418.00	18,877.74	8,418.00	219.78	221.26	90.027	-1,004.00	11,201.02	1,320.00	879.04	440.96	2.993	
18,900.00	8,418.00	18,977.73	8,418.00	221.85	223.32	90.027	-1,003.71	11,301.01	1,320.00	874.92	445.09	2.966	
18,900.00	8,418.00	18,977.74	8,418.00	221.85	223.32	90.027	-1,003.71	11,301.02	1,320.00	874.92	445.09	2.966	
19,000.00	8,418.00	19,077.73	8,418.00	223.91	225.38	90.027	-1,003.41	11,401.01	1,320.00	870.79	449.21	2.939	
19,000.00	8,418.00	19,077.74	8,418.00	223.91	225.38	90.027	-1,003.41	11,401.02	1,320.00	870.79	449.21	2.939	
19,100.00	8,418.00	19,177.73	8,418.00	225.98	227.44	90.027	-1,003.11	11,501.01	1,320.00	866.67	453.33	2.912	
19,100.00	8,418.00	19,177.74	8,418.00	225.98	227.44	90.027	-1,003.11	11,501.02	1,320.00	866.67	453.33	2.912	
19,200.00	8,418.00	19,277.73	8,418.00	228.04	229.49	90.027	-1,002.81	11,601.01	1,320.00	862.55	457.45	2.886	
19,200.01	8,418.00	19,277.75	8,418.00	228.04	229.49	90.027	-1,002.81	11,601.02	1,320.00	862.55	457.45	2.886	
19,296.39	8,418.00	19,374.12	8,418.00	230.03	231.48	90.027	-1,002.52	11,697.40	1,320.00	858.57	461.43	2.861	

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



Dixon Directional Anticollision Report

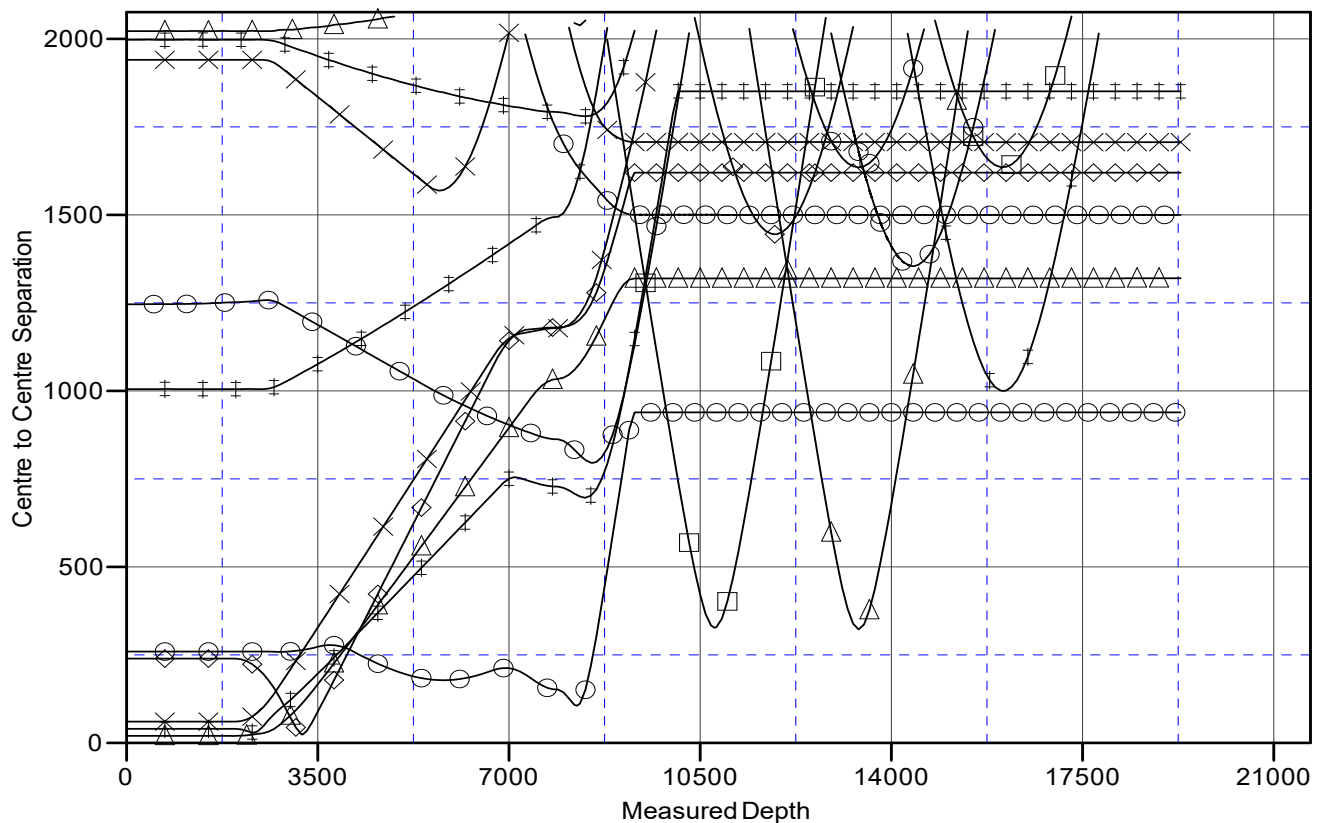


Company:	PBEX	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3715.04usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.33333334

Coordinates are relative to: (04) Bond 33-34 FED COM #104H
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	(W21) VANDIVER FEDERAL 001, 26352, (Inc Only) V0	(W25) PATTERSON 33 FEDERAL 001, 33411, (Depth Only) V0
(02) Bond 32-34 FED COM 211H, 211H, Plan 2 V0	(W12) HULKSTER 005, 39572, (Inc Only) V0	(W03) LEAR STATE 002H, 38886, (GyroMMD) V0
(01) Bond 32-34 FED COM 205H, 205H, Plan 2 V0	(W04) FIRST FULL OF DOLLARS FEDERAL 001, 33644, (Inc Only) V0	(W06) GULF FEDERAL COM 001, 25637, (Inc Only) V0
(03) Bond 32-34 FED COM #103H, #103H, Plan 1 V0	(W07) GULF MCKAY FEDERAL 001, 25471, (Inc Only) V0	(01) Bond 33-34 FED COM #306H, #306H, Plan 1 V0
(W14) KEEL A FEDERAL 003, 33340, (Inc Only) V0	(W02) LEAR STATE 001H, 38886, (GyroMMD) V0	(03) Bond 33-34 FED COM #106H, #106H, Plan 1 V0
(W17) MAX STATE 001, 26754, (Inc Only) V0	(W18) MCKAY WEST FEDERAL 001, 24931, (Inc Only) V0	(02) Bond 33-34 FED COM #304H, #304H, Plan 1 V0
(W16) LEAR STATE SWD 003, 26703, (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 (04) Bond 33-34 FED COM #104H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3715.04usft
Reference Site:	Bond South Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3715.04usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#104H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3715.04usft

Offset Depths are relative to Offset Datum

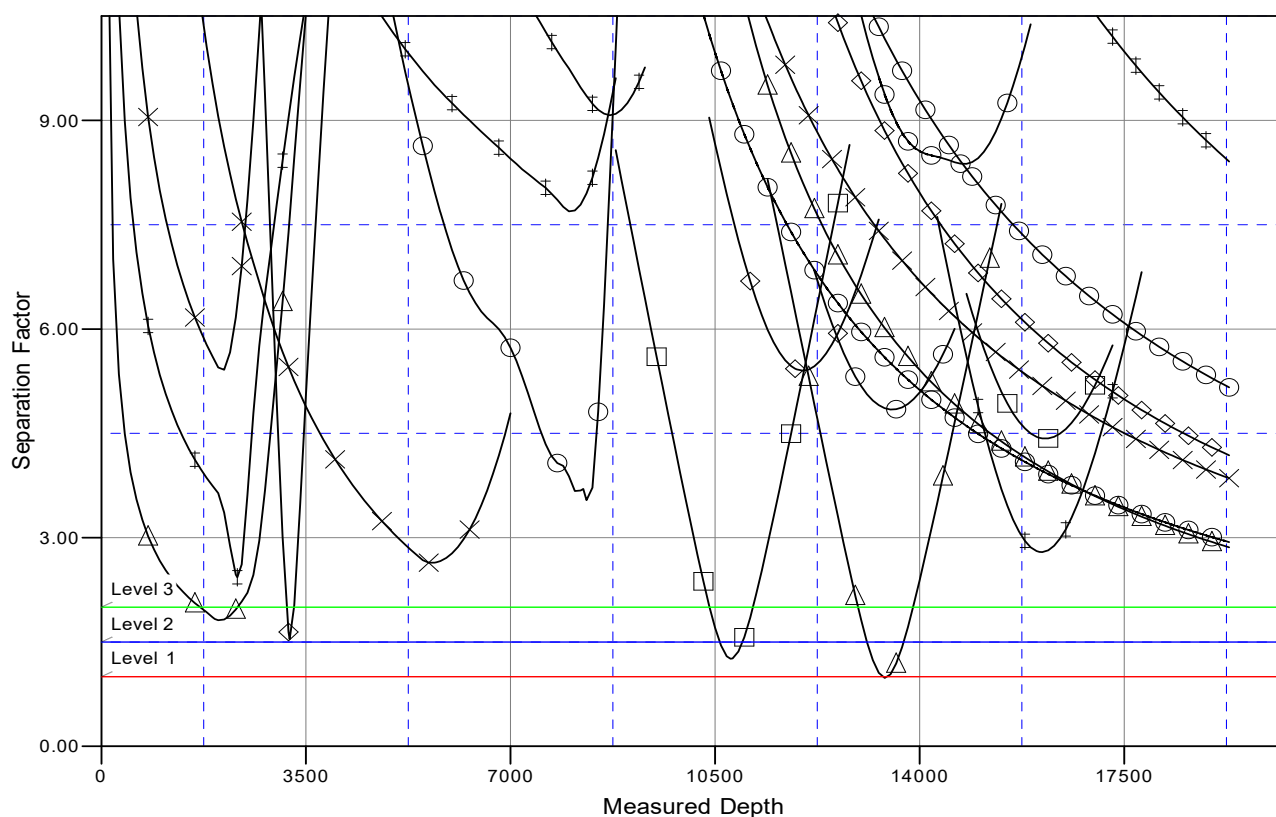
Central Meridian is -104.33333334

Coordinates are relative to: (04) Bond 33-34 FED COM #104H

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
 (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 SWD 003, 26703, (Inc Only) V0

(W21) VANDOVER FEDERAL 001, 26352, (Inc Only) V0
 (W12) HULKSTER 005, 39572, (Inc Only) V0
 (W04) FIRST FULL OF DOLLARS FEDERAL 001, 33644, (Inc Only) V0
 (W07) GULF MCKAY FEDERAL 001, 25471, (Inc Only) V0
 (W02) LEAR STATE 001H, 38886, (GyroMMD) 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
 (W03) LEAR STATE 002H, 38886, (GyroMMD) V0
 (W06) GULF FEDERAL 001, 25637, (Inc Only) V0
 (01) Bond 33-34 FED COM #306H, #306H, Plan 1 V0
 (03) Bond 33-34 FED COM #106H, #106H, Plan 1 V0
 (02) Bond 33-34 FED COM #304H, #304H, 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

(04) Bond 33-34 FED COM #104H

TBD

#104H

Plan: Plan 1

Standard Planning Report

03 December, 2025

DIXON



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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
From:	Map	Easting:	710,408.11 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.70035071
		Longitude:	-103.78370798

Well	(04) Bond 33-34 FED COM #104H		
Well Position	+N/-S	0.00 usft	Northing: 619,016.98 usft
	+E/-W	0.00 usft	Easting: 710,399.76 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.297 °	Ground Level:	3,684.54 usft

Wellbore	#104H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025	12/2/2025	6.348	60.140	47,225.60539154

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	19,296.39 Plan 1 (#104H)	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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,816.74	7.21	77.15	2,815.91	4.43	19.40	2.28	2.28	0.00	77.150	
7,567.53	7.21	77.15	7,529.14	137.02	600.69	0.00	0.00	0.00	0.000	
7,884.27	0.00	79.83	7,845.04	141.45	620.10	2.28	-2.28	0.00	180.000	
8,784.27	90.00	79.83	8,418.00	242.61	1,184.05	10.00	10.00	0.00	0.000	
9,284.23	90.00	89.83	8,418.00	287.61	1,681.34	2.00	0.00	0.00	90.000	
19,296.39	90.00	89.83	8,418.00	317.47	11,693.46	0.00	0.00	0.00	0.000	PBHL - (04) Bond 33-



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.28									
2,600.00	2.28	77.15	2,599.97	0.44	1.94	1.94	2.28	2.28	0.00
2,700.00	4.55	77.15	2,699.79	1.77	7.74	7.75	2.28	2.28	0.00
2,800.00	6.83	77.15	2,799.29	3.97	17.41	17.42	2.28	2.28	0.00
2,816.74	7.21	77.15	2,815.91	4.43	19.40	19.42	2.28	2.28	0.00
Start 4750.79 hold at 2816.74 MD									
2,900.00	7.21	77.15	2,898.51	6.75	29.59	29.61	0.00	0.00	0.00
3,000.00	7.21	77.15	2,997.72	9.54	41.83	41.85	0.00	0.00	0.00
3,100.00	7.21	77.15	3,096.93	12.33	54.06	54.10	0.00	0.00	0.00
3,200.00	7.21	77.15	3,196.13	15.12	66.30	66.34	0.00	0.00	0.00
3,300.00	7.21	77.15	3,295.34	17.91	78.53	78.59	0.00	0.00	0.00
3,400.00	7.21	77.15	3,394.55	20.70	90.77	90.83	0.00	0.00	0.00
3,500.00	7.21	77.15	3,493.76	23.50	103.00	103.07	0.00	0.00	0.00
3,600.00	7.21	77.15	3,592.97	26.29	115.24	115.32	0.00	0.00	0.00
3,700.00	7.21	77.15	3,692.18	29.08	127.48	127.56	0.00	0.00	0.00
3,800.00	7.21	77.15	3,791.39	31.87	139.71	139.81	0.00	0.00	0.00
3,900.00	7.21	77.15	3,890.60	34.66	151.95	152.05	0.00	0.00	0.00
4,000.00	7.21	77.15	3,989.81	37.45	164.18	164.29	0.00	0.00	0.00
4,100.00	7.21	77.15	4,089.02	40.24	176.42	176.54	0.00	0.00	0.00
4,200.00	7.21	77.15	4,188.23	43.03	188.65	188.78	0.00	0.00	0.00
4,300.00	7.21	77.15	4,287.44	45.82	200.89	201.03	0.00	0.00	0.00
4,400.00	7.21	77.15	4,386.65	48.62	213.13	213.27	0.00	0.00	0.00
4,500.00	7.21	77.15	4,485.86	51.41	225.36	225.51	0.00	0.00	0.00
4,600.00	7.21	77.15	4,585.07	54.20	237.60	237.76	0.00	0.00	0.00
4,700.00	7.21	77.15	4,684.28	56.99	249.83	250.00	0.00	0.00	0.00
4,800.00	7.21	77.15	4,783.48	59.78	262.07	262.24	0.00	0.00	0.00
4,900.00	7.21	77.15	4,882.69	62.57	274.30	274.49	0.00	0.00	0.00



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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	7.21	77.15	4,981.90	65.36	286.54	286.73	0.00	0.00	0.00
5,100.00	7.21	77.15	5,081.11	68.15	298.78	298.98	0.00	0.00	0.00
5,200.00	7.21	77.15	5,180.32	70.94	311.01	311.22	0.00	0.00	0.00
5,300.00	7.21	77.15	5,279.53	73.73	323.25	323.46	0.00	0.00	0.00
5,400.00	7.21	77.15	5,378.74	76.53	335.48	335.71	0.00	0.00	0.00
5,500.00	7.21	77.15	5,477.95	79.32	347.72	347.95	0.00	0.00	0.00
5,600.00	7.21	77.15	5,577.16	82.11	359.95	360.20	0.00	0.00	0.00
5,700.00	7.21	77.15	5,676.37	84.90	372.19	372.44	0.00	0.00	0.00
5,800.00	7.21	77.15	5,775.58	87.69	384.43	384.68	0.00	0.00	0.00
5,900.00	7.21	77.15	5,874.79	90.48	396.66	396.93	0.00	0.00	0.00
6,000.00	7.21	77.15	5,974.00	93.27	408.90	409.17	0.00	0.00	0.00
6,100.00	7.21	77.15	6,073.21	96.06	421.13	421.42	0.00	0.00	0.00
6,200.00	7.21	77.15	6,172.42	98.85	433.37	433.66	0.00	0.00	0.00
6,300.00	7.21	77.15	6,271.63	101.64	445.60	445.90	0.00	0.00	0.00
6,400.00	7.21	77.15	6,370.83	104.44	457.84	458.15	0.00	0.00	0.00
6,500.00	7.21	77.15	6,470.04	107.23	470.07	470.39	0.00	0.00	0.00
6,600.00	7.21	77.15	6,569.25	110.02	482.31	482.63	0.00	0.00	0.00
6,700.00	7.21	77.15	6,668.46	112.81	494.55	494.88	0.00	0.00	0.00
6,800.00	7.21	77.15	6,767.67	115.60	506.78	507.12	0.00	0.00	0.00
6,900.00	7.21	77.15	6,866.88	118.39	519.02	519.37	0.00	0.00	0.00
7,000.00	7.21	77.15	6,966.09	121.18	531.25	531.61	0.00	0.00	0.00
7,100.00	7.21	77.15	7,065.30	123.97	543.49	543.85	0.00	0.00	0.00
7,200.00	7.21	77.15	7,164.51	126.76	555.72	556.10	0.00	0.00	0.00
7,300.00	7.21	77.15	7,263.72	129.55	567.96	568.34	0.00	0.00	0.00
7,400.00	7.21	77.15	7,362.93	132.35	580.20	580.59	0.00	0.00	0.00
7,500.00	7.21	77.15	7,462.14	135.14	592.43	592.83	0.00	0.00	0.00
7,567.53	7.21	77.15	7,529.14	137.02	600.69	601.10	0.00	0.00	0.00
Start Drop -2.28									
7,600.00	6.47	77.15	7,561.37	137.88	604.46	604.87	2.28	-2.28	0.00
7,700.00	4.19	77.15	7,660.93	139.95	613.52	613.94	2.28	-2.28	0.00
7,800.00	1.92	77.15	7,760.78	141.13	618.72	619.14	2.28	-2.28	0.00
7,884.27	0.00	0.00	7,845.04	141.45	620.10	620.51	2.28	-2.28	0.00
Start Build 10.00									
7,900.00	1.57	79.83	7,860.77	141.49	620.31	620.73	10.00	10.00	0.00
7,950.00	6.57	79.83	7,910.62	142.11	623.80	624.22	10.00	10.00	0.00
8,000.00	11.57	79.83	7,959.98	143.50	631.56	631.99	10.00	10.00	0.00
8,050.00	16.57	79.83	8,008.47	145.65	643.53	643.95	10.00	10.00	0.00
8,100.00	21.57	79.83	8,055.71	148.53	659.60	660.04	10.00	10.00	0.00
8,150.00	26.57	79.83	8,101.34	152.13	679.67	680.12	10.00	10.00	0.00
8,200.00	31.57	79.83	8,145.03	156.42	703.58	704.04	10.00	10.00	0.00
8,250.00	36.57	79.83	8,186.43	161.37	731.14	731.61	10.00	10.00	0.00
8,300.00	41.57	79.83	8,225.24	166.93	762.15	762.64	10.00	10.00	0.00
8,350.00	46.57	79.83	8,261.15	173.07	796.37	796.88	10.00	10.00	0.00
8,400.00	51.57	79.83	8,293.90	179.74	833.54	834.07	10.00	10.00	0.00
8,450.00	56.57	79.83	8,323.22	186.88	873.38	873.93	10.00	10.00	0.00
8,500.00	61.57	79.83	8,348.91	194.45	915.59	916.16	10.00	10.00	0.00
8,550.00	66.57	79.83	8,370.77	202.39	959.83	960.43	10.00	10.00	0.00
8,600.00	71.57	79.83	8,388.62	210.64	1,005.79	1,006.41	10.00	10.00	0.00
8,650.00	76.57	79.83	8,402.34	219.12	1,053.10	1,053.74	10.00	10.00	0.00
8,700.00	81.57	79.83	8,411.81	227.79	1,101.40	1,102.07	10.00	10.00	0.00
8,750.00	86.57	79.83	8,416.98	236.57	1,150.34	1,151.04	10.00	10.00	0.00
8,784.27	90.00	79.83	8,418.00	242.61	1,184.05	1,184.77	10.00	10.00	0.00
Start Turn 0.00									



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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)	
8,800.00	90.00	80.14	8,418.00	245.35	1,199.54	1,200.26	2.00	0.00	2.00	
8,900.00	90.00	82.14	8,418.00	260.74	1,298.34	1,299.11	2.00	0.00	2.00	
9,000.00	90.00	84.14	8,418.00	272.68	1,397.62	1,398.43	2.00	0.00	2.00	
9,100.00	90.00	86.14	8,418.00	281.14	1,497.26	1,498.09	2.00	0.00	2.00	
9,200.00	90.00	88.14	8,418.00	286.12	1,597.13	1,597.97	2.00	0.00	2.00	
9,284.23	90.00	89.83	8,418.00	287.61	1,681.34	1,682.19	2.00	0.00	2.00	
Start 10012.16 hold at 9284.23 MD										
9,300.00	90.00	89.83	8,418.00	287.66	1,697.11	1,697.96	0.00	0.00	0.00	
9,400.00	90.00	89.83	8,418.00	287.96	1,797.11	1,797.96	0.00	0.00	0.00	
9,500.00	90.00	89.83	8,418.00	288.26	1,897.11	1,897.96	0.00	0.00	0.00	
9,600.00	90.00	89.83	8,418.00	288.55	1,997.11	1,997.96	0.00	0.00	0.00	
9,700.00	90.00	89.83	8,418.00	288.85	2,097.11	2,097.96	0.00	0.00	0.00	
9,800.00	90.00	89.83	8,418.00	289.15	2,197.11	2,197.96	0.00	0.00	0.00	
9,900.00	90.00	89.83	8,418.00	289.45	2,297.11	2,297.96	0.00	0.00	0.00	
10,000.00	90.00	89.83	8,418.00	289.75	2,397.11	2,397.96	0.00	0.00	0.00	
10,100.00	90.00	89.83	8,418.00	290.05	2,497.11	2,497.96	0.00	0.00	0.00	
10,200.00	90.00	89.83	8,418.00	290.34	2,597.11	2,597.96	0.00	0.00	0.00	
10,300.00	90.00	89.83	8,418.00	290.64	2,697.11	2,697.96	0.00	0.00	0.00	
10,400.00	90.00	89.83	8,418.00	290.94	2,797.11	2,797.96	0.00	0.00	0.00	
10,500.00	90.00	89.83	8,418.00	291.24	2,897.11	2,897.96	0.00	0.00	0.00	
10,600.00	90.00	89.83	8,418.00	291.54	2,997.11	2,997.96	0.00	0.00	0.00	
10,700.00	90.00	89.83	8,418.00	291.83	3,097.11	3,097.96	0.00	0.00	0.00	
10,800.00	90.00	89.83	8,418.00	292.13	3,197.11	3,197.96	0.00	0.00	0.00	
10,900.00	90.00	89.83	8,418.00	292.43	3,297.11	3,297.96	0.00	0.00	0.00	
11,000.00	90.00	89.83	8,418.00	292.73	3,397.11	3,397.96	0.00	0.00	0.00	
11,100.00	90.00	89.83	8,418.00	293.03	3,497.11	3,497.96	0.00	0.00	0.00	
11,200.00	90.00	89.83	8,418.00	293.33	3,597.11	3,597.96	0.00	0.00	0.00	
11,300.00	90.00	89.83	8,418.00	293.62	3,697.10	3,697.96	0.00	0.00	0.00	
11,400.00	90.00	89.83	8,418.00	293.92	3,797.10	3,797.96	0.00	0.00	0.00	
11,500.00	90.00	89.83	8,418.00	294.22	3,897.10	3,897.96	0.00	0.00	0.00	
11,600.00	90.00	89.83	8,418.00	294.52	3,997.10	3,997.96	0.00	0.00	0.00	
11,700.00	90.00	89.83	8,418.00	294.82	4,097.10	4,097.96	0.00	0.00	0.00	
11,800.00	90.00	89.83	8,418.00	295.12	4,197.10	4,197.96	0.00	0.00	0.00	
11,900.00	90.00	89.83	8,418.00	295.41	4,297.10	4,297.96	0.00	0.00	0.00	
12,000.00	90.00	89.83	8,418.00	295.71	4,397.10	4,397.96	0.00	0.00	0.00	
12,100.00	90.00	89.83	8,418.00	296.01	4,497.10	4,497.96	0.00	0.00	0.00	
12,200.00	90.00	89.83	8,418.00	296.31	4,597.10	4,597.96	0.00	0.00	0.00	
12,300.00	90.00	89.83	8,418.00	296.61	4,697.10	4,697.96	0.00	0.00	0.00	
12,400.00	90.00	89.83	8,418.00	296.90	4,797.10	4,797.96	0.00	0.00	0.00	
12,500.00	90.00	89.83	8,418.00	297.20	4,897.10	4,897.96	0.00	0.00	0.00	
12,600.00	90.00	89.83	8,418.00	297.50	4,997.10	4,997.96	0.00	0.00	0.00	
12,700.00	90.00	89.83	8,418.00	297.80	5,097.10	5,097.96	0.00	0.00	0.00	
12,800.00	90.00	89.83	8,418.00	298.10	5,197.10	5,197.96	0.00	0.00	0.00	
12,900.00	90.00	89.83	8,418.00	298.40	5,297.10	5,297.96	0.00	0.00	0.00	
13,000.00	90.00	89.83	8,418.00	298.69	5,397.10	5,397.96	0.00	0.00	0.00	
13,100.00	90.00	89.83	8,418.00	298.99	5,497.10	5,497.96	0.00	0.00	0.00	
13,200.00	90.00	89.83	8,418.00	299.29	5,597.10	5,597.96	0.00	0.00	0.00	
13,300.00	90.00	89.83	8,418.00	299.59	5,697.10	5,697.96	0.00	0.00	0.00	
13,400.00	90.00	89.83	8,418.00	299.89	5,797.10	5,797.96	0.00	0.00	0.00	
13,500.00	90.00	89.83	8,418.00	300.18	5,897.10	5,897.96	0.00	0.00	0.00	
13,600.00	90.00	89.83	8,418.00	300.48	5,997.09	5,997.96	0.00	0.00	0.00	
13,700.00	90.00	89.83	8,418.00	300.78	6,097.09	6,097.96	0.00	0.00	0.00	
13,800.00	90.00	89.83	8,418.00	301.08	6,197.09	6,197.96	0.00	0.00	0.00	
13,900.00	90.00	89.83	8,418.00	301.38	6,297.09	6,297.96	0.00	0.00	0.00	



Dixon Directional Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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	8,418.00	301.68	6,397.09	6,397.96	0.00	0.00	0.00
14,100.00	90.00	89.83	8,418.00	301.97	6,497.09	6,497.96	0.00	0.00	0.00
14,200.00	90.00	89.83	8,418.00	302.27	6,597.09	6,597.96	0.00	0.00	0.00
14,300.00	90.00	89.83	8,418.00	302.57	6,697.09	6,697.96	0.00	0.00	0.00
14,400.00	90.00	89.83	8,418.00	302.87	6,797.09	6,797.96	0.00	0.00	0.00
14,500.00	90.00	89.83	8,418.00	303.17	6,897.09	6,897.96	0.00	0.00	0.00
14,600.00	90.00	89.83	8,418.00	303.46	6,997.09	6,997.96	0.00	0.00	0.00
14,700.00	90.00	89.83	8,418.00	303.76	7,097.09	7,097.96	0.00	0.00	0.00
14,800.00	90.00	89.83	8,418.00	304.06	7,197.09	7,197.96	0.00	0.00	0.00
14,900.00	90.00	89.83	8,418.00	304.36	7,297.09	7,297.96	0.00	0.00	0.00
15,000.00	90.00	89.83	8,418.00	304.66	7,397.09	7,397.96	0.00	0.00	0.00
15,100.00	90.00	89.83	8,418.00	304.96	7,497.09	7,497.96	0.00	0.00	0.00
15,200.00	90.00	89.83	8,418.00	305.25	7,597.09	7,597.96	0.00	0.00	0.00
15,300.00	90.00	89.83	8,418.00	305.55	7,697.09	7,697.96	0.00	0.00	0.00
15,400.00	90.00	89.83	8,418.00	305.85	7,797.09	7,797.96	0.00	0.00	0.00
15,500.00	90.00	89.83	8,418.00	306.15	7,897.09	7,897.96	0.00	0.00	0.00
15,600.00	90.00	89.83	8,418.00	306.45	7,997.09	7,997.96	0.00	0.00	0.00
15,700.00	90.00	89.83	8,418.00	306.75	8,097.09	8,097.96	0.00	0.00	0.00
15,800.00	90.00	89.83	8,418.00	307.04	8,197.08	8,197.96	0.00	0.00	0.00
15,900.00	90.00	89.83	8,418.00	307.34	8,297.08	8,297.96	0.00	0.00	0.00
16,000.00	90.00	89.83	8,418.00	307.64	8,397.08	8,397.96	0.00	0.00	0.00
16,100.00	90.00	89.83	8,418.00	307.94	8,497.08	8,497.96	0.00	0.00	0.00
16,200.00	90.00	89.83	8,418.00	308.24	8,597.08	8,597.96	0.00	0.00	0.00
16,300.00	90.00	89.83	8,418.00	308.53	8,697.08	8,697.96	0.00	0.00	0.00
16,400.00	90.00	89.83	8,418.00	308.83	8,797.08	8,797.96	0.00	0.00	0.00
16,500.00	90.00	89.83	8,418.00	309.13	8,897.08	8,897.96	0.00	0.00	0.00
16,600.00	90.00	89.83	8,418.00	309.43	8,997.08	8,997.96	0.00	0.00	0.00
16,700.00	90.00	89.83	8,418.00	309.73	9,097.08	9,097.96	0.00	0.00	0.00
16,800.00	90.00	89.83	8,418.00	310.03	9,197.08	9,197.96	0.00	0.00	0.00
16,900.00	90.00	89.83	8,418.00	310.32	9,297.08	9,297.96	0.00	0.00	0.00
17,000.00	90.00	89.83	8,418.00	310.62	9,397.08	9,397.96	0.00	0.00	0.00
17,100.00	90.00	89.83	8,418.00	310.92	9,497.08	9,497.96	0.00	0.00	0.00
17,200.00	90.00	89.83	8,418.00	311.22	9,597.08	9,597.96	0.00	0.00	0.00
17,300.00	90.00	89.83	8,418.00	311.52	9,697.08	9,697.96	0.00	0.00	0.00
17,400.00	90.00	89.83	8,418.00	311.81	9,797.08	9,797.96	0.00	0.00	0.00
17,500.00	90.00	89.83	8,418.00	312.11	9,897.08	9,897.96	0.00	0.00	0.00
17,600.00	90.00	89.83	8,418.00	312.41	9,997.08	9,997.96	0.00	0.00	0.00
17,700.00	90.00	89.83	8,418.00	312.71	10,097.08	10,097.96	0.00	0.00	0.00
17,800.00	90.00	89.83	8,418.00	313.01	10,197.08	10,197.96	0.00	0.00	0.00
17,900.00	90.00	89.83	8,418.00	313.31	10,297.08	10,297.96	0.00	0.00	0.00
18,000.00	90.00	89.83	8,418.00	313.60	10,397.08	10,397.96	0.00	0.00	0.00
18,100.00	90.00	89.83	8,418.00	313.90	10,497.07	10,497.96	0.00	0.00	0.00
18,200.00	90.00	89.83	8,418.00	314.20	10,597.07	10,597.96	0.00	0.00	0.00
18,300.00	90.00	89.83	8,418.00	314.50	10,697.07	10,697.96	0.00	0.00	0.00
18,400.00	90.00	89.83	8,418.00	314.80	10,797.07	10,797.96	0.00	0.00	0.00
18,500.00	90.00	89.83	8,418.00	315.10	10,897.07	10,897.96	0.00	0.00	0.00
18,600.00	90.00	89.83	8,418.00	315.39	10,997.07	10,997.96	0.00	0.00	0.00
18,700.00	90.00	89.83	8,418.00	315.69	11,097.07	11,097.96	0.00	0.00	0.00
18,800.00	90.00	89.83	8,418.00	315.99	11,197.07	11,197.96	0.00	0.00	0.00
18,900.00	90.00	89.83	8,418.00	316.29	11,297.07	11,297.96	0.00	0.00	0.00
19,000.00	90.00	89.83	8,418.00	316.59	11,397.07	11,397.96	0.00	0.00	0.00
19,100.00	90.00	89.83	8,418.00	316.88	11,497.07	11,497.96	0.00	0.00	0.00
19,200.00	90.00	89.83	8,418.00	317.18	11,597.07	11,597.96	0.00	0.00	0.00
19,296.39	90.00	89.83	8,418.00	317.47	11,693.46	11,694.35	0.00	0.00	0.00



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (04) Bond 33-34 FED COM #104H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3715.04usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3715.04usft
Site:	Bond South Pad - Phase 2	North Reference:	Grid
Well:	(04) Bond 33-34 FED COM #104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#104H		
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)
TD at 19296.39									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP/PP - (04) Bond 33-34 - hit/miss target - Shape - Point	0.00	0.00	8,418.00	286.42	1,281.35	619,303.40	711,681.11	32.70128461	-103.77956392
- plan misses target center by 27.79usft at 8887.16usft MD (8418.00 TVD, 258.96 N, 1285.63 E)									
PBHL - (04) Bond 33-34 - plan hits target center - Point	0.00	0.00	8,418.00	317.47	11,693.46	619,334.45	722,093.22	32.70121595	-103.74571616
LTP - (04) Bond 33-34 F - plan misses target center by 46.39usft at 19200.00usft MD (8418.00 TVD, 317.18 N, 11597.07 E) - Point	0.00	0.00	8,418.00	317.29	11,643.46	619,334.27	722,043.22	32.70121621	-103.74587870

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,500.00	2,500.00	0.00	0.00	Start Build 2.28	
2,816.74	2,815.91	4.43	19.40	Start 4750.79 hold at 2816.74 MD	
7,567.53	7,529.14	137.02	600.69	Start Drop -2.28	
7,884.27	7,845.04	141.45	620.10	Start Build 10.00	
8,784.27	8,418.00	242.61	1,184.05	Start Turn 0.00	
9,284.23	8,418.00	287.61	1,681.34	Start 10012.16 hold at 9284.23 MD	
19,296.39	8,418.00	317.47	11,693.46	TD at 19296.39	

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 544826

ACKNOWLEDGMENTS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 544826
	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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CONDITIONS

Action 544826

CONDITIONS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID:
	332544
	Action Number: 544826
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