

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. 103H *See attached NOI
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-55810
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface _____ At proposed prod. zone _____ *See attached NOI		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth *See attached NOI		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: SENW / 1726 FNL / 2365 FWL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.70654 / LONG: -103.789381 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 1254 FNL / 2540 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.707833 / LONG: -103.788146 (TVD: 8450 feet, MD: 8795 feet)
PPP: NWNW / 1254 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7078224 / LONG: -103.7798887 (TVD: 8450 feet, MD: 11334 feet)
PPP: NWNW / 1254 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7077855 / LONG: -103.7627381 (TVD: 8450 feet, MD: 16610 feet)
PPP: NWNE / 1254 FNL / 2636 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7078042 / LONG: -103.7713186 (TVD: 8450 feet, MD: 13971 feet)
BHL: NENE / 1254 FNL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.707746 / LONG: -103.745594 (TVD: 8450 feet, MD: 21883 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: 04/03/2025

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: 10400103829

Submission Date: 03/17/2025

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

Well Type: OIL WELL

Well Work Type: Drill

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

Section 1 - General

APD ID: 10400103829

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: NMNM18232

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 32-34 FED COM

Well Number: 102H

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 32-34 FED COM**Well Number:** 102H**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 NORTH**Number:** 1**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:** 1726 FT**Reservoir well spacing assigned acres Measurement:** 800 Acres**Well plat:** 24_041778_BOND_FED_COM_102H_C102_20250403072254.pdf

24_041778_BOND_FED_COM_102H_C102_Add_Pool_20250403072258.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	1726	FNL	2365	FWL	18S	32E	32	Aliquot SENW	32.70654	-103.789381	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	3694			Y
KOP Leg #1	1726	FNL	2365	FWL	18S	32E	32	Aliquot SENW	32.70654	-103.789381	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	-4183	7894	7877	Y

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 102H

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 #1-1	1254	FNL	2540	FEL	18S	32E	32	Aliquot NWNE	32.707833	- 103.788146	LEA	NEW MEXICO	NEW MEXICO	S	STATE	- 4756	8795	8450	Y
PPP Leg #1-2	1254	FNL	0	FWL	18S	32E	33	Aliquot NWNW	32.7078224	- 103.7798887	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18232	- 4756	11334	8450	Y
PPP Leg #1-3	1254	FNL	2636	FWL	18S	32E	33	Aliquot NWNE	32.7078042	- 103.7713186	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0556094	- 4756	13971	8450	Y
PPP Leg #1-4	1254	FNL	0	FWL	18S	32E	34	Aliquot NWNW	32.7077855	- 103.7627381	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4756	16610	8450	Y
EXIT Leg #1	1254	FNL	100	FEL	18S	32E	34	Aliquot NENE	32.707747	- 103.745887	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4756	21793	8450	Y
BHL Leg #1	1254	FNL	10	FEL	18S	32E	34	Aliquot NENE	32.707746	- 103.745594	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4756	21883	8450	Y



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

Drilling Plan Data Report

11/30/2025

APD ID: 10400103829

Submission Date: 03/17/2025

Highlighted data
reflects the most
recent changes

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

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
16446839	QUATERNARY	3694	0	0	ALLUVIUM	NONE	N
16446841	RUSTLER	2544	1150	1150	ANHYDRITE, LIMESTONE, SALT	NONE	N
16446842	TOP OF SALT	2264	1430	1430	ANHYDRITE, SALT	NONE	N
16446843	BASE OF SALT	1519	2175	2185	ANHYDRITE, SALT	NONE	N
16446858	YATES	822	2872	2872	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446859	SEVEN RIVERS	499	3195	3215	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446860	QUEEN	-81	3775	3805	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446862	SAN ANDRES	-571	4265	4295	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446847	CHERRY CANYON	-921	4615	4655	LIMESTONE, SANDSTONE, SHALE	NONE	N
16446848	BRUSHY CANYON	-1351	5045	5085	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446849	BONE SPRING LIME	-3275	6969	6999	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446850	AVALON SAND	-3496	7190	7230	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446863	BONE SPRING 1ST	-4626	8320	8370	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16446864	BONE SPRING 2ND	-4931	8625	8685	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446865	BONE SPRING 2ND	-5196	8890	8950	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446866	BONE SPRING 3RD	-5736	9430	9500	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446867	BONE SPRING 3RD	-6141	9835	9915	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16446868	WOLFCAMP	-6491	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	3694	2384	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	-276	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	-160	-811	535	HCL-80	40	BUTT	1.125	1.125	BUOY	1.6	BUOY	1.6

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

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	21883	0	8450	3643	-4756	21883	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):

Casing_Design_Assmpt_3_string_casing_20250224172408.pdf13.375_54.5000_0.3800_J55_data_sheet_20250224172417.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assmpt_3_string_casing_20250224172452.pdfData_Sheet_9.625_Inch_40.00_J55_BTC_SEAH_20250224172548.pdf

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

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_20250224172610.pdf

Casing_Design_Assmpt_3_string_casing_20250224172616.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	4420	954	2.65	10.5	2527.2	100	C or H	Fluid Loss, Retarder, LCM, Possibly beads

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 102H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		4420	5170	240	1.33	13.2	319.2	100	C or H	Fluid Loss, Retarder, LCM
PRODUCTION	Lead		4670	7820	229	4.3	10.5	985.7	20	H	Fluid Loss, Retarder, LCM
PRODUCTION	Tail		7820	2188 3	2615	1.68	13	4393. 5	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	2188 3	OIL-BASED MUD	9.7	9.7							

Operator Name: PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 102H

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_32_34_Fed_Com_102H_Plan_1_AC_20250224173008.pdf

Bond_32_34_Fed_Com_102H_Plan_1_20250224173016.pdf

Bond_32_34_Fed_Com_102H_Plan_1_Plot_20250224173021.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_NM_Curve_volumes_1BSS_20250224165438.pdf

PBEX_Operations__LLC_NGMP_Best_Practices_20250212141054.pdf

Wellhead_Schematic_9.625_10M_3T_20250212135648.pdf

Bond_32_34_FED_COM__102H_Drill_Plan_v5_20250227105848.pdf

Other Variance request(s)?: N

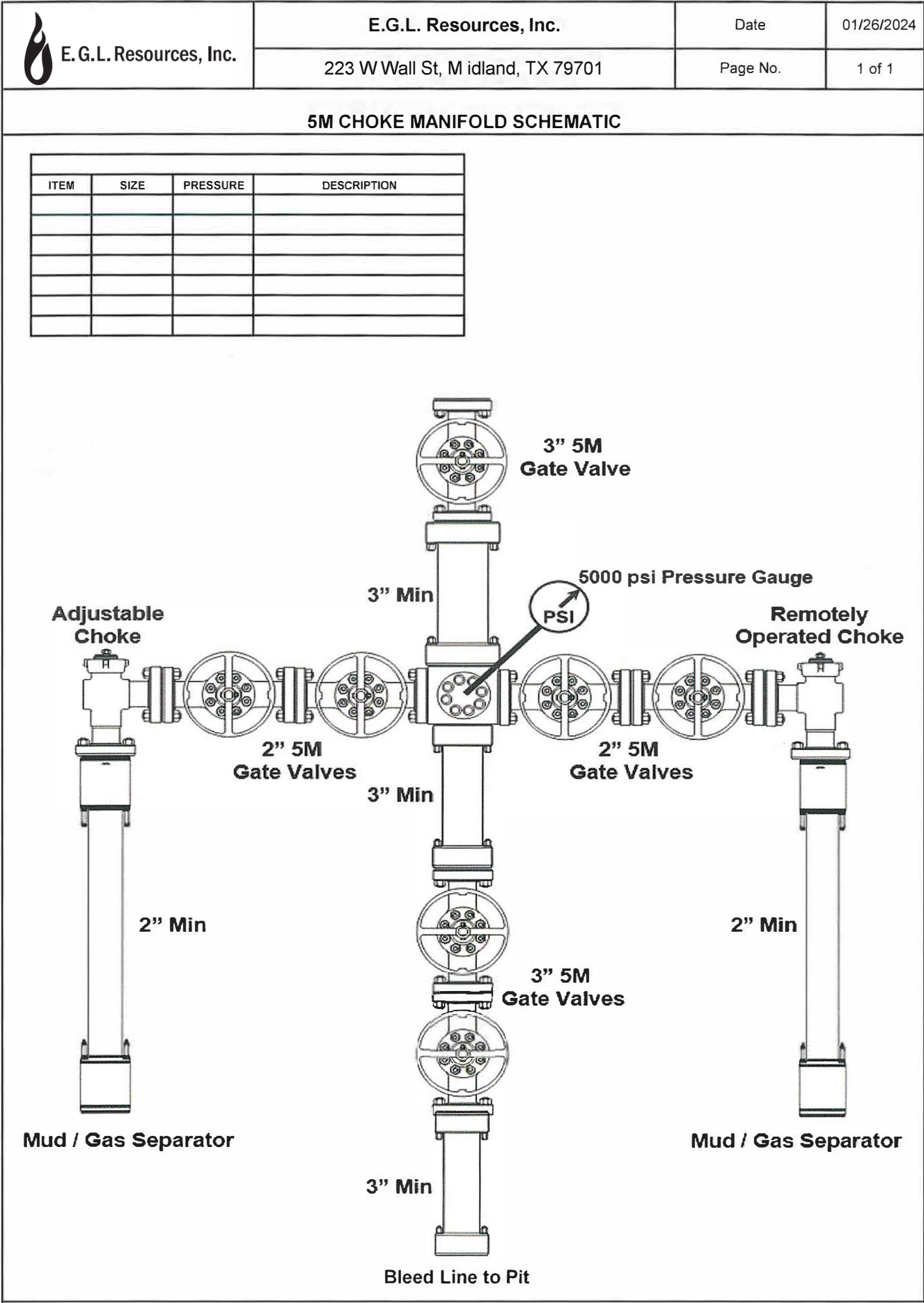
Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 102H

Other Variance attachment:

CONFIDENTIAL





E. G. L. Resources, Inc.

E.G.L. Resources, Inc.

Date

1/26/2024

223 W Wall St, Midland, TX 79701

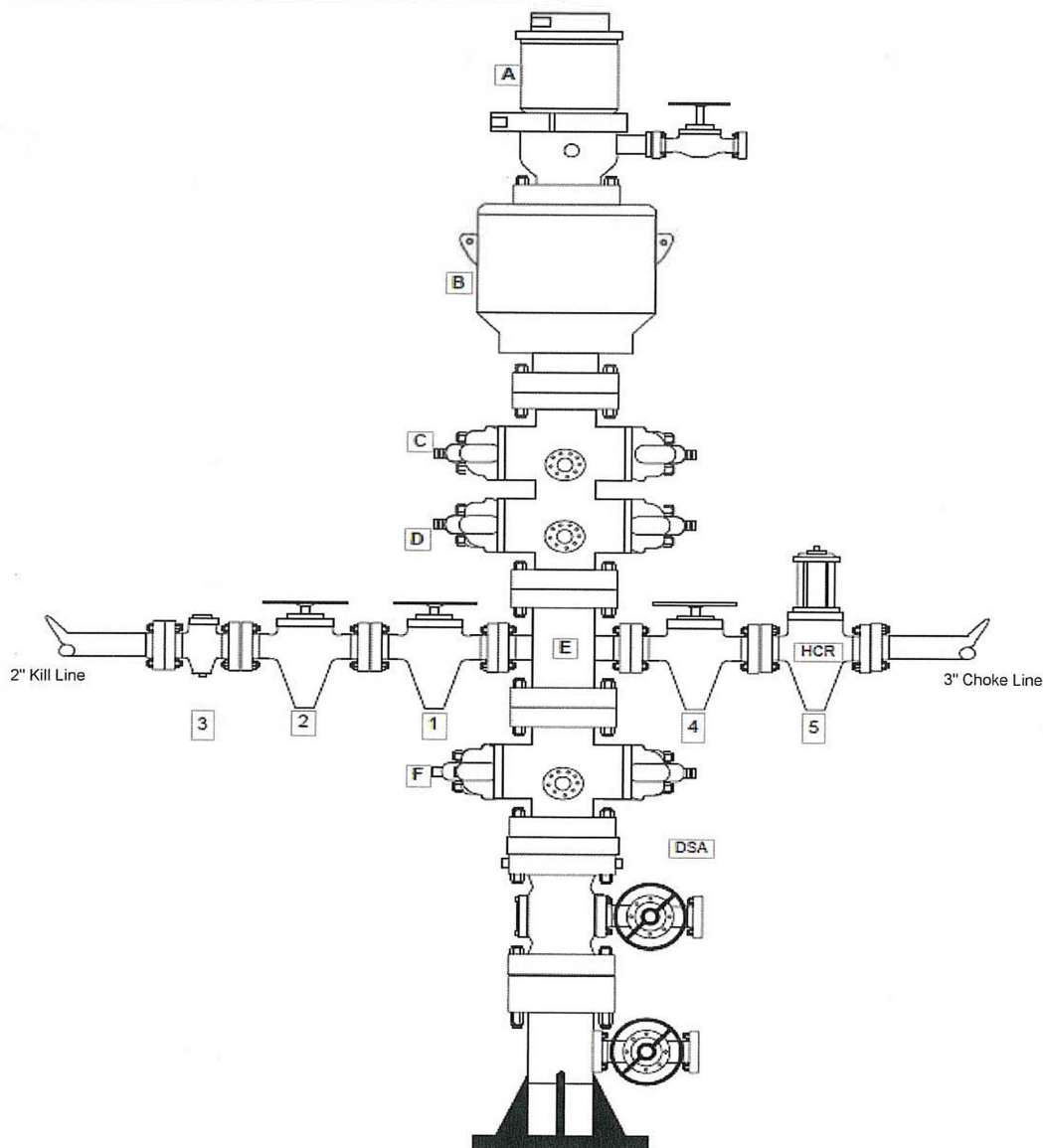
Page No.

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



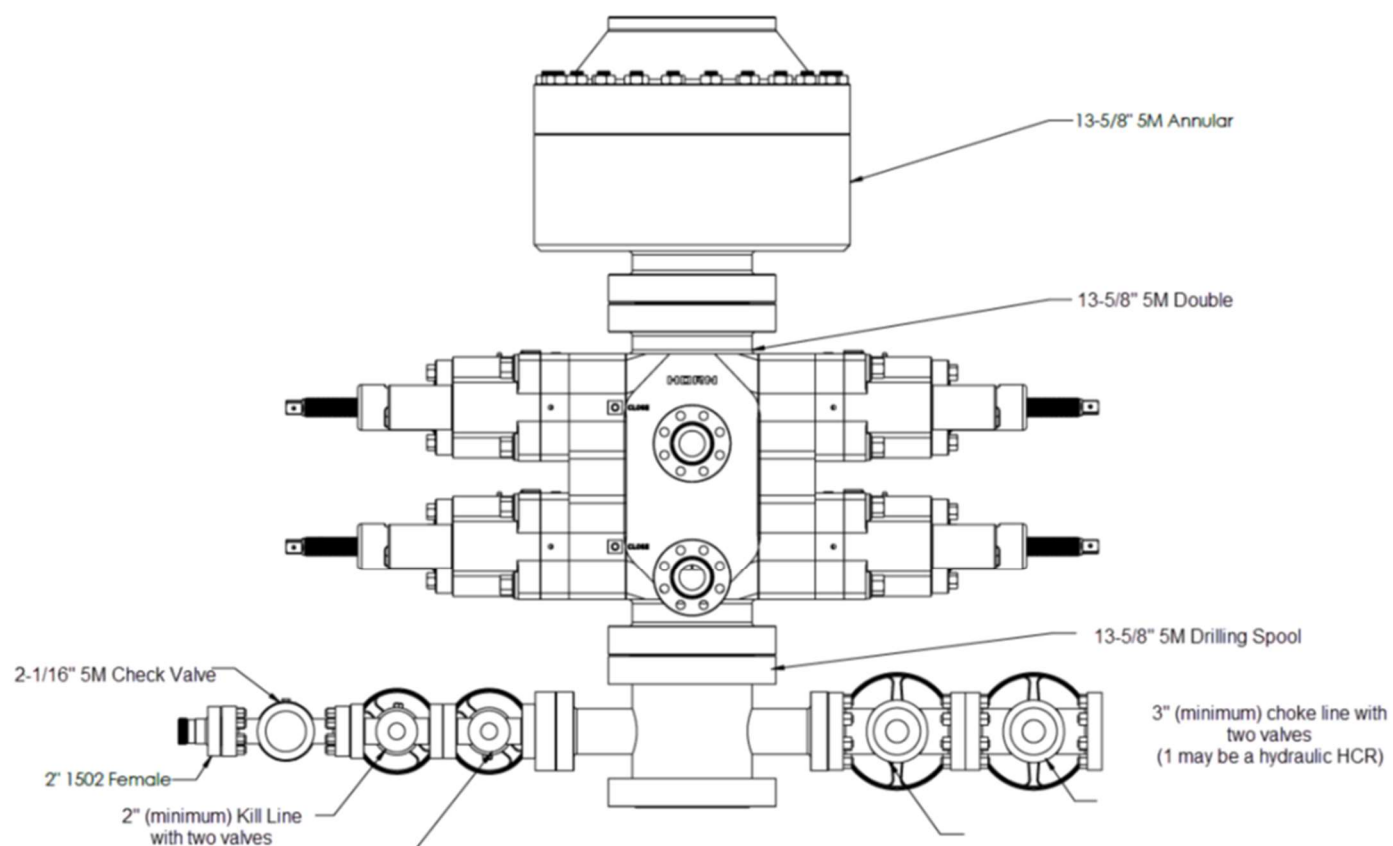
KILL LINE

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



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

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).



U. S. Steel Tubular Products

13.375" 54.50lb/ft (0.380" Wall) J55

11/1/2023 1:00:21 PM

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

UNCONTROLLED

Notes

Legal Notice

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.

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Spring, Texas 77380

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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.

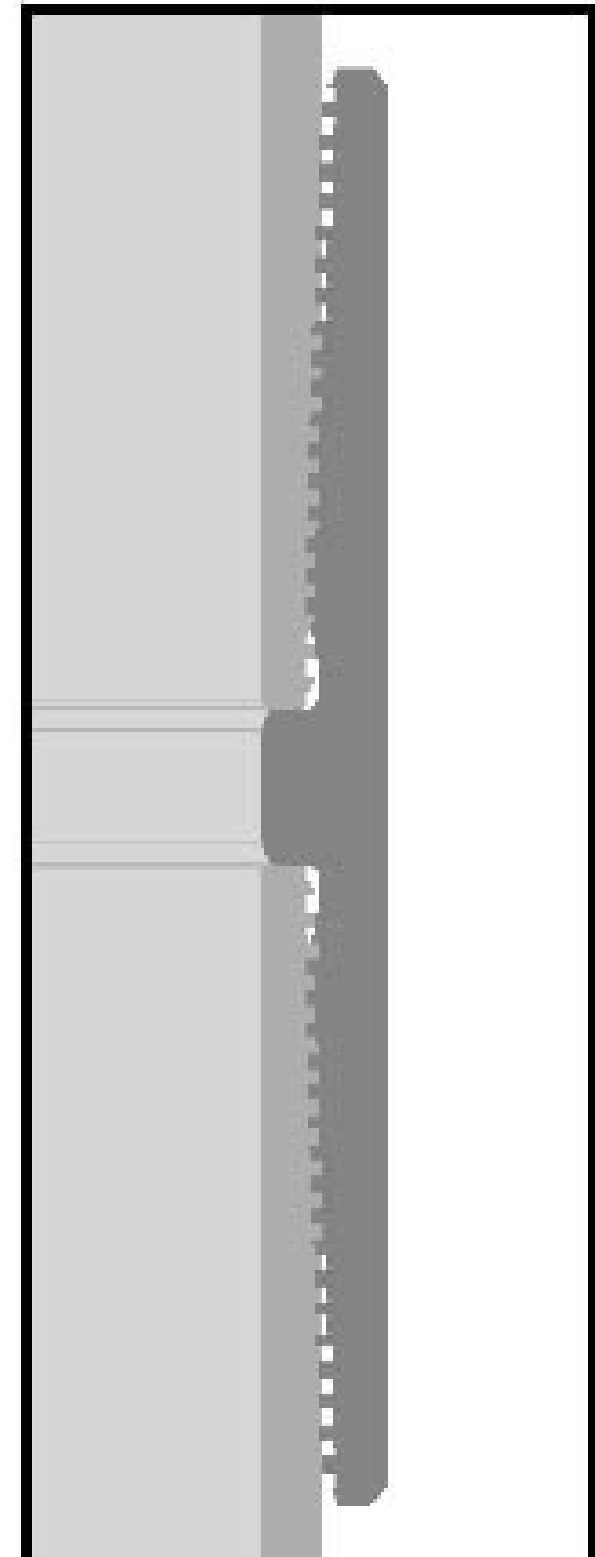
Technical Specifications

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
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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.

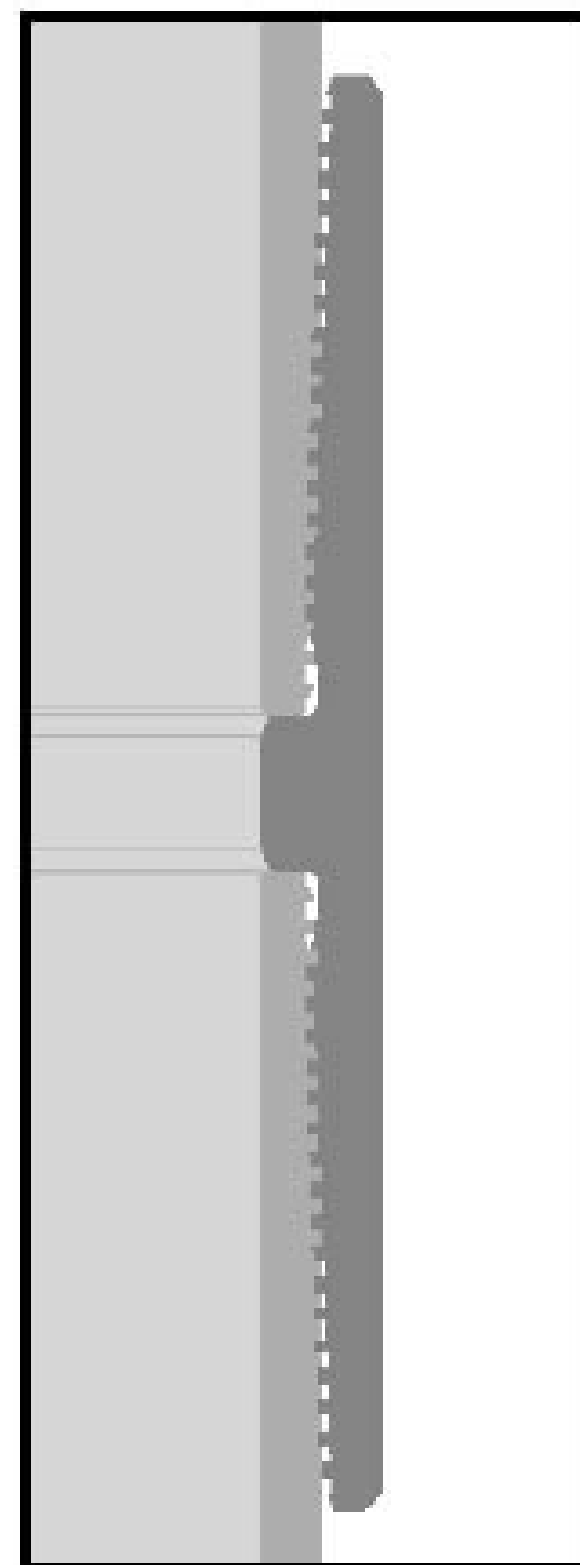
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2/6/2015



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

pbEX

Safety Is Paramount!

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

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

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1. INTRODUCTION

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

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

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

2. PURPOSE

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

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

In the event there is an accidental H2S release:

- Notify and protect the general public.

- Notify the state and local government agencies.

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

This is a mandatory notification.

A. OPERATING PROCEDURES

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

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

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

GENERAL:

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

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



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

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

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

C. DRILLING BELOW CONTINGENCY PLAN DEPTH

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

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

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

D. PROCEDURES PROGRAM

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

E. GENERAL

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



3. EMERGENCY PHONE NUMBERS

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

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

Emergency Call Guidance

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

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



4. CONDITIONS AND EMERGENCY PROCEDURES

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

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

A. Definition of Operational “Conditions”

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

B. H2S Emergency Procedures- On-Site Personnel

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

Do Not Panic!

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

1. Responsibilities of Well-Site Personnel

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

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

a. Well-Site Representatives

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

b. On-Site Supervisor

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

c. H2S Safety Company Representative

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



5. SAFETY EQUIPMENT

- 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.

PLEASE REFER TO UPDATED PLANNING REPORT IN ATTACHED NOI



PDEX

Lea County NM (NAD 83)

Section 32E

Bond 3 and Com 102H

Wellbore #1

Plan: Plan 1

Standard Planning Report

23 Jan 2025





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	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 32-34 Fed Com 102H					
Well Position	+N/-S	0.00 usft	Northing:	621,199.69 usft	Latitude:	32.70653980
	+E/-W	0.00 usft	Easting:	708,651.47 usft	Longitude:	-103.78938095
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,724.00 usft	Ground Level:	3,694.00 usft
Grid Convergence:		0.29 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM CURRENT	1/23/2025	6.58	60.40	47,436.40000000

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	1/21/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,883.14 Plan 1 (Wellbore #1)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,719.57	4.39	334.30	1,719.36	7.58	-3.65	2.00	2.00	0.00	334.30	
7,297.23	4.39	334.30	7,280.64	392.42	-188.83	0.00	0.00	0.00	0.00	
7,516.80	0.00	0.00	7,500.00	400.00	-192.48	2.00	-2.00	0.00	180.00	
7,893.84	0.00	0.00	7,877.04	400.00	-192.48	0.00	0.00	0.00	0.00	
8,793.84	90.00	84.00	8,450.00	459.89	377.34	10.00	10.00	0.00	84.00	
9,085.96	90.00	89.84	8,450.00	475.57	668.91	2.00	0.00	2.00	90.00	
21,793.14	90.00	89.84	8,450.00	510.54	13,376.04	0.00	0.00	0.00	0.00	
21,883.14	90.00	89.84	8,450.00	510.79	13,466.04	0.00	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,600.00	2.00	334.30	1,599.98	1.57	-0.76	-0.76	2.00	2.00	0.00
1,700.00	4.00	334.30	1,699.84	6.29	-3.03	-3.03	2.00	2.00	0.00
1,719.57	4.39	334.30	1,719.36	7.58	-3.65	-3.65	2.00	2.00	0.00
Start 5577.66 hold at 1719.57 MD									
1,800.00	4.39	334.30	1,799.55	13.13	-6.32	-6.32	0.00	0.00	0.00
1,900.00	4.39	334.30	1,899.26	20.03	-9.64	-9.64	0.00	0.00	0.00
2,000.00	4.39	334.30	1,998.96	26.93	-12.96	-12.96	0.00	0.00	0.00
2,100.00	4.39	334.30	2,098.67	33.83	-16.28	-16.28	0.00	0.00	0.00
2,200.00	4.39	334.30	2,198.37	40.73	-19.60	-19.60	0.00	0.00	0.00
2,300.00	4.39	334.30	2,298.08	47.63	-22.92	-22.92	0.00	0.00	0.00
2,400.00	4.39	334.30	2,397.79	54.53	-26.24	-26.24	0.00	0.00	0.00
2,500.00	4.39	334.30	2,497.49	61.43	-29.56	-29.56	0.00	0.00	0.00
2,600.00	4.39	334.30	2,597.20	68.33	-32.88	-32.88	0.00	0.00	0.00
2,700.00	4.39	334.30	2,696.91	75.23	-36.20	-36.20	0.00	0.00	0.00
2,800.00	4.39	334.30	2,796.61	82.13	-39.52	-39.52	0.00	0.00	0.00
2,900.00	4.39	334.30	2,896.32	89.02	-42.84	-42.84	0.00	0.00	0.00
3,000.00	4.39	334.30	2,996.03	95.92	-46.16	-46.16	0.00	0.00	0.00
3,100.00	4.39	334.30	3,095.73	102.82	-49.48	-49.48	0.00	0.00	0.00
3,200.00	4.39	334.30	3,195.44	109.72	-52.80	-52.80	0.00	0.00	0.00
3,300.00	4.39	334.30	3,295.15	116.62	-56.12	-56.12	0.00	0.00	0.00
3,400.00	4.39	334.30	3,394.85	123.52	-59.44	-59.44	0.00	0.00	0.00
3,500.00	4.39	334.30	3,494.56	130.42	-62.76	-62.76	0.00	0.00	0.00
3,600.00	4.39	334.30	3,594.26	137.32	-66.08	-66.08	0.00	0.00	0.00
3,700.00	4.39	334.30	3,693.97	144.22	-69.40	-69.40	0.00	0.00	0.00
3,800.00	4.39	334.30	3,793.68	151.12	-72.72	-72.72	0.00	0.00	0.00
3,900.00	4.39	334.30	3,893.38	158.02	-76.04	-76.04	0.00	0.00	0.00
4,000.00	4.39	334.30	3,993.09	164.92	-79.36	-79.36	0.00	0.00	0.00
4,100.00	4.39	334.30	4,092.80	171.82	-82.68	-82.68	0.00	0.00	0.00
4,200.00	4.39	334.30	4,192.50	178.72	-86.00	-86.00	0.00	0.00	0.00
4,300.00	4.39	334.30	4,292.21	185.62	-89.32	-89.32	0.00	0.00	0.00
4,400.00	4.39	334.30	4,391.92	192.52	-92.64	-92.64	0.00	0.00	0.00
4,500.00	4.39	334.30	4,491.62	199.42	-95.96	-95.96	0.00	0.00	0.00
4,600.00	4.39	334.30	4,591.33	206.32	-99.28	-99.28	0.00	0.00	0.00
4,700.00	4.39	334.30	4,691.04	213.22	-102.60	-102.60	0.00	0.00	0.00
4,800.00	4.39	334.30	4,790.74	220.12	-105.92	-105.92	0.00	0.00	0.00
4,900.00	4.39	334.30	4,890.45	227.02	-109.24	-109.24	0.00	0.00	0.00
5,000.00	4.39	334.30	4,990.15	233.92	-112.56	-112.56	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	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	4.39	334.30	5,089.86	240.82	-115.88	-115.88	0.00	0.00	0.00
5,200.00	4.39	334.30	5,189.57	247.72	-119.20	-119.20	0.00	0.00	0.00
5,300.00	4.39	334.30	5,289.27	254.62	-122.52	-122.52	0.00	0.00	0.00
5,400.00	4.39	334.30	5,388.98	261.52	-125.84	-125.84	0.00	0.00	0.00
5,500.00	4.39	334.30	5,488.69	268.42	-129.16	-129.16	0.00	0.00	0.00
5,600.00	4.39	334.30	5,588.39	275.32	-132.48	-132.48	0.00	0.00	0.00
5,700.00	4.39	334.30	5,688.10	282.22	-135.80	-135.80	0.00	0.00	0.00
5,800.00	4.39	334.30	5,787.81	289.12	-139.12	-139.12	0.00	0.00	0.00
5,900.00	4.39	334.30	5,887.51	296.02	-142.44	-142.44	0.00	0.00	0.00
6,000.00	4.39	334.30	5,987.22	302.92	-145.76	-145.76	0.00	0.00	0.00
6,100.00	4.39	334.30	6,086.93	309.82	-149.08	-149.08	0.00	0.00	0.00
6,200.00	4.39	334.30	6,186.63	316.72	-152.40	-152.40	0.00	0.00	0.00
6,300.00	4.39	334.30	6,286.34	323.62	-155.72	-155.72	0.00	0.00	0.00
6,400.00	4.39	334.30	6,386.04	330.51	-159.04	-159.04	0.00	0.00	0.00
6,500.00	4.39	334.30	6,485.75	337.41	-162.36	-162.36	0.00	0.00	0.00
6,600.00	4.39	334.30	6,585.46	344.31	-165.68	-165.68	0.00	0.00	0.00
6,700.00	4.39	334.30	6,685.16	351.21	-169.00	-169.00	0.00	0.00	0.00
6,800.00	4.39	334.30	6,784.87	358.11	-172.32	-172.32	0.00	0.00	0.00
6,900.00	4.39	334.30	6,884.58	365.01	-175.64	-175.64	0.00	0.00	0.00
7,000.00	4.39	334.30	6,984.28	371.91	-178.96	-178.96	0.00	0.00	0.00
7,100.00	4.39	334.30	7,083.99	378.81	-182.28	-182.28	0.00	0.00	0.00
7,200.00	4.39	334.30	7,183.70	385.71	-185.60	-185.60	0.00	0.00	0.00
7,297.23	4.39	334.30	7,280.64	392.42	-188.83	-188.83	0.00	0.00	0.00
Start Drop -2.00									
7,300.00	4.34	334.30	7,283.40	392.61	-188.92	-188.92	2.00	-2.00	0.00
7,400.00	2.34	334.30	7,383.23	397.85	-191.45	-191.45	2.00	-2.00	0.00
7,500.00	0.34	334.30	7,483.20	399.96	-192.46	-192.46	2.00	-2.00	0.00
7,516.80	0.00	0.00	7,500.00	400.00	-192.48	-192.48	2.00	-2.00	0.00
Start 377.04 hold at 7516.80 MD									
7,600.00	0.00	0.00	7,583.20	400.00	-192.48	-192.48	0.00	0.00	0.00
7,700.00	0.00	0.00	7,683.20	400.00	-192.48	-192.48	0.00	0.00	0.00
7,800.00	0.00	0.00	7,783.20	400.00	-192.48	-192.48	0.00	0.00	0.00
7,893.84	0.00	0.00	7,877.04	400.00	-192.48	-192.48	0.00	0.00	0.00
Start Build 10.00									
7,900.00	0.62	84.00	7,883.20	400.00	-192.45	-192.45	10.00	10.00	0.00
7,950.00	5.62	84.00	7,933.11	400.29	-189.75	-189.75	10.00	10.00	0.00
8,000.00	10.62	84.00	7,982.59	401.03	-182.73	-182.73	10.00	10.00	0.00
8,050.00	15.62	84.00	8,031.27	402.21	-171.45	-171.45	10.00	10.00	0.00
8,100.00	20.62	84.00	8,078.78	403.84	-155.99	-155.99	10.00	10.00	0.00
8,150.00	25.62	84.00	8,124.75	405.89	-136.48	-136.48	10.00	10.00	0.00
8,200.00	30.62	84.00	8,168.83	408.35	-113.05	-113.05	10.00	10.00	0.00
8,250.00	35.62	84.00	8,210.70	411.20	-85.89	-85.89	10.00	10.00	0.00
8,300.00	40.62	84.00	8,250.02	414.43	-55.21	-55.21	10.00	10.00	0.00
8,350.00	45.62	84.00	8,286.51	418.00	-21.23	-21.23	10.00	10.00	0.00
8,400.00	50.62	84.00	8,319.88	421.89	15.78	15.78	10.00	10.00	0.00
8,450.00	55.62	84.00	8,349.88	426.07	55.54	55.54	10.00	10.00	0.00
8,500.00	60.62	84.00	8,376.29	430.50	97.75	97.75	10.00	10.00	0.00
8,550.00	65.62	84.00	8,398.89	435.16	142.09	142.09	10.00	10.00	0.00
8,600.00	70.62	84.00	8,417.52	440.01	188.21	188.21	10.00	10.00	0.00
8,650.00	75.62	84.00	8,432.04	445.01	235.78	235.78	10.00	10.00	0.00
8,700.00	80.62	84.00	8,442.33	450.12	284.43	284.43	10.00	10.00	0.00
8,750.00	85.62	84.00	8,448.32	455.31	333.78	333.78	10.00	10.00	0.00
8,793.84	90.00	84.00	8,450.00	459.89	377.34	377.34	10.00	10.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	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 DLS 2.00 TFO 90.00									
8,800.00	90.00	84.12	8,450.00	460.53	383.46	383.46	2.00	0.00	2.00
8,900.00	90.00	86.12	8,450.00	469.03	483.09	483.09	2.00	0.00	2.00
9,000.00	90.00	88.12	8,450.00	474.05	582.96	582.96	2.00	0.00	2.00
9,085.96	90.00	89.84	8,450.00	475.57	668.91	668.91	2.00	0.00	2.00
Start 12707.18 hold at 9085.96 MD									
9,100.00	90.00	89.84	8,450.00	475.61	682.95	682.95	0.00	0.00	0.00
9,200.00	90.00	89.84	8,450.00	475.89	782.95	782.95	0.00	0.00	0.00
9,300.00	90.00	89.84	8,450.00	476.16	882.95	882.95	0.00	0.00	0.00
9,400.00	90.00	89.84	8,450.00	476.44	982.95	982.95	0.00	0.00	0.00
9,500.00	90.00	89.84	8,450.00	476.71	1,082.94	1,082.94	0.00	0.00	0.00
9,600.00	90.00	89.84	8,450.00	476.99	1,182.94	1,182.94	0.00	0.00	0.00
9,700.00	90.00	89.84	8,450.00	477.26	1,282.94	1,282.94	0.00	0.00	0.00
9,800.00	90.00	89.84	8,450.00	477.54	1,382.94	1,382.94	0.00	0.00	0.00
9,900.00	90.00	89.84	8,450.00	477.81	1,482.94	1,482.94	0.00	0.00	0.00
10,000.00	90.00	89.84	8,450.00	478.09	1,582.94	1,582.94	0.00	0.00	0.00
10,100.00	90.00	89.84	8,450.00	478.36	1,682.94	1,682.94	0.00	0.00	0.00
10,200.00	90.00	89.84	8,450.00	478.64	1,782.94	1,782.94	0.00	0.00	0.00
10,300.00	90.00	89.84	8,450.00	478.91	1,882.94	1,882.94	0.00	0.00	0.00
10,400.00	90.00	89.84	8,450.00	479.19	1,982.94	1,982.94	0.00	0.00	0.00
10,500.00	90.00	89.84	8,450.00	479.46	2,082.94	2,082.94	0.00	0.00	0.00
10,600.00	90.00	89.84	8,450.00	479.74	2,182.94	2,182.94	0.00	0.00	0.00
10,700.00	90.00	89.84	8,450.00	480.01	2,282.94	2,282.94	0.00	0.00	0.00
10,800.00	90.00	89.84	8,450.00	480.29	2,382.94	2,382.94	0.00	0.00	0.00
10,900.00	90.00	89.84	8,450.00	480.56	2,482.94	2,482.94	0.00	0.00	0.00
11,000.00	90.00	89.84	8,450.00	480.84	2,582.94	2,582.94	0.00	0.00	0.00
11,100.00	90.00	89.84	8,450.00	481.12	2,682.94	2,682.94	0.00	0.00	0.00
11,200.00	90.00	89.84	8,450.00	481.39	2,782.94	2,782.94	0.00	0.00	0.00
11,300.00	90.00	89.84	8,450.00	481.67	2,882.94	2,882.94	0.00	0.00	0.00
11,400.00	90.00	89.84	8,450.00	481.94	2,982.94	2,982.94	0.00	0.00	0.00
11,500.00	90.00	89.84	8,450.00	482.22	3,082.94	3,082.94	0.00	0.00	0.00
11,600.00	90.00	89.84	8,450.00	482.49	3,182.94	3,182.94	0.00	0.00	0.00
11,700.00	90.00	89.84	8,450.00	482.77	3,282.94	3,282.94	0.00	0.00	0.00
11,800.00	90.00	89.84	8,450.00	483.04	3,382.94	3,382.94	0.00	0.00	0.00
11,900.00	90.00	89.84	8,450.00	483.32	3,482.94	3,482.94	0.00	0.00	0.00
12,000.00	90.00	89.84	8,450.00	483.59	3,582.94	3,582.94	0.00	0.00	0.00
12,100.00	90.00	89.84	8,450.00	483.87	3,682.94	3,682.94	0.00	0.00	0.00
12,200.00	90.00	89.84	8,450.00	484.14	3,782.93	3,782.93	0.00	0.00	0.00
12,300.00	90.00	89.84	8,450.00	484.42	3,882.93	3,882.93	0.00	0.00	0.00
12,400.00	90.00	89.84	8,450.00	484.69	3,982.93	3,982.93	0.00	0.00	0.00
12,500.00	90.00	89.84	8,450.00	484.97	4,082.93	4,082.93	0.00	0.00	0.00
12,600.00	90.00	89.84	8,450.00	485.24	4,182.93	4,182.93	0.00	0.00	0.00
12,700.00	90.00	89.84	8,450.00	485.52	4,282.93	4,282.93	0.00	0.00	0.00
12,800.00	90.00	89.84	8,450.00	485.79	4,382.93	4,382.93	0.00	0.00	0.00
12,900.00	90.00	89.84	8,450.00	486.07	4,482.93	4,482.93	0.00	0.00	0.00
13,000.00	90.00	89.84	8,450.00	486.34	4,582.93	4,582.93	0.00	0.00	0.00
13,100.00	90.00	89.84	8,450.00	486.62	4,682.93	4,682.93	0.00	0.00	0.00
13,200.00	90.00	89.84	8,450.00	486.89	4,782.93	4,782.93	0.00	0.00	0.00
13,300.00	90.00	89.84	8,450.00	487.17	4,882.93	4,882.93	0.00	0.00	0.00
13,400.00	90.00	89.84	8,450.00	487.44	4,982.93	4,982.93	0.00	0.00	0.00
13,500.00	90.00	89.84	8,450.00	487.72	5,082.93	5,082.93	0.00	0.00	0.00
13,600.00	90.00	89.84	8,450.00	487.99	5,182.93	5,182.93	0.00	0.00	0.00
13,700.00	90.00	89.84	8,450.00	488.27	5,282.93	5,282.93	0.00	0.00	0.00
13,800.00	90.00	89.84	8,450.00	488.54	5,382.93	5,382.93	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.00	90.00	89.84	8,450.00	488.82	5,482.93	5,482.93	0.00	0.00	0.00
14,000.00	90.00	89.84	8,450.00	489.10	5,582.93	5,582.93	0.00	0.00	0.00
14,100.00	90.00	89.84	8,450.00	489.37	5,682.93	5,682.93	0.00	0.00	0.00
14,200.00	90.00	89.84	8,450.00	489.65	5,782.93	5,782.93	0.00	0.00	0.00
14,300.00	90.00	89.84	8,450.00	489.92	5,882.93	5,882.93	0.00	0.00	0.00
14,400.00	90.00	89.84	8,450.00	490.20	5,982.93	5,982.93	0.00	0.00	0.00
14,500.00	90.00	89.84	8,450.00	490.47	6,082.93	6,082.93	0.00	0.00	0.00
14,600.00	90.00	89.84	8,450.00	490.75	6,182.93	6,182.93	0.00	0.00	0.00
14,700.00	90.00	89.84	8,450.00	491.02	6,282.93	6,282.93	0.00	0.00	0.00
14,800.00	90.00	89.84	8,450.00	491.30	6,382.92	6,382.92	0.00	0.00	0.00
14,900.00	90.00	89.84	8,450.00	491.57	6,482.92	6,482.92	0.00	0.00	0.00
15,000.00	90.00	89.84	8,450.00	491.85	6,582.92	6,582.92	0.00	0.00	0.00
15,100.00	90.00	89.84	8,450.00	492.12	6,682.92	6,682.92	0.00	0.00	0.00
15,200.00	90.00	89.84	8,450.00	492.40	6,782.92	6,782.92	0.00	0.00	0.00
15,300.00	90.00	89.84	8,450.00	492.67	6,882.92	6,882.92	0.00	0.00	0.00
15,400.00	90.00	89.84	8,450.00	492.95	6,982.92	6,982.92	0.00	0.00	0.00
15,500.00	90.00	89.84	8,450.00	493.22	7,082.92	7,082.92	0.00	0.00	0.00
15,600.00	90.00	89.84	8,450.00	493.50	7,182.92	7,182.92	0.00	0.00	0.00
15,700.00	90.00	89.84	8,450.00	493.77	7,282.92	7,282.92	0.00	0.00	0.00
15,800.00	90.00	89.84	8,450.00	494.05	7,382.92	7,382.92	0.00	0.00	0.00
15,900.00	90.00	89.84	8,450.00	494.32	7,482.92	7,482.92	0.00	0.00	0.00
16,000.00	90.00	89.84	8,450.00	494.60	7,582.92	7,582.92	0.00	0.00	0.00
16,100.00	90.00	89.84	8,450.00	494.87	7,682.92	7,682.92	0.00	0.00	0.00
16,200.00	90.00	89.84	8,450.00	495.15	7,782.92	7,782.92	0.00	0.00	0.00
16,300.00	90.00	89.84	8,450.00	495.42	7,882.92	7,882.92	0.00	0.00	0.00
16,400.00	90.00	89.84	8,450.00	495.70	7,982.92	7,982.92	0.00	0.00	0.00
16,500.00	90.00	89.84	8,450.00	495.97	8,082.92	8,082.92	0.00	0.00	0.00
16,600.00	90.00	89.84	8,450.00	496.25	8,182.92	8,182.92	0.00	0.00	0.00
16,700.00	90.00	89.84	8,450.00	496.53	8,282.92	8,282.92	0.00	0.00	0.00
16,800.00	90.00	89.84	8,450.00	496.80	8,382.92	8,382.92	0.00	0.00	0.00
16,900.00	90.00	89.84	8,450.00	497.08	8,482.92	8,482.92	0.00	0.00	0.00
17,000.00	90.00	89.84	8,450.00	497.35	8,582.92	8,582.92	0.00	0.00	0.00
17,100.00	90.00	89.84	8,450.00	497.63	8,682.92	8,682.92	0.00	0.00	0.00
17,200.00	90.00	89.84	8,450.00	497.90	8,782.92	8,782.92	0.00	0.00	0.00
17,300.00	90.00	89.84	8,450.00	498.18	8,882.92	8,882.92	0.00	0.00	0.00
17,400.00	90.00	89.84	8,450.00	498.45	8,982.92	8,982.92	0.00	0.00	0.00
17,500.00	90.00	89.84	8,450.00	498.73	9,082.91	9,082.91	0.00	0.00	0.00
17,600.00	90.00	89.84	8,450.00	499.00	9,182.91	9,182.91	0.00	0.00	0.00
17,700.00	90.00	89.84	8,450.00	499.28	9,282.91	9,282.91	0.00	0.00	0.00
17,800.00	90.00	89.84	8,450.00	499.55	9,382.91	9,382.91	0.00	0.00	0.00
17,900.00	90.00	89.84	8,450.00	499.83	9,482.91	9,482.91	0.00	0.00	0.00
18,000.00	90.00	89.84	8,450.00	500.10	9,582.91	9,582.91	0.00	0.00	0.00
18,100.00	90.00	89.84	8,450.00	500.38	9,682.91	9,682.91	0.00	0.00	0.00
18,200.00	90.00	89.84	8,450.00	500.65	9,782.91	9,782.91	0.00	0.00	0.00
18,300.00	90.00	89.84	8,450.00	500.93	9,882.91	9,882.91	0.00	0.00	0.00
18,400.00	90.00	89.84	8,450.00	501.20	9,982.91	9,982.91	0.00	0.00	0.00
18,500.00	90.00	89.84	8,450.00	501.48	10,082.91	10,082.91	0.00	0.00	0.00
18,600.00	90.00	89.84	8,450.00	501.75	10,182.91	10,182.91	0.00	0.00	0.00
18,700.00	90.00	89.84	8,450.00	502.03	10,282.91	10,282.91	0.00	0.00	0.00
18,800.00	90.00	89.84	8,450.00	502.30	10,382.91	10,382.91	0.00	0.00	0.00
18,900.00	90.00	89.84	8,450.00	502.58	10,482.91	10,482.91	0.00	0.00	0.00
19,000.00	90.00	89.84	8,450.00	502.85	10,582.91	10,582.91	0.00	0.00	0.00
19,100.00	90.00	89.84	8,450.00	503.13	10,682.91	10,682.91	0.00	0.00	0.00
19,200.00	90.00	89.84	8,450.00	503.40	10,782.91	10,782.91	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,300.00	90.00	89.84	8,450.00	503.68	10,882.91	10,882.91	0.00	0.00	0.00	
19,400.00	90.00	89.84	8,450.00	503.95	10,982.91	10,982.91	0.00	0.00	0.00	
19,500.00	90.00	89.84	8,450.00	504.23	11,082.91	11,082.91	0.00	0.00	0.00	
19,600.00	90.00	89.84	8,450.00	504.51	11,182.91	11,182.91	0.00	0.00	0.00	
19,700.00	90.00	89.84	8,450.00	504.78	11,282.91	11,282.91	0.00	0.00	0.00	
19,800.00	90.00	89.84	8,450.00	505.06	11,382.91	11,382.91	0.00	0.00	0.00	
19,900.00	90.00	89.84	8,450.00	505.33	11,482.91	11,482.91	0.00	0.00	0.00	
20,000.00	90.00	89.84	8,450.00	505.61	11,582.91	11,582.91	0.00	0.00	0.00	
20,100.00	90.00	89.84	8,450.00	505.88	11,682.91	11,682.91	0.00	0.00	0.00	
20,200.00	90.00	89.84	8,450.00	506.16	11,782.90	11,782.90	0.00	0.00	0.00	
20,300.00	90.00	89.84	8,450.00	506.43	11,882.90	11,882.90	0.00	0.00	0.00	
20,400.00	90.00	89.84	8,450.00	506.71	11,982.90	11,982.90	0.00	0.00	0.00	
20,500.00	90.00	89.84	8,450.00	506.98	12,082.90	12,082.90	0.00	0.00	0.00	
20,600.00	90.00	89.84	8,450.00	507.26	12,182.90	12,182.90	0.00	0.00	0.00	
20,700.00	90.00	89.84	8,450.00	507.53	12,282.90	12,282.90	0.00	0.00	0.00	
20,800.00	90.00	89.84	8,450.00	507.81	12,382.90	12,382.90	0.00	0.00	0.00	
20,900.00	90.00	89.84	8,450.00	508.08	12,482.90	12,482.90	0.00	0.00	0.00	
21,000.00	90.00	89.84	8,450.00	508.36	12,582.90	12,582.90	0.00	0.00	0.00	
21,100.00	90.00	89.84	8,450.00	508.63	12,682.90	12,682.90	0.00	0.00	0.00	
21,200.00	90.00	89.84	8,450.00	508.91	12,782.90	12,782.90	0.00	0.00	0.00	
21,300.00	90.00	89.84	8,450.00	509.18	12,882.90	12,882.90	0.00	0.00	0.00	
21,400.00	90.00	89.84	8,450.00	509.46	12,982.90	12,982.90	0.00	0.00	0.00	
21,500.00	90.00	89.84	8,450.00	509.73	13,082.90	13,082.90	0.00	0.00	0.00	
21,600.00	90.00	89.84	8,450.00	510.01	13,182.90	13,182.90	0.00	0.00	0.00	
21,700.00	90.00	89.84	8,450.00	510.28	13,282.90	13,282.90	0.00	0.00	0.00	
21,793.14	90.00	89.84	8,450.00	510.54	13,376.04	13,376.04	0.00	0.00	0.00	
Start 90.00 hold at 21793.14 MD										
21,800.00	90.00	89.84	8,450.00	510.56	13,382.90	13,382.90	0.00	0.00	0.00	
21,883.14	90.00	89.84	8,450.00	510.79	13,466.04	13,466.04	0.00	0.00	0.00	
TD at 21883.14										



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Bond 32-34 Fed Com 102H
Company:	PBEX	TVD Reference:	GL 3694' + KB 30' @ 3724.00usft
Project:	Lea, County NM (NAD 83)	MD Reference:	GL 3694' + KB 30' @ 3724.00usft
Site:	Sec 33-18S-32E	North Reference:	Grid
Well:	Bond 32-34 Fed Com 102H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL - Bond 32-34 102H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	621,199.69	708,651.47	32.70653980	-103.78938095
KOP - Bond 32-34 102H - plan hits target center - Point	0.00	0.00	7,877.04	400.00	-192.48	621,599.69	708,458.99	32.70764194	-103.79000004
PP2 - Bond 32-34 102H - plan misses target center by 2.32usft at 11334.40usft MD (8450.00 TVD, 481.76 N, 2917.33 E) - Point	0.00	0.00	8,450.00	479.44	2,917.34	621,679.13	711,568.81	32.70781608	-103.77988867
BHL - Bond 32-34 102H - plan misses target center by 0.07usft at 21883.14usft MD (8450.00 TVD, 510.79 N, 13466.04 E) - Point	0.00	0.00	8,450.00	510.86	13,466.04	621,710.55	722,117.51	32.70774641	-103.74559439
FTP - Bond 32-34 102H - plan misses target center by 12.59usft at 8795.16usft MD (8450.00 TVD, 460.03 N, 378.64 E) - Point	0.00	0.00	8,450.00	472.55	377.34	621,672.24	709,028.81	32.70783331	-103.78814634
LTP - Bond 32-34 102H - plan hits target center - Point	0.00	0.00	8,450.00	510.54	13,376.04	621,710.23	722,027.51	32.70774690	-103.74588698
PP4 - Bond 32-34 102H - plan misses target center by 3.20usft at 16609.82usft MD (8450.00 TVD, 496.28 N, 8192.74 E) - Point	0.00	0.00	8,450.00	493.08	8,192.75	621,692.77	716,844.22	32.70777671	-103.76273809
PP3 - Bond 32-34 102H - plan misses target center by 2.76usft at 13970.50usft MD (8450.00 TVD, 489.01 N, 5553.43 E) - Point	0.00	0.00	8,450.00	486.25	5,553.44	621,685.94	714,204.91	32.70779669	-103.77131859

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
21,883.68	8,450.00	20" Casing	20	24

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	Start Build 2.00
1,719.57	1,719.36	7.58	-3.65	Start 5577.66 hold at 1719.57 MD
7,297.23	7,280.64	392.42	-188.83	Start Drop -2.00
7,516.80	7,500.00	400.00	-192.48	Start 377.04 hold at 7516.80 MD
7,893.84	7,877.04	400.00	-192.48	Start Build 10.00
8,793.84	8,450.00	459.89	377.34	Start DLS 2.00 TFO 90.00
9,085.96	8,450.00	475.57	668.91	Start 12707.18 hold at 9085.96 MD
21,793.14	8,450.00	510.54	13,376.04	Start 90.00 hold at 21793.14 MD
21,883.14	8,450.00	510.79	13,466.04	TD at 21883.14



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-052-006

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

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

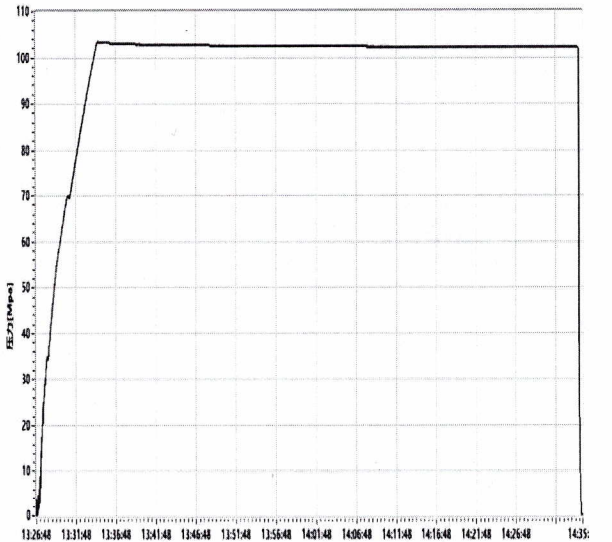
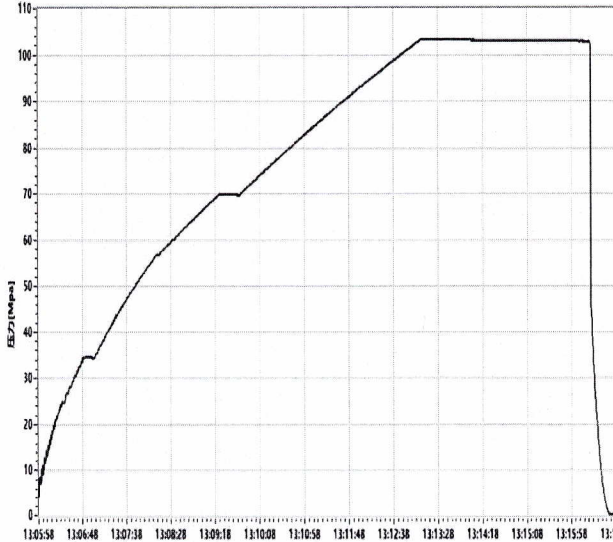


LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESING REPORT

LTTY/QR-5.7.1-28

No: 230422006

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

**LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD****CERTIFICATE OF CONFORMANCE****No:LT230422014**

Product Name: Choke And Kill Hose

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

Serial Number: 7660103~7660110

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

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

QC Manager:

Jiaolong Chen

Date:April 22, 2023

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

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

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

If Other, please describe: _____

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

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

IV. Central Delivery Point Name: Bond 33-34 Fed Com Battery [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
BOND 33-34 FED COM #001H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #002H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #003H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #004H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #005H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #006H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #101H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #102H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #103H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #104H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #105H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #106H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #201H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #203H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #205H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #207H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #209H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #211H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #301H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #302H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #303H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #304H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #305H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026
BOND 33-34 FED COM #306H	30-025-	9/1/2026	9/16/2026	12/1/2026	12/15/2026	12/15/2026

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

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

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

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

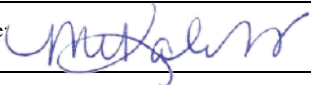
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

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

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

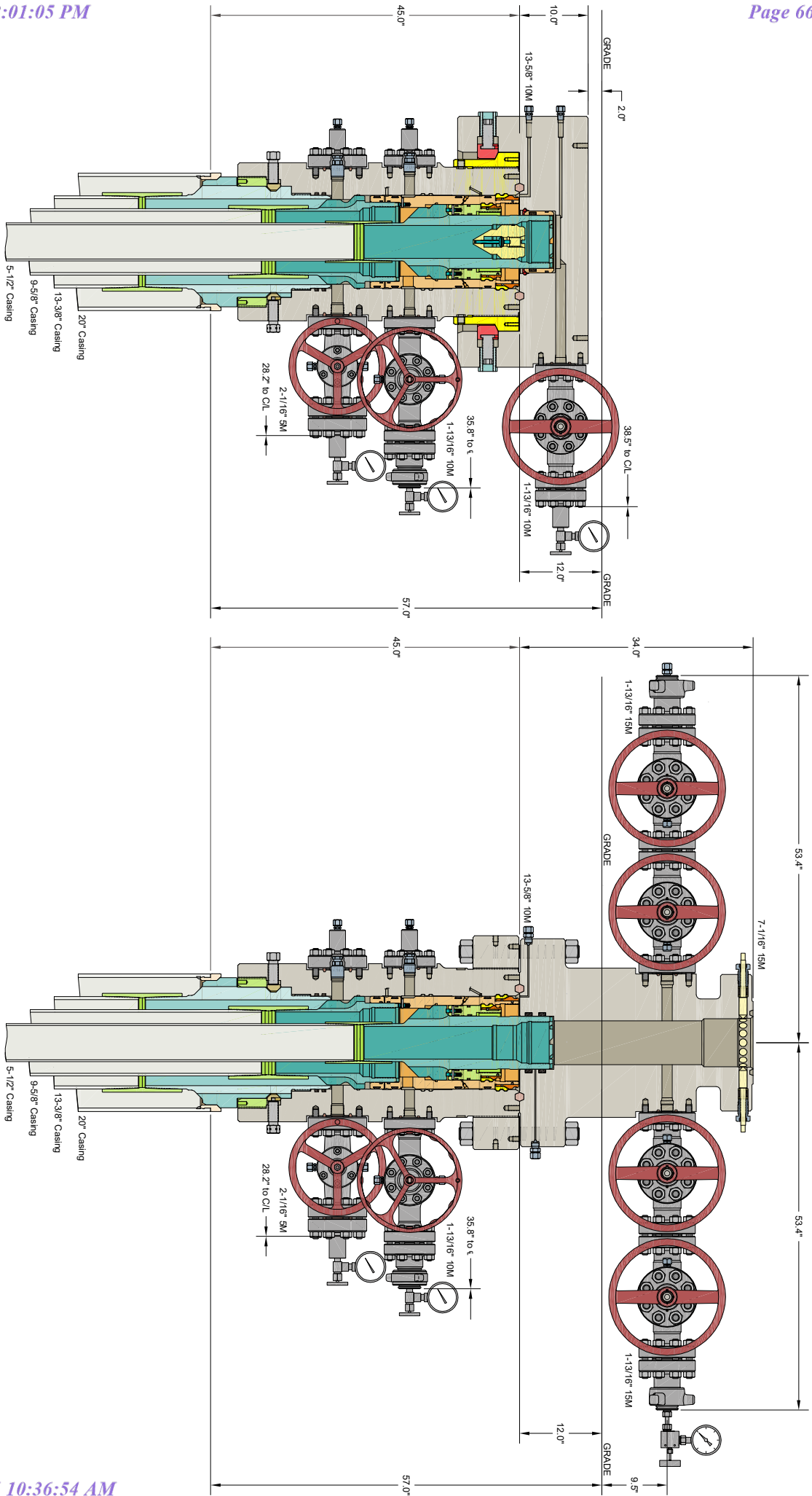
- PBEX's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.
- PBEX does not produce oil or gas until all flowlines, tank batteries,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



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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	

Well Name: BOND 32-34 FED COM	Well Location: T18S / R32E / SEC 32 / SENW / 32.70654 / -103.789381	County or Parish/State: LEA / NM
Well Number: 102H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM18232	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: PBEX OPERATIONS LLC	

Notice of Intent

Sundry ID: 2887042

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/15/2025	Time Sundry Submitted: 03:19
Date proposed operation will begin: 12/15/2025	

Procedure Description: AFMSS APD Number: 10400103829 PBEX Operations, LLC requests the following: Well name change: Original: Bond 32-34 Fed Com 102H New: Bond 32-34 Fed Com 103H Target zone change: Original: BS1 Avalon New: 1BSS Casing/Cement/Mud change shown on attachment. SHL, BHL, lateral move shown on attachment.

NOI Attachments

Procedure Description

- PPP_Change_Bond_102H__103H_20251222105712.pdf
- Bond_32_34_Fed_Com_102H____103H_20251222105709.pdf
- 24_041778_BOND_32_34_FED_COM__103H_C102_Add_Pool_20251222105705.pdf
- 24_041778_BOND_32_34_FED_COM__103H_C102_20251222105700.pdf
- 5.5_20.00__0.361__P110_RY_92.5_RBW_USS_FREEDOM_HTQ_Data_Sheet_03_14_24_20251215151824.pdf
- Plan_1_WM__03__Bond_32_34_FED_COM__103H_20251215151817.pdf
- Plan_1_AC__03__Bond_32_34_FED_COM__103H_20251215151812.pdf
- Plan_1__03__Bond_32_34_FED_COM__103H_20251215151801.pdf

Received by OCD: 1/13/2026 12:01:05 PM

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Well Name: BOND 32-34 FED COM	Well Location: T18S / R32E / SEC 32 / SENW / 32.70654 / -103.789381	County or Parish/State: LEA / NM
Well Number: 102H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM18232	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: PBEX OPERATIONS LLC	

Conditions of Approval

Additional

32_18_32_F_Sundry_ID_2887042_Bond_32_34_Fed_Com_102H_Lea_NM18232_PBEX_Operations_LLC_13_22h_11_14_2024_LV_20260112091842.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MIKAH THOMAS	Signed on: DEC 22, 2025 10:57 AM
Name: PBEX OPERATIONS LLC	
Title: Regulatory Manager	
Street Address: 223 WEST WALL STREET STE 900	
City: MIDLAND	State: TX
Phone: (432) 661-7106	
Email address: MIKAH@PBEX.COM	

Field

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

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: CWALLS@BLM.GOV
Disposition: Approved	Disposition Date: 01/12/2026
Signature: Chris Walls	

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

9. API Well No. 30-025-55810

10. Field and Pool or Exploratory Area

11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

2. Name of Operator

3a. Address3b. Phone No. (include area code)

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

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

Additional Remarks

Casing/Cement/Mud change shown on attachment.

SHL, BHL, lateral move shown on attachment.

Location of Well

0. SHL: SENW / 1726 FNL / 2365 FWL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.70654 / LONG: -103.789381 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 1254 FNL / 2540 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.707833 / LONG: -103.788146 (TVD: 8450 feet, MD: 8795 feet)

PPP: NWNW / 1254 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7078224 / LONG: -103.7798887 (TVD: 8450 feet, MD: 11334 feet)

PPP: NWNW / 1254 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7077855 / LONG: -103.7627381 (TVD: 8450 feet, MD: 16610 feet)

PPP: NWNE / 1254 FNL / 2636 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7078042 / LONG: -103.7713186 (TVD: 8450 feet, MD: 13971 feet)

BHL: NENE / 1254 FNL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.707746 / LONG: -103.745594 (TVD: 8450 feet, MD: 21883 feet)

CONFIDENTIAL

32-18-32-F Sundry ID 2887042 Bond 32-34 Fed Com 102H Lea NM18232 PBEX Operations LLC 13-22h 11-14-2024 LV.xlsm

Bond 32-34 Fed Com 103H

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors					Surface			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	54.50		j 55	btc	12.91	2.16	1.14	1,213	5	1.94	4.41	66,109
"B"				btc				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,382												
				Tail Cmt	does not	circ to sfc.	Totals:	1,213				66,109
Comparison of Proposed to Minimum Required Cement Volumes												
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	1273	1820	843	116	8.30	1405	2M				1.56
Site plot (pipe racks 3 or 4) as per D.O.D. 10.4.1 not found												

9 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		hcl 80	btc	5.05	1.76	1.36	4,535	2	2.41	3.01	181,400
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	4,535			181,400
The cement volume(s) are intended to achieve a top of 0 ft from surface or a								1213				overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
12 1/4	0.3132	1141	2969	1480	101	10.20	2390	3M				0.81
D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								1141	2969			101
Class 'H' tail cmt yld > 1.20												

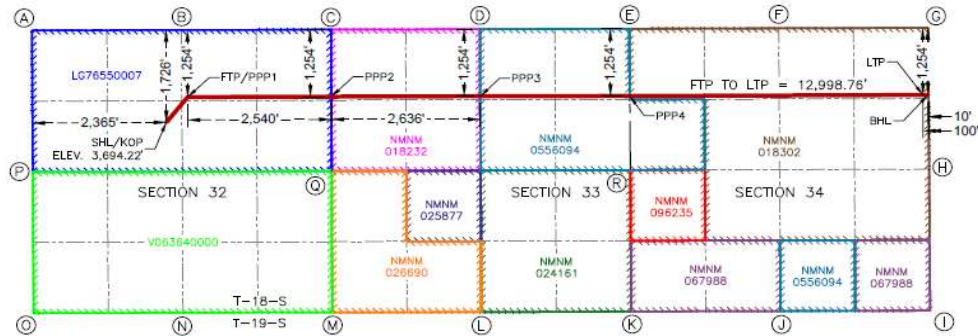
5 1/2	casing inside the		9 5/8		Design Factors				Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	20.00		p 110	freedom	3.81	2.62	3.15	21,818	3	5.59	4.64	436,360
"B"							0				0	
"C"							0				0	
"D"							0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,852								Totals:	21,818		436,360	
The cement volume(s) are intended to achieve a top of								4335	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg	
8 3/4	0.2526	3830	5395	4418	22	9.70					1.23	
Class 'C' tail cmt yld > 1.35												

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

PPP Changes

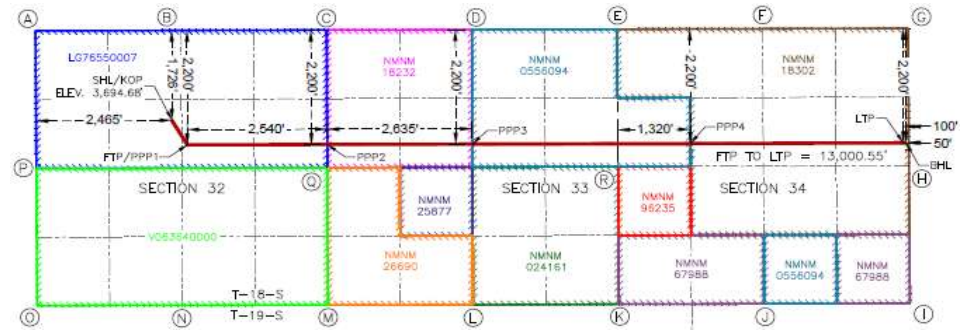
Original- Grey
New- Blue

Original: Bond 33-34 Fed Com 102H



Original- SHL	32-18S-32E	1726 FNL & 2365 FWL	LG76550007
Original- KOP	32-18S-32E	1726 FNL & 2365 FWL	LG76550007
Original- FTP	32-18S-32E	1254 FNL & 2540 FEL	LG76550007
Original- PPP2	33-18S-32E	1254 FNL & 0 FWL	NMNM018232
Original- PPP3	33-18S-32E	1254 FNL & 2636 FEL	NMNM0556094
Original- PPP4	34-18S-32E	1254 FNL & 0 FWL	NMNM018302
Original- LTP	34-18S-32E	1254 FNL & 100 FEL	NMNM018302
Original- BHL	34-18S-32E	1254 FNL & 10 FEL	NMNM018302

New: Bond 33-34 Fed Com 103H



New-SHL	32-18S-32E	1633 FNL & 2217 FWL	LG76550007
New-KOP	32-18S-32E	1633 FNL & 2217 FWL	LG76550007
New-FTP	32-18S-32E	2130 FNL & 2540 FEL	LG76550007
New-PPP2	33-18S-32E	2130 FNL & 0 FWL	NMNM018232
New-PPP3	33-18S-32E	2130 FNL & 2635 FEL	NMNM0556094
New-PPP4	34-18S-32E	2130 FNL & 1320 FWL	NMNM018302
New-LTP	34-18S-32E	2310 FNL & 100 FEL	NMNM018302
New-BHL	34-18S-32E	2310 FNL & 50 FEL	NMNM018302

Notice of Intent to Change Drill Plan

Bond 32-34 Fed Com 102H**Bond 32-34 Fed Com 103H**

Original Design in Grey

New Design in Blue

Target Zone: BS1 Avalon

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	21883	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	4535	L80HC	40	BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2	API	no	0	21818	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	2615	1.68	4393.5	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
Production	Lead	4035	380	3.03	1152.2	10.5	20%	H	Fluid Loss, Retarder, LCM
	Tail	7820	3,450	1.23	4243.0	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	21883	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	21818	Oil Based Mud	9.7	35-65	4 to 6

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 30-025-55810	Pool Code 50600 50510	Pool Name QUERECH PLAINS, LOWER BONE SPRING QUERECHO PLAINS, UPPER BS
Property Code 338334	Property Name BOND 32-34 FED COM	Well Number #103H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,693'
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
F	32	18S	32E		1,633' FNL	2,217' FWL	32.706795°	-103.789863°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	34	18S	32E		2,310' FNL	50' FEL	32.705339°	-103.745721°	LEA

Dedicated Acres 320	Infill or Defining Well Infill	Defining Well API n/a	Overlapping Spacing Unit (Y/N) N	Consolidation Code n/a
Order Numbers. R-23685			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

BOND 33-34 FED COM 301H- Defining Well

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	32	18S	32E		1,633' FNL	2,217' FWL	32.706795°	-103.789863°	LEA

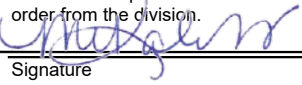
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	32	18S	32E		2,130' FNL	2,540' FEL	32.705426°	-103.788148°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	34	18S	32E		2,310' FNL	100' FEL	32.705339°	-103.745884°	LEA

Unitized Area or Area of Uniform Interest n/a	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,693
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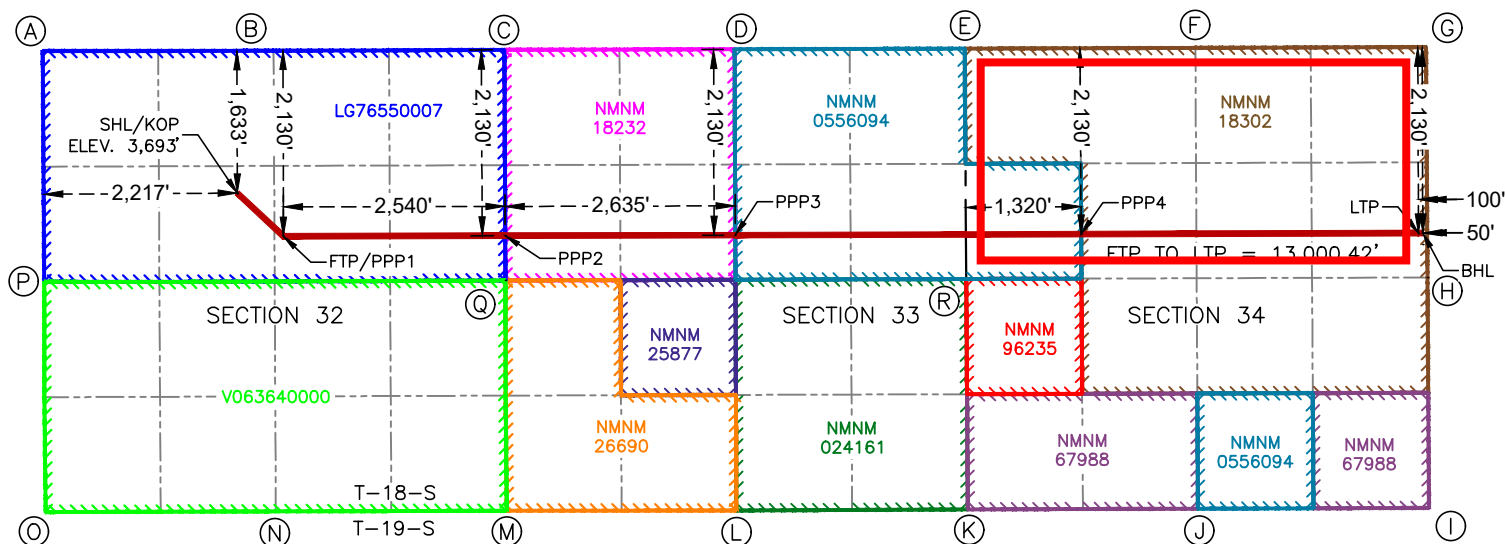
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 Signature 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.  Date: 11/26/2025 Signature and Seal of Professional Surveyor Certificate Number 12177 Date of Survey 11/26/2025 Revision Number 2	
--	--	--	--

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 32-34 FED COM #103H**

SURFACE HOLE LOCATION
& KICK-OFF POINT
1,633' FNL & 2,217' FWL
ELEV. = 3,693'

NAD 83 X = 708,502.68'
NAD 83 Y = 621,291.80'
NAD 83 LAT = 32.706795°
NAD 83 LONG = -103.789863°

FIRST TAKE POINT &
PENETRATION POINT 1
2,130' FNL & 2,540' FEL

NAD 83 X = 709,032.94'
NAD 83 Y = 620,796.25'
NAD 83 LAT = 32.705426°
NAD 83 LONG = -103.788148°

PENETRATION POINT 2
2,130' FNL & 0' FWL

NAD 83 X = 711,572.93'
NAD 83 Y = 620,803.14'
NAD 83 LAT = 32.705408°
NAD 83 LONG = -103.779890°

PENETRATION POINT 3
2,130' FNL & 2,635' FWL

NAD 83 X = 714,208.30'
NAD 83 Y = 620,809.81'
NAD 83 LAT = 32.705389°
NAD 83 LONG = -103.771323°

PENETRATION POINT 4
2,130' FNL & 1,320' FWL
NAD 83 X = 718,170.03'
NAD 83 Y = 620,821.03'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.758443°

LAST TAKE POINT
2,130' FNL & 100' FEL
NAD 83 X = 722,033.30'
NAD 83 Y = 620,834.25'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.745884°

BOTTOM HOLE LOCATION
2,130' FNL & 50' FEL
NAD 83 X = 722,083.30'
NAD 83 Y = 620,834.42'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.745721°

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

API Number 30-025-55810	Pool Code 41450	Pool Name LUSK; BONE SPRING, NORTH
Property Code 338334	Property Name BOND 32-34 FED COM	Well Number #103H
OGRID No. 332544	Operator Name PBEX OPERATIONS, LLC	Ground Level Elevation 3,693'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL F	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,633' FNL	Ft. from E/W 2,217' FWL	Latitude 32.706795°	Longitude -103.789863°	County LEA
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Bottom Hole Location

UL H	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,310' FNL	Ft. from E/W 50' FEL	Latitude 32.705339°	Longitude -103.745721°	County LEA
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Dedicated Acres 480	Infill or Defining Well Infill	Defining Well API n/a	Overlapping Spacing Unit (Y/N) N	Consolidation Code n/a
Order Numbers. R-23685			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

BOND 33-34 FED COM 301H- Defining Well

Kick Off Point (KOP)

UL F	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 1,633' FNL	Ft. from E/W 2,217' FWL	Latitude 32.706795°	Longitude -103.789863°	County LEA
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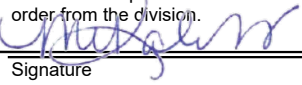
First Take Point (FTP)

UL G	Section 32	Township 18S	Range 32E	Lot	Ft. from N/S 2,130' FNL	Ft. from E/W 2,540' FEL	Latitude 32.705426°	Longitude -103.788148°	County LEA
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Last Take Point (LTP)

UL H	Section 34	Township 18S	Range 32E	Lot	Ft. from N/S 2,310' FNL	Ft. from E/W 100' FEL	Latitude 32.705339°	Longitude -103.745884°	County LEA
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Unitized Area or Area of Uniform Interest n/a	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,693
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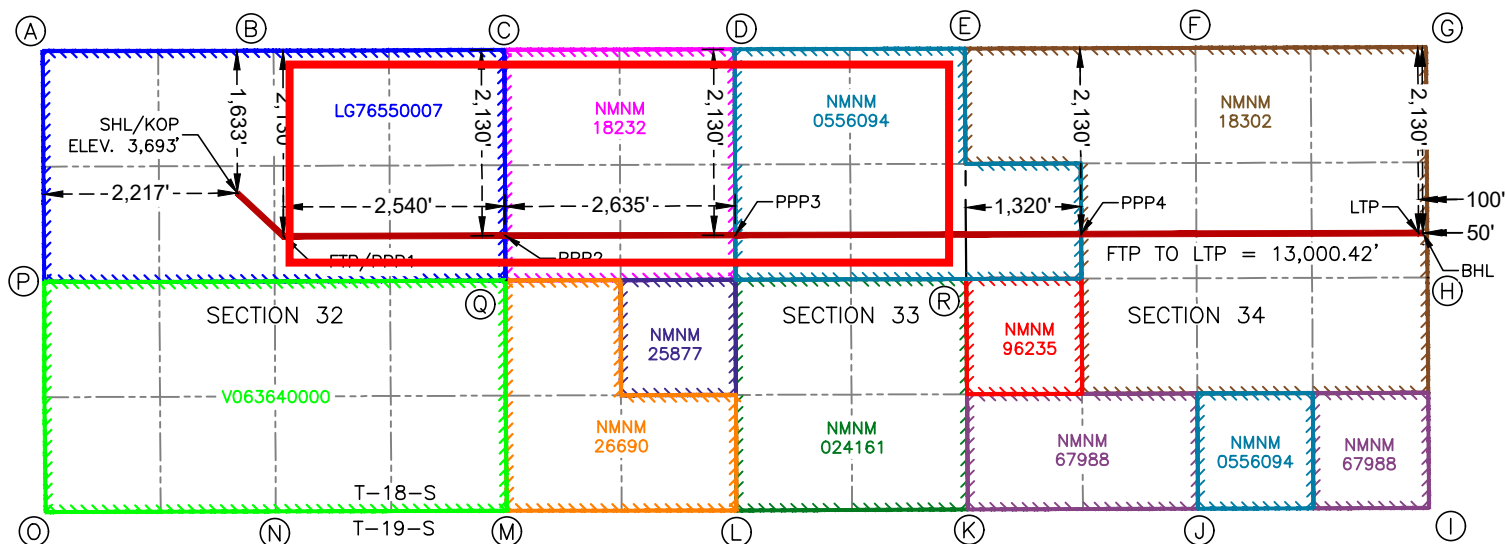
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 Signature Date		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: 11/26/2025 Signature and Seal of Professional Surveyor	
Mikah Thomas Printed Name mikah@pbex.com Email Address		Certificate Number 12177	Date of Survey 11/26/2025
		Revision Number 2	

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 32-34 FED COM #103H**

SURFACE HOLE LOCATION
& KICK-OFF POINT
1,633' FNL & 2,217' FWL
ELEV. = 3,693'

NAD 83 X = 708,502.68'
NAD 83 Y = 621,291.80'
NAD 83 LAT = 32.706795°
NAD 83 LONG = -103.789863°

FIRST TAKE POINT &
PENETRATION POINT 1
2,130' FNL & 2,540' FEL

NAD 83 X = 709,032.94'
NAD 83 Y = 620,796.25'
NAD 83 LAT = 32.705426°
NAD 83 LONG = -103.788148°

PENETRATION POINT 2
2,130' FNL & 0' FWL

NAD 83 X = 711,572.93'
NAD 83 Y = 620,803.14'
NAD 83 LAT = 32.705408°
NAD 83 LONG = -103.779890°

PENETRATION POINT 3
2,130' FNL & 2,635' FWL

NAD 83 X = 714,208.30'
NAD 83 Y = 620,809.81'
NAD 83 LAT = 32.705389°
NAD 83 LONG = -103.771323°

PENETRATION POINT 4
2,130' FNL & 1,320' FWL
NAD 83 X = 718,170.03'
NAD 83 Y = 620,821.03'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.758443°

LAST TAKE POINT
2,130' FNL & 100' FEL
NAD 83 X = 722,033.30'
NAD 83 Y = 620,834.25'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.745884°

BOTTOM HOLE LOCATION
2,130' FNL & 50' FEL
NAD 83 X = 722,083.30'
NAD 83 Y = 620,834.42'
NAD 83 LAT = 32.705339°
NAD 83 LONG = -103.745721°

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'



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

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

UNCONTROLLED

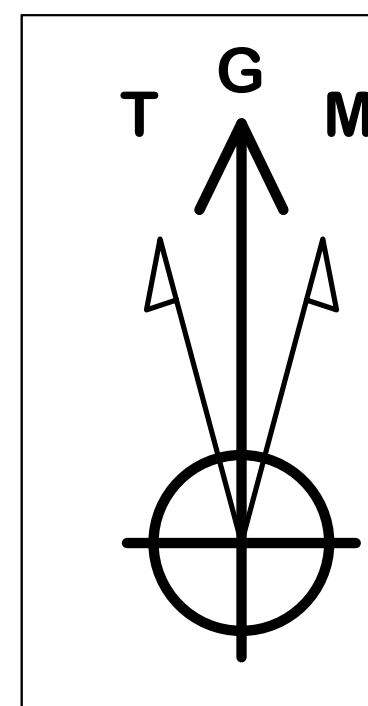
UNCONTROLLED

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

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



PROJECT DETAILS: Lea County, NM (N83 - NME)
Well Name: (03) Bond 32-34 FED COM #103H
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 @ 3723.50usft
Elevation: 3693.00
To convert a Magnetic Direction to a Grid Direction, Add 6.057°



Azimuths to Grid North
True North: -0.29°
Magnetic North: 6.06°

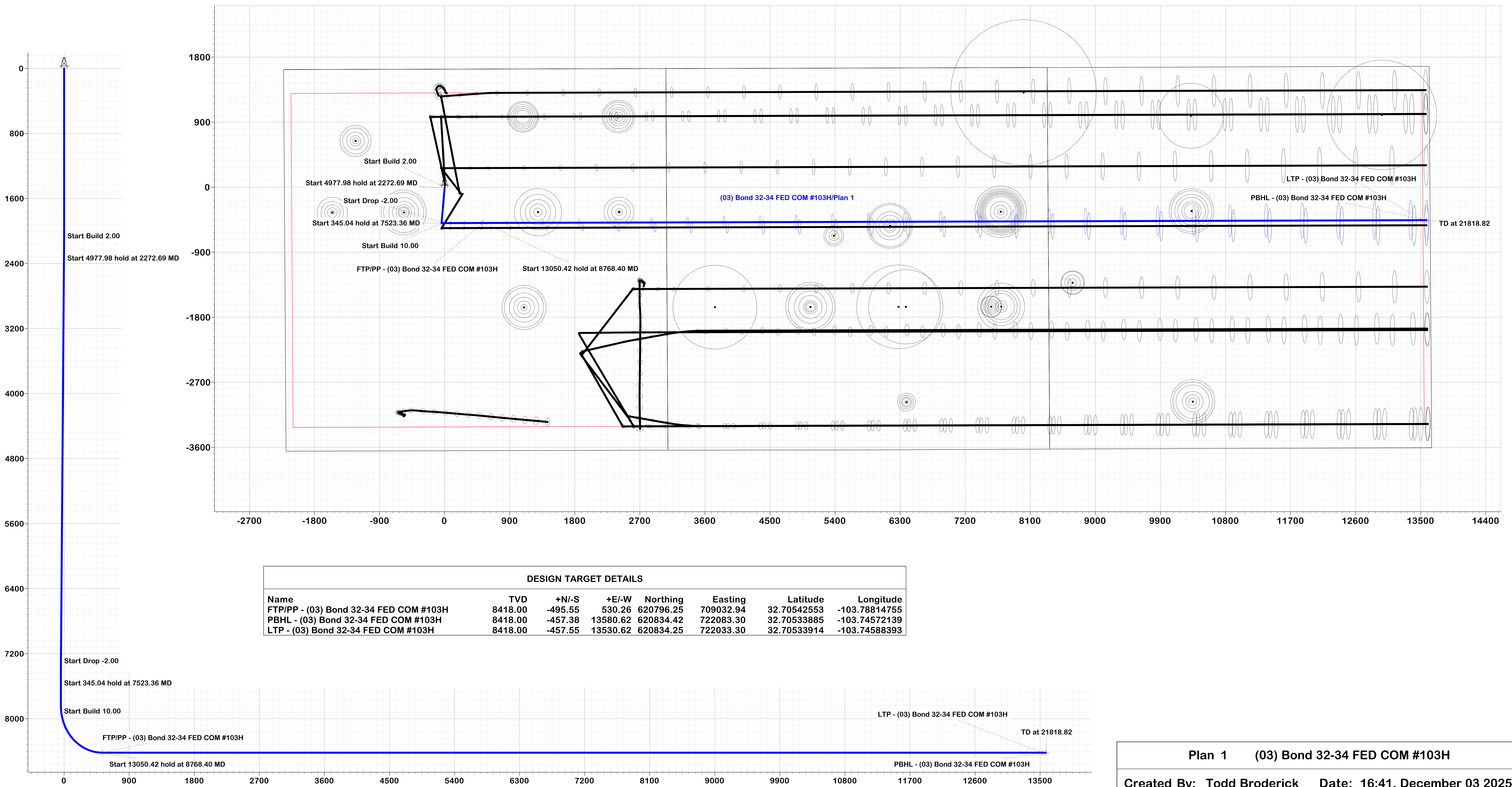
Magnetic Field
Strength: 47228.6nT
Dip Angle: 60.14°
Date: 12/2/2025
Model: IGRF2025



PBEX
Site: Bond North Pad - Phase 2
Well: (03) Bond 32-34 FED COM #103H
Wellbore: #103H
Plan: Plan 1

WELL DETAILS: (03) Bond 32-34 FED COM #103H					
0.00	0.00	Northing	Easting	Latitude	Longitude
		621291.80	708502.68	32.70679507	-103.78986313

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00
3	2272.69	5.45	184.91	2272.28	-12.92	-1.11	2.00	184.908	-1.15
4	7250.67	5.45	184.91	7227.72	-484.31	-41.59	0.00	0.000	-43.02
5	7523.36	0.00	89.83	7500.00	-497.23	-42.70	2.00	180.000	-44.17
6	7868.40	0.00	89.83	7845.04	-497.23	-42.70	0.00	0.000	-44.17
7	8768.40	90.00	89.83	8418.00	-495.55	530.26	10.00	0.000	528.79
8	21818.82	90.00	89.83	8418.00	-457.38	13580.62	0.00	0.000	13579.20



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP/PP - (03) Bond 32-34 FED COM #103H	8418.00	-495.55	530.26	620796.25	709032.94	32.70542553	-103.78814755
PBHL - (03) Bond 32-34 FED COM #103H	8418.00	-457.38	13580.62	620834.42	722083.30	32.70533885	-103.74572139
LTP - (03) Bond 32-34 FED COM #103H	8418.00	-457.55	13530.62	620834.25	722033.30	32.70533914	-103.74588393

Plan 1 (03) Bond 32-34 FED COM #103H
Created By: Todd Broderick Date: 16:41, December 03 2025

Vertical Section at 89.83° (450 usft/in)



PBEX

Lea County, NM (N83 - NME)

Bond North Pad - Phase 2

(03) Bond 32-34 FED COM #103H

TBD

#103H

Plan 1

Anticollision Report

03 December, 2025

DIXON



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	12/3/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	21,818.55	Plan 1 (#103H)	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	7,583.99	7,596.19	69.70	26.37	1.609	Level 3, CC, ES
(01) Bond 32-34 FED COM 205H - 205H - Plan 2	8,000.00	8,011.05	71.57	26.77	1.598	Level 3, SF
(02) Bond 32-34 FED COM 301H - 301H - Plan 2	3,246.78	3,253.59	209.30	194.75	14.379	CC, ES
(02) Bond 32-34 FED COM 301H - 301H - Plan 2	21,818.82	23,573.59	1,913.28	1,612.29	6.357	SF
(03) Bond 32-34 FED COM 201H - 201H - Plan 2	2,620.72	2,630.21	200.92	188.25	15.854	CC, ES
(03) Bond 32-34 FED COM 201H - 201H - Plan 2	21,818.82	22,928.71	2,030.34	1,523.32	4.004	SF
Bond North Pad - Phase 2						
(01) Bond 32-34 FED COM #303H - #303H - Plan 1	2,000.00	2,000.00	40.53	29.41	3.645	CC, ES, SF
(02) Bond 32-34 FED COM #101H - #101H - Plan 1	2,000.00	2,000.00	20.26	9.14	1.822	Level 3, CC, ES, SF
Bond Pad Offsets						
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)	230.28	211.79	1,302.22	1,298.14	319.060	CC
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)	1,800.00	1,774.55	1,307.96	1,293.46	90.179	ES
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)	8,400.00	8,276.27	1,917.19	1,859.76	33.379	SF
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	10,935.67	8,396.03	802.69	713.60	9.010	CC, ES
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	11,000.00	8,395.07	805.26	715.11	8.932	SF
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)						Out of range
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	16,921.21	7,225.00	1,454.13	1,231.53	6.532	CC
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	16,921.68	7,225.00	1,454.13	1,231.52	6.532	ES
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644	17,100.00	7,225.00	1,465.08	1,239.54	6.496	SF
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	15,928.30	8,410.82	134.71	-252.23	0.348	Level 3, CC, ES, SF
(W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)	15,931.50	8,395.76	1,177.66	799.06	3.111	CC, ES
(W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)	16,000.00	8,395.76	1,179.65	799.88	3.106	SF
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)						Out of range
(W08) HULKSTER 001 - 38446 - (Inc Only)	2,000.00	1,987.55	1,389.30	1,338.95	27.595	CC
(W08) HULKSTER 001 - 38446 - (Inc Only)	2,200.00	2,190.63	1,392.34	1,337.12	25.214	ES
(W08) HULKSTER 001 - 38446 - (Inc Only)	8,000.00	7,963.86	1,657.26	1,472.18	8.954	SF
(W09) HULKSTER 002 - 38844 - (Inc Only)	7,153.19	7,122.07	1,518.61	1,355.40	9.305	CC
(W09) HULKSTER 002 - 38844 - (Inc Only)	7,900.00	7,868.24	1,519.55	1,337.63	8.353	ES
(W09) HULKSTER 002 - 38844 - (Inc Only)	8,000.00	7,969.40	1,533.68	1,348.50	8.282	SF
(W10) HULKSTER 003 - 39570 - (Inc Only)	2,000.00	1,997.58	1,456.55	1,369.83	16.795	CC
(W10) HULKSTER 003 - 39570 - (Inc Only)	9,326.36	8,416.69	1,466.89	1,243.23	6.559	ES
(W10) HULKSTER 003 - 39570 - (Inc Only)	9,500.00	8,416.69	1,477.13	1,251.15	6.537	SF
(W11) HULKSTER 004 - 39571 - (Inc Only)	10,644.99	8,426.91	1,465.49	1,212.65	5.796	CC, ES
(W11) HULKSTER 004 - 39571 - (Inc Only)	10,800.00	8,426.91	1,473.67	1,218.25	5.770	SF
(W12) HULKSTER 005 - 39572 - (Inc Only)	10,650.46	8,415.67	145.73	-88.67	0.622	Level 3, CC, 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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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						
(W13) KEELA FEDERAL 002 - 33339 - (Inc Only)						Out of range
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	14,396.29	8,411.19	55.27	-261.67	0.174	Level 3, CC, ES, SF
(W15) KEELA FEDERAL 004 - 33499 - (Inc Only)						Out of range
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	9,332.25	8,410.73	1,171.54	955.38	5.420	CC, ES
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	9,400.00	8,410.73	1,173.49	956.45	5.407	SF
(W17) MAX STATE 001 - 26754 - (Inc Only)	9,528.63	8,404.51	148.74	-84.70	0.637	Level 3, CC, ES, SF
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	18,568.45	8,420.90	135.42	-283.91	0.323	Level 3, CC, ES, SF
(W19) SPEAR FEDERAL 001 - 33645 - (Inc Only)						Out of range
(W20) SUPERIOR FEDERAL 001 - 24277 - (Inc Only)						Out of range
(W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)	13,293.72	8,404.18	1,173.23	862.83	3.780	CC
(W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)	13,300.00	8,404.18	1,173.25	862.72	3.778	ES
(W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)	13,400.00	8,404.18	1,178.04	865.87	3.774	SF
(W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)	6,315.20	6,298.06	534.29	387.42	3.638	CC
(W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)	7,900.00	7,879.03	544.99	359.92	2.945	ES, SF
(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)						Out of range
(W26) STATE EC 001 - 00885 - (Depth Only)						Out of range
(W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)	21,205.17	7,160.00	1,928.08	1,144.22	2.460	CC
(W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)	21,221.58	7,160.00	1,928.15	1,144.02	2.459	ES
(W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)	21,319.44	7,160.00	1,931.46	1,145.36	2.457	SF
Bond South Pad - Phase 1						
(01) Bond 32-34 FED COM 207H - 207H - Plan 2	10,839.30	8,494.68	1,520.62	1,448.55	21.098	CC
(01) Bond 32-34 FED COM 207H - 207H - Plan 2	21,818.82	20,175.76	1,791.07	1,347.69	4.040	ES, SF
(02) Bond 32-34 FED COM 211H - 211H - Plan 2						Out of range
Bond South Pad - Phase 2						
(01) Bond 33-34 FED COM #306H - #306H - Plan 1						Out of range
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	10,837.54	8,541.58	920.62	838.78	11.249	CC, ES
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	21,818.82	21,043.31	1,991.54	1,694.22	6.698	SF
(03) Bond 33-34 FED COM #106H - #106H - Plan 1						Out of range
(04) Bond 33-34 FED COM #104H - #104H - Plan 1	21,818.82	19,290.94	1,500.02	989.35	2.937	CC, ES, SF

Offset Design:	Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												Offset Site Error:	0.00 usft
Survey Program:	0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.68	1.68	0.00	0.01	110.330	-92.18	248.79	265.32					
100.00	100.00	101.68	101.68	0.79	0.80	110.330	-92.18	248.79	265.32	263.74	1.58	167.669		
200.00	200.00	201.68	201.68	1.45	1.45	110.330	-92.18	248.79	265.32	262.42	2.90	91.499		
300.00	300.00	301.68	301.68	1.89	1.90	110.330	-92.18	248.79	265.32	261.53	3.79	70.015		
400.00	400.00	401.68	401.68	2.25	2.26	110.330	-92.18	248.79	265.32	260.81	4.51	58.794		
500.00	500.00	501.68	501.68	2.57	2.57	110.330	-92.18	248.79	265.32	260.18	5.14	51.617		
600.00	600.00	601.68	601.68	2.85	2.85	110.330	-92.18	248.79	265.32	259.61	5.70	46.518		
700.00	700.00	701.68	701.68	3.11	3.11	110.330	-92.18	248.79	265.32	259.10	6.22	42.653		
800.00	800.00	801.68	801.68	3.35	3.35	110.330	-92.18	248.79	265.32	258.62	6.70	39.591		
900.00	900.00	901.68	901.68	3.58	3.58	110.330	-92.18	248.79	265.32	258.16	7.15	37.087		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	
1,000.00	1,000.00	1,001.68	1,001.68	3.79	3.79	110.330	-92.18	248.79	265.32	257.74	7.58	34.989	
1,100.00	1,100.00	1,101.68	1,101.68	3.99	4.00	110.330	-92.18	248.79	265.32	257.33	7.99	33.197	
1,200.00	1,200.00	1,201.68	1,201.68	4.19	4.19	110.330	-92.18	248.79	265.32	256.93	8.38	31.643	
1,300.00	1,300.00	1,301.68	1,301.68	4.38	4.38	110.330	-92.18	248.79	265.32	256.56	8.76	30.278	
1,400.00	1,400.00	1,401.68	1,401.68	4.56	4.57	110.330	-92.18	248.79	265.32	256.19	9.13	29.066	
1,500.00	1,500.00	1,501.68	1,501.68	4.74	4.74	110.330	-92.18	248.79	265.32	255.84	9.48	27.981	
1,600.00	1,600.00	1,601.68	1,601.68	4.91	4.91	110.330	-92.18	248.79	265.32	255.49	9.83	27.001	
1,700.00	1,700.00	1,701.68	1,701.68	5.08	5.08	110.330	-92.18	248.79	265.32	255.16	10.16	26.111	
1,800.00	1,800.00	1,801.68	1,801.68	5.24	5.25	110.330	-92.18	248.79	265.32	254.83	10.49	25.298	
1,900.00	1,900.00	1,901.68	1,901.68	5.40	5.40	110.330	-92.18	248.79	265.32	254.51	10.81	24.550	
2,000.00	2,000.00	2,001.68	2,001.68	5.56	5.56	110.330	-92.18	248.79	265.32	254.20	11.12	23.860	
2,100.00	2,099.98	2,101.66	2,101.66	5.78	5.71	-74.950	-92.18	248.79	264.86	253.45	11.41	23.217	
2,200.00	2,199.84	2,201.52	2,201.52	5.98	5.86	-76.073	-92.18	248.79	263.55	251.88	11.67	22.590	
2,300.00	2,299.46	2,301.14	2,301.14	6.09	6.01	-77.919	-92.18	248.79	261.61	249.75	11.86	22.062	
2,400.00	2,399.01	2,400.69	2,400.69	6.26	6.16	-79.960	-92.18	248.79	259.78	247.67	12.11	21.453	
2,500.00	2,498.56	2,500.25	2,500.25	6.45	6.30	-82.027	-92.18	248.79	258.28	245.93	12.35	20.907	
2,600.00	2,598.11	2,603.01	2,602.99	6.65	6.50	-83.798	-93.76	247.82	256.50	243.92	12.59	20.380	
2,700.00	2,697.65	2,706.14	2,705.96	6.87	6.69	-84.824	-98.50	244.92	253.63	240.84	12.80	19.821	
2,800.00	2,797.20	2,809.36	2,808.76	7.10	6.89	-85.085	-106.41	240.07	249.50	236.49	13.00	19.187	
2,900.00	2,896.75	2,910.73	2,909.39	7.35	6.99	-84.668	-116.82	233.69	244.24	231.08	13.15	18.567	
3,000.00	2,996.30	3,010.57	3,008.45	7.61	7.17	-84.150	-127.42	227.19	238.85	225.48	13.37	17.865	
3,100.00	3,095.84	3,110.40	3,107.50	7.89	7.36	-83.609	-138.01	220.70	233.48	219.89	13.59	17.181	
3,200.00	3,195.39	3,210.23	3,206.56	8.17	7.57	-83.042	-148.60	214.21	228.14	214.32	13.81	16.514	
3,300.00	3,294.94	3,310.06	3,305.61	8.46	7.80	-82.448	-159.20	207.72	222.82	208.77	14.04	15.865	
3,400.00	3,394.49	3,409.89	3,404.67	8.76	8.04	-81.825	-169.79	201.22	217.52	203.24	14.28	15.235	
3,500.00	3,494.03	3,509.72	3,503.72	9.07	8.30	-81.171	-180.38	194.73	212.25	197.74	14.52	14.622	
3,600.00	3,593.58	3,609.55	3,602.78	9.38	8.57	-80.484	-190.97	188.24	207.01	192.26	14.76	14.027	
3,700.00	3,693.13	3,709.38	3,701.83	9.70	8.86	-79.761	-201.57	181.75	201.81	186.80	15.00	13.449	
3,800.00	3,792.67	3,809.21	3,800.89	10.03	9.15	-79.000	-212.16	175.25	196.63	181.38	15.26	12.889	
3,900.00	3,892.22	3,909.05	3,899.94	10.36	9.45	-78.198	-222.75	168.76	191.49	175.98	15.51	12.346	
4,000.00	3,991.77	4,008.88	3,999.00	10.69	9.76	-77.353	-233.35	162.27	186.39	170.62	15.77	11.819	
4,100.00	4,091.32	4,108.71	4,098.05	11.03	10.09	-76.459	-243.94	155.78	181.34	165.30	16.04	11.307	
4,200.00	4,190.86	4,208.54	4,197.11	11.37	10.41	-75.515	-254.53	149.28	176.33	160.02	16.31	10.811	
4,300.00	4,290.41	4,308.37	4,296.16	11.72	10.75	-74.516	-265.13	142.79	171.37	154.78	16.59	10.329	
4,400.00	4,389.96	4,408.20	4,395.22	12.07	11.09	-73.458	-275.72	136.30	166.47	149.58	16.88	9.861	
4,500.00	4,489.51	4,508.03	4,494.27	12.42	11.43	-72.336	-286.31	129.81	161.62	144.44	17.18	9.406	
4,600.00	4,589.05	4,607.86	4,593.33	12.77	11.78	-71.146	-296.91	123.31	156.84	139.35	17.50	8.963	
4,700.00	4,688.60	4,707.69	4,692.38	13.13	12.14	-69.881	-307.50	116.82	152.14	134.31	17.83	8.533	
4,800.00	4,788.15	4,807.52	4,791.44	13.49	12.50	-68.536	-318.09	110.33	147.51	129.33	18.18	8.113	
4,900.00	4,887.70	4,907.36	4,890.49	13.85	12.86	-67.106	-328.69	103.84	142.97	124.41	18.56	7.705	
5,000.00	4,987.24	5,007.19	4,989.55	14.21	13.23	-65.582	-339.28	97.34	138.52	119.57	18.96	7.307	
5,100.00	5,086.79	5,107.02	5,088.60	14.58	13.60	-63.959	-349.87	90.85	134.18	114.79	19.39	6.919	
5,200.00	5,186.34	5,206.85	5,187.66	14.95	13.97	-62.229	-360.47	84.36	129.96	110.09	19.87	6.541	
5,300.00	5,285.88	5,306.68	5,286.71	15.31	14.34	-60.384	-371.06	77.87	125.86	105.47	20.39	6.173	
5,400.00	5,385.43	5,406.51	5,385.77	15.68	14.72	-58.418	-381.65	71.37	121.89	100.93	20.96	5.815	
5,500.00	5,484.98	5,506.34	5,484.82	16.05	15.10	-56.323	-392.25	64.88	118.09	96.49	21.60	5.467	
5,600.00	5,584.53	5,606.17	5,583.88	16.43	15.48	-54.091	-402.84	58.39	114.45	92.14	22.30	5.131	
5,700.00	5,684.07	5,706.00	5,682.93	16.80	15.87	-51.717	-413.43	51.90	110.99	87.90	23.09	4.807	
5,800.00	5,783.62	5,805.84	5,781.99	17.17	16.25	-49.196	-424.02	45.40	107.74	83.78	23.96	4.497	
5,900.00	5,883.17	5,905.67	5,881.04	17.55	16.64	-46.523	-434.62	38.91	104.71	79.79	24.92	4.202	
6,000.00	5,982.72	6,005.50	5,980.10	17.92	17.03	-43.698	-445.21	32.42	101.92	75.94	25.98	3.924	
6,100.00	6,082.26	6,105.33	6,079.15	18.30	17.42	-40.723	-455.80	25.92	99.39	72.26	27.13	3.664	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
6,200.00	6,181.81	6,205.16	6,178.21	18.68	17.82	-37.601	-466.40	19.43	97.15	68.77	28.38	3.423	
6,300.00	6,281.36	6,304.99	6,277.26	19.06	18.21	-34.343	-476.99	12.94	95.20	65.49	29.71	3.204	
6,400.00	6,380.91	6,404.82	6,376.31	19.43	18.61	-30.960	-487.58	6.45	93.58	62.46	31.12	3.007	
6,500.00	6,480.45	6,504.65	6,475.37	19.81	19.00	-27.471	-498.18	-0.05	92.30	59.71	32.59	2.833	
6,600.00	6,580.00	6,604.48	6,574.42	20.20	19.40	-23.898	-508.77	-6.54	91.37	57.28	34.09	2.680	
6,700.00	6,679.55	6,704.31	6,673.48	20.58	19.80	-20.266	-519.36	-13.03	90.80	55.19	35.60	2.550	
6,800.00	6,779.09	6,804.15	6,772.53	20.96	20.20	-16.603	-529.96	-19.52	90.60	53.49	37.11	2.441	
6,803.48	6,782.56	6,807.62	6,775.98	20.97	20.21	-16.476	-530.33	-19.75	90.60	53.44	37.16	2.438	
6,900.00	6,878.64	6,903.98	6,871.59	21.34	20.60	-12.939	-540.55	-26.02	90.77	52.19	38.58	2.353	
7,000.00	6,978.19	7,004.53	6,971.38	21.72	20.99	-9.328	-551.10	-32.48	91.21	51.23	39.97	2.282	
7,100.00	7,077.74	7,107.11	7,073.47	22.11	21.40	-6.612	-559.58	-37.68	89.78	48.62	41.16	2.181	
7,200.00	7,177.28	7,209.65	7,175.81	22.49	21.77	-5.058	-564.93	-40.96	85.48	43.42	42.06	2.032	
7,300.00	7,276.87	7,311.91	7,278.03	22.85	22.06	-4.649	-567.15	-42.32	78.60	35.94	42.66	1.843 Level 3	
7,400.00	7,376.68	7,412.24	7,378.36	23.22	22.10	-4.993	-567.23	-42.37	72.65	29.67	42.98	1.690 Level 3	
7,500.00	7,476.64	7,512.20	7,478.32	23.51	22.13	-5.171	-567.23	-42.37	70.10	26.82	43.28	1.620 Level 3	
7,583.99	7,560.63	7,596.19	7,562.31	23.55	22.15	-5.200	-567.23	-42.37	69.70	26.37	43.33	1.609 Level 3, CC, ES	
7,600.00	7,576.64	7,612.20	7,578.32	23.55	22.16	179.730	-567.23	-42.37	70.00	26.66	43.35	1.615 Level 3	
7,700.00	7,676.64	7,712.20	7,678.32	23.57	22.19	179.730	-567.23	-42.37	70.00	26.60	43.40	1.613 Level 3	
7,800.00	7,776.64	7,812.20	7,778.32	23.60	22.22	179.730	-567.23	-42.37	70.00	26.54	43.46	1.611 Level 3	
7,821.31	7,797.95	7,833.51	7,799.63	23.60	22.22	90.000	-567.23	-42.37	70.00	26.51	43.49	1.610 Level 3	
7,900.00	7,876.63	7,912.18	7,878.31	23.62	22.25	90.610	-567.23	-42.37	70.01	26.37	43.63	1.604 Level 3	
8,000.00	7,975.49	8,011.05	7,977.17	23.60	22.28	101.726	-567.23	-42.37	71.57	26.77	44.80	1.598 Level 3, SF	
8,100.00	8,070.39	8,105.94	8,072.07	23.59	22.30	121.167	-567.23	-42.37	83.79	40.29	43.50	1.926 Level 3	
8,200.00	8,158.44	8,194.00	8,160.12	23.60	22.33	138.097	-567.23	-42.37	116.55	77.74	38.81	3.003	
8,300.00	8,236.97	8,272.53	8,238.65	23.65	22.35	148.219	-567.23	-42.37	169.97	135.17	34.81	4.883	
8,400.00	8,303.59	8,339.15	8,305.27	23.78	22.38	153.016	-567.23	-42.37	239.74	207.21	32.53	7.369	
8,500.00	8,356.28	8,391.83	8,357.96	24.04	22.39	153.732	-567.23	-42.37	321.85	290.51	31.34	10.269	
8,600.00	8,393.43	8,428.99	8,395.11	24.46	22.40	149.293	-567.23	-42.37	412.83	382.13	30.70	13.448	
8,700.00	8,413.92	8,449.48	8,415.60	25.04	22.41	130.646	-567.23	-42.37	509.43	479.10	30.33	16.797	
8,800.00	8,418.00	8,453.56	8,419.68	25.79	22.41	90.000	-567.23	-42.37	608.47	578.38	30.10	20.217	
8,900.00	8,418.00	8,453.56	8,419.68	26.68	22.41	90.000	-567.23	-42.37	707.90	677.96	29.94	23.643	
9,000.00	8,418.00	8,453.56	8,419.68	27.70	22.41	90.000	-567.23	-42.37	807.47	777.64	29.84	27.064	
9,100.00	8,418.00	8,453.56	8,419.68	28.83	22.41	90.000	-567.23	-42.37	907.14	877.38	29.76	30.479	
9,200.00	8,418.00	10,152.40	9,360.00	30.06	27.86	175.743	-564.29	962.06	942.92	906.45	36.47	25.852	
9,221.13	8,418.00	10,173.53	9,360.00	30.34	28.14	175.743	-564.23	983.20	942.92	906.29	36.63	25.739	
9,300.00	8,418.00	10,252.40	9,360.00	31.38	29.23	175.743	-564.00	1,062.06	942.92	905.68	37.24	25.319	
9,321.13	8,418.00	10,273.53	9,360.00	31.68	29.53	175.743	-563.93	1,083.20	942.92	905.51	37.41	25.203	
9,400.00	8,418.00	10,352.40	9,360.00	32.78	30.68	175.743	-563.70	1,162.06	942.92	904.86	38.06	24.773	
9,421.13	8,418.00	10,373.53	9,360.00	33.09	31.00	175.743	-563.64	1,183.19	942.92	904.68	38.24	24.656	
9,500.00	8,418.00	10,452.40	9,360.00	34.25	32.21	175.743	-563.41	1,262.06	942.92	903.99	38.93	24.221	
9,521.13	8,418.00	10,473.53	9,360.00	34.57	32.54	175.743	-563.35	1,283.19	942.92	903.80	39.12	24.103	
9,600.00	8,418.00	10,552.40	9,360.00	35.78	33.79	175.743	-563.12	1,362.06	942.92	903.08	39.84	23.666	
9,621.13	8,418.00	10,573.53	9,360.00	36.11	34.13	175.743	-563.06	1,383.19	942.92	902.88	40.04	23.548	
9,700.00	8,418.00	10,652.40	9,360.00	37.36	35.43	175.743	-562.82	1,462.06	942.92	902.12	40.80	23.111	
9,721.13	8,418.00	10,673.53	9,360.00	37.70	35.78	175.743	-562.76	1,483.19	942.92	901.91	41.01	22.994	
9,800.00	8,418.00	10,752.40	9,360.00	38.98	37.11	175.743	-562.53	1,562.06	942.92	901.13	41.79	22.561	
9,821.13	8,418.00	10,773.53	9,360.00	39.33	37.47	175.743	-562.47	1,583.19	942.92	900.91	42.01	22.445	
9,900.00	8,418.00	10,852.40	9,360.00	40.65	38.84	175.743	-562.24	1,662.06	942.92	900.10	42.82	22.018	
9,921.13	8,418.00	10,873.53	9,360.00	41.01	39.21	175.743	-562.18	1,683.19	942.92	899.87	43.05	21.904	
10,000.00	8,418.00	10,952.40	9,360.00	42.35	40.59	175.743	-561.95	1,762.06	942.92	899.03	43.89	21.484	
10,021.13	8,418.00	10,973.53	9,360.00	42.72	40.97	175.743	-561.89	1,783.19	942.92	898.80	44.12	21.372	
10,100.00	8,418.00	11,052.40	9,360.00	44.08	42.38	175.743	-561.65	1,862.06	942.92	897.94	44.99	20.960	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
10,121.13	8,418.00	11,073.53	9,360.00	44.45	42.76	175.743	-561.59	1,883.19	942.92	897.70	45.22	20.851		
10,200.00	8,418.00	11,152.40	9,360.00	45.84	44.19	175.743	-561.36	1,962.06	942.92	896.81	46.11	20.448		
10,221.13	8,418.00	11,173.53	9,360.00	46.22	44.58	175.743	-561.30	1,983.19	942.92	896.57	46.35	20.342		
10,300.00	8,418.00	11,252.40	9,360.00	47.63	46.03	175.743	-561.07	2,062.06	942.92	895.66	47.27	19.950		
10,321.13	8,418.00	11,273.53	9,360.00	48.01	46.42	175.743	-561.01	2,083.19	942.92	895.41	47.51	19.846		
10,400.00	8,418.00	11,352.40	9,360.00	49.44	47.88	175.743	-560.78	2,162.06	942.92	894.48	48.44	19.464		
10,421.13	8,418.00	11,373.53	9,360.00	49.82	48.28	175.743	-560.72	2,183.19	942.92	894.23	48.70	19.363		
10,500.00	8,418.00	11,452.40	9,360.00	51.27	49.76	175.743	-560.48	2,262.06	942.92	893.28	49.64	18.993		
10,521.13	8,418.00	11,473.53	9,360.00	51.66	50.15	175.743	-560.42	2,283.19	942.92	893.02	49.90	18.895		
10,600.00	8,418.00	11,552.40	9,360.00	53.11	51.64	175.743	-560.19	2,362.06	942.92	892.05	50.87	18.537		
10,621.13	8,418.00	11,573.53	9,360.00	53.51	52.04	175.743	-560.13	2,383.19	942.92	891.79	51.13	18.442		
10,700.00	8,418.00	11,652.40	9,360.00	54.97	53.55	175.743	-559.90	2,462.06	942.92	890.81	52.11	18.094		
10,721.13	8,418.00	11,673.53	9,360.00	55.37	53.95	175.743	-559.84	2,483.19	942.92	890.54	52.38	18.002		
10,800.00	8,418.00	11,752.40	9,360.00	56.85	55.46	175.743	-559.61	2,562.06	942.92	889.55	53.37	17.666		
10,821.13	8,418.00	11,773.53	9,360.00	57.25	55.87	175.743	-559.55	2,583.19	942.92	889.28	53.64	17.578		
10,900.00	8,418.00	11,852.40	9,360.00	58.74	57.39	175.743	-559.31	2,662.06	942.92	888.27	54.65	17.253		
10,921.13	8,418.00	11,873.53	9,360.00	59.14	57.79	175.743	-559.25	2,683.19	942.92	888.00	54.93	17.167		
11,000.00	8,418.00	11,952.40	9,360.00	60.64	59.32	175.743	-559.02	2,762.06	942.92	886.97	55.95	16.853		
11,021.13	8,418.00	11,973.53	9,360.00	61.04	59.73	175.743	-558.96	2,783.19	942.92	886.70	56.23	16.770		
11,100.00	8,418.00	12,052.40	9,360.00	62.55	61.26	175.743	-558.73	2,862.06	942.92	885.66	57.26	16.467		
11,121.13	8,418.00	12,073.53	9,360.00	62.96	61.68	175.743	-558.67	2,883.19	942.92	885.38	57.54	16.387		
11,200.00	8,418.00	12,152.40	9,360.00	64.47	63.22	175.743	-558.44	2,962.05	942.92	884.34	58.59	16.095		
11,221.13	8,418.00	12,173.53	9,360.00	64.88	63.63	175.743	-558.37	2,983.19	942.92	884.05	58.87	16.017		
11,300.00	8,418.00	12,252.40	9,360.00	66.40	65.18	175.743	-558.14	3,062.05	942.92	883.00	59.92	15.735		
11,321.13	8,418.00	12,273.53	9,360.00	66.81	65.59	175.743	-558.08	3,083.19	942.92	882.71	60.21	15.661		
11,400.00	8,418.00	12,352.40	9,360.00	68.34	67.14	175.743	-557.85	3,162.05	942.92	881.65	61.28	15.388		
11,421.13	8,418.00	12,373.53	9,360.00	68.75	67.56	175.743	-557.79	3,183.19	942.92	881.36	61.56	15.316		
11,500.00	8,418.00	12,452.40	9,360.00	70.29	69.12	175.743	-557.56	3,262.05	942.92	880.28	62.64	15.053		
11,521.13	8,418.00	12,473.53	9,360.00	70.70	69.53	175.743	-557.50	3,283.19	942.92	879.99	62.93	14.984		
11,600.00	8,418.00	12,552.40	9,360.00	72.24	71.09	175.743	-557.27	3,362.05	942.92	878.91	64.01	14.730		
11,621.13	8,418.00	12,573.53	9,360.00	72.66	71.51	175.743	-557.20	3,383.19	942.92	878.62	64.30	14.664		
11,700.00	8,418.00	12,652.40	9,360.00	74.20	73.08	175.743	-556.97	3,462.05	942.92	877.53	65.40	14.419		
11,721.13	8,418.00	12,673.53	9,360.00	74.62	73.50	175.743	-556.91	3,483.19	942.92	877.23	65.69	14.354		
11,800.00	8,418.00	12,752.40	9,360.00	76.17	75.07	175.743	-556.68	3,562.05	942.92	876.13	66.79	14.118		
11,821.13	8,418.00	12,773.53	9,360.00	76.58	75.49	175.743	-556.62	3,583.18	942.92	875.84	67.08	14.056		
11,900.00	8,418.00	12,852.40	9,360.00	78.14	77.06	175.743	-556.39	3,662.05	942.92	874.73	68.19	13.828		
11,921.13	8,418.00	12,873.53	9,360.00	78.55	77.48	175.743	-556.33	3,683.18	942.92	874.43	68.49	13.768		
12,000.00	8,418.00	12,952.40	9,360.00	80.11	79.06	175.743	-556.10	3,762.05	942.92	873.32	69.60	13.548		
12,021.13	8,418.00	12,973.53	9,360.00	80.53	79.48	175.743	-556.03	3,783.18	942.92	873.02	69.90	13.490		
12,100.00	8,418.00	13,052.40	9,360.00	82.09	81.06	175.743	-555.80	3,862.05	942.92	871.90	71.02	13.277		
12,121.13	8,418.00	13,073.53	9,360.00	82.51	81.48	175.743	-555.74	3,883.18	942.92	871.60	71.32	13.221		
12,200.00	8,418.00	13,152.40	9,360.00	84.08	83.06	175.743	-555.51	3,962.05	942.92	870.48	72.44	13.016		
12,221.13	8,418.00	13,173.53	9,360.00	84.50	83.48	175.743	-555.45	3,983.18	942.92	870.17	72.75	12.962		
12,300.00	8,418.00	13,252.40	9,360.00	86.07	85.07	175.743	-555.22	4,062.05	942.92	869.04	73.88	12.763		
12,321.13	8,418.00	13,273.53	9,360.00	86.49	85.49	175.743	-555.16	4,083.18	942.92	868.74	74.18	12.711		
12,400.00	8,418.00	13,352.40	9,360.00	88.06	87.08	175.743	-554.93	4,162.05	942.92	867.61	75.32	12.519		
12,421.13	8,418.00	13,373.53	9,360.00	88.48	87.50	175.743	-554.86	4,183.18	942.92	867.30	75.62	12.469		
12,500.00	8,418.00	13,452.40	9,360.00	90.05	89.09	175.743	-554.63	4,262.05	942.92	866.16	76.76	12.284		
12,521.13	8,418.00	13,473.53	9,360.00	90.48	89.52	175.743	-554.57	4,283.18	942.92	865.85	77.07	12.235		
12,600.00	8,418.00	13,552.40	9,360.00	92.05	91.11	175.743	-554.34	4,362.05	942.92	864.71	78.21	12.056		
12,621.13	8,418.00	13,573.53	9,360.00	92.48	91.53	175.743	-554.28	4,383.18	942.92	864.40	78.52	12.009		
12,700.00	8,418.00	13,652.40	9,360.00	94.06	93.12	175.743	-554.05	4,462.05	942.92	863.25	79.67	11.835		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		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		
12,721.13	8,418.00	13,673.53	9,360.00	94.48	93.55	175.743	-553.99	4,483.18	942.92	862.94	79.98	11.790			
12,800.00	8,418.00	13,752.40	9,360.00	96.06	95.14	175.743	-553.76	4,562.05	942.92	861.79	81.13	11.622			
12,821.13	8,418.00	13,773.53	9,360.00	96.48	95.57	175.743	-553.69	4,583.18	942.92	861.48	81.44	11.578			
12,900.00	8,418.00	13,852.40	9,360.00	98.07	97.17	175.743	-553.46	4,662.05	942.92	860.32	82.60	11.416			
12,921.13	8,418.00	13,873.53	9,360.00	98.49	97.59	175.743	-553.40	4,683.18	942.92	860.01	82.91	11.373			
13,000.00	8,418.00	13,952.40	9,360.00	100.08	99.19	175.743	-553.17	4,762.05	942.92	858.85	84.07	11.216			
13,021.13	8,418.00	13,973.53	9,360.00	100.50	99.62	175.743	-553.11	4,783.18	942.92	858.54	84.38	11.174			
13,100.00	8,418.00	14,052.40	9,360.00	102.09	101.22	175.743	-552.88	4,862.05	942.92	857.37	85.55	11.022			
13,121.13	8,418.00	14,073.53	9,360.00	102.52	101.64	175.743	-552.82	4,883.18	942.92	857.06	85.86	10.982			
13,200.00	8,418.00	14,152.40	9,360.00	104.11	103.24	175.743	-552.59	4,962.05	942.92	855.89	87.03	10.835			
13,221.13	8,418.00	14,173.53	9,360.00	104.53	103.67	175.743	-552.52	4,983.18	942.92	855.58	87.34	10.796			
13,300.00	8,418.00	14,252.40	9,360.00	106.12	105.27	175.743	-552.29	5,062.05	942.92	854.41	88.51	10.653			
13,321.13	8,418.00	14,273.53	9,360.00	106.55	105.70	175.743	-552.23	5,083.18	942.92	854.09	88.83	10.615			
13,400.00	8,418.00	14,352.40	9,360.00	108.14	107.30	175.743	-552.00	5,162.05	942.92	852.92	90.00	10.477			
13,421.13	8,418.00	14,373.53	9,360.00	108.57	107.73	175.743	-551.94	5,183.18	942.92	852.60	90.32	10.440			
13,500.00	8,418.00	14,452.40	9,360.00	110.16	109.34	175.743	-551.71	5,262.05	942.92	851.43	91.49	10.306			
13,521.13	8,418.00	14,473.53	9,360.00	110.59	109.77	175.743	-551.65	5,283.18	942.92	851.11	91.81	10.270			
13,600.00	8,418.00	14,552.40	9,360.00	112.19	111.37	175.743	-551.42	5,362.04	942.92	849.93	92.99	10.140			
13,621.13	8,418.00	14,573.53	9,360.00	112.61	111.80	175.743	-551.35	5,383.18	942.92	849.61	93.31	10.106			
13,700.00	8,418.00	14,652.40	9,360.00	114.21	113.41	175.743	-551.12	5,462.04	942.92	848.43	94.49	9.979			
13,721.13	8,418.00	14,673.53	9,360.00	114.64	113.84	175.743	-551.06	5,483.18	942.92	848.11	94.81	9.946			
13,800.00	8,418.00	14,752.40	9,360.00	116.24	115.44	175.743	-550.83	5,562.04	942.92	846.93	95.99	9.823			
13,821.13	8,418.00	14,773.53	9,360.00	116.66	115.87	175.743	-550.77	5,583.18	942.92	846.61	96.31	9.791			
13,900.00	8,418.00	14,852.40	9,360.00	118.26	117.48	175.743	-550.54	5,662.04	942.92	845.42	97.50	9.671			
13,921.13	8,418.00	14,873.53	9,360.00	118.69	117.91	175.743	-550.48	5,683.18	942.92	845.11	97.82	9.640			
14,000.00	8,418.00	14,952.40	9,360.00	120.29	119.52	175.743	-550.25	5,762.04	942.92	843.92	99.00	9.524			
14,021.13	8,418.00	14,973.53	9,360.00	120.72	119.95	175.743	-550.18	5,783.18	942.92	843.60	99.32	9.493			
14,100.00	8,418.00	15,052.40	9,360.00	122.32	121.56	175.743	-549.95	5,862.04	942.92	842.41	100.52	9.381			
14,121.13	8,418.00	15,073.53	9,360.00	122.75	121.99	175.743	-549.89	5,883.17	942.92	842.09	100.84	9.351			
14,200.00	8,418.00	15,152.40	9,360.00	124.35	123.60	175.743	-549.66	5,962.04	942.92	840.89	102.03	9.242			
14,221.13	8,418.00	15,173.53	9,360.00	124.78	124.03	175.743	-549.60	5,983.17	942.92	840.57	102.35	9.213			
14,300.00	8,418.00	15,252.40	9,360.00	126.39	125.64	175.743	-549.37	6,062.04	942.92	839.38	103.55	9.106			
14,321.13	8,418.00	15,273.53	9,360.00	126.82	126.07	175.743	-549.31	6,083.17	942.92	839.06	103.87	9.078			
14,400.00	8,418.00	15,352.40	9,360.00	128.42	127.68	175.743	-549.07	6,162.04	942.92	837.86	105.06	8.975			
14,421.13	8,418.00	15,373.53	9,360.00	128.85	128.12	175.743	-549.01	6,183.17	942.92	837.54	105.38	8.947			
14,500.00	8,418.00	15,452.40	9,360.00	130.46	129.73	175.743	-548.78	6,262.04	942.92	836.34	106.58	8.847			
14,521.13	8,418.00	15,473.53	9,360.00	130.89	130.16	175.743	-548.72	6,283.17	942.92	836.02	106.91	8.820			
14,600.00	8,418.00	15,552.40	9,360.00	132.49	131.77	175.743	-548.49	6,362.04	942.92	834.81	108.11	8.722			
14,621.13	8,418.00	15,573.53	9,360.00	132.92	132.20	175.743	-548.43	6,383.17	942.92	834.49	108.43	8.696			
14,700.00	8,418.00	15,652.40	9,360.00	134.53	133.82	175.743	-548.20	6,462.04	942.92	833.29	109.63	8.601			
14,721.13	8,418.00	15,673.53	9,360.00	134.96	134.25	175.743	-548.14	6,483.17	942.92	832.97	109.95	8.576			
14,800.00	8,418.00	15,752.40	9,360.00	136.57	135.86	175.743	-547.90	6,562.04	942.92	831.76	111.16	8.483			
14,821.13	8,418.00	15,773.53	9,360.00	137.00	136.30	175.743	-547.84	6,583.17	942.92	831.44	111.48	8.458			
14,900.00	8,418.00	15,852.40	9,360.00	138.61	137.91	175.743	-547.61	6,662.04	942.92	830.23	112.69	8.368			
14,921.13	8,418.00	15,873.53	9,360.00	139.04	138.34	175.743	-547.55	6,683.17	942.92	829.91	113.01	8.344			
15,000.00	8,418.00	15,952.40	9,360.00	140.65	139.96	175.743	-547.32	6,762.04	942.92	828.70	114.22	8.255			
15,021.13	8,418.00	15,973.53	9,360.00	141.08	140.39	175.743	-547.26	6,783.17	942.92	828.38	114.54	8.232			
15,100.00	8,418.00	16,052.40	9,360.00	142.69	142.01	175.743	-547.03	6,862.04	942.92	827.17	115.75	8.146			
15,121.13	8,418.00	16,073.53	9,360.00	143.12	142.44	175.743	-546.97	6,883.17	942.92	826.85	116.08	8.123			
15,200.00	8,418.00	16,152.40	9,360.00	144.73	144.05	175.743	-546.73	6,962.04	942.92	825.64	117.29	8.039			
15,221.13	8,418.00	16,173.53	9,360.00	145.16	144.49	175.743	-546.67	6,983.17	942.92	825.31	117.61	8.017			
15,300.00	8,418.00	16,252.40	9,360.00	146.77	146.10	175.743	-546.44	7,062.04	942.92	824.10	118.82	7.936			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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			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		
15,321.13	8,418.00	16,273.53	9,360.00	147.20	146.54	175.743	-546.38	7,083.17	942.92	823.77	119.15	7.914			
15,400.00	8,418.00	16,352.40	9,360.00	148.82	148.15	175.743	-546.15	7,162.04	942.92	822.56	120.36	7.834			
15,421.13	8,418.00	16,373.53	9,360.00	149.25	148.59	175.743	-546.09	7,183.17	942.92	822.24	120.68	7.813			
15,500.00	8,418.00	16,452.40	9,360.00	150.86	150.20	175.743	-545.86	7,262.04	942.92	821.02	121.90	7.735			
15,521.13	8,418.00	16,473.53	9,360.00	151.29	150.64	175.743	-545.79	7,283.17	942.92	820.70	122.22	7.715			
15,600.00	8,418.00	16,552.40	9,360.00	152.90	152.25	175.743	-545.56	7,362.04	942.92	819.48	123.44	7.639			
15,621.13	8,418.00	16,573.53	9,360.00	153.34	152.69	175.743	-545.50	7,383.17	942.92	819.16	123.77	7.619			
15,700.00	8,418.00	16,652.40	9,360.00	154.95	154.31	175.743	-545.27	7,462.04	942.92	817.94	124.98	7.544			
15,721.13	8,418.00	16,673.53	9,360.00	155.38	154.74	175.743	-545.21	7,483.17	942.92	817.61	125.31	7.525			
15,800.00	8,418.00	16,752.40	9,360.00	157.00	156.36	175.743	-544.98	7,562.04	942.92	816.40	126.53	7.452			
15,821.13	8,418.00	16,773.53	9,360.00	157.43	156.79	175.743	-544.92	7,583.17	942.92	816.07	126.85	7.433			
15,900.00	8,418.00	16,852.40	9,360.00	159.04	158.41	175.743	-544.69	7,662.03	942.92	814.85	128.07	7.363			
15,921.13	8,418.00	16,873.53	9,360.00	159.48	158.84	175.743	-544.62	7,683.17	942.92	814.53	128.40	7.344			
16,000.00	8,418.00	16,952.40	9,360.00	161.09	160.46	175.743	-544.39	7,762.03	942.92	813.31	129.62	7.275			
16,021.13	8,418.00	16,973.53	9,360.00	161.52	160.90	175.743	-544.33	7,783.17	942.92	812.98	129.94	7.256			
16,100.00	8,418.00	17,052.40	9,360.00	163.14	162.52	175.743	-544.10	7,862.03	942.92	811.76	131.16	7.189			
16,121.13	8,418.00	17,073.53	9,360.00	163.57	162.95	175.743	-544.04	7,883.17	942.92	811.43	131.49	7.171			
16,200.00	8,418.00	17,152.40	9,360.00	165.19	164.57	175.743	-543.81	7,962.03	942.92	810.21	132.71	7.105			
16,221.13	8,418.00	17,173.53	9,360.00	165.62	165.00	175.743	-543.75	7,983.17	942.92	809.88	133.04	7.088			
16,300.00	8,418.00	17,252.40	9,360.00	167.24	166.62	175.743	-543.52	8,062.03	942.92	808.66	134.26	7.023			
16,321.13	8,418.00	17,273.53	9,360.00	167.67	167.06	175.743	-543.45	8,083.17	942.92	808.33	134.59	7.006			
16,400.00	8,418.00	17,352.40	9,360.00	169.28	168.68	175.743	-543.22	8,162.03	942.92	807.11	135.81	6.943			
16,421.13	8,418.00	17,373.53	9,360.00	169.72	169.11	175.743	-543.16	8,183.17	942.92	806.78	136.14	6.926			
16,500.00	8,418.00	17,452.40	9,360.00	171.33	170.73	175.743	-542.93	8,262.03	942.92	805.56	137.36	6.864			
16,521.13	8,418.00	17,473.53	9,360.00	171.77	171.17	175.743	-542.87	8,283.16	942.92	805.23	137.69	6.848			
16,600.00	8,418.00	17,552.40	9,360.00	173.39	172.79	175.743	-542.64	8,362.03	942.92	804.01	138.92	6.788			
16,621.13	8,418.00	17,573.53	9,360.00	173.82	173.22	175.743	-542.58	8,383.16	942.92	803.68	139.24	6.772			
16,700.00	8,418.00	17,652.40	9,360.00	175.44	174.84	175.743	-542.35	8,462.03	942.92	802.45	140.47	6.713			
16,721.13	8,418.00	17,673.53	9,360.00	175.87	175.28	175.743	-542.28	8,483.16	942.92	802.12	140.80	6.697			
16,800.00	8,418.00	17,752.40	9,360.00	177.49	176.90	175.743	-542.05	8,562.03	942.92	800.90	142.02	6.639			
16,821.13	8,418.00	17,773.53	9,360.00	177.92	177.33	175.743	-541.99	8,583.16	942.92	800.57	142.35	6.624			
16,900.00	8,418.00	17,852.40	9,360.00	179.54	178.96	175.743	-541.76	8,662.03	942.92	799.34	143.58	6.567			
16,921.13	8,418.00	17,873.53	9,360.00	179.97	179.39	175.743	-541.70	8,683.16	942.92	799.01	143.91	6.552			
17,000.00	8,418.00	17,952.40	9,360.00	181.59	181.01	175.743	-541.47	8,762.03	942.92	797.78	145.14	6.497			
17,021.13	8,418.00	17,973.53	9,360.00	182.02	181.45	175.743	-541.41	8,783.16	942.92	797.46	145.47	6.482			
17,100.00	8,418.00	18,052.40	9,360.00	183.64	183.07	175.743	-541.18	8,862.03	942.92	796.23	146.69	6.428			
17,121.13	8,418.00	18,073.53	9,360.00	184.08	183.50	175.743	-541.11	8,883.16	942.92	795.90	147.02	6.413			
17,200.00	8,418.00	18,152.40	9,360.00	185.70	185.13	175.743	-540.88	8,962.03	942.92	794.67	148.25	6.360			
17,221.13	8,418.00	18,173.53	9,360.00	186.13	185.56	175.743	-540.82	8,983.16	942.92	794.34	148.58	6.346			
17,300.00	8,418.00	18,252.40	9,360.00	187.75	187.18	175.743	-540.59	9,062.03	942.92	793.11	149.81	6.294			
17,321.13	8,418.00	18,273.53	9,360.00	188.18	187.62	175.743	-540.53	9,083.16	942.92	792.78	150.14	6.280			
17,400.00	8,418.00	18,352.40	9,360.00	189.80	189.24	175.743	-540.30	9,162.03	942.92	791.55	151.37	6.229			
17,421.13	8,418.00	18,373.53	9,360.00	190.24	189.68	175.743	-540.24	9,183.16	942.92	791.22	151.70	6.216			
17,500.00	8,418.00	18,452.40	9,360.00	191.86	191.30	175.743	-540.01	9,262.03	942.92	789.99	152.93	6.166			
17,521.13	8,418.00	18,473.53	9,360.00	192.29	191.73	175.743	-539.94	9,283.16	942.92	789.66	153.26	6.152			
17,600.00	8,418.00	18,552.40	9,360.00	193.91	193.36	175.743	-539.71	9,362.03	942.92	788.43	154.49	6.103			
17,621.13	8,418.00	18,573.53	9,360.00	194.35	193.79	175.743	-539.65	9,383.16	942.92	788.10	154.82	6.090			
17,700.00	8,418.00	18,652.40	9,360.00	195.97	195.42	175.743	-539.42	9,462.03	942.92	786.87	156.06	6.042			
17,721.13	8,418.00	18,673.53	9,360.00	196.40	195.85	175.743	-539.36	9,483.16	942.92	786.54	156.39	6.029			
17,800.00	8,418.00	18,752.40	9,360.00	198.02	197.48	175.743	-539.13	9,562.03	942.92	785.30	157.62	5.982			
17,821.13	8,418.00	18,773.53	9,360.00	198.46	197.91	175.743	-539.07	9,583.16	942.92	784.97	157.95	5.970			
17,900.00	8,418.00	18,852.40	9,360.00	200.08	199.53	175.743	-538.84	9,662.03	942.92	783.74	159.18	5.924			

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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			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		
17,921.13	8,418.00	18,873.53	9,360.00	200.51	199.97	175.743	-538.77	9,683.16	942.92	783.41	159.51	5.911			
18,000.00	8,418.00	18,952.40	9,360.00	202.13	201.59	175.743	-538.54	9,762.03	942.92	782.18	160.75	5.866			
18,021.13	8,418.00	18,973.53	9,360.00	202.57	202.03	175.743	-538.48	9,783.16	942.92	781.84	161.08	5.854			
18,100.00	8,418.00	19,052.40	9,360.00	204.19	203.65	175.743	-538.25	9,862.03	942.92	780.61	162.31	5.809			
18,121.13	8,418.00	19,073.53	9,360.00	204.62	204.09	175.743	-538.19	9,883.16	942.92	780.28	162.64	5.798			
18,200.00	8,418.00	19,152.40	9,360.00	206.24	205.71	175.743	-537.96	9,962.03	942.92	779.05	163.88	5.754			
18,221.13	8,418.00	19,173.53	9,360.00	206.68	206.15	175.743	-537.90	9,983.16	942.92	778.71	164.21	5.742			
18,300.00	8,418.00	19,252.40	9,360.00	208.30	207.77	175.743	-537.67	10,062.02	942.92	777.48	165.44	5.699			
18,321.13	8,418.00	19,273.53	9,360.00	208.74	208.21	175.743	-537.60	10,083.16	942.92	777.15	165.77	5.688			
18,400.00	8,418.00	19,352.40	9,360.00	210.36	209.83	175.743	-537.37	10,162.02	942.92	775.91	167.01	5.646			
18,421.13	8,418.00	19,373.53	9,360.00	210.79	210.27	175.743	-537.31	10,183.16	942.92	775.58	167.34	5.635			
18,500.00	8,418.00	19,452.40	9,360.00	212.41	211.89	175.743	-537.08	10,262.02	942.92	774.35	168.58	5.593			
18,521.13	8,418.00	19,473.53	9,360.00	212.85	212.33	175.743	-537.02	10,283.16	942.92	774.01	168.91	5.582			
18,600.00	8,418.00	19,552.40	9,360.00	214.47	213.95	175.743	-536.79	10,362.02	942.92	772.78	170.14	5.542			
18,621.13	8,418.00	19,573.53	9,360.00	214.91	214.39	175.743	-536.73	10,383.16	942.92	772.45	170.48	5.531			
18,700.00	8,418.00	19,652.40	9,360.00	216.53	216.01	175.743	-536.50	10,462.02	942.92	771.21	171.71	5.491			
18,721.13	8,418.00	19,673.53	9,360.00	216.96	216.45	175.743	-536.43	10,483.16	942.92	770.88	172.04	5.481			
18,800.00	8,418.00	19,752.40	9,360.00	218.59	218.07	175.743	-536.20	10,562.02	942.92	769.64	173.28	5.442			
18,821.13	8,418.00	19,773.53	9,360.00	219.02	218.51	175.743	-536.14	10,583.15	942.92	769.31	173.61	5.431			
18,900.00	8,418.00	19,852.40	9,360.00	220.64	220.13	175.743	-535.91	10,662.02	942.92	768.07	174.85	5.393			
18,921.13	8,418.00	19,873.53	9,360.00	221.08	220.57	175.743	-535.85	10,683.15	942.92	767.74	175.18	5.383			
19,000.00	8,418.00	19,952.40	9,360.00	222.70	222.20	175.743	-535.62	10,762.02	942.92	766.50	176.42	5.345			
19,021.13	8,418.00	19,973.53	9,360.00	223.14	222.63	175.743	-535.56	10,783.15	942.92	766.17	176.75	5.335			
19,100.00	8,418.00	20,052.40	9,360.00	224.76	224.26	175.743	-535.32	10,862.02	942.92	764.93	177.99	5.298			
19,121.13	8,418.00	20,073.53	9,360.00	225.20	224.69	175.743	-535.26	10,883.15	942.92	764.60	178.32	5.288			
19,200.00	8,418.00	20,152.40	9,360.00	226.82	226.32	175.743	-535.03	10,962.02	942.92	763.36	179.56	5.251			
19,221.13	8,418.00	20,173.53	9,360.00	227.26	226.75	175.743	-534.97	10,983.15	942.92	763.03	179.89	5.242			
19,300.00	8,418.00	20,252.40	9,360.00	228.88	228.38	175.743	-534.74	11,062.02	942.92	761.79	181.13	5.206			
19,321.13	8,418.00	20,273.53	9,360.00	229.31	228.82	175.743	-534.68	11,083.15	942.92	761.46	181.46	5.196			
19,400.00	8,418.00	20,352.40	9,360.00	230.94	230.44	175.743	-534.45	11,162.02	942.92	760.22	182.70	5.161			
19,421.13	8,418.00	20,373.53	9,360.00	231.37	230.88	175.743	-534.39	11,183.15	942.92	759.88	183.04	5.152			
19,500.00	8,418.00	20,452.40	9,360.00	233.00	232.50	175.743	-534.15	11,262.02	942.92	758.64	184.28	5.117			
19,521.13	8,418.00	20,473.53	9,360.00	233.43	232.94	175.743	-534.09	11,283.15	942.92	758.31	184.61	5.108			
19,600.00	8,418.00	20,552.40	9,360.00	235.06	234.57	175.743	-533.86	11,362.02	942.92	757.07	185.85	5.074			
19,621.13	8,418.00	20,573.53	9,360.00	235.49	235.00	175.743	-533.80	11,383.15	942.92	756.74	186.18	5.065			
19,700.00	8,418.00	20,652.40	9,360.00	237.12	236.63	175.743	-533.57	11,462.02	942.92	755.50	187.42	5.031			
19,721.13	8,418.00	20,673.53	9,360.00	237.55	237.06	175.743	-533.51	11,483.15	942.92	755.17	187.75	5.022			
19,800.00	8,418.00	20,752.40	9,360.00	239.18	238.69	175.743	-533.28	11,562.02	942.92	753.93	189.00	4.989			
19,821.13	8,418.00	20,773.53	9,360.00	239.61	239.13	175.743	-533.22	11,583.15	942.92	753.59	189.33	4.980			
19,900.00	8,418.00	20,852.40	9,360.00	241.24	240.75	175.743	-532.98	11,662.02	942.92	752.35	190.57	4.948			
19,921.13	8,418.00	20,873.53	9,360.00	241.67	241.19	175.743	-532.92	11,683.15	942.92	752.02	190.90	4.939			
20,000.00	8,418.00	20,952.40	9,360.00	243.30	242.81	175.743	-532.69	11,762.02	942.92	750.78	192.14	4.907			
20,021.13	8,418.00	20,973.53	9,360.00	243.73	243.25	175.743	-532.63	11,783.15	942.92	750.44	192.48	4.899			
20,100.00	8,418.00	21,052.40	9,360.00	245.36	244.88	175.743	-532.40	11,862.02	942.92	749.20	193.72	4.867			
20,121.13	8,418.00	21,073.53	9,360.00	245.79	245.31	175.743	-532.34	11,883.15	942.92	748.87	194.05	4.859			
20,200.00	8,418.00	21,152.40	9,360.00	247.42	246.94	175.743	-532.11	11,962.02	942.92	747.63	195.29	4.828			
20,221.13	8,418.00	21,173.53	9,360.00	247.85	247.38	175.743	-532.04	11,983.15	942.92	747.30	195.63	4.820			
20,300.00	8,418.00	21,252.40	9,360.00	249.48	249.00	175.743	-531.81	12,062.02	942.92	746.05	196.87	4.790			
20,321.13	8,418.00	21,273.53	9,360.00	249.91	249.44	175.743	-531.75	12,083.15	942.92	745.72	197.20	4.782			
20,400.00	8,418.00	21,352.40	9,360.00	251.54	251.07	175.743	-531.52	12,162.02	942.92	744.48	198.44	4.752			
20,421.13	8,418.00	21,373.53	9,360.00	251.97	251.50	175.743	-531.46	12,183.15	942.92	744.14	198.78	4.744			
20,500.00	8,418.00	21,452.40	9,360.00	253.60	253.13	175.743	-531.23	12,262.02	942.92	742.90	200.02	4.714			

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



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,521.13	8,418.00	21,473.53	9,360.00	254.03	253.57	175.743	-531.17	12,283.15	942.92	742.57	200.35	4.706	
20,600.00	8,418.00	21,552.40	9,360.00	255.66	255.19	175.743	-530.94	12,362.01	942.92	741.32	201.60	4.677	
20,621.13	8,418.00	21,573.53	9,360.00	256.09	255.63	175.743	-530.87	12,383.15	942.92	740.99	201.93	4.670	
20,700.00	8,418.00	21,652.40	9,360.00	257.72	257.26	175.743	-530.64	12,462.01	942.92	739.75	203.17	4.641	
20,721.13	8,418.00	21,673.53	9,360.00	258.16	257.69	175.743	-530.58	12,483.15	942.92	739.41	203.51	4.633	
20,800.00	8,418.00	21,752.40	9,360.00	259.78	259.32	175.743	-530.35	12,562.01	942.92	738.17	204.75	4.605	
20,821.13	8,418.00	21,773.53	9,360.00	260.22	259.76	175.743	-530.29	12,583.15	942.92	737.84	205.08	4.598	
20,900.00	8,418.00	21,852.40	9,360.00	261.84	261.38	175.743	-530.06	12,662.01	942.92	736.59	206.33	4.570	
20,921.13	8,418.00	21,873.53	9,360.00	262.28	261.82	175.743	-530.00	12,683.15	942.92	736.26	206.66	4.563	
21,000.00	8,418.00	21,952.40	9,360.00	263.90	263.45	175.743	-529.77	12,762.01	942.92	735.02	207.90	4.535	
21,021.13	8,418.00	21,973.53	9,360.00	264.34	263.88	175.743	-529.70	12,783.15	942.92	734.68	208.24	4.528	
21,100.00	8,418.00	22,052.40	9,360.00	265.97	265.51	175.743	-529.47	12,862.01	942.92	733.44	209.48	4.501	
21,121.13	8,418.00	22,073.53	9,360.00	266.40	265.95	175.743	-529.41	12,883.15	942.92	733.10	209.82	4.494	
21,200.00	8,418.00	22,152.40	9,360.00	268.03	267.57	175.743	-529.18	12,962.01	942.92	731.86	211.06	4.468	
21,221.13	8,418.00	22,173.53	9,360.00	268.46	268.01	175.743	-529.12	12,983.14	942.92	731.53	211.39	4.460	
21,300.00	8,418.00	22,252.40	9,360.00	270.09	269.64	175.743	-528.89	13,062.01	942.92	730.28	212.64	4.434	
21,321.13	8,418.00	22,273.53	9,360.00	270.53	270.07	175.743	-528.83	13,083.14	942.92	729.95	212.97	4.427	
21,400.00	8,418.00	22,352.40	9,360.00	272.15	271.70	175.743	-528.60	13,162.01	942.92	728.70	214.22	4.402	
21,421.13	8,418.00	22,373.53	9,360.00	272.59	272.14	175.743	-528.53	13,183.14	942.92	728.37	214.55	4.395	
21,500.00	8,418.00	22,452.40	9,360.00	274.21	273.77	175.743	-528.30	13,262.01	942.92	727.12	215.80	4.369	
21,521.13	8,418.00	22,473.53	9,360.00	274.65	274.20	175.743	-528.24	13,283.14	942.92	726.79	216.13	4.363	
21,600.00	8,418.00	22,552.40	9,360.00	276.28	275.83	175.743	-528.01	13,362.01	942.92	725.54	217.38	4.338	
21,621.13	8,418.00	22,573.53	9,360.00	276.71	276.27	175.743	-527.95	13,383.14	942.92	725.21	217.71	4.331	
21,700.00	8,418.00	22,652.40	9,360.00	278.34	277.90	175.743	-527.72	13,462.01	942.92	723.97	218.96	4.306	
21,721.13	8,418.00	22,673.53	9,360.00	278.78	278.33	175.743	-527.66	13,483.14	942.92	723.63	219.29	4.300	
21,800.00	8,418.00	22,752.40	9,360.00	280.40	279.96	175.743	-527.43	13,562.01	942.92	722.39	220.54	4.276	
21,803.98	8,418.00	22,756.37	9,360.00	280.48	280.04	175.743	-527.41	13,565.99	942.92	722.32	220.60	4.274	
21,818.82	8,418.00	22,771.21	9,360.00	280.79	280.35	175.743	-527.37	13,580.83	942.92	722.09	220.83	4.270	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		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	1.14	1.14	0.00	0.01	111.942	-92.17	228.79	246.66				
100.00	100.00	101.14	101.14	0.79	0.79	111.942	-92.17	228.79	246.66	245.08	1.58	156.229	
200.00	200.00	201.14	201.14	1.45	1.45	111.942	-92.17	228.79	246.66	243.76	2.90	85.134	
300.00	300.00	301.14	301.14	1.89	1.90	111.942	-92.17	228.79	246.66	242.87	3.79	65.124	
400.00	400.00	401.14	401.14	2.25	2.26	111.942	-92.17	228.79	246.66	242.15	4.51	54.680	
500.00	500.00	501.14	501.14	2.57	2.57	111.942	-92.17	228.79	246.66	241.52	5.14	48.001	
600.00	600.00	601.14	601.14	2.85	2.85	111.942	-92.17	228.79	246.66	240.96	5.70	43.257	
700.00	700.00	701.14	701.14	3.11	3.11	111.942	-92.17	228.79	246.66	240.44	6.22	39.661	
800.00	800.00	801.14	801.14	3.35	3.35	111.942	-92.17	228.79	246.66	239.96	6.70	36.814	
900.00	900.00	901.14	901.14	3.58	3.58	111.942	-92.17	228.79	246.66	239.51	7.15	34.484	
1,000.00	1,000.00	1,001.14	1,001.14	3.79	3.79	111.942	-92.17	228.79	246.66	239.08	7.58	32.533	
1,100.00	1,100.00	1,101.14	1,101.14	3.99	4.00	111.942	-92.17	228.79	246.66	238.67	7.99	30.866	
1,200.00	1,200.00	1,201.14	1,201.14	4.19	4.19	111.942	-92.17	228.79	246.66	238.27	8.38	29.421	
1,300.00	1,300.00	1,301.14	1,301.14	4.38	4.38	111.942	-92.17	228.79	246.66	237.90	8.76	28.151	
1,400.00	1,400.00	1,401.14	1,401.14	4.56	4.56	111.942	-92.17	228.79	246.66	237.53	9.13	27.025	
1,500.00	1,500.00	1,501.14	1,501.14	4.74	4.74	111.942	-92.17	228.79	246.66	237.18	9.48	26.015	
1,600.00	1,600.00	1,601.14	1,601.14	4.91	4.91	111.942	-92.17	228.79	246.66	236.83	9.83	25.105	
1,700.00	1,700.00	1,701.14	1,701.14	5.08	5.08	111.942	-92.17	228.79	246.66	236.50	10.16	24.277	
1,800.00	1,800.00	1,801.14	1,801.14	5.24	5.24	111.942	-92.17	228.79	246.66	236.17	10.49	23.520	
1,900.00	1,900.00	1,901.14	1,901.14	5.40	5.40	111.942	-92.17	228.79	246.66	235.85	10.81	22.825	
2,000.00	2,000.00	2,001.14	2,001.14	5.56	5.56	111.942	-92.17	228.79	246.66	235.54	11.12	22.183	
2,100.00	2,099.98	2,101.12	2,101.12	5.78	5.71	-73.363	-92.17	228.79	246.15	234.74	11.41	21.576	
2,200.00	2,199.84	2,200.98	2,200.98	5.98	5.86	-74.564	-92.17	228.79	244.70	233.04	11.67	20.972	
2,300.00	2,299.46	2,300.60	2,300.60	6.09	6.01	-76.542	-92.17	228.79	242.56	230.70	11.86	20.452	
2,400.00	2,399.01	2,400.15	2,400.15	6.26	6.16	-78.735	-92.17	228.79	240.51	228.40	12.11	19.859	
2,500.00	2,498.56	2,499.70	2,499.70	6.45	6.30	-80.961	-92.17	228.79	238.83	226.47	12.36	19.329	
2,600.00	2,598.11	2,605.88	2,605.85	6.65	6.53	-83.675	-90.62	227.59	236.12	223.47	12.65	18.668	
2,700.00	2,697.65	2,711.24	2,711.04	6.87	6.76	-87.087	-86.02	224.02	231.25	218.32	12.92	17.893	
2,800.00	2,797.20	2,814.37	2,813.75	7.10	6.99	-91.250	-78.60	218.28	224.76	211.57	13.19	17.041	
2,900.00	2,896.75	2,912.68	2,911.54	7.35	7.28	-95.665	-70.64	212.10	218.74	205.19	13.55	16.143	
3,000.00	2,996.30	3,010.99	3,009.33	7.61	7.48	-100.293	-62.67	205.93	214.14	200.33	13.81	15.505	
3,100.00	3,095.84	3,109.29	3,107.11	7.89	7.69	-105.086	-54.70	199.75	211.03	196.93	14.09	14.976	
3,200.00	3,195.39	3,207.60	3,204.90	8.17	7.91	-109.981	-46.73	193.57	209.48	195.08	14.40	14.548	
3,246.78	3,241.96	3,253.59	3,250.65	8.30	8.02	-112.287	-43.00	190.69	209.30	194.75	14.56	14.379 CC, ES	
3,300.00	3,294.94	3,305.90	3,302.69	8.46	8.15	-114.911	-38.76	187.40	209.53	194.79	14.74	14.213	
3,400.00	3,394.49	3,404.21	3,400.48	8.76	8.40	-119.802	-30.79	181.22	211.17	196.05	15.13	13.962	
3,500.00	3,494.03	3,502.52	3,498.26	9.07	8.66	-124.585	-22.82	175.05	214.38	198.83	15.55	13.786	
3,600.00	3,593.58	3,600.82	3,596.05	9.38	8.93	-129.201	-14.85	168.87	219.08	203.06	16.02	13.676	
3,700.00	3,693.13	3,699.13	3,693.84	9.70	9.21	-133.602	-6.88	162.70	225.18	208.65	16.53	13.622	
3,800.00	3,792.67	3,797.43	3,791.63	10.03	9.50	-137.755	1.08	156.52	232.56	215.49	17.08	13.618	
3,900.00	3,892.22	3,895.74	3,889.41	10.36	9.80	-141.640	9.05	150.34	241.12	223.46	17.66	13.655	
4,000.00	3,991.77	3,994.05	3,987.20	10.69	10.10	-145.250	17.02	144.17	250.72	232.46	18.27	13.726	
4,100.00	4,091.32	4,092.35	4,084.99	11.03	10.41	-148.587	24.99	137.99	261.26	242.37	18.90	13.825	
4,200.00	4,190.86	4,190.66	4,182.78	11.37	10.73	-151.662	32.96	131.82	272.63	253.08	19.55	13.946	
4,300.00	4,290.41	4,288.96	4,280.56	11.72	11.05	-154.488	40.93	125.64	284.72	264.51	20.21	14.085	
4,400.00	4,389.96	4,387.27	4,378.35	12.07	11.37	-157.082	48.90	119.47	297.45	276.56	20.89	14.237	
4,500.00	4,489.51	4,485.57	4,476.14	12.42	11.70	-159.463	56.87	113.29	310.74	289.16	21.58	14.400	
4,600.00	4,589.05	4,583.88	4,573.93	12.77	12.03	-161.647	64.84	107.11	324.53	302.25	22.28	14.569	
4,700.00	4,688.60	4,682.19	4,671.71	13.13	12.37	-163.654	72.81	100.94	338.74	315.76	22.98	14.743	
4,800.00	4,788.15	4,780.49	4,769.50	13.49	12.71	-165.499	80.77	94.76	353.33	329.65	23.68	14.919	
4,900.00	4,887.70	4,878.80	4,867.29	13.85	13.06	-167.198	88.74	88.59	368.26	343.87	24.39	15.097	
5,000.00	4,987.24	4,977.10	4,965.08	14.21	13.40	-168.764	96.71	82.41	383.48	358.38	25.11	15.275	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,086.79	5,075.41	5,062.86	14.58	13.75	-170.211	104.68	76.24	398.97	373.15	25.82	15.451	
5,200.00	5,186.34	5,173.72	5,160.65	14.95	14.10	-171.550	112.65	70.06	414.68	388.15	26.54	15.626	
5,300.00	5,285.88	5,272.02	5,258.44	15.31	14.46	-172.792	120.62	63.88	430.61	403.35	27.26	15.798	
5,400.00	5,385.43	5,370.33	5,356.23	15.68	14.82	-173.945	128.59	57.71	446.71	418.74	27.98	15.967	
5,500.00	5,484.98	5,468.63	5,454.02	16.05	15.17	-175.019	136.56	51.53	462.98	434.29	28.70	16.133	
5,600.00	5,584.53	5,566.94	5,551.80	16.43	15.53	-176.019	144.53	45.36	479.41	449.99	29.42	16.295	
5,700.00	5,684.07	5,665.25	5,649.59	16.80	15.90	-176.954	152.49	39.18	495.96	465.82	30.14	16.453	
5,800.00	5,783.62	5,763.55	5,747.38	17.17	16.26	-177.828	160.46	33.00	512.64	481.77	30.87	16.608	
5,900.00	5,883.17	5,861.86	5,845.17	17.55	16.63	-178.647	168.43	26.83	529.42	497.83	31.59	16.758	
6,000.00	5,982.72	5,960.16	5,942.95	17.92	16.99	-179.416	176.40	20.65	546.30	513.99	32.32	16.904	
6,100.00	6,082.26	6,058.47	6,040.74	18.30	17.36	-179.861	184.37	14.48	563.28	530.23	33.04	17.047	
6,200.00	6,181.81	6,156.77	6,138.53	18.68	17.73	-179.180	192.34	8.30	580.33	546.57	33.77	17.185	
6,300.00	6,281.36	6,255.08	6,236.32	19.06	18.10	-178.538	200.31	2.13	597.47	562.97	34.50	17.320	
6,400.00	6,380.91	6,353.39	6,334.10	19.43	18.47	-177.932	208.28	-4.05	614.67	579.44	35.22	17.451	
6,500.00	6,480.45	6,451.69	6,431.89	19.81	18.84	-177.358	216.25	-10.23	631.93	595.98	35.95	17.578	
6,600.00	6,580.00	6,550.00	6,529.68	20.20	19.22	-176.815	224.22	-16.40	649.25	612.58	36.68	17.701	
6,700.00	6,679.55	6,648.30	6,627.47	20.58	19.59	-176.300	232.18	-22.58	666.63	629.22	37.41	17.821	
6,800.00	6,779.09	6,746.61	6,725.25	20.96	19.97	-175.812	240.15	-28.75	684.06	645.92	38.14	17.937	
6,900.00	6,878.64	6,844.92	6,823.04	21.34	20.34	-175.347	248.12	-34.93	701.53	662.67	38.86	18.053	
7,000.00	6,978.19	6,959.35	6,936.98	21.72	20.77	-174.891	256.50	-41.42	718.32	678.64	39.68	18.103	
7,100.00	7,077.74	7,083.31	7,060.75	22.11	21.21	-174.659	261.66	-45.42	731.94	691.46	40.49	18.078	
7,200.00	7,177.28	7,200.99	7,178.42	22.49	21.38	-174.674	262.76	-46.28	742.29	701.27	41.02	18.096	
7,300.00	7,276.87	7,300.58	7,278.01	22.85	21.43	-174.747	262.76	-46.28	751.33	709.90	41.44	18.132	
7,400.00	7,376.68	7,400.39	7,377.82	23.22	21.49	-174.799	262.76	-46.28	757.35	715.49	41.86	18.093	
7,500.00	7,476.64	7,500.35	7,477.78	23.51	21.54	-174.821	262.76	-46.28	759.90	717.69	42.21	18.001	
7,600.00	7,576.64	7,600.35	7,577.78	23.55	21.59	-0.270	262.76	-46.28	760.00	717.68	42.31	17.961	
7,700.00	7,676.64	7,700.35	7,677.78	23.57	21.65	-0.270	262.76	-46.28	760.00	717.60	42.40	17.925	
7,800.00	7,776.64	7,800.35	7,777.78	23.60	21.70	-0.270	262.76	-46.28	760.00	717.51	42.48	17.889	
7,800.05	7,776.69	7,800.40	7,777.83	23.60	21.70	-0.270	262.76	-46.28	760.00	717.51	42.48	17.889	
7,900.00	7,876.63	7,900.34	7,877.77	23.62	21.75	-90.168	262.76	-46.28	760.00	717.42	42.59	17.847	
8,000.00	7,975.49	7,999.20	7,976.63	23.60	21.81	-91.204	262.76	-46.28	760.17	717.40	42.78	17.771	
8,100.00	8,070.39	8,094.10	8,071.53	23.59	21.86	-93.291	262.76	-46.28	761.48	718.38	43.10	17.669	
8,200.00	8,158.44	8,182.15	8,159.58	23.60	21.91	-95.953	262.76	-46.28	765.87	722.36	43.51	17.602	
8,300.00	8,236.97	8,260.68	8,238.11	23.65	21.95	-98.536	262.76	-46.28	775.92	731.97	43.94	17.657	
8,400.00	8,303.59	8,327.30	8,304.73	23.78	21.99	-100.319	262.76	-46.28	794.26	749.94	44.32	17.921	
8,500.00	8,356.28	8,379.98	8,357.42	24.04	22.02	-100.620	262.76	-46.28	822.93	778.36	44.57	18.466	
8,600.00	8,393.43	8,417.14	8,394.57	24.46	22.04	-98.847	262.76	-46.28	862.74	818.11	44.63	19.329	
8,700.00	8,413.92	8,437.63	8,415.06	25.04	22.05	-94.534	262.76	-46.28	913.08	868.56	44.51	20.512	
8,800.00	8,418.00	8,441.71	8,419.14	25.79	22.05	-90.000	262.76	-46.28	971.97	927.75	44.22	21.978	
8,900.00	8,418.00	8,441.71	8,419.14	26.68	22.05	-90.000	262.76	-46.28	1,037.26	993.40	43.87	23.646	
9,000.00	8,418.00	8,441.71	8,419.14	27.70	22.05	-90.000	262.76	-46.28	1,107.74	1,064.26	43.49	25.474	
9,100.00	8,418.00	8,441.71	8,419.14	28.83	22.05	-90.000	262.76	-46.28	1,182.49	1,139.38	43.11	27.432	
9,200.00	8,418.00	8,441.71	8,419.14	30.06	22.05	-90.000	262.76	-46.28	1,260.74	1,218.00	42.74	29.497	
9,300.00	8,418.00	8,441.71	8,419.14	31.38	22.05	-90.000	262.76	-46.28	1,341.88	1,299.48	42.40	31.648	
9,400.00	8,418.00	8,441.71	8,419.14	32.78	22.05	-90.000	262.76	-46.28	1,425.42	1,383.34	42.09	33.870	
9,500.00	8,418.00	8,441.71	8,419.14	34.25	22.05	-90.000	262.76	-46.28	1,510.96	1,469.17	41.80	36.150	
9,600.00	8,418.00	8,441.71	8,419.14	35.78	22.05	-90.000	262.76	-46.28	1,598.18	1,556.65	41.54	38.477	
9,700.00	8,418.00	8,441.71	8,419.14	37.36	22.05	-90.000	262.76	-46.28	1,686.82	1,645.52	41.30	40.843	
9,800.00	8,418.00	8,441.71	8,419.14	38.98	22.05	-90.000	262.76	-46.28	1,776.67	1,735.58	41.09	43.241	
9,900.00	8,418.00	8,441.71	8,419.14	40.65	22.05	-90.000	262.76	-46.28	1,867.55	1,826.65	40.90	45.665	
10,000.00	8,418.00	11,757.57	10,175.00	42.35	40.67	-156.595	268.05	1,759.63	1,913.28	1,857.97	55.31	34.594	
10,000.00	8,418.00	11,757.57	10,175.00	42.35	40.67	-156.595	268.05	1,759.63	1,913.28	1,857.97	55.31	34.594	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IFR1		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.00	8,418.00	11,857.57	10,175.00	44.08	42.46	-156.595	268.34	1,859.63	1,913.28	1,856.34	56.94	33.602			
10,100.00	8,418.00	11,857.57	10,175.00	44.08	42.46	-156.595	268.34	1,859.63	1,913.28	1,856.34	56.94	33.602			
10,200.00	8,418.00	11,957.57	10,175.00	45.84	44.27	-156.595	268.63	1,959.63	1,913.28	1,854.67	58.61	32.645			
10,200.00	8,418.00	11,957.57	10,175.00	45.84	44.27	-156.595	268.63	1,959.63	1,913.28	1,854.67	58.61	32.645			
10,300.00	8,418.00	12,057.57	10,175.00	47.63	46.11	-156.595	268.92	2,059.63	1,913.28	1,852.97	60.31	31.724			
10,300.00	8,418.00	12,057.57	10,175.00	47.63	46.11	-156.595	268.92	2,059.63	1,913.28	1,852.97	60.31	31.724			
10,400.00	8,418.00	12,157.57	10,175.00	49.44	47.96	-156.595	269.22	2,159.63	1,913.28	1,851.24	62.04	30.838			
10,400.00	8,418.00	12,157.57	10,175.00	49.44	47.97	-156.595	269.22	2,159.63	1,913.28	1,851.24	62.04	30.838			
10,500.00	8,418.00	12,257.57	10,175.00	51.27	49.84	-156.595	269.51	2,259.63	1,913.28	1,849.48	63.80	29.987			
10,500.00	8,418.00	12,257.57	10,175.00	51.27	49.84	-156.595	269.51	2,259.63	1,913.28	1,849.48	63.80	29.987			
10,600.00	8,418.00	12,357.57	10,175.00	53.11	51.73	-156.595	269.80	2,359.63	1,913.28	1,847.69	65.59	29.171			
10,600.00	8,418.00	12,357.57	10,175.00	53.11	51.73	-156.595	269.80	2,359.63	1,913.28	1,847.69	65.59	29.170			
10,700.00	8,418.00	12,457.57	10,175.00	54.97	53.63	-156.595	270.09	2,459.63	1,913.28	1,845.88	67.40	28.387			
10,700.00	8,418.00	12,457.57	10,175.00	54.97	53.63	-156.595	270.09	2,459.63	1,913.28	1,845.88	67.40	28.387			
10,800.00	8,418.00	12,557.57	10,175.00	56.85	55.54	-156.595	270.39	2,559.63	1,913.28	1,844.05	69.23	27.636			
10,800.00	8,418.00	12,557.57	10,175.00	56.85	55.54	-156.595	270.39	2,559.63	1,913.28	1,844.05	69.23	27.636			
10,900.00	8,418.00	12,657.57	10,175.00	58.74	57.47	-156.595	270.68	2,659.63	1,913.28	1,842.20	71.08	26.917			
10,900.00	8,418.00	12,657.57	10,175.00	58.74	57.47	-156.595	270.68	2,659.63	1,913.28	1,842.20	71.08	26.917			
11,000.00	8,418.00	12,757.57	10,175.00	60.64	59.41	-156.595	270.97	2,759.63	1,913.28	1,840.33	72.95	26.227			
11,000.00	8,418.00	12,757.57	10,175.00	60.64	59.41	-156.595	270.97	2,759.63	1,913.28	1,840.33	72.95	26.227			
11,100.00	8,418.00	12,857.57	10,175.00	62.55	61.35	-156.595	271.26	2,859.63	1,913.28	1,838.44	74.84	25.565			
11,100.00	8,418.00	12,857.57	10,175.00	62.55	61.35	-156.595	271.26	2,859.63	1,913.28	1,838.44	74.84	25.565			
11,200.00	8,418.00	12,957.57	10,175.00	64.47	63.30	-156.595	271.56	2,959.63	1,913.28	1,836.54	76.74	24.932			
11,200.00	8,418.00	12,957.57	10,175.00	64.47	63.30	-156.595	271.56	2,959.63	1,913.28	1,836.54	76.74	24.931			
11,300.00	8,418.00	13,057.57	10,175.00	66.40	65.27	-156.595	271.85	3,059.63	1,913.28	1,834.62	78.66	24.324			
11,300.00	8,418.00	13,057.57	10,175.00	66.40	65.27	-156.595	271.85	3,059.63	1,913.28	1,834.62	78.66	24.324			
11,400.00	8,418.00	13,157.57	10,175.00	68.34	67.23	-156.595	272.14	3,159.63	1,913.28	1,832.69	80.59	23.741			
11,400.00	8,418.00	13,157.57	10,175.00	68.34	67.23	-156.595	272.14	3,159.63	1,913.28	1,832.69	80.59	23.741			
11,500.00	8,418.00	13,257.57	10,175.00	70.29	69.21	-156.595	272.43	3,259.63	1,913.28	1,830.75	82.53	23.182			
11,500.00	8,418.00	13,257.57	10,175.00	70.29	69.21	-156.595	272.43	3,259.63	1,913.28	1,830.75	82.53	23.182			
11,600.00	8,418.00	13,357.57	10,175.00	72.24	71.18	-156.595	272.73	3,359.63	1,913.28	1,828.79	84.49	22.645			
11,600.00	8,418.00	13,357.57	10,175.00	72.24	71.18	-156.595	272.73	3,359.63	1,913.28	1,828.79	84.49	22.645			
11,700.00	8,418.00	13,457.57	10,175.00	74.20	73.17	-156.595	273.02	3,459.62	1,913.28	1,826.83	86.46	22.130			
11,700.00	8,418.00	13,457.57	10,175.00	74.20	73.17	-156.595	273.02	3,459.63	1,913.28	1,826.83	86.46	22.130			
11,800.00	8,418.00	13,557.57	10,175.00	76.17	75.16	-156.595	273.31	3,559.62	1,913.28	1,824.85	88.43	21.636			
11,800.00	8,418.00	13,557.57	10,175.00	76.17	75.16	-156.595	273.31	3,559.63	1,913.28	1,824.85	88.43	21.636			
11,900.00	8,418.00	13,657.57	10,175.00	78.14	77.15	-156.595	273.60	3,659.62	1,913.28	1,822.86	90.42	21.160			
11,900.00	8,418.00	13,657.57	10,175.00	78.14	77.15	-156.595	273.60	3,659.63	1,913.28	1,822.86	90.42	21.160			
12,000.00	8,418.00	13,757.57	10,175.00	80.11	79.15	-156.595	273.90	3,759.62	1,913.28	1,820.87	92.41	20.704			
12,000.00	8,418.00	13,757.57	10,175.00	80.11	79.15	-156.595	273.90	3,759.63	1,913.28	1,820.87	92.41	20.704			
12,100.00	8,418.00	13,857.57	10,175.00	82.09	81.15	-156.595	274.19	3,859.62	1,913.28	1,818.86	94.42	20.264			
12,100.00	8,418.00	13,857.57	10,175.00	82.09	81.15	-156.595	274.19	3,859.63	1,913.28	1,818.86	94.42	20.264			
12,200.00	8,418.00	13,957.57	10,175.00	84.08	83.15	-156.595	274.48	3,959.62	1,913.28	1,816.85	96.43	19.842			
12,200.00	8,418.00	13,957.57	10,175.00	84.08	83.15	-156.595	274.48	3,959.63	1,913.28	1,816.85	96.43	19.842			
12,300.00	8,418.00	14,057.57	10,175.00	86.07	85.16	-156.595	274.77	4,059.62	1,913.28	1,814.84	98.44	19.435			
12,300.00	8,418.00	14,057.57	10,175.00	86.07	85.16	-156.595	274.77	4,059.62	1,913.28	1,814.84	98.44	19.435			
12,400.00	8,418.00	14,157.57	10,175.00	88.06	87.17	-156.595	275.07	4,159.62	1,913.28	1,812.81	100.47	19.043			
12,400.00	8,418.00	14,157.57	10,175.00	88.06	87.17	-156.595	275.07	4,159.62	1,913.28	1,812.81	100.47	19.043			
12,500.00	8,418.00	14,257.57	10,175.00	90.05	89.18	-156.595	275.36	4,259.62	1,913.28	1,810.78	102.50	18.666			
12,500.00	8,418.00	14,257.57	10,175.00	90.05	89.18	-156.595	275.36	4,259.62	1,913.28	1,810.78	102.50	18.666			
12,600.00	8,418.00	14,357.57	10,175.00	92.05	91.20	-156.595	275.65	4,359.62	1,913.28	1,808.74	104.54	18.302			
12,600.00	8,418.00	14,357.57	10,175.00	92.05	91.20	-156.595	275.65	4,359.62	1,913.28	1,808.74	104.54	18.302			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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	14,457.57	10,175.00	94.06	93.22	-156.595	275.94	4,459.62	1,913.28	1,806.70	106.58	17.951	
12,700.00	8,418.00	14,457.57	10,175.00	94.06	93.22	-156.595	275.94	4,459.62	1,913.28	1,806.70	106.58	17.951	
12,800.00	8,418.00	14,557.57	10,175.00	96.06	95.24	-156.595	276.24	4,559.62	1,913.28	1,804.65	108.63	17.613	
12,800.00	8,418.00	14,557.57	10,175.00	96.06	95.24	-156.595	276.24	4,559.62	1,913.28	1,804.65	108.63	17.613	
12,900.00	8,418.00	14,657.57	10,175.00	98.07	97.26	-156.595	276.53	4,659.62	1,913.28	1,802.60	110.68	17.286	
12,900.00	8,418.00	14,657.57	10,175.00	98.07	97.26	-156.595	276.53	4,659.62	1,913.28	1,802.60	110.68	17.286	
13,000.00	8,418.00	14,757.57	10,175.00	100.08	99.28	-156.595	276.82	4,759.62	1,913.28	1,800.54	112.74	16.970	
13,000.00	8,418.00	14,757.57	10,175.00	100.08	99.28	-156.595	276.82	4,759.62	1,913.28	1,800.54	112.74	16.970	
13,100.00	8,418.00	14,857.57	10,175.00	102.09	101.31	-156.595	277.11	4,859.62	1,913.28	1,798.48	114.81	16.665	
13,100.00	8,418.00	14,857.57	10,175.00	102.09	101.31	-156.595	277.11	4,859.62	1,913.28	1,798.48	114.81	16.665	
13,200.00	8,418.00	14,957.57	10,175.00	104.11	103.34	-156.595	277.41	4,959.62	1,913.28	1,796.41	116.87	16.371	
13,200.00	8,418.00	14,957.57	10,175.00	104.11	103.34	-156.595	277.41	4,959.62	1,913.28	1,796.41	116.87	16.371	
13,300.00	8,418.00	15,057.57	10,175.00	106.12	105.37	-156.595	277.70	5,059.62	1,913.28	1,794.34	118.94	16.086	
13,300.00	8,418.00	15,057.57	10,175.00	106.12	105.37	-156.595	277.70	5,059.62	1,913.28	1,794.34	118.94	16.086	
13,400.00	8,418.00	15,157.57	10,175.00	108.14	107.40	-156.595	277.99	5,159.62	1,913.28	1,792.26	121.02	15.810	
13,400.00	8,418.00	15,157.57	10,175.00	108.14	107.40	-156.595	277.99	5,159.62	1,913.28	1,792.26	121.02	15.810	
13,500.00	8,418.00	15,257.57	10,175.00	110.16	109.43	-156.595	278.28	5,259.62	1,913.28	1,790.18	123.10	15.543	
13,500.00	8,418.00	15,257.57	10,175.00	110.16	109.43	-156.595	278.28	5,259.62	1,913.28	1,790.18	123.10	15.543	
13,600.00	8,418.00	15,357.57	10,175.00	112.19	111.47	-156.595	278.58	5,359.62	1,913.28	1,788.10	125.18	15.284	
13,600.00	8,418.00	15,357.57	10,175.00	112.19	111.47	-156.595	278.58	5,359.62	1,913.28	1,788.10	125.18	15.284	
13,700.00	8,418.00	15,457.57	10,175.00	114.21	113.50	-156.595	278.87	5,459.62	1,913.28	1,786.02	127.27	15.034	
13,700.00	8,418.00	15,457.57	10,175.00	114.21	113.50	-156.595	278.87	5,459.62	1,913.28	1,786.02	127.27	15.034	
13,800.00	8,418.00	15,557.57	10,175.00	116.24	115.54	-156.595	279.16	5,559.62	1,913.28	1,783.93	129.35	14.791	
13,800.00	8,418.00	15,557.57	10,175.00	116.24	115.54	-156.595	279.16	5,559.62	1,913.28	1,783.93	129.35	14.791	
13,900.00	8,418.00	15,657.57	10,175.00	118.26	117.58	-156.595	279.45	5,659.62	1,913.28	1,781.84	131.45	14.556	
13,900.00	8,418.00	15,657.57	10,175.00	118.26	117.58	-156.595	279.45	5,659.62	1,913.28	1,781.84	131.45	14.556	
14,000.00	8,418.00	15,757.57	10,175.00	120.29	119.61	-156.595	279.75	5,759.62	1,913.28	1,779.74	133.54	14.327	
14,000.00	8,418.00	15,757.57	10,175.00	120.29	119.61	-156.595	279.75	5,759.62	1,913.28	1,779.74	133.54	14.327	
14,100.00	8,418.00	15,857.57	10,175.00	122.32	121.65	-156.595	280.04	5,859.61	1,913.28	1,777.64	135.64	14.106	
14,100.00	8,418.00	15,857.57	10,175.00	122.32	121.65	-156.595	280.04	5,859.61	1,913.28	1,777.64	135.64	14.106	
14,200.00	8,418.00	15,957.57	10,175.00	124.35	123.69	-156.595	280.33	5,959.61	1,913.28	1,775.54	137.74	13.891	
14,200.00	8,418.00	15,957.57	10,175.00	124.35	123.69	-156.595	280.33	5,959.61	1,913.28	1,775.54	137.74	13.891	
14,300.00	8,418.00	16,057.57	10,175.00	126.39	125.74	-156.595	280.62	6,059.61	1,913.28	1,773.44	139.84	13.682	
14,300.00	8,418.00	16,057.57	10,175.00	126.39	125.74	-156.595	280.62	6,059.61	1,913.28	1,773.44	139.84	13.682	
14,400.00	8,418.00	16,157.57	10,175.00	128.42	127.78	-156.595	280.92	6,159.61	1,913.28	1,771.34	141.94	13.479	
14,400.00	8,418.00	16,157.57	10,175.00	128.42	127.78	-156.595	280.92	6,159.61	1,913.28	1,771.34	141.94	13.479	
14,500.00	8,418.00	16,257.57	10,175.00	130.46	129.82	-156.595	281.21	6,259.61	1,913.28	1,769.23	144.05	13.282	
14,500.00	8,418.00	16,257.57	10,175.00	130.46	129.82	-156.595	281.21	6,259.61	1,913.28	1,769.23	144.05	13.282	
14,600.00	8,418.00	16,357.57	10,175.00	132.49	131.87	-156.595	281.50	6,359.61	1,913.28	1,767.12	146.16	13.090	
14,600.00	8,418.00	16,357.57	10,175.00	132.49	131.87	-156.595	281.50	6,359.61	1,913.28	1,767.12	146.16	13.090	
14,700.00	8,418.00	16,457.57	10,175.00	134.53	133.91	-156.595	281.79	6,459.61	1,913.28	1,765.01	148.27	12.904	
14,700.00	8,418.00	16,457.57	10,175.00	134.53	133.91	-156.595	281.79	6,459.61	1,913.28	1,765.01	148.27	12.904	
14,800.00	8,418.00	16,557.57	10,175.00	136.57	135.96	-156.595	282.09	6,559.61	1,913.28	1,762.90	150.38	12.723	
14,800.00	8,418.00	16,557.57	10,175.00	136.57	135.96	-156.595	282.09	6,559.61	1,913.28	1,762.90	150.38	12.723	
14,900.00	8,418.00	16,657.57	10,175.00	138.61	138.01	-156.595	282.38	6,659.61	1,913.28	1,760.78	152.50	12.546	
14,900.00	8,418.00	16,657.57	10,175.00	138.61	138.01	-156.595	282.38	6,659.61	1,913.28	1,760.78	152.50	12.546	
15,000.00	8,418.00	16,757.57	10,175.00	140.65	140.05	-156.595	282.67	6,759.61	1,913.28	1,758.67	154.61	12.375	
15,000.00	8,418.00	16,757.57	10,175.00	140.65	140.05	-156.595	282.67	6,759.61	1,913.28	1,758.67	154.61	12.375	
15,100.00	8,418.00	16,857.57	10,175.00	142.69	142.10	-156.595	282.96	6,859.61	1,913.28	1,756.55	156.73	12.207	
15,100.00	8,418.00	16,857.57	10,175.00	142.69	142.10	-156.595	282.96	6,859.61	1,913.28	1,756.55	156.73	12.207	
15,200.00	8,418.00	16,957.57	10,175.00	144.73	144.15	-156.595	283.26	6,959.61	1,913.28	1,754.43	158.85	12.045	
15,200.00	8,418.00	16,957.57	10,175.00	144.73	144.15	-156.595	283.26	6,959.61	1,913.28	1,754.43	158.85	12.045	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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)		
15,300.00	8,418.00	17,057.57	10,175.00	146.77	146.20	-156.595	283.55	7,059.61	1,913.28	1,752.31	160.97	11.886	
15,300.00	8,418.00	17,057.57	10,175.00	146.77	146.20	-156.595	283.55	7,059.61	1,913.28	1,752.31	160.97	11.886	
15,400.00	8,418.00	17,157.57	10,175.00	148.82	148.25	-156.595	283.84	7,159.61	1,913.28	1,750.19	163.09	11.731	
15,400.00	8,418.00	17,157.57	10,175.00	148.82	148.25	-156.595	283.84	7,159.61	1,913.28	1,750.19	163.10	11.731	
15,500.00	8,418.00	17,257.57	10,175.00	150.86	150.30	-156.595	284.13	7,259.61	1,913.28	1,748.06	165.22	11.580	
15,500.00	8,418.00	17,257.57	10,175.00	150.86	150.30	-156.595	284.13	7,259.61	1,913.28	1,748.06	165.22	11.580	
15,600.00	8,418.00	17,357.57	10,175.00	152.90	152.35	-156.595	284.43	7,359.61	1,913.28	1,745.94	167.35	11.433	
15,600.00	8,418.00	17,357.57	10,175.00	152.90	152.35	-156.595	284.43	7,359.61	1,913.28	1,745.94	167.35	11.433	
15,700.00	8,418.00	17,457.57	10,175.00	154.95	154.40	-156.595	284.72	7,459.61	1,913.28	1,743.81	169.47	11.290	
15,700.00	8,418.00	17,457.57	10,175.00	154.95	154.40	-156.595	284.72	7,459.61	1,913.28	1,743.81	169.47	11.290	
15,800.00	8,418.00	17,557.57	10,175.00	157.00	156.45	-156.595	285.01	7,559.61	1,913.28	1,741.68	171.60	11.150	
15,800.00	8,418.00	17,557.57	10,175.00	157.00	156.45	-156.595	285.01	7,559.61	1,913.28	1,741.68	171.60	11.150	
15,900.00	8,418.00	17,657.57	10,175.00	159.04	158.51	-156.595	285.30	7,659.61	1,913.28	1,739.55	173.73	11.013	
15,900.00	8,418.00	17,657.57	10,175.00	159.04	158.51	-156.595	285.30	7,659.61	1,913.28	1,739.55	173.73	11.013	
16,000.00	8,418.00	17,757.57	10,175.00	161.09	160.56	-156.595	285.60	7,759.61	1,913.28	1,737.42	175.86	10.879	
16,000.00	8,418.00	17,757.57	10,175.00	161.09	160.56	-156.595	285.60	7,759.61	1,913.28	1,737.42	175.86	10.879	
16,100.00	8,418.00	17,857.57	10,175.00	163.14	162.61	-156.595	285.89	7,859.61	1,913.28	1,735.29	177.99	10.749	
16,100.00	8,418.00	17,857.57	10,175.00	163.14	162.61	-156.595	285.89	7,859.61	1,913.28	1,735.29	177.99	10.749	
16,200.00	8,418.00	17,957.57	10,175.00	165.19	164.67	-156.595	286.18	7,959.61	1,913.28	1,733.15	180.13	10.622	
16,200.00	8,418.00	17,957.57	10,175.00	165.19	164.67	-156.595	286.18	7,959.61	1,913.28	1,733.15	180.13	10.622	
16,300.00	8,418.00	18,057.57	10,175.00	167.24	166.72	-156.595	286.47	8,059.61	1,913.28	1,731.02	182.26	10.497	
16,300.00	8,418.00	18,057.57	10,175.00	167.24	166.72	-156.595	286.47	8,059.61	1,913.28	1,731.02	182.26	10.497	
16,400.00	8,418.00	18,157.57	10,175.00	169.28	168.78	-156.595	286.77	8,159.60	1,913.28	1,728.88	184.40	10.376	
16,400.00	8,418.00	18,157.57	10,175.00	169.28	168.78	-156.595	286.77	8,159.60	1,913.28	1,728.88	184.40	10.376	
16,500.00	8,418.00	18,257.57	10,175.00	171.33	170.83	-156.595	287.06	8,259.60	1,913.28	1,726.75	186.53	10.257	
16,500.00	8,418.00	18,257.57	10,175.00	171.33	170.83	-156.595	287.06	8,259.60	1,913.28	1,726.75	186.53	10.257	
16,600.00	8,418.00	18,357.57	10,175.00	173.39	172.89	-156.595	287.35	8,359.60	1,913.28	1,724.61	188.67	10.141	
16,600.00	8,418.00	18,357.57	10,175.00	173.39	172.89	-156.595	287.35	8,359.60	1,913.28	1,724.61	188.67	10.141	
16,700.00	8,418.00	18,457.57	10,175.00	175.44	174.94	-156.595	287.64	8,459.60	1,913.28	1,722.47	190.81	10.027	
16,700.00	8,418.00	18,457.57	10,175.00	175.44	174.94	-156.595	287.64	8,459.60	1,913.28	1,722.47	190.81	10.027	
16,800.00	8,418.00	18,557.57	10,175.00	177.49	177.00	-156.595	287.94	8,559.60	1,913.28	1,720.33	192.95	9.916	
16,800.00	8,418.00	18,557.57	10,175.00	177.49	177.00	-156.595	287.94	8,559.60	1,913.28	1,720.33	192.95	9.916	
16,900.00	8,418.00	18,657.57	10,175.00	179.54	179.05	-156.595	288.23	8,659.60	1,913.28	1,718.19	195.09	9.807	
16,900.00	8,418.00	18,657.57	10,175.00	179.54	179.05	-156.595	288.23	8,659.60	1,913.28	1,718.19	195.09	9.807	
17,000.00	8,418.00	18,757.57	10,175.00	181.59	181.11	-156.595	288.52	8,759.60	1,913.28	1,716.05	197.23	9.701	
17,000.00	8,418.00	18,757.57	10,175.00	181.59	181.11	-156.595	288.52	8,759.60	1,913.28	1,716.05	197.23	9.701	
17,100.00	8,418.00	18,857.57	10,175.00	183.64	183.17	-156.595	288.82	8,859.60	1,913.28	1,713.91	199.37	9.597	
17,100.00	8,418.00	18,857.57	10,175.00	183.64	183.17	-156.595	288.82	8,859.60	1,913.28	1,713.91	199.37	9.597	
17,200.00	8,418.00	18,957.57	10,175.00	185.70	185.22	-156.595	289.11	8,959.60	1,913.28	1,711.77	201.51	9.495	
17,200.00	8,418.00	18,957.57	10,175.00	185.70	185.22	-156.595	289.11	8,959.60	1,913.28	1,711.77	201.51	9.495	
17,300.00	8,418.00	19,057.57	10,175.00	187.75	187.28	-156.595	289.40	9,059.60	1,913.28	1,709.63	203.66	9.395	
17,300.00	8,418.00	19,057.57	10,175.00	187.75	187.28	-156.595	289.40	9,059.60	1,913.28	1,709.63	203.66	9.395	
17,400.00	8,418.00	19,157.57	10,175.00	189.80	189.34	-156.595	289.69	9,159.60	1,913.28	1,707.48	205.80	9.297	
17,400.00	8,418.00	19,157.57	10,175.00	189.80	189.34	-156.595	289.69	9,159.60	1,913.28	1,707.48	205.80	9.297	
17,500.00	8,418.00	19,257.57	10,175.00	191.86	191.40	-156.595	289.99	9,259.60	1,913.28	1,705.34	207.94	9.201	
17,500.00	8,418.00	19,257.57	10,175.00	191.86	191.40	-156.595	289.99	9,259.60	1,913.28	1,705.34	207.94	9.201	
17,600.00	8,418.00	19,357.57	10,175.00	193.91	193.46	-156.595	290.28	9,359.60	1,913.28	1,703.19	210.09	9.107	
17,600.00	8,418.00	19,357.57	10,175.00	193.91	193.46	-156.595	290.28	9,359.60	1,913.28	1,703.19	210.09	9.107	
17,700.00	8,418.00	19,457.57	10,175.00	195.97	195.51	-156.595	290.57	9,459.60	1,913.28	1,701.05	212.24	9.015	
17,700.00	8,418.00	19,457.57	10,175.00	195.97	195.51	-156.595	290.57	9,459.60	1,913.28	1,701.05	212.24	9.015	
17,800.00	8,418.00	19,557.57	10,175.00	198.02	197.57	-156.595	290.86	9,559.60	1,913.28	1,698.90	214.38	8.925	
17,800.00	8,418.00	19,557.57	10,175.00	198.02	197.57	-156.595	290.86	9,559.60	1,913.28	1,698.90	214.38	8.925	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				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	
17,900.00	8,418.00	19,657.57	10,175.00	200.08	199.63	-156.595	291.16	9,659.60	1,913.28	1,696.75	216.53	8.836		
17,900.00	8,418.00	19,657.57	10,175.00	200.08	199.63	-156.595	291.16	9,659.60	1,913.28	1,696.75	216.53	8.836		
18,000.00	8,418.00	19,757.57	10,175.00	202.13	201.69	-156.595	291.45	9,759.60	1,913.28	1,694.60	218.68	8.749		
18,000.00	8,418.00	19,757.57	10,175.00	202.13	201.69	-156.595	291.45	9,759.60	1,913.28	1,694.60	218.68	8.749		
18,100.00	8,418.00	19,857.57	10,175.00	204.19	203.75	-156.595	291.74	9,859.60	1,913.28	1,692.45	220.83	8.664		
18,100.00	8,418.00	19,857.57	10,175.00	204.19	203.75	-156.595	291.74	9,859.60	1,913.28	1,692.45	220.83	8.664		
18,200.00	8,418.00	19,957.57	10,175.00	206.24	205.81	-156.595	292.03	9,959.60	1,913.28	1,690.31	222.98	8.581		
18,200.00	8,418.00	19,957.57	10,175.00	206.24	205.81	-156.595	292.03	9,959.60	1,913.28	1,690.31	222.98	8.581		
18,300.00	8,418.00	20,057.57	10,175.00	208.30	207.87	-156.595	292.33	10,059.60	1,913.28	1,688.16	225.13	8.499		
18,300.00	8,418.00	20,057.57	10,175.00	208.30	207.87	-156.595	292.33	10,059.60	1,913.28	1,688.16	225.13	8.499		
18,400.00	8,418.00	20,157.57	10,175.00	210.36	209.93	-156.595	292.62	10,159.60	1,913.28	1,686.00	227.28	8.418		
18,400.00	8,418.00	20,157.57	10,175.00	210.36	209.93	-156.595	292.62	10,159.60	1,913.28	1,686.00	227.28	8.418		
18,500.00	8,418.00	20,257.57	10,175.00	212.41	211.99	-156.595	292.91	10,259.60	1,913.28	1,683.85	229.43	8.339		
18,500.00	8,418.00	20,257.57	10,175.00	212.41	211.99	-156.595	292.91	10,259.60	1,913.28	1,683.85	229.43	8.339		
18,600.00	8,418.00	20,357.57	10,175.00	214.47	214.05	-156.595	293.20	10,359.60	1,913.28	1,681.70	231.58	8.262		
18,600.00	8,418.00	20,357.57	10,175.00	214.47	214.05	-156.595	293.20	10,359.60	1,913.28	1,681.70	231.58	8.262		
18,700.00	8,418.00	20,457.57	10,175.00	216.53	216.11	-156.595	293.50	10,459.60	1,913.28	1,679.55	233.73	8.186		
18,700.00	8,418.00	20,457.57	10,175.00	216.53	216.11	-156.595	293.50	10,459.60	1,913.28	1,679.55	233.73	8.186		
18,800.00	8,418.00	20,557.57	10,175.00	218.59	218.17	-156.595	293.79	10,559.59	1,913.28	1,677.40	235.88	8.111		
18,800.00	8,418.00	20,557.57	10,175.00	218.59	218.17	-156.595	293.79	10,559.60	1,913.28	1,677.40	235.88	8.111		
18,900.00	8,418.00	20,657.57	10,175.00	220.64	220.23	-156.595	294.08	10,659.59	1,913.28	1,675.25	238.04	8.038		
18,900.00	8,418.00	20,657.57	10,175.00	220.65	220.23	-156.595	294.08	10,659.60	1,913.28	1,675.25	238.04	8.038		
19,000.00	8,418.00	20,757.57	10,175.00	222.70	222.29	-156.595	294.37	10,759.59	1,913.28	1,673.09	240.19	7.966		
19,000.00	8,418.00	20,757.57	10,175.00	222.70	222.29	-156.595	294.37	10,759.60	1,913.28	1,673.09	240.19	7.966		
19,100.00	8,418.00	20,857.57	10,175.00	224.76	224.35	-156.595	294.67	10,859.59	1,913.28	1,670.94	242.34	7.895		
19,100.00	8,418.00	20,857.57	10,175.00	224.76	224.35	-156.595	294.67	10,859.60	1,913.28	1,670.94	242.34	7.895		
19,200.00	8,418.00	20,957.57	10,175.00	226.82	226.42	-156.595	294.96	10,959.59	1,913.28	1,668.78	244.50	7.825		
19,200.00	8,418.00	20,957.57	10,175.00	226.82	226.42	-156.595	294.96	10,959.60	1,913.28	1,668.78	244.50	7.825		
19,300.00	8,418.00	21,057.57	10,175.00	228.88	228.48	-156.595	295.25	11,059.59	1,913.28	1,666.63	246.65	7.757		
19,300.00	8,418.00	21,057.57	10,175.00	228.88	228.48	-156.595	295.25	11,059.59	1,913.28	1,666.63	246.65	7.757		
19,400.00	8,418.00	21,157.57	10,175.00	230.94	230.54	-156.595	295.54	11,159.59	1,913.28	1,664.47	248.81	7.690		
19,400.00	8,418.00	21,157.57	10,175.00	230.94	230.54	-156.595	295.54	11,159.59	1,913.28	1,664.47	248.81	7.690		
19,500.00	8,418.00	21,257.57	10,175.00	233.00	232.60	-156.595	295.84	11,259.59	1,913.28	1,662.32	250.96	7.624		
19,500.00	8,418.00	21,257.57	10,175.00	233.00	232.60	-156.595	295.84	11,259.59	1,913.28	1,662.32	250.96	7.624		
19,600.00	8,418.00	21,357.57	10,175.00	235.06	234.66	-156.595	296.13	11,359.59	1,913.28	1,660.16	253.12	7.559		
19,600.00	8,418.00	21,357.57	10,175.00	235.06	234.66	-156.595	296.13	11,359.59	1,913.28	1,660.16	253.12	7.559		
19,700.00	8,418.00	21,457.57	10,175.00	237.12	236.73	-156.595	296.42	11,459.59	1,913.28	1,658.01	255.27	7.495		
19,700.00	8,418.00	21,457.57	10,175.00	237.12	236.73	-156.595	296.42	11,459.59	1,913.28	1,658.01	255.27	7.495		
19,800.00	8,418.00	21,557.57	10,175.00	239.18	238.79	-156.595	296.71	11,559.59	1,913.28	1,655.85	257.43	7.432		
19,800.00	8,418.00	21,557.57	10,175.00	239.18	238.79	-156.595	296.71	11,559.59	1,913.28	1,655.85	257.43	7.432		
19,900.00	8,418.00	21,657.57	10,175.00	241.24	240.85	-156.595	297.01	11,659.59	1,913.28	1,653.69	259.59	7.370		
19,900.00	8,418.00	21,657.57	10,175.00	241.24	240.85	-156.595	297.01	11,659.59	1,913.28	1,653.69	259.59	7.370		
20,000.00	8,418.00	21,757.57	10,175.00	243.30	242.91	-156.595	297.30	11,759.59	1,913.28	1,651.54	261.75	7.310		
20,000.00	8,418.00	21,757.57	10,175.00	243.30	242.91	-156.595	297.30	11,759.59	1,913.28	1,651.54	261.75	7.310		
20,100.00	8,418.00	21,857.57	10,175.00	245.36	244.98	-156.595	297.59	11,859.59	1,913.28	1,649.38	263.90	7.250		
20,100.00	8,418.00	21,857.57	10,175.00	245.36	244.98	-156.595	297.59	11,859.59	1,913.28	1,649.38	263.90	7.250		
20,200.00	8,418.00	21,957.57	10,175.00	247.42	247.04	-156.595	297.88	11,959.59	1,913.28	1,647.22	266.06	7.191		
20,200.00	8,418.00	21,957.57	10,175.00	247.42	247.04	-156.595	297.88	11,959.59	1,913.28	1,647.22	266.06	7.191		
20,300.00	8,418.00	22,057.57	10,175.00	249.48	249.10	-156.595	298.18	12,059.59	1,913.28	1,645.06	268.22	7.133		
20,300.00	8,418.00	22,057.57	10,175.00	249.48	249.10	-156.595	298.18	12,059.59	1,913.28	1,645.06	268.22	7.133		
20,400.00	8,418.00	22,157.57	10,175.00	251.54	251.16	-156.595	298.47	12,159.59	1,913.28	1,642.90	270.38	7.076		
20,400.00	8,418.00	22,157.57	10,175.00	251.54	251.16	-156.595	298.47	12,159.59	1,913.28	1,642.90	270.38	7.076		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (02) Bond 32-34 FED COM 301H - 301H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,500.00	8,418.00	22,257.57	10,175.00	253.60	253.23	-156.595	298.76	12,259.59	1,913.28	1,640.74	272.54	7.020	
20,500.00	8,418.00	22,257.57	10,175.00	253.60	253.23	-156.595	298.76	12,259.59	1,913.28	1,640.74	272.54	7.020	
20,600.00	8,418.00	22,357.57	10,175.00	255.66	255.29	-156.595	299.05	12,359.59	1,913.28	1,638.59	274.70	6.965	
20,600.00	8,418.00	22,357.57	10,175.00	255.66	255.29	-156.595	299.05	12,359.59	1,913.28	1,638.59	274.70	6.965	
20,700.00	8,418.00	22,457.57	10,175.00	257.72	257.35	-156.595	299.35	12,459.59	1,913.28	1,636.43	276.86	6.911	
20,700.00	8,418.00	22,457.57	10,175.00	257.72	257.35	-156.595	299.35	12,459.59	1,913.28	1,636.43	276.86	6.911	
20,800.00	8,418.00	22,557.57	10,175.00	259.78	259.42	-156.595	299.64	12,559.59	1,913.28	1,634.27	279.02	6.857	
20,800.00	8,418.00	22,557.57	10,175.00	259.78	259.42	-156.595	299.64	12,559.59	1,913.28	1,634.27	279.02	6.857	
20,900.00	8,418.00	22,657.57	10,175.00	261.84	261.48	-156.595	299.93	12,659.59	1,913.28	1,632.11	281.18	6.805	
20,900.00	8,418.00	22,657.57	10,175.00	261.84	261.48	-156.595	299.93	12,659.59	1,913.28	1,632.11	281.18	6.805	
21,000.00	8,418.00	22,757.57	10,175.00	263.90	263.54	-156.595	300.22	12,759.59	1,913.28	1,629.94	283.34	6.753	
21,000.00	8,418.00	22,757.57	10,175.00	263.90	263.54	-156.595	300.22	12,759.59	1,913.28	1,629.94	283.34	6.753	
21,100.00	8,418.00	22,857.57	10,175.00	265.97	265.61	-156.595	300.52	12,859.58	1,913.28	1,627.78	285.50	6.702	
21,100.00	8,418.00	22,857.57	10,175.00	265.97	265.61	-156.595	300.52	12,859.58	1,913.28	1,627.78	285.50	6.702	
21,200.00	8,418.00	22,957.57	10,175.00	268.03	267.67	-156.595	300.81	12,959.58	1,913.28	1,625.62	287.66	6.651	
21,200.00	8,418.00	22,957.57	10,175.00	268.03	267.67	-156.595	300.81	12,959.58	1,913.28	1,625.62	287.66	6.651	
21,300.00	8,418.00	23,057.57	10,175.00	270.09	269.74	-156.595	301.10	13,059.58	1,913.28	1,623.46	289.82	6.602	
21,300.00	8,418.00	23,057.57	10,175.00	270.09	269.74	-156.595	301.10	13,059.58	1,913.28	1,623.46	289.82	6.602	
21,400.00	8,418.00	23,157.57	10,175.00	272.15	271.80	-156.595	301.39	13,159.58	1,913.28	1,621.30	291.98	6.553	
21,400.00	8,418.00	23,157.57	10,175.00	272.15	271.80	-156.595	301.39	13,159.58	1,913.28	1,621.30	291.98	6.553	
21,500.00	8,418.00	23,257.57	10,175.00	274.21	273.86	-156.595	301.69	13,259.58	1,913.28	1,619.14	294.14	6.505	
21,500.00	8,418.00	23,257.57	10,175.00	274.21	273.86	-156.595	301.69	13,259.58	1,913.28	1,619.14	294.14	6.505	
21,600.00	8,418.00	23,357.57	10,175.00	276.28	275.93	-156.595	301.98	13,359.58	1,913.28	1,616.98	296.31	6.457	
21,600.00	8,418.00	23,357.57	10,175.00	276.28	275.93	-156.595	301.98	13,359.58	1,913.28	1,616.98	296.31	6.457	
21,700.00	8,418.00	23,457.57	10,175.00	278.34	277.99	-156.595	302.27	13,459.58	1,913.28	1,614.81	298.47	6.410	
21,700.00	8,418.00	23,457.57	10,175.00	278.34	277.99	-156.595	302.27	13,459.58	1,913.28	1,614.81	298.47	6.410	
21,800.00	8,418.00	23,557.57	10,175.00	280.40	280.06	-156.595	302.56	13,559.58	1,913.28	1,612.65	300.63	6.364	
21,800.01	8,418.00	23,557.58	10,175.00	280.40	280.06	-156.595	302.56	13,559.58	1,913.28	1,612.65	300.63	6.364	
21,818.82	8,418.00	23,573.59	10,175.00	280.79	280.39	-156.595	302.61	13,575.60	1,913.28	1,612.29	300.99	6.357 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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - 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	2.73	2.73	0.00	0.02	113.814	-92.15	208.79	228.22				
100.00	100.00	102.73	102.73	0.79	0.80	113.814	-92.15	208.79	228.22	226.63	1.59	143.596	
200.00	200.00	202.73	202.73	1.45	1.46	113.814	-92.15	208.79	228.22	225.32	2.90	78.579	
300.00	300.00	302.73	302.73	1.89	1.90	113.814	-92.15	208.79	228.22	224.43	3.79	60.165	
400.00	400.00	402.73	402.73	2.25	2.26	113.814	-92.15	208.79	228.22	223.71	4.52	50.537	
500.00	500.00	502.73	502.73	2.57	2.58	113.814	-92.15	208.79	228.22	223.08	5.14	44.375	
600.00	600.00	602.73	602.73	2.85	2.86	113.814	-92.15	208.79	228.22	222.51	5.71	39.995	
700.00	700.00	702.73	702.73	3.11	3.11	113.814	-92.15	208.79	228.22	222.00	6.22	36.674	
800.00	800.00	802.73	802.73	3.35	3.35	113.814	-92.15	208.79	228.22	221.52	6.70	34.044	
900.00	900.00	902.73	902.73	3.58	3.58	113.814	-92.15	208.79	228.22	221.06	7.16	31.892	
1,000.00	1,000.00	1,002.73	1,002.73	3.79	3.80	113.814	-92.15	208.79	228.22	220.64	7.59	30.088	
1,100.00	1,100.00	1,102.73	1,102.73	3.99	4.00	113.814	-92.15	208.79	228.22	220.23	7.99	28.548	
1,200.00	1,200.00	1,202.73	1,202.73	4.19	4.20	113.814	-92.15	208.79	228.22	219.83	8.39	27.212	
1,300.00	1,300.00	1,302.73	1,302.73	4.38	4.38	113.814	-92.15	208.79	228.22	219.46	8.76	26.039	
1,400.00	1,400.00	1,402.73	1,402.73	4.56	4.57	113.814	-92.15	208.79	228.22	219.09	9.13	24.997	
1,500.00	1,500.00	1,502.73	1,502.73	4.74	4.74	113.814	-92.15	208.79	228.22	218.74	9.48	24.064	
1,600.00	1,600.00	1,602.73	1,602.73	4.91	4.92	113.814	-92.15	208.79	228.22	218.39	9.83	23.222	
1,700.00	1,700.00	1,702.73	1,702.73	5.08	5.08	113.814	-92.15	208.79	228.22	218.06	10.16	22.457	
1,800.00	1,800.00	1,802.73	1,802.73	5.24	5.25	113.814	-92.15	208.79	228.22	217.73	10.49	21.757	
1,900.00	1,900.00	1,902.73	1,902.73	5.40	5.41	113.814	-92.15	208.79	228.22	217.41	10.81	21.114	
2,000.00	2,000.00	2,002.86	2,002.86	5.56	5.57	113.814	-92.15	208.79	228.22	217.10	11.12	20.519	
2,100.00	2,099.98	2,107.47	2,107.44	5.78	5.82	-71.980	-90.17	208.41	226.58	215.14	11.45	19.795	
2,200.00	2,199.84	2,211.28	2,211.09	5.98	6.08	-74.638	-84.50	207.32	222.08	210.35	11.73	18.934	
2,300.00	2,299.46	2,313.56	2,312.93	6.09	6.35	-79.101	-75.31	205.56	215.63	203.71	11.93	18.082	
2,400.00	2,399.01	2,414.22	2,412.78	6.26	6.63	-84.783	-62.79	203.16	209.05	196.89	12.16	17.187	
2,500.00	2,498.56	2,513.21	2,510.47	6.45	6.93	-91.576	-47.12	200.16	203.72	191.33	12.39	16.448	
2,600.00	2,598.11	2,610.34	2,605.73	6.65	7.24	-99.386	-28.54	196.60	201.02	188.40	12.62	15.929	
2,620.72	2,618.73	2,630.21	2,625.14	6.69	7.31	-101.110	-24.35	195.79	200.92	188.25	12.67	15.854 CC, ES	
2,700.00	2,697.65	2,705.44	2,698.33	6.87	7.56	-107.944	-7.28	192.52	202.44	189.53	12.91	15.685	
2,800.00	2,797.20	2,798.37	2,788.08	7.10	7.89	-116.813	16.40	187.98	209.33	196.03	13.29	15.746	
2,900.00	2,896.75	2,889.84	2,875.64	7.35	8.15	-125.522	42.34	183.01	222.53	208.78	13.75	16.182	
3,000.00	2,996.30	2,982.23	2,963.90	7.61	8.45	-133.428	69.18	177.86	241.27	226.90	14.36	16.795	
3,100.00	3,095.84	3,074.62	3,052.16	7.89	8.77	-140.203	96.01	172.72	264.25	249.20	15.05	17.558	
3,200.00	3,195.39	3,167.01	3,140.42	8.17	9.10	-145.922	122.84	167.58	290.47	274.70	15.77	18.417	
3,300.00	3,294.94	3,259.40	3,228.67	8.46	9.44	-150.724	149.68	162.43	319.13	302.62	16.51	19.325	
3,400.00	3,394.49	3,351.79	3,316.93	8.76	9.79	-154.760	176.51	157.29	349.64	332.37	17.27	20.251	
3,500.00	3,494.03	3,444.18	3,405.19	9.07	10.16	-158.168	203.34	152.14	381.55	363.52	18.02	21.169	
3,600.00	3,593.58	3,536.57	3,493.45	9.38	10.53	-161.065	230.18	147.00	414.53	395.74	18.79	22.066	
3,700.00	3,693.13	3,628.96	3,581.70	9.70	10.91	-163.545	257.01	141.86	448.35	428.80	19.55	22.931	
3,800.00	3,792.67	3,721.35	3,669.96	10.03	11.29	-165.686	283.85	136.71	482.84	462.52	20.32	23.760	
3,900.00	3,892.22	3,813.74	3,758.22	10.36	11.69	-167.547	310.68	131.57	517.86	496.77	21.10	24.549	
4,000.00	3,991.77	3,906.13	3,846.48	10.69	12.09	-169.176	337.51	126.43	553.31	531.44	21.87	25.298	
4,100.00	4,091.32	3,998.51	3,934.73	11.03	12.49	-170.612	364.35	121.28	589.11	566.46	22.65	26.007	
4,200.00	4,190.86	4,090.90	4,022.99	11.37	12.90	-171.887	391.18	116.14	625.20	601.77	23.44	26.677	
4,300.00	4,290.41	4,183.29	4,111.25	11.72	13.31	-173.024	418.01	110.99	661.54	637.32	24.22	27.310	
4,400.00	4,389.96	4,275.68	4,199.51	12.07	13.73	-174.044	444.85	105.85	698.08	673.07	25.01	27.908	
4,500.00	4,489.51	4,368.07	4,287.76	12.42	14.15	-174.963	471.68	100.71	734.80	708.99	25.81	28.473	
4,600.00	4,589.05	4,460.46	4,376.02	12.77	14.57	-175.797	498.51	95.56	771.67	745.06	26.60	29.006	
4,700.00	4,688.60	4,552.85	4,464.28	13.13	15.00	-176.554	525.35	90.42	808.67	781.26	27.40	29.509	
4,800.00	4,788.15	4,645.24	4,552.53	13.49	15.43	-177.246	552.18	85.27	845.78	817.57	28.21	29.986	
4,900.00	4,887.70	4,737.63	4,640.79	13.85	15.86	-177.881	579.02	80.13	882.99	853.98	29.01	30.436	
5,000.00	4,987.24	4,830.02	4,729.05	14.21	16.29	-178.464	605.85	74.99	920.28	890.46	29.82	30.862	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - 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	10,816.53	9,360.00	37.36	41.27	-117.556	1,307.16	1,456.59	2,030.32	1,959.80	70.52	28.790	
9,800.00	8,418.00	10,916.53	9,360.00	38.98	42.75	-117.556	1,307.46	1,556.59	2,030.32	1,957.01	73.31	27.693	
9,800.00	8,418.00	10,916.53	9,360.00	38.98	42.75	-117.556	1,307.46	1,556.59	2,030.32	1,957.01	73.31	27.693	
9,900.00	8,418.00	11,016.53	9,360.00	40.65	44.27	-117.556	1,307.75	1,656.59	2,030.32	1,954.13	76.19	26.648	
9,900.00	8,418.00	11,016.53	9,360.00	40.65	44.27	-117.556	1,307.75	1,656.59	2,030.32	1,954.13	76.19	26.648	
10,000.00	8,418.00	11,116.53	9,360.00	42.35	45.83	-117.556	1,308.04	1,756.59	2,030.32	1,951.19	79.14	25.655	
10,000.00	8,418.00	11,116.53	9,360.00	42.35	45.83	-117.556	1,308.04	1,756.59	2,030.32	1,951.19	79.14	25.655	
10,100.00	8,418.00	11,216.53	9,360.00	44.08	47.44	-117.556	1,308.33	1,856.59	2,030.32	1,948.17	82.15	24.714	
10,100.00	8,418.00	11,216.53	9,360.00	44.08	47.44	-117.556	1,308.33	1,856.59	2,030.32	1,948.17	82.15	24.714	
10,200.00	8,418.00	11,316.53	9,360.00	45.84	49.08	-117.556	1,308.63	1,956.59	2,030.32	1,945.10	85.22	23.824	
10,200.00	8,418.00	11,316.53	9,360.00	45.84	49.08	-117.556	1,308.63	1,956.59	2,030.32	1,945.10	85.22	23.824	
10,300.00	8,418.00	11,416.53	9,360.00	47.63	50.75	-117.556	1,308.92	2,056.59	2,030.32	1,941.98	88.34	22.982	
10,300.00	8,418.00	11,416.53	9,360.00	47.63	50.75	-117.556	1,308.92	2,056.59	2,030.32	1,941.98	88.34	22.982	
10,400.00	8,418.00	11,516.53	9,360.00	49.44	52.45	-117.556	1,309.21	2,156.59	2,030.32	1,938.81	91.51	22.186	
10,400.00	8,418.00	11,516.53	9,360.00	49.44	52.45	-117.556	1,309.21	2,156.59	2,030.32	1,938.81	91.51	22.186	
10,500.00	8,418.00	11,616.53	9,360.00	51.27	54.17	-117.556	1,309.50	2,256.59	2,030.32	1,935.60	94.72	21.434	
10,500.00	8,418.00	11,616.53	9,360.00	51.27	54.17	-117.556	1,309.50	2,256.59	2,030.32	1,935.60	94.72	21.434	
10,600.00	8,418.00	11,716.53	9,360.00	53.11	55.92	-117.556	1,309.80	2,356.59	2,030.32	1,932.35	97.97	20.723	
10,600.00	8,418.00	11,716.53	9,360.00	53.11	55.92	-117.556	1,309.80	2,356.59	2,030.32	1,932.35	97.97	20.723	
10,700.00	8,418.00	11,816.53	9,360.00	54.97	57.69	-117.556	1,310.09	2,456.59	2,030.32	1,929.07	101.26	20.052	
10,700.00	8,418.00	11,816.53	9,360.00	54.97	57.69	-117.556	1,310.09	2,456.59	2,030.32	1,929.07	101.26	20.052	
10,800.00	8,418.00	11,916.53	9,360.00	56.85	59.48	-117.556	1,310.38	2,556.59	2,030.32	1,925.76	104.57	19.416	
10,800.00	8,418.00	11,916.53	9,360.00	56.85	59.48	-117.556	1,310.38	2,556.59	2,030.32	1,925.76	104.57	19.416	
10,900.00	8,418.00	12,016.53	9,360.00	58.74	61.28	-117.556	1,310.67	2,656.59	2,030.32	1,922.42	107.91	18.815	
10,900.00	8,418.00	12,016.53	9,360.00	58.74	61.28	-117.556	1,310.67	2,656.59	2,030.32	1,922.42	107.91	18.815	
11,000.00	8,418.00	12,116.53	9,360.00	60.64	63.10	-117.556	1,310.97	2,756.59	2,030.32	1,919.05	111.28	18.246	
11,000.00	8,418.00	12,116.53	9,360.00	60.64	63.10	-117.556	1,310.97	2,756.59	2,030.32	1,919.05	111.28	18.246	
11,100.00	8,418.00	12,216.53	9,360.00	62.55	64.94	-117.556	1,311.26	2,856.59	2,030.32	1,915.66	114.67	17.706	
11,100.00	8,418.00	12,216.53	9,360.00	62.55	64.94	-117.556	1,311.26	2,856.59	2,030.32	1,915.66	114.67	17.706	
11,200.00	8,418.00	12,316.53	9,360.00	64.47	66.79	-117.556	1,311.55	2,956.59	2,030.32	1,912.25	118.08	17.195	
11,200.00	8,418.00	12,316.53	9,360.00	64.47	66.79	-117.556	1,311.55	2,956.59	2,030.32	1,912.25	118.08	17.195	
11,300.00	8,418.00	12,416.53	9,360.00	66.40	68.66	-117.556	1,311.84	3,056.58	2,030.32	1,908.82	121.51	16.710	
11,300.00	8,418.00	12,416.53	9,360.00	66.40	68.66	-117.556	1,311.84	3,056.58	2,030.32	1,908.82	121.51	16.710	
11,400.00	8,418.00	12,516.53	9,360.00	68.34	70.53	-117.556	1,312.14	3,156.58	2,030.32	1,905.37	124.95	16.249	
11,400.00	8,418.00	12,516.53	9,360.00	68.34	70.53	-117.556	1,312.14	3,156.58	2,030.32	1,905.37	124.95	16.249	
11,500.00	8,418.00	12,616.53	9,360.00	70.29	72.42	-117.556	1,312.43	3,256.58	2,030.32	1,901.91	128.42	15.810	
11,500.00	8,418.00	12,616.53	9,360.00	70.29	72.42	-117.556	1,312.43	3,256.58	2,030.32	1,901.91	128.42	15.810	
11,600.00	8,418.00	12,716.53	9,360.00	72.24	74.31	-117.556	1,312.72	3,356.58	2,030.32	1,898.43	131.90	15.393	
11,600.00	8,418.00	12,716.53	9,360.00	72.24	74.31	-117.556	1,312.72	3,356.58	2,030.32	1,898.43	131.90	15.393	
11,700.00	8,418.00	12,816.53	9,360.00	74.20	76.22	-117.556	1,313.01	3,456.58	2,030.32	1,894.93	135.39	14.996	
11,700.00	8,418.00	12,816.53	9,360.00	74.20	76.22	-117.556	1,313.01	3,456.58	2,030.32	1,894.93	135.39	14.996	
11,800.00	8,418.00	12,916.53	9,360.00	76.17	78.13	-117.556	1,313.31	3,556.58	2,030.32	1,891.43	138.90	14.618	
11,800.00	8,418.00	12,916.53	9,360.00	76.17	78.13	-117.556	1,313.31	3,556.58	2,030.32	1,891.43	138.90	14.618	
11,900.00	8,418.00	13,016.53	9,360.00	78.14	80.05	-117.556	1,313.60	3,656.58	2,030.32	1,887.91	142.41	14.256	
11,900.00	8,418.00	13,016.53	9,360.00	78.14	80.05	-117.556	1,313.60	3,656.58	2,030.32	1,887.91	142.41	14.256	
12,000.00	8,418.00	13,116.53	9,360.00	80.11	81.98	-117.556	1,313.89	3,756.58	2,030.32	1,884.38	145.94	13.912	
12,000.00	8,418.00	13,116.53	9,360.00	80.11	81.98	-117.556	1,313.89	3,756.58	2,030.32	1,884.38	145.94	13.912	
12,100.00	8,418.00	13,216.53	9,360.00	82.09	83.91	-117.556	1,314.18	3,856.58	2,030.32	1,880.84	149.48	13.582	
12,100.00	8,418.00	13,216.53	9,360.00	82.09	83.91	-117.556	1,314.18	3,856.58	2,030.32	1,880.84	149.48	13.582	
12,200.00	8,418.00	13,316.53	9,360.00	84.08	85.85	-117.556	1,314.48	3,956.58	2,030.32	1,877.30	153.03	13.268	
12,200.00	8,418.00	13,316.53	9,360.00	84.08	85.85	-117.556	1,314.48	3,956.58	2,030.32	1,877.30	153.03	13.268	
12,300.00	8,418.00	13,416.53	9,360.00	86.07	87.80	-117.556	1,314.77	4,056.58	2,030.32	1,873.74	156.59	12.966	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - Plan 2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,300.00	8,418.00	13,416.53	9,360.00	86.07	87.80	-117.556	1,314.77	4,056.58	2,030.32	1,873.74	156.59	12.966	
12,400.00	8,418.00	13,516.53	9,360.00	88.06	89.75	-117.556	1,315.06	4,156.58	2,030.32	1,870.17	160.15	12.678	
12,400.00	8,418.00	13,516.53	9,360.00	88.06	89.75	-117.556	1,315.06	4,156.58	2,030.32	1,870.17	160.15	12.678	
12,500.00	8,418.00	13,616.53	9,360.00	90.05	91.71	-117.556	1,315.35	4,256.58	2,030.32	1,866.60	163.72	12.401	
12,500.00	8,418.00	13,616.53	9,360.00	90.05	91.71	-117.556	1,315.35	4,256.58	2,030.32	1,866.60	163.72	12.401	
12,600.00	8,418.00	13,716.53	9,360.00	92.05	93.67	-117.556	1,315.65	4,356.58	2,030.32	1,863.02	167.30	12.136	
12,600.00	8,418.00	13,716.53	9,360.00	92.05	93.67	-117.556	1,315.65	4,356.58	2,030.32	1,863.02	167.30	12.136	
12,700.00	8,418.00	13,816.53	9,360.00	94.06	95.64	-117.556	1,315.94	4,456.58	2,030.32	1,859.43	170.89	11.881	
12,700.00	8,418.00	13,816.53	9,360.00	94.06	95.64	-117.556	1,315.94	4,456.58	2,030.32	1,859.43	170.89	11.881	
12,800.00	8,418.00	13,916.53	9,360.00	96.06	97.61	-117.556	1,316.23	4,556.58	2,030.32	1,855.84	174.48	11.636	
12,800.00	8,418.00	13,916.53	9,360.00	96.06	97.61	-117.556	1,316.23	4,556.58	2,030.32	1,855.84	174.48	11.636	
12,900.00	8,418.00	14,016.53	9,360.00	98.07	99.58	-117.556	1,316.52	4,656.58	2,030.32	1,852.24	178.08	11.401	
12,900.00	8,418.00	14,016.53	9,360.00	98.07	99.58	-117.556	1,316.52	4,656.58	2,030.32	1,852.24	178.08	11.401	
13,000.00	8,418.00	14,116.53	9,360.00	100.08	101.56	-117.556	1,316.82	4,756.58	2,030.32	1,848.64	181.69	11.175	
13,000.00	8,418.00	14,116.53	9,360.00	100.08	101.56	-117.556	1,316.82	4,756.58	2,030.32	1,848.64	181.69	11.175	
13,100.00	8,418.00	14,216.53	9,360.00	102.09	103.55	-117.556	1,317.11	4,856.58	2,030.32	1,845.03	185.30	10.957	
13,100.00	8,418.00	14,216.53	9,360.00	102.09	103.55	-117.556	1,317.11	4,856.58	2,030.32	1,845.03	185.30	10.957	
13,200.00	8,418.00	14,316.53	9,360.00	104.11	105.53	-117.556	1,317.40	4,956.58	2,030.32	1,841.41	188.91	10.747	
13,200.00	8,418.00	14,316.53	9,360.00	104.11	105.53	-117.556	1,317.40	4,956.58	2,030.32	1,841.41	188.91	10.747	
13,300.00	8,418.00	14,416.53	9,360.00	106.12	107.52	-117.556	1,317.69	5,056.58	2,030.32	1,837.79	192.53	10.545	
13,300.00	8,418.00	14,416.53	9,360.00	106.12	107.52	-117.556	1,317.69	5,056.58	2,030.32	1,837.79	192.53	10.545	
13,400.00	8,418.00	14,516.53	9,360.00	108.14	109.51	-117.556	1,317.99	5,156.58	2,030.32	1,834.17	196.16	10.351	
13,400.00	8,418.00	14,516.53	9,360.00	108.14	109.51	-117.556	1,317.99	5,156.58	2,030.32	1,834.17	196.16	10.351	
13,500.00	8,418.00	14,616.53	9,360.00	110.16	111.51	-117.556	1,318.28	5,256.58	2,030.32	1,830.54	199.78	10.163	
13,500.00	8,418.00	14,616.53	9,360.00	110.16	111.51	-117.556	1,318.28	5,256.58	2,030.32	1,830.54	199.78	10.163	
13,600.00	8,418.00	14,716.53	9,360.00	112.19	113.51	-117.556	1,318.57	5,356.58	2,030.32	1,826.91	203.42	9.981	
13,600.00	8,418.00	14,716.53	9,360.00	112.19	113.51	-117.556	1,318.57	5,356.58	2,030.32	1,826.91	203.42	9.981	
13,700.00	8,418.00	14,816.53	9,360.00	114.21	115.51	-117.556	1,318.86	5,456.57	2,030.32	1,823.27	207.05	9.806	
13,700.00	8,418.00	14,816.53	9,360.00	114.21	115.51	-117.556	1,318.86	5,456.57	2,030.32	1,823.27	207.05	9.806	
13,800.00	8,418.00	14,916.53	9,360.00	116.24	117.51	-117.556	1,319.16	5,556.57	2,030.32	1,819.63	210.69	9.636	
13,800.00	8,418.00	14,916.53	9,360.00	116.24	117.51	-117.556	1,319.16	5,556.57	2,030.32	1,819.63	210.69	9.636	
13,900.00	8,418.00	15,016.53	9,360.00	118.26	119.51	-117.556	1,319.45	5,656.57	2,030.32	1,815.99	214.33	9.473	
13,900.00	8,418.00	15,016.53	9,360.00	118.26	119.51	-117.556	1,319.45	5,656.57	2,030.32	1,815.99	214.33	9.473	
14,000.00	8,418.00	15,116.53	9,360.00	120.29	121.52	-117.556	1,319.74	5,756.57	2,030.32	1,812.34	217.98	9.314	
14,000.00	8,418.00	15,116.53	9,360.00	120.29	121.52	-117.556	1,319.74	5,756.57	2,030.32	1,812.34	217.98	9.314	
14,100.00	8,418.00	15,216.53	9,360.00	122.32	123.53	-117.556	1,320.03	5,856.57	2,030.32	1,808.70	221.63	9.161	
14,100.00	8,418.00	15,216.53	9,360.00	122.32	123.53	-117.556	1,320.03	5,856.57	2,030.32	1,808.70	221.63	9.161	
14,200.00	8,418.00	15,316.53	9,360.00	124.35	125.54	-117.556	1,320.33	5,956.57	2,030.32	1,805.04	225.28	9.012	
14,200.00	8,418.00	15,316.53	9,360.00	124.35	125.54	-117.556	1,320.33	5,956.57	2,030.32	1,805.04	225.28	9.012	
14,300.00	8,418.00	15,416.53	9,360.00	126.39	127.55	-117.556	1,320.62	6,056.57	2,030.32	1,801.39	228.93	8.869	
14,300.00	8,418.00	15,416.53	9,360.00	126.39	127.55	-117.556	1,320.62	6,056.57	2,030.32	1,801.39	228.94	8.869	
14,400.00	8,418.00	15,516.53	9,360.00	128.42	129.57	-117.556	1,320.91	6,156.57	2,030.32	1,797.73	232.59	8.729	
14,400.00	8,418.00	15,516.53	9,360.00	128.42	129.57	-117.556	1,320.91	6,156.57	2,030.32	1,797.73	232.59	8.729	
14,500.00	8,418.00	15,616.53	9,360.00	130.46	131.58	-117.556	1,321.20	6,256.57	2,030.32	1,794.07	236.25	8.594	
14,500.00	8,418.00	15,616.53	9,360.00	130.46	131.58	-117.556	1,321.20	6,256.57	2,030.32	1,794.07	236.25	8.594	
14,600.00	8,418.00	15,716.53	9,360.00	132.49	133.60	-117.556	1,321.50	6,356.57	2,030.32	1,790.41	239.91	8.463	
14,600.00	8,418.00	15,716.53	9,360.00	132.49	133.60	-117.556	1,321.50	6,356.57	2,030.32	1,790.41	239.91	8.463	
14,700.00	8,418.00	15,816.53	9,360.00	134.53	135.62	-117.556	1,321.79	6,456.57	2,030.32	1,786.75	243.58	8.335	
14,700.00	8,418.00	15,816.53	9,360.00	134.53	135.62	-117.556	1,321.79	6,456.57	2,030.32	1,786.75	243.58	8.335	
14,800.00	8,418.00	15,916.53	9,360.00	136.57	137.64	-117.556	1,322.08	6,556.57	2,030.32	1,783.08	247.24	8.212	
14,800.00	8,418.00	15,916.53	9,360.00	136.57	137.64	-117.556	1,322.08	6,556.57	2,030.32	1,783.08	247.24	8.212	
14,900.00	8,418.00	16,016.53	9,360.00	138.61	139.67	-117.556	1,322.37	6,656.57	2,030.32	1,779.41	250.91	8.092	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - 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)	
14,900.00	8,418.00	16,016.53	9,360.00	138.61	139.67	-117.556	1,322.37	6,656.57	2,030.32	1,779.41	
15,000.00	8,418.00	16,116.53	9,360.00	140.65	141.69	-117.556	1,322.67	6,756.57	2,030.32	1,775.74	
15,000.00	8,418.00	16,116.53	9,360.00	140.65	141.69	-117.556	1,322.67	6,756.57	2,030.32	1,775.74	
15,100.00	8,418.00	16,216.53	9,360.00	142.69	143.71	-117.556	1,322.96	6,856.57	2,030.32	1,772.07	
15,100.00	8,418.00	16,216.53	9,360.00	142.69	143.71	-117.556	1,322.96	6,856.57	2,030.32	1,772.07	
15,200.00	8,418.00	16,316.53	9,360.00	144.73	145.74	-117.556	1,323.25	6,956.57	2,030.32	1,768.40	
15,200.00	8,418.00	16,316.53	9,360.00	144.73	145.74	-117.556	1,323.25	6,956.57	2,030.32	1,768.39	
15,300.00	8,418.00	16,416.53	9,360.00	146.77	147.77	-117.556	1,323.54	7,056.57	2,030.32	1,764.72	
15,300.00	8,418.00	16,416.53	9,360.00	146.77	147.77	-117.556	1,323.54	7,056.57	2,030.32	1,764.72	
15,400.00	8,418.00	16,516.53	9,360.00	148.82	149.80	-117.556	1,323.84	7,156.57	2,030.32	1,761.04	
15,400.00	8,418.00	16,516.53	9,360.00	148.82	149.80	-117.556	1,323.84	7,156.57	2,030.32	1,761.04	
15,500.00	8,418.00	16,616.53	9,360.00	150.86	151.83	-117.556	1,324.13	7,256.57	2,030.32	1,757.36	
15,500.00	8,418.00	16,616.53	9,360.00	150.86	151.83	-117.556	1,324.13	7,256.57	2,030.32	1,757.36	
15,600.00	8,418.00	16,716.53	9,360.00	152.90	153.86	-117.556	1,324.42	7,356.57	2,030.32	1,753.68	
15,600.00	8,418.00	16,716.53	9,360.00	152.90	153.86	-117.556	1,324.42	7,356.57	2,030.32	1,753.68	
15,700.00	8,418.00	16,816.53	9,360.00	154.95	155.89	-117.556	1,324.71	7,456.57	2,030.32	1,750.00	
15,700.00	8,418.00	16,816.53	9,360.00	154.95	155.89	-117.556	1,324.71	7,456.57	2,030.32	1,750.00	
15,800.00	8,418.00	16,916.53	9,360.00	157.00	157.92	-117.556	1,325.01	7,556.57	2,030.32	1,746.32	
15,800.00	8,418.00	16,916.53	9,360.00	157.00	157.92	-117.556	1,325.01	7,556.57	2,030.32	1,746.32	
15,900.00	8,418.00	17,016.53	9,360.00	159.04	159.96	-117.556	1,325.30	7,656.57	2,030.32	1,742.63	
15,900.00	8,418.00	17,016.53	9,360.00	159.04	159.96	-117.556	1,325.30	7,656.57	2,030.32	1,742.63	
16,000.00	8,418.00	17,116.53	9,360.00	161.09	161.99	-117.556	1,325.59	7,756.56	2,030.32	1,738.94	
16,000.00	8,418.00	17,116.53	9,360.00	161.09	161.99	-117.556	1,325.59	7,756.57	2,030.32	1,738.94	
16,100.00	8,418.00	17,216.53	9,360.00	163.14	164.03	-117.556	1,325.88	7,856.56	2,030.32	1,735.26	
16,100.00	8,418.00	17,216.53	9,360.00	163.14	164.03	-117.556	1,325.88	7,856.57	2,030.32	1,735.26	
16,200.00	8,418.00	17,316.53	9,360.00	165.19	166.07	-117.556	1,326.18	7,956.56	2,030.32	1,731.57	
16,200.00	8,418.00	17,316.53	9,360.00	165.19	166.07	-117.556	1,326.18	7,956.57	2,030.32	1,731.57	
16,300.00	8,418.00	17,416.53	9,360.00	167.24	168.10	-117.556	1,326.47	8,056.56	2,030.32	1,727.88	
16,300.00	8,418.00	17,416.53	9,360.00	167.24	168.10	-117.556	1,326.47	8,056.57	2,030.32	1,727.88	
16,400.00	8,418.00	17,516.53	9,360.00	169.28	170.14	-117.556	1,326.76	8,156.56	2,030.32	1,724.19	
16,400.00	8,418.00	17,516.53	9,360.00	169.28	170.14	-117.556	1,326.76	8,156.57	2,030.32	1,724.19	
16,500.00	8,418.00	17,616.53	9,360.00	171.33	172.18	-117.556	1,327.05	8,256.56	2,030.32	1,720.50	
16,500.00	8,418.00	17,616.53	9,360.00	171.33	172.18	-117.556	1,327.05	8,256.57	2,030.32	1,720.50	
16,600.00	8,418.00	17,716.53	9,360.00	173.39	174.22	-117.556	1,327.35	8,356.56	2,030.32	1,716.80	
16,600.00	8,418.00	17,716.53	9,360.00	173.39	174.22	-117.556	1,327.35	8,356.56	2,030.32	1,716.80	
16,700.00	8,418.00	17,816.53	9,360.00	175.44	176.26	-117.556	1,327.64	8,456.56	2,030.32	1,713.11	
16,700.00	8,418.00	17,816.53	9,360.00	175.44	176.26	-117.556	1,327.64	8,456.56	2,030.32	1,713.11	
16,800.00	8,418.00	17,916.53	9,360.00	177.49	178.30	-117.556	1,327.93	8,556.56	2,030.32	1,709.41	
16,800.00	8,418.00	17,916.53	9,360.00	177.49	178.30	-117.556	1,327.93	8,556.56	2,030.32	1,709.41	
16,900.00	8,418.00	18,016.53	9,360.00	179.54	180.34	-117.556	1,328.22	8,656.56	2,030.32	1,705.72	
16,900.00	8,418.00	18,016.53	9,360.00	179.54	180.34	-117.556	1,328.22	8,656.56	2,030.32	1,705.72	
17,000.00	8,418.00	18,116.53	9,360.00	181.59	182.39	-117.556	1,328.52	8,756.56	2,030.32	1,702.02	
17,000.00	8,418.00	18,116.53	9,360.00	181.59	182.39	-117.556	1,328.52	8,756.56	2,030.32	1,702.02	
17,100.00	8,418.00	18,216.53	9,360.00	183.64	184.43	-117.556	1,328.81	8,856.56	2,030.32	1,698.32	
17,100.00	8,418.00	18,216.53	9,360.00	183.64	184.43	-117.556	1,328.81	8,856.56	2,030.32	1,698.32	
17,200.00	8,418.00	18,316.53	9,360.00	185.70	186.47	-117.556	1,329.10	8,956.56	2,030.32	1,694.62	
17,200.00	8,418.00	18,316.53	9,360.00	185.70	186.47	-117.556	1,329.10	8,956.56	2,030.32	1,694.62	
17,300.00	8,418.00	18,416.53	9,360.00	187.75	188.52	-117.556	1,329.39	9,056.56	2,030.32	1,690.92	
17,300.00	8,418.00	18,416.53	9,360.00	187.75	188.52	-117.556	1,329.39	9,056.56	2,030.32	1,690.92	
17,400.00	8,418.00	18,516.53	9,360.00	189.80	190.56	-117.556	1,329.69	9,156.56	2,030.32	1,687.22	
17,400.00	8,418.00	18,516.53	9,360.00	189.80	190.56	-117.556	1,329.69	9,156.56	2,030.32	1,687.22	
17,500.00	8,418.00	18,616.53	9,360.00	191.86	192.61	-117.556	1,329.98	9,256.56	2,030.32	1,683.52	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - Plan 2													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IFR1					Rule Assigned:			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	18,616.53	9,360.00	191.86	192.61	-117.556	1,329.98	9,256.56	2,030.32	1,683.52	346.80	5.854		
17,600.00	8,418.00	18,716.53	9,360.00	193.91	194.65	-117.556	1,330.27	9,356.56	2,030.32	1,679.82	350.50	5.793		
17,600.00	8,418.00	18,716.53	9,360.00	193.91	194.65	-117.556	1,330.27	9,356.56	2,030.32	1,679.82	350.50	5.793		
17,700.00	8,418.00	18,816.53	9,360.00	195.97	196.70	-117.556	1,330.56	9,456.56	2,030.32	1,676.12	354.21	5.732		
17,700.00	8,418.00	18,816.53	9,360.00	195.97	196.70	-117.556	1,330.56	9,456.56	2,030.32	1,676.12	354.21	5.732		
17,800.00	8,418.00	18,916.53	9,360.00	198.02	198.75	-117.556	1,330.86	9,556.56	2,030.32	1,672.41	357.91	5.673		
17,800.00	8,418.00	18,916.53	9,360.00	198.02	198.75	-117.556	1,330.86	9,556.56	2,030.32	1,672.41	357.91	5.673		
17,900.00	8,418.00	19,016.53	9,360.00	200.08	200.79	-117.556	1,331.15	9,656.56	2,030.32	1,668.71	361.61	5.615		
17,900.00	8,418.00	19,016.53	9,360.00	200.08	200.79	-117.556	1,331.15	9,656.56	2,030.32	1,668.71	361.61	5.615		
18,000.00	8,418.00	19,116.53	9,360.00	202.13	202.84	-117.556	1,331.44	9,756.56	2,030.32	1,665.01	365.32	5.558		
18,000.00	8,418.00	19,116.53	9,360.00	202.13	202.84	-117.556	1,331.44	9,756.56	2,030.32	1,665.00	365.32	5.558		
18,100.00	8,418.00	19,216.53	9,360.00	204.19	204.89	-117.556	1,331.73	9,856.56	2,030.32	1,661.30	369.02	5.502		
18,100.00	8,418.00	19,216.53	9,360.00	204.19	204.89	-117.556	1,331.73	9,856.56	2,030.32	1,661.30	369.02	5.502		
18,200.00	8,418.00	19,316.53	9,360.00	206.24	206.94	-117.556	1,332.03	9,956.56	2,030.32	1,657.59	372.73	5.447		
18,200.00	8,418.00	19,316.53	9,360.00	206.24	206.94	-117.556	1,332.03	9,956.56	2,030.32	1,657.59	372.73	5.447		
18,300.00	8,418.00	19,416.53	9,360.00	208.30	208.99	-117.556	1,332.32	10,056.56	2,030.32	1,653.89	376.44	5.394		
18,300.00	8,418.00	19,416.53	9,360.00	208.30	208.99	-117.556	1,332.32	10,056.56	2,030.32	1,653.89	376.44	5.394		
18,400.00	8,418.00	19,516.53	9,360.00	210.36	211.04	-117.556	1,332.61	10,156.55	2,030.32	1,650.18	380.14	5.341		
18,400.00	8,418.00	19,516.53	9,360.00	210.36	211.04	-117.556	1,332.61	10,156.55	2,030.32	1,650.18	380.14	5.341		
18,500.00	8,418.00	19,616.53	9,360.00	212.41	213.09	-117.556	1,332.90	10,256.55	2,030.32	1,646.47	383.85	5.289		
18,500.00	8,418.00	19,616.53	9,360.00	212.41	213.09	-117.556	1,332.90	10,256.55	2,030.32	1,646.47	383.85	5.289		
18,600.00	8,418.00	19,716.53	9,360.00	214.47	215.14	-117.556	1,333.20	10,356.55	2,030.32	1,642.76	387.56	5.239		
18,600.00	8,418.00	19,716.53	9,360.00	214.47	215.14	-117.556	1,333.20	10,356.55	2,030.32	1,642.76	387.56	5.239		
18,700.00	8,418.00	19,816.53	9,360.00	216.53	217.19	-117.556	1,333.49	10,456.55	2,030.32	1,639.06	391.27	5.189		
18,700.00	8,418.00	19,816.53	9,360.00	216.53	217.19	-117.556	1,333.49	10,456.55	2,030.32	1,639.06	391.27	5.189		
18,800.00	8,418.00	19,916.53	9,360.00	218.59	219.24	-117.556	1,333.78	10,556.55	2,030.32	1,635.35	394.98	5.140		
18,800.00	8,418.00	19,916.53	9,360.00	218.59	219.24	-117.556	1,333.78	10,556.55	2,030.32	1,635.35	394.98	5.140		
18,900.00	8,418.00	20,016.53	9,360.00	220.64	221.29	-117.556	1,334.07	10,656.55	2,030.32	1,631.64	398.69	5.093		
18,900.00	8,418.00	20,016.53	9,360.00	220.64	221.29	-117.556	1,334.07	10,656.55	2,030.32	1,631.64	398.69	5.093		
19,000.00	8,418.00	20,116.53	9,360.00	222.70	223.34	-117.556	1,334.36	10,756.55	2,030.32	1,627.93	402.40	5.046		
19,000.00	8,418.00	20,116.53	9,360.00	222.70	223.34	-117.556	1,334.36	10,756.55	2,030.32	1,627.93	402.40	5.046		
19,100.00	8,418.00	20,216.53	9,360.00	224.76	225.39	-117.556	1,334.66	10,856.55	2,030.32	1,624.22	406.11	4.999		
19,100.00	8,418.00	20,216.53	9,360.00	224.76	225.39	-117.556	1,334.66	10,856.55	2,030.32	1,624.22	406.11	4.999		
19,200.00	8,418.00	20,316.53	9,360.00	226.82	227.44	-117.556	1,334.95	10,956.55	2,030.32	1,620.50	409.82	4.954		
19,200.00	8,418.00	20,316.53	9,360.00	226.82	227.44	-117.556	1,334.95	10,956.55	2,030.32	1,620.50	409.82	4.954		
19,300.00	8,418.00	20,416.53	9,360.00	228.88	229.50	-117.556	1,335.24	11,056.55	2,030.32	1,616.79	413.53	4.910		
19,300.00	8,418.00	20,416.53	9,360.00	228.88	229.50	-117.556	1,335.24	11,056.55	2,030.32	1,616.79	413.53	4.910		
19,400.00	8,418.00	20,516.53	9,360.00	230.94	231.55	-117.556	1,335.53	11,156.55	2,030.32	1,613.08	417.24	4.866		
19,400.00	8,418.00	20,516.53	9,360.00	230.94	231.55	-117.556	1,335.53	11,156.55	2,030.32	1,613.08	417.24	4.866		
19,500.00	8,418.00	20,616.53	9,360.00	233.00	233.60	-117.556	1,335.83	11,256.55	2,030.32	1,609.37	420.96	4.823		
19,500.00	8,418.00	20,616.53	9,360.00	233.00	233.60	-117.556	1,335.83	11,256.55	2,030.32	1,609.37	420.96	4.823		
19,600.00	8,418.00	20,716.53	9,360.00	235.06	235.66	-117.556	1,336.12	11,356.55	2,030.32	1,605.65	424.67	4.781		
19,600.00	8,418.00	20,716.53	9,360.00	235.06	235.66	-117.556	1,336.12	11,356.55	2,030.32	1,605.65	424.67	4.781		
19,700.00	8,418.00	20,816.53	9,360.00	237.12	237.71	-117.556	1,336.41	11,456.55	2,030.32	1,601.94	428.38	4.740		
19,700.00	8,418.00	20,816.53	9,360.00	237.12	237.71	-117.556	1,336.41	11,456.55	2,030.32	1,601.94	428.38	4.740		
19,800.00	8,418.00	20,916.53	9,360.00	239.18	239.76	-117.556	1,336.70	11,556.55	2,030.32	1,598.23	432.10	4.699		
19,800.00	8,418.00	20,916.53	9,360.00	239.18	239.76	-117.556	1,336.70	11,556.55	2,030.32	1,598.23	432.10	4.699		
19,900.00	8,418.00	21,016.53	9,360.00	241.24	241.82	-117.556	1,337.00	11,656.55	2,030.32	1,594.51	435.81	4.659		
19,900.00	8,418.00	21,016.53	9,360.00	241.24	241.82	-117.556	1,337.00	11,656.55	2,030.32	1,594.51	435.81	4.659		
20,000.00	8,418.00	21,116.53	9,360.00	243.30	243.87	-117.556	1,337.29	11,756.55	2,030.32	1,590.80	439.53	4.619		
20,000.00	8,418.00	21,116.53	9,360.00	243.30	243.87	-117.556	1,337.29	11,756.55	2,030.32	1,590.80	439.53	4.619		
20,100.00	8,418.00	21,216.53	9,360.00	245.36	245.93	-117.556	1,337.58	11,856.55	2,030.32	1,587.08	443.24	4.581		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 1 - (03) Bond 32-34 FED COM 201H - 201H - 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	
20,100.00	8,418.00	21,216.53	9,360.00	245.36	245.93	-117.556	1,337.58	11,856.55	2,030.32	1,587.08	443.24	4.581	
20,200.00	8,418.00	21,316.53	9,360.00	247.42	247.98	-117.556	1,337.87	11,956.55	2,030.32	1,583.37	446.96	4.543	
20,200.00	8,418.00	21,316.53	9,360.00	247.42	247.98	-117.556	1,337.87	11,956.55	2,030.32	1,583.37	446.96	4.543	
20,300.00	8,418.00	21,416.53	9,360.00	249.48	250.04	-117.556	1,338.17	12,056.55	2,030.32	1,579.65	450.67	4.505	
20,300.00	8,418.00	21,416.53	9,360.00	249.48	250.04	-117.556	1,338.17	12,056.55	2,030.32	1,579.65	450.67	4.505	
20,400.00	8,418.00	21,516.53	9,360.00	251.54	252.09	-117.556	1,338.46	12,156.55	2,030.32	1,575.94	454.39	4.468	
20,400.00	8,418.00	21,516.53	9,360.00	251.54	252.09	-117.556	1,338.46	12,156.55	2,030.32	1,575.94	454.39	4.468	
20,500.00	8,418.00	21,616.53	9,360.00	253.60	254.15	-117.556	1,338.75	12,256.55	2,030.32	1,572.22	458.10	4.432	
20,500.00	8,418.00	21,616.53	9,360.00	253.60	254.15	-117.556	1,338.75	12,256.55	2,030.32	1,572.22	458.10	4.432	
20,600.00	8,418.00	21,716.53	9,360.00	255.66	256.21	-117.556	1,339.04	12,356.55	2,030.32	1,568.50	461.82	4.396	
20,600.00	8,418.00	21,716.53	9,360.00	255.66	256.21	-117.556	1,339.04	12,356.55	2,030.32	1,568.50	461.82	4.396	
20,700.00	8,418.00	21,816.53	9,360.00	257.72	258.26	-117.556	1,339.34	12,456.54	2,030.32	1,564.79	465.54	4.361	
20,700.00	8,418.00	21,816.53	9,360.00	257.72	258.26	-117.556	1,339.34	12,456.55	2,030.32	1,564.79	465.54	4.361	
20,800.00	8,418.00	21,916.53	9,360.00	259.78	260.32	-117.556	1,339.63	12,556.54	2,030.32	1,561.07	469.25	4.327	
20,800.00	8,418.00	21,916.53	9,360.00	259.78	260.32	-117.556	1,339.63	12,556.55	2,030.32	1,561.07	469.25	4.327	
20,900.00	8,418.00	22,016.53	9,360.00	261.84	262.38	-117.556	1,339.92	12,656.54	2,030.32	1,557.35	472.97	4.293	
20,900.00	8,418.00	22,016.53	9,360.00	261.84	262.38	-117.556	1,339.92	12,656.55	2,030.32	1,557.35	472.97	4.293	
21,000.00	8,418.00	22,116.53	9,360.00	263.90	264.43	-117.556	1,340.21	12,756.54	2,030.32	1,553.63	476.69	4.259	
21,000.00	8,418.00	22,116.53	9,360.00	263.90	264.43	-117.556	1,340.21	12,756.55	2,030.32	1,553.63	476.69	4.259	
21,100.00	8,418.00	22,216.53	9,360.00	265.97	266.49	-117.556	1,340.51	12,856.54	2,030.32	1,549.92	480.41	4.226	
21,100.00	8,418.00	22,216.53	9,360.00	265.97	266.49	-117.556	1,340.51	12,856.55	2,030.32	1,549.92	480.41	4.226	
21,200.00	8,418.00	22,316.53	9,360.00	268.03	268.55	-117.556	1,340.80	12,956.54	2,030.32	1,546.20	484.13	4.194	
21,200.00	8,418.00	22,316.53	9,360.00	268.03	268.55	-117.556	1,340.80	12,956.55	2,030.32	1,546.20	484.13	4.194	
21,300.00	8,418.00	22,416.53	9,360.00	270.09	270.61	-117.556	1,341.09	13,056.54	2,030.32	1,542.48	487.85	4.162	
21,300.00	8,418.00	22,416.53	9,360.00	270.09	270.61	-117.556	1,341.09	13,056.54	2,030.32	1,542.48	487.85	4.162	
21,400.00	8,418.00	22,516.53	9,360.00	272.15	272.66	-117.556	1,341.38	13,156.54	2,030.32	1,538.76	491.56	4.130	
21,400.00	8,418.00	22,516.53	9,360.00	272.15	272.66	-117.556	1,341.38	13,156.54	2,030.32	1,538.76	491.56	4.130	
21,500.00	8,418.00	22,616.53	9,360.00	274.21	274.72	-117.556	1,341.68	13,256.54	2,030.32	1,535.04	495.28	4.099	
21,500.00	8,418.00	22,616.53	9,360.00	274.21	274.72	-117.556	1,341.68	13,256.54	2,030.32	1,535.04	495.28	4.099	
21,600.00	8,418.00	22,716.53	9,360.00	276.28	276.78	-117.556	1,341.97	13,356.54	2,030.32	1,531.32	499.00	4.069	
21,600.00	8,418.00	22,716.53	9,360.00	276.28	276.78	-117.556	1,341.97	13,356.54	2,030.32	1,531.32	499.00	4.069	
21,700.00	8,418.00	22,816.53	9,360.00	278.34	278.84	-117.556	1,342.26	13,456.54	2,030.32	1,527.60	502.72	4.039	
21,700.00	8,418.00	22,816.53	9,360.00	278.34	278.84	-117.556	1,342.26	13,456.54	2,030.32	1,527.60	502.72	4.039	
21,800.00	8,418.00	22,916.53	9,360.00	280.40	280.90	-117.556	1,342.55	13,556.54	2,030.32	1,523.88	506.44	4.009	
21,800.01	8,418.00	22,916.54	9,360.00	280.40	280.90	-117.556	1,342.55	13,556.55	2,030.32	1,523.88	506.44	4.009	
21,818.82	8,418.00	22,928.71	9,360.00	280.79	281.15	-117.556	1,342.59	13,568.72	2,030.34	1,523.32	507.01	4.004 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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (01) Bond 32-34 FED COM #303H - #303H - 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		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	9.330	39.99	6.57	40.53				
100.00	100.00	100.00	100.00	0.79	0.79	9.330	39.99	6.57	40.53	38.95	1.57	25.792	
200.00	200.00	200.00	200.00	1.45	1.45	9.330	39.99	6.57	40.53	37.63	2.89	14.012	
300.00	300.00	300.00	300.00	1.89	1.89	9.330	39.99	6.57	40.53	36.74	3.78	10.712	
400.00	400.00	400.00	400.00	2.25	2.25	9.330	39.99	6.57	40.53	36.02	4.51	8.991	
500.00	500.00	500.00	500.00	2.57	2.57	9.330	39.99	6.57	40.53	35.39	5.14	7.892	
600.00	600.00	600.00	600.00	2.85	2.85	9.330	39.99	6.57	40.53	34.83	5.70	7.111	
700.00	700.00	700.00	700.00	3.11	3.11	9.330	39.99	6.57	40.53	34.31	6.22	6.519	
800.00	800.00	800.00	800.00	3.35	3.35	9.330	39.99	6.57	40.53	33.83	6.70	6.051	
900.00	900.00	900.00	900.00	3.58	3.58	9.330	39.99	6.57	40.53	33.38	7.15	5.668	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	9.330	39.99	6.57	40.53	32.95	7.58	5.347	
1,100.00	1,100.00	1,100.00	1,100.00	3.99	3.99	9.330	39.99	6.57	40.53	32.54	7.99	5.073	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	9.330	39.99	6.57	40.53	32.14	8.38	4.835	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	9.330	39.99	6.57	40.53	31.77	8.76	4.626	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	9.330	39.99	6.57	40.53	31.40	9.13	4.441	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	9.330	39.99	6.57	40.53	31.05	9.48	4.275	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	9.330	39.99	6.57	40.53	30.70	9.82	4.126	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	9.330	39.99	6.57	40.53	30.37	10.16	3.989	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	9.330	39.99	6.57	40.53	30.04	10.49	3.865	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	9.330	39.99	6.57	40.53	29.72	10.80	3.751	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	9.330	39.99	6.57	40.53	29.41	11.12	3.645 CC, ES, SF	
2,100.00	2,099.98	2,098.59	2,098.57	5.78	5.80	-176.570	41.65	6.20	43.87	32.31	11.56	3.795	
2,200.00	2,199.84	2,196.49	2,196.33	5.98	6.04	-178.803	46.57	5.12	53.94	41.95	11.99	4.499	
2,300.00	2,299.46	2,293.05	2,292.54	6.09	6.29	178.893	54.61	3.35	70.62	58.29	12.33	5.728	
2,400.00	2,399.01	2,388.22	2,387.04	6.26	6.56	176.974	65.64	0.91	91.45	78.73	12.73	7.187	
2,500.00	2,498.56	2,481.96	2,479.69	6.45	6.84	175.411	79.49	-2.14	115.49	102.35	13.14	8.788	
2,600.00	2,598.11	2,574.10	2,570.27	6.65	7.11	174.134	95.98	-5.77	142.65	129.09	13.56	10.522	
2,700.00	2,697.65	2,668.81	2,662.98	6.87	7.41	173.102	114.89	-9.95	171.90	157.83	14.07	12.221	
2,800.00	2,797.20	2,764.38	2,756.52	7.10	7.70	172.358	134.04	-14.17	201.24	186.65	14.59	13.795	
2,900.00	2,896.75	2,859.96	2,850.06	7.35	7.98	171.804	153.18	-18.39	230.61	215.49	15.11	15.257	
3,000.00	2,996.30	2,955.53	2,943.59	7.61	8.28	171.375	172.32	-22.61	259.99	244.32	15.67	16.593	
3,100.00	3,095.84	3,051.10	3,037.13	7.89	8.59	171.033	191.46	-26.83	289.38	273.13	16.25	17.813	
3,200.00	3,195.39	3,146.67	3,130.67	8.17	8.92	170.755	210.60	-31.05	318.77	301.93	16.84	18.924	
3,300.00	3,294.94	3,242.24	3,224.21	8.46	9.25	170.523	229.74	-35.27	348.18	330.72	17.46	19.938	
3,400.00	3,394.49	3,337.81	3,317.75	8.76	9.59	170.327	248.88	-39.49	377.59	359.49	18.10	20.862	
3,500.00	3,494.03	3,433.38	3,411.29	9.07	9.95	170.160	268.02	-43.71	407.00	388.25	18.75	21.706	
3,600.00	3,593.58	3,528.95	3,504.83	9.38	10.31	170.015	287.16	-47.93	436.41	417.00	19.42	22.477	
3,700.00	3,693.13	3,624.52	3,598.37	9.70	10.68	169.889	306.30	-52.15	465.83	445.74	20.09	23.182	
3,800.00	3,792.67	3,720.09	3,691.91	10.03	11.05	169.777	325.45	-56.37	495.25	474.47	20.78	23.828	
3,900.00	3,892.22	3,815.66	3,785.45	10.36	11.43	169.678	344.59	-60.59	524.67	503.19	21.48	24.421	
4,000.00	3,991.77	3,911.23	3,878.98	10.69	11.81	169.590	363.73	-64.81	554.09	531.90	22.19	24.965	
4,100.00	4,091.32	4,006.80	3,972.52	11.03	12.20	169.510	382.87	-69.03	583.51	560.60	22.91	25.467	
4,200.00	4,190.86	4,102.37	4,066.06	11.37	12.60	169.438	402.01	-73.25	612.94	589.30	23.64	25.930	
4,300.00	4,290.41	4,197.94	4,159.60	11.72	13.00	169.373	421.15	-77.47	642.36	617.99	24.37	26.357	
4,400.00	4,389.96	4,293.51	4,253.14	12.07	13.40	169.313	440.29	-81.69	671.79	646.68	25.11	26.752	
4,500.00	4,489.51	4,389.09	4,346.68	12.42	13.80	169.259	459.43	-85.91	701.21	675.36	25.86	27.119	
4,600.00	4,589.05	4,484.66	4,440.22	12.77	14.21	169.208	478.57	-90.13	730.64	704.03	26.61	27.459	
4,700.00	4,688.60	4,580.23	4,533.76	13.13	14.62	169.162	497.71	-94.35	760.07	732.70	27.36	27.776	
4,800.00	4,788.15	4,675.80	4,627.30	13.49	15.03	169.119	516.85	-98.57	789.49	761.37	28.12	28.071	
4,900.00	4,887.70	4,771.37	4,720.84	13.85	15.45	169.079	536.00	-102.79	818.92	790.03	28.89	28.346	
5,000.00	4,987.24	4,866.94	4,814.37	14.21	15.86	169.042	555.14	-107.01	848.35	818.69	29.66	28.604	
5,100.00	5,086.79	4,962.51	4,907.91	14.58	16.28	169.008	574.28	-111.24	877.78	847.34	30.43	28.845	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (01) Bond 32-34 FED COM #303H - #303H - 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	
5,200.00	5,186.34	5,058.08	5,001.45	14.95	16.70	168.976	593.42	-115.46	907.20	876.00	31.21	29.071	
5,300.00	5,285.88	5,153.65	5,094.99	15.31	17.13	168.945	612.56	-119.68	936.63	904.65	31.99	29.283	
5,400.00	5,385.43	5,249.22	5,188.53	15.68	17.55	168.917	631.70	-123.90	966.06	933.29	32.77	29.482	
5,500.00	5,484.98	5,344.79	5,282.07	16.05	17.98	168.890	650.84	-128.12	995.49	961.94	33.55	29.670	
5,600.00	5,584.53	5,440.36	5,375.61	16.43	18.40	168.865	669.98	-132.34	1,024.92	990.58	34.34	29.847	
5,700.00	5,684.07	5,535.93	5,469.15	16.80	18.83	168.841	689.12	-136.56	1,054.35	1,019.22	35.13	30.013	
5,800.00	5,783.62	5,631.50	5,562.69	17.17	19.26	168.819	708.26	-140.78	1,083.78	1,047.86	35.92	30.171	
5,900.00	5,883.17	5,727.07	5,656.23	17.55	19.69	168.797	727.41	-145.00	1,113.21	1,076.49	36.72	30.320	
6,000.00	5,982.72	5,822.64	5,749.77	17.92	20.12	168.777	746.55	-149.22	1,142.64	1,105.13	37.51	30.461	
6,100.00	6,082.26	5,918.21	5,843.30	18.30	20.55	168.758	765.69	-153.44	1,172.07	1,133.76	38.31	30.595	
6,200.00	6,181.81	6,013.79	5,936.84	18.68	20.99	168.740	784.83	-157.66	1,201.50	1,162.39	39.11	30.722	
6,300.00	6,281.36	6,109.36	6,030.38	19.06	21.42	168.722	803.97	-161.88	1,230.93	1,191.02	39.91	30.843	
6,400.00	6,380.91	6,204.93	6,123.92	19.43	21.86	168.706	823.11	-166.10	1,260.36	1,219.65	40.71	30.958	
6,500.00	6,480.45	6,300.50	6,217.46	19.81	22.29	168.690	842.25	-170.32	1,289.79	1,248.27	41.52	31.067	
6,600.00	6,580.00	6,396.07	6,311.00	20.20	22.73	168.675	861.39	-174.54	1,319.22	1,276.90	42.32	31.171	
6,700.00	6,679.55	6,491.64	6,404.54	20.58	23.17	168.660	880.53	-178.76	1,348.65	1,305.52	43.13	31.270	
6,800.00	6,779.09	6,587.21	6,498.08	20.96	23.60	168.646	899.67	-182.98	1,378.08	1,334.14	43.94	31.365	
6,900.00	6,878.64	6,711.23	6,619.58	21.34	24.15	168.632	923.95	-188.33	1,407.21	1,362.26	44.95	31.305	
7,000.00	6,978.19	6,902.45	6,808.54	21.72	25.02	168.652	952.37	-194.60	1,431.51	1,385.13	46.39	30.861	
7,100.00	7,077.74	7,099.28	7,004.61	22.11	25.80	168.728	968.71	-198.20	1,449.23	1,401.65	47.58	30.458	
7,200.00	7,177.28	7,272.01	7,177.28	22.49	26.18	168.839	972.32	-199.00	1,460.38	1,412.11	48.27	30.257	
7,300.00	7,276.87	7,371.60	7,276.87	22.85	26.22	168.923	972.32	-199.00	1,469.29	1,420.63	48.66	30.194	
7,400.00	7,376.68	7,471.41	7,376.68	23.22	26.27	168.991	972.32	-199.00	1,475.22	1,426.16	49.07	30.065	
7,500.00	7,476.64	7,571.37	7,476.64	23.51	26.31	169.020	972.32	-199.00	1,477.74	1,428.33	49.41	29.911	
7,600.00	7,576.64	7,671.37	7,576.64	23.55	26.36	-6.071	972.32	-199.00	1,477.83	1,428.34	49.49	29.862	
7,700.00	7,676.64	7,771.37	7,676.64	23.57	26.40	-6.071	972.32	-199.00	1,477.83	1,428.27	49.56	29.820	
7,800.00	7,776.64	7,871.37	7,776.64	23.60	26.45	-6.071	972.32	-199.00	1,477.83	1,428.21	49.63	29.779	
7,800.00	7,776.65	7,871.38	7,776.65	23.60	26.45	-6.071	972.32	-199.00	1,477.83	1,428.21	49.63	29.779	
7,900.00	7,876.63	7,971.36	7,876.63	23.62	26.50	-95.928	972.32	-199.00	1,477.92	1,428.21	49.71	29.732	
8,000.00	7,975.49	8,070.22	7,975.49	23.60	26.54	-96.314	972.32	-199.00	1,479.46	1,429.67	49.79	29.714	
8,100.00	8,070.39	8,165.12	8,070.39	23.59	26.59	-97.066	972.32	-199.00	1,483.29	1,433.43	49.86	29.747	
8,200.00	8,158.44	8,253.17	8,158.44	23.60	26.63	-97.953	972.32	-199.00	1,490.32	1,440.40	49.93	29.850	
8,300.00	8,236.97	8,331.70	8,236.97	23.65	26.66	-98.662	972.32	-199.00	1,501.71	1,451.74	49.98	30.047	
8,400.00	8,303.59	8,398.32	8,303.59	23.78	26.70	-98.843	972.32	-199.00	1,518.67	1,468.65	50.02	30.360	
8,500.00	8,356.28	8,451.00	8,356.28	24.04	26.72	-98.150	972.32	-199.00	1,542.17	1,492.11	50.06	30.805	
8,600.00	8,393.43	8,488.16	8,393.43	24.46	26.74	-96.286	972.32	-199.00	1,572.68	1,522.58	50.10	31.390	
8,700.00	8,413.92	8,508.65	8,413.92	25.04	26.75	-93.046	972.32	-199.00	1,610.02	1,559.89	50.13	32.118	
8,800.00	8,418.00	8,512.73	8,418.00	25.79	26.75	-90.000	972.32	-199.00	1,653.26	1,603.14	50.12	32.986	
8,900.00	8,418.00	8,512.73	8,418.00	26.68	26.75	-90.000	972.32	-199.00	1,701.35	1,651.23	50.11	33.949	
9,000.00	8,418.00	8,512.73	8,418.00	27.70	26.75	-90.000	972.32	-199.00	1,753.82	1,703.71	50.11	34.997	
9,100.00	8,418.00	8,512.73	8,418.00	28.83	26.75	-90.000	972.32	-199.00	1,810.31	1,760.19	50.11	36.125	
9,200.00	8,418.00	8,512.73	8,418.00	30.06	26.75	-90.000	972.32	-199.00	1,870.43	1,820.32	50.11	37.326	
9,300.00	8,418.00	8,512.73	8,418.00	31.38	26.75	-90.000	972.32	-199.00	1,933.86	1,883.76	50.11	38.595	
9,400.00	8,418.00	8,512.73	8,418.00	32.78	26.75	-90.000	972.32	-199.00	2,000.29	1,950.19	50.10	39.926	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (02) Bond 32-34 FED COM #101H - #101H - 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	9.346	19.99	3.29	20.26				
100.00	100.00	100.00	100.00	0.79	0.79	9.346	19.99	3.29	20.26	18.69	1.57	12.893	
200.00	200.00	200.00	200.00	1.45	1.45	9.346	19.99	3.29	20.26	17.37	2.89	7.005	
300.00	300.00	300.00	300.00	1.89	1.89	9.346	19.99	3.29	20.26	16.48	3.78	5.355	
400.00	400.00	400.00	400.00	2.25	2.25	9.346	19.99	3.29	20.26	15.75	4.51	4.495	
500.00	500.00	500.00	500.00	2.57	2.57	9.346	19.99	3.29	20.26	15.12	5.14	3.945	
600.00	600.00	600.00	600.00	2.85	2.85	9.346	19.99	3.29	20.26	14.56	5.70	3.555	
700.00	700.00	700.00	700.00	3.11	3.11	9.346	19.99	3.29	20.26	14.04	6.22	3.259	
800.00	800.00	800.00	800.00	3.35	3.35	9.346	19.99	3.29	20.26	13.56	6.70	3.025	
900.00	900.00	900.00	900.00	3.58	3.58	9.346	19.99	3.29	20.26	13.11	7.15	2.833	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	9.346	19.99	3.29	20.26	12.68	7.58	2.673	
1,100.00	1,100.00	1,100.00	1,100.00	3.99	3.99	9.346	19.99	3.29	20.26	12.27	7.99	2.536	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	9.346	19.99	3.29	20.26	11.88	8.38	2.417	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	9.346	19.99	3.29	20.26	11.50	8.76	2.313	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	9.346	19.99	3.29	20.26	11.13	9.13	2.220	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	9.346	19.99	3.29	20.26	10.78	9.48	2.137	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	9.346	19.99	3.29	20.26	10.44	9.82	2.062	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	9.346	19.99	3.29	20.26	10.10	10.16	1.994	Level 3
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	9.346	19.99	3.29	20.26	9.77	10.49	1.932	Level 3
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	9.346	19.99	3.29	20.26	9.45	10.80	1.875	Level 3
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	9.346	19.99	3.29	20.26	9.14	11.12	1.822	Level 3, CC, ES, SF
2,100.00	2,099.98	2,099.20	2,099.18	5.78	5.80	-176.784	21.70	3.19	23.69	12.13	11.57	2.048	
2,200.00	2,199.84	2,197.68	2,197.52	5.98	6.04	-178.965	26.80	2.91	34.01	22.01	12.00	2.833	
2,300.00	2,299.46	2,294.79	2,294.27	6.09	6.30	179.354	35.12	2.45	51.03	38.69	12.35	4.133	
2,400.00	2,399.01	2,390.46	2,389.25	6.26	6.57	178.233	46.52	1.82	72.27	59.52	12.75	5.668	
2,500.00	2,498.56	2,484.66	2,482.35	6.45	6.85	177.431	60.83	1.02	96.72	83.56	13.17	7.346	
2,600.00	2,598.11	2,578.60	2,574.71	6.65	7.05	176.826	77.94	0.07	124.14	110.61	13.53	9.176	
2,700.00	2,697.65	2,674.57	2,668.95	6.87	7.29	176.409	96.07	-0.94	152.23	138.24	13.99	10.881	
2,800.00	2,797.20	2,770.54	2,763.18	7.10	7.56	176.122	114.19	-1.94	180.32	165.82	14.50	12.439	
2,900.00	2,896.75	2,866.51	2,857.42	7.35	7.85	175.912	132.32	-2.95	208.42	193.38	15.03	13.866	
3,000.00	2,996.30	2,962.48	2,951.66	7.61	8.15	175.752	150.45	-3.96	236.51	220.92	15.59	15.168	
3,100.00	3,095.84	3,058.45	3,045.89	7.89	8.47	175.626	168.58	-4.96	264.61	248.43	16.18	16.357	
3,200.00	3,195.39	3,154.41	3,140.13	8.17	8.79	175.525	186.70	-5.97	292.71	275.93	16.78	17.440	
3,300.00	3,294.94	3,250.38	3,234.37	8.46	9.13	175.441	204.83	-6.98	320.81	303.40	17.41	18.428	
3,400.00	3,394.49	3,346.35	3,328.60	8.76	9.47	175.370	222.96	-7.98	348.91	330.86	18.05	19.329	
3,500.00	3,494.03	3,442.32	3,422.84	9.07	9.83	175.310	241.08	-8.99	377.01	358.30	18.71	20.151	
3,600.00	3,593.58	3,538.29	3,517.08	9.38	10.19	175.259	259.21	-10.00	405.11	385.73	19.38	20.903	
3,700.00	3,693.13	3,634.26	3,611.31	9.70	10.56	175.214	277.34	-11.00	433.22	413.15	20.06	21.591	
3,800.00	3,792.67	3,730.23	3,705.55	10.03	10.93	175.174	295.47	-12.01	461.32	440.56	20.76	22.222	
3,900.00	3,892.22	3,826.20	3,799.79	10.36	11.31	175.140	313.59	-13.02	489.42	467.95	21.46	22.801	
4,000.00	3,991.77	3,922.17	3,894.02	10.69	11.69	175.108	331.72	-14.02	517.52	495.34	22.18	23.334	
4,100.00	4,091.32	4,018.14	3,988.26	11.03	12.08	175.080	349.85	-15.03	545.62	522.72	22.90	23.825	
4,200.00	4,190.86	4,114.11	4,082.50	11.37	12.47	175.055	367.97	-16.04	573.73	550.09	23.63	24.278	
4,300.00	4,290.41	4,210.08	4,176.74	11.72	12.87	175.032	386.10	-17.04	601.83	577.46	24.37	24.697	
4,400.00	4,389.96	4,306.05	4,270.97	12.07	13.27	175.012	404.23	-18.05	629.93	604.82	25.11	25.085	
4,500.00	4,489.51	4,402.02	4,365.21	12.42	13.67	174.993	422.35	-19.06	658.03	632.17	25.86	25.445	
4,600.00	4,589.05	4,497.99	4,459.45	12.77	14.07	174.975	440.48	-20.06	686.14	659.52	26.62	25.779	
4,700.00	4,688.60	4,593.96	4,553.68	13.13	14.48	174.959	458.61	-21.07	714.24	686.86	27.38	26.091	
4,800.00	4,788.15	4,689.93	4,647.92	13.49	14.89	174.944	476.74	-22.08	742.34	714.20	28.14	26.382	
4,900.00	4,887.70	4,785.90	4,742.16	13.85	15.30	174.931	494.86	-23.08	770.45	741.54	28.91	26.653	
5,000.00	4,987.24	4,881.87	4,836.39	14.21	15.71	174.918	512.99	-24.09	798.55	768.87	29.68	26.907	
5,100.00	5,086.79	4,977.84	4,930.63	14.58	16.13	174.906	531.12	-25.10	826.65	796.20	30.45	27.145	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (02) Bond 32-34 FED COM #101H - #101H - 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	
5,200.00	5,186.34	5,073.81	5,024.87	14.95	16.55	174.895	549.24	-26.10	854.75	823.52	31.23	27.368	
5,300.00	5,285.88	5,169.78	5,119.10	15.31	16.96	174.884	567.37	-27.11	882.86	850.84	32.01	27.578	
5,400.00	5,385.43	5,265.75	5,213.34	15.68	17.38	174.874	585.50	-28.12	910.96	878.16	32.80	27.775	
5,500.00	5,484.98	5,361.72	5,307.58	16.05	17.80	174.865	603.63	-29.12	939.06	905.48	33.58	27.961	
5,600.00	5,584.53	5,457.69	5,401.82	16.43	18.23	174.856	621.75	-30.13	967.17	932.79	34.37	28.137	
5,700.00	5,684.07	5,553.66	5,496.05	16.80	18.65	174.848	639.88	-31.14	995.27	960.10	35.17	28.303	
5,800.00	5,783.62	5,649.63	5,590.29	17.17	19.08	174.841	658.01	-32.14	1,023.37	987.41	35.96	28.459	
5,900.00	5,883.17	5,745.60	5,684.53	17.55	19.50	174.833	676.13	-33.15	1,051.48	1,014.72	36.76	28.608	
6,000.00	5,982.72	5,841.57	5,778.76	17.92	19.93	174.826	694.26	-34.16	1,079.58	1,042.03	37.55	28.748	
6,100.00	6,082.26	5,937.54	5,873.00	18.30	20.35	174.820	712.39	-35.16	1,107.68	1,069.33	38.35	28.882	
6,200.00	6,181.81	6,033.51	5,967.24	18.68	20.78	174.813	730.52	-36.17	1,135.79	1,096.63	39.15	29.008	
6,300.00	6,281.36	6,129.48	6,061.47	19.06	21.21	174.807	748.64	-37.18	1,163.89	1,123.93	39.96	29.129	
6,400.00	6,380.91	6,225.45	6,155.71	19.43	21.64	174.802	766.77	-38.19	1,191.99	1,151.23	40.76	29.244	
6,500.00	6,480.45	6,321.42	6,249.95	19.81	22.07	174.796	784.90	-39.19	1,220.10	1,178.53	41.57	29.353	
6,600.00	6,580.00	6,417.39	6,344.18	20.20	22.50	174.791	803.02	-40.20	1,248.20	1,205.82	42.37	29.457	
6,700.00	6,679.55	6,513.36	6,438.42	20.58	22.94	174.786	821.15	-41.21	1,276.30	1,233.12	43.18	29.556	
6,800.00	6,779.09	6,609.33	6,532.66	20.96	23.37	174.781	839.28	-42.21	1,304.40	1,260.41	43.99	29.651	
6,900.00	6,878.64	6,705.30	6,626.89	21.34	23.80	174.777	857.40	-43.22	1,332.51	1,287.71	44.80	29.742	
7,000.00	6,978.19	6,801.27	6,721.13	21.72	24.24	174.773	875.53	-44.23	1,360.61	1,315.00	45.61	29.828	
7,100.00	7,077.74	6,897.24	6,815.37	22.11	24.67	174.768	893.66	-45.23	1,388.71	1,342.29	46.43	29.911	
7,200.00	7,177.28	6,993.21	6,909.61	22.49	25.10	174.764	911.79	-46.24	1,416.82	1,369.58	47.24	29.991	
7,300.00	7,276.87	7,136.68	7,050.76	22.85	25.74	174.783	937.37	-47.66	1,443.75	1,395.37	48.38	29.844	
7,400.00	7,376.68	7,335.96	7,248.51	23.22	26.59	174.810	961.71	-49.01	1,461.93	1,412.17	49.77	29.375	
7,500.00	7,476.64	7,539.88	7,452.10	23.51	27.26	174.822	972.35	-49.60	1,469.71	1,418.99	50.71	28.980	
7,600.00	7,576.64	7,664.42	7,576.64	23.55	27.38	-0.270	972.75	-49.63	1,470.00	1,419.16	50.84	28.916	
7,700.00	7,676.64	7,764.42	7,676.64	23.57	27.43	-0.270	972.75	-49.63	1,470.00	1,419.09	50.91	28.876	
7,800.00	7,776.64	7,864.42	7,776.64	23.60	27.47	-0.270	972.75	-49.63	1,470.00	1,419.02	50.97	28.838	
7,900.00	7,876.63	7,964.57	7,876.77	23.62	27.49	-90.102	972.76	-48.75	1,470.00	1,418.97	51.03	28.807	
8,000.00	7,975.49	8,065.02	7,976.07	23.60	27.50	-90.100	972.80	-34.44	1,470.00	1,418.94	51.05	28.794	
8,100.00	8,070.39	8,165.46	8,071.34	23.59	27.51	-90.094	972.89	-3.04	1,470.00	1,418.91	51.08	28.776	
8,113.80	8,083.01	8,179.32	8,084.01	23.59	27.52	-90.093	972.91	2.59	1,470.00	1,418.91	51.09	28.773	
8,200.00	8,158.44	8,265.86	8,159.65	23.60	27.55	-90.086	973.03	44.47	1,470.00	1,418.85	51.14	28.743	
8,216.48	8,172.10	8,282.40	8,173.34	23.60	27.56	-90.084	973.06	53.75	1,470.00	1,418.83	51.16	28.732	
8,300.00	8,236.97	8,366.22	8,238.28	23.65	27.64	-90.075	973.21	106.63	1,470.00	1,418.72	51.28	28.668	
8,318.45	8,250.22	8,384.74	8,251.54	23.67	27.66	-90.072	973.25	119.55	1,469.99	1,418.67	51.32	28.643	
8,400.00	8,303.59	8,466.53	8,304.85	23.78	27.80	-90.061	973.43	181.49	1,469.99	1,418.44	51.55	28.514	
8,420.23	8,315.43	8,486.81	8,316.66	23.84	27.84	-90.058	973.48	197.97	1,469.99	1,418.35	51.64	28.464	
8,500.00	8,356.28	8,566.77	8,357.33	24.04	28.06	-90.046	973.68	266.74	1,469.99	1,417.94	52.05	28.241	
8,522.30	8,365.96	8,589.12	8,366.95	24.13	28.14	-90.042	973.74	286.91	1,469.99	1,417.78	52.22	28.152	
8,600.00	8,393.43	8,666.94	8,394.16	24.46	28.45	-90.029	973.95	359.76	1,469.99	1,417.15	52.84	27.817	
8,626.04	8,400.40	8,693.01	8,401.03	24.61	28.57	-90.025	974.03	384.90	1,469.99	1,416.88	53.12	27.674	
8,700.00	8,413.92	8,767.03	8,414.23	25.04	28.98	-90.012	974.24	457.69	1,469.99	1,416.04	53.96	27.243	
8,723.21	8,416.37	8,790.25	8,416.42	25.22	29.12	-90.002	974.31	480.80	1,469.99	1,415.72	54.27	27.085	
8,800.00	8,418.00	8,867.05	8,418.00	25.79	29.63	-90.000	974.53	557.56	1,469.99	1,414.63	55.37	26.549	
8,900.00	8,418.00	8,967.05	8,418.00	26.68	30.42	-90.000	974.82	657.56	1,469.99	1,412.93	57.06	25.762	
9,000.00	8,418.00	9,067.05	8,418.00	27.70	31.32	-90.000	975.12	757.56	1,469.99	1,411.00	58.99	24.919	
9,100.00	8,418.00	9,167.05	8,418.00	28.83	32.33	-90.000	975.41	857.56	1,469.99	1,408.85	61.14	24.043	
9,200.00	8,418.00	9,267.05	8,418.00	30.06	33.44	-90.000	975.70	957.56	1,469.99	1,406.51	63.49	23.154	
9,300.00	8,418.00	9,367.05	8,418.00	31.38	34.64	-90.000	975.99	1,057.56	1,469.99	1,403.98	66.01	22.269	
9,400.00	8,418.00	9,467.05	8,418.00	32.78	35.92	-90.000	976.29	1,157.56	1,469.99	1,401.30	68.69	21.400	
9,500.00	8,418.00	9,567.05	8,418.00	34.25	37.27	-90.000	976.58	1,257.56	1,469.99	1,398.48	71.51	20.556	
9,600.00	8,418.00	9,667.05	8,418.00	35.78	38.68	-90.000	976.87	1,357.56	1,469.99	1,395.54	74.45	19.744	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (02) Bond 32-34 FED COM #101H - #101H - 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	
9,700.00	8,418.00	9,767.05	8,418.00	37.36	40.15	-90.000	977.16	1,457.56	1,469.99	1,392.49	77.51	18.966	
9,800.00	8,418.00	9,867.05	8,418.00	38.98	41.67	-90.000	977.46	1,557.56	1,469.99	1,389.34	80.65	18.226	
9,900.00	8,418.00	9,967.05	8,418.00	40.65	43.24	-90.000	977.75	1,657.56	1,469.99	1,386.11	83.89	17.523	
10,000.00	8,418.00	10,067.05	8,418.00	42.35	44.85	-90.000	978.04	1,757.55	1,469.99	1,382.79	87.20	16.858	
10,100.00	8,418.00	10,167.05	8,418.00	44.08	46.50	-90.000	978.33	1,857.55	1,469.99	1,379.42	90.58	16.229	
10,200.00	8,418.00	10,267.05	8,418.00	45.84	48.18	-90.000	978.63	1,957.55	1,469.99	1,375.98	94.02	15.635	
10,300.00	8,418.00	10,367.05	8,418.00	47.63	49.88	-90.000	978.92	2,057.55	1,469.99	1,372.48	97.51	15.075	
10,400.00	8,418.00	10,467.05	8,418.00	49.44	51.62	-90.000	979.21	2,157.55	1,470.00	1,368.94	101.05	14.547	
10,500.00	8,418.00	10,567.05	8,418.00	51.27	53.38	-90.000	979.50	2,257.55	1,470.00	1,365.35	104.64	14.048	
10,600.00	8,418.00	10,667.05	8,418.00	53.11	55.16	-90.000	979.80	2,357.55	1,470.00	1,361.73	108.27	13.578	
10,700.00	8,418.00	10,767.05	8,418.00	54.97	56.96	-90.000	980.09	2,457.55	1,470.00	1,358.07	111.93	13.133	
10,800.00	8,418.00	10,867.05	8,418.00	56.85	58.77	-90.000	980.38	2,557.55	1,470.00	1,354.37	115.62	12.714	
10,900.00	8,418.00	10,967.05	8,418.00	58.74	60.61	-90.000	980.67	2,657.55	1,470.00	1,350.65	119.34	12.317	
11,000.00	8,418.00	11,067.05	8,418.00	60.64	62.46	-90.000	980.97	2,757.55	1,470.00	1,346.90	123.09	11.942	
11,100.00	8,418.00	11,167.05	8,418.00	62.55	64.32	-90.000	981.26	2,857.55	1,470.00	1,343.13	126.87	11.587	
11,200.00	8,418.00	11,267.05	8,418.00	64.47	66.19	-90.000	981.55	2,957.55	1,470.00	1,339.33	130.66	11.250	
11,300.00	8,418.00	11,367.05	8,418.00	66.40	68.08	-90.000	981.84	3,057.55	1,470.00	1,335.52	134.48	10.931	
11,400.00	8,418.00	11,467.05	8,418.00	68.34	69.98	-90.000	982.14	3,157.55	1,470.00	1,331.68	138.31	10.628	
11,500.00	8,418.00	11,567.05	8,418.00	70.29	71.88	-90.000	982.43	3,257.55	1,470.00	1,327.83	142.17	10.340	
11,600.00	8,418.00	11,667.05	8,418.00	72.24	73.80	-90.000	982.72	3,357.55	1,470.00	1,323.96	146.03	10.066	
11,700.00	8,418.00	11,767.05	8,418.00	74.20	75.72	-90.000	983.01	3,457.55	1,470.00	1,320.08	149.91	9.806	
11,800.00	8,418.00	11,867.05	8,418.00	76.17	77.65	-90.000	983.31	3,557.55	1,470.00	1,316.19	153.81	9.557	
11,900.00	8,418.00	11,967.05	8,418.00	78.14	79.59	-90.000	983.60	3,657.55	1,470.00	1,312.28	157.72	9.320	
12,000.00	8,418.00	12,067.05	8,418.00	80.11	81.53	-90.000	983.89	3,757.55	1,470.00	1,308.36	161.64	9.094	
12,100.00	8,418.00	12,167.05	8,418.00	82.09	83.48	-90.000	984.18	3,857.55	1,470.00	1,304.43	165.57	8.879	
12,200.00	8,418.00	12,267.05	8,418.00	84.08	85.44	-90.000	984.48	3,957.55	1,470.00	1,300.49	169.51	8.672	
12,300.00	8,418.00	12,367.05	8,418.00	86.07	87.40	-90.000	984.77	4,057.54	1,470.00	1,296.54	173.46	8.475	
12,400.00	8,418.00	12,467.05	8,418.00	88.06	89.36	-90.000	985.06	4,157.54	1,470.00	1,292.58	177.41	8.286	
12,500.00	8,418.00	12,567.05	8,418.00	90.05	91.33	-90.000	985.35	4,257.54	1,470.00	1,288.62	181.38	8.104	
12,600.00	8,418.00	12,667.05	8,418.00	92.05	93.31	-90.000	985.65	4,357.54	1,470.00	1,284.64	185.35	7.931	
12,700.00	8,418.00	12,767.05	8,418.00	94.06	95.29	-90.000	985.94	4,457.54	1,470.00	1,280.66	189.34	7.764	
12,800.00	8,418.00	12,867.05	8,418.00	96.06	97.27	-90.000	986.23	4,557.54	1,470.00	1,276.67	193.32	7.604	
12,900.00	8,418.00	12,967.05	8,418.00	98.07	99.25	-90.000	986.52	4,657.54	1,470.00	1,272.68	197.32	7.450	
13,000.00	8,418.00	13,067.05	8,418.00	100.08	101.24	-90.000	986.82	4,757.54	1,470.00	1,268.68	201.32	7.302	
13,100.00	8,418.00	13,167.05	8,418.00	102.09	103.24	-90.000	987.11	4,857.54	1,470.00	1,264.68	205.32	7.159	
13,200.00	8,418.00	13,267.05	8,418.00	104.11	105.23	-90.000	987.40	4,957.54	1,470.00	1,260.67	209.33	7.022	
13,300.00	8,418.00	13,367.05	8,418.00	106.12	107.23	-90.000	987.69	5,057.54	1,470.00	1,256.65	213.35	6.890	
13,400.00	8,418.00	13,467.05	8,418.00	108.14	109.23	-90.000	987.99	5,157.54	1,470.00	1,252.63	217.37	6.763	
13,500.00	8,418.00	13,567.05	8,418.00	110.16	111.24	-90.000	988.28	5,257.54	1,470.00	1,248.61	221.39	6.640	
13,600.00	8,418.00	13,667.05	8,418.00	112.19	113.24	-90.000	988.57	5,357.54	1,470.00	1,244.58	225.42	6.521	
13,700.00	8,418.00	13,767.05	8,418.00	114.21	115.25	-90.000	988.86	5,457.54	1,470.00	1,240.54	229.45	6.407	
13,800.00	8,418.00	13,867.05	8,418.00	116.24	117.26	-90.000	989.16	5,557.54	1,470.00	1,236.51	233.49	6.296	
13,900.00	8,418.00	13,967.05	8,418.00	118.26	119.27	-90.000	989.45	5,657.54	1,470.00	1,232.47	237.53	6.189	
14,000.00	8,418.00	14,067.05	8,418.00	120.29	121.29	-90.000	989.74	5,757.54	1,470.00	1,228.42	241.57	6.085	
14,100.00	8,418.00	14,167.05	8,418.00	122.32	123.30	-90.000	990.03	5,857.54	1,470.00	1,224.38	245.62	5.985	
14,200.00	8,418.00	14,267.05	8,418.00	124.35	125.32	-90.000	990.33	5,957.54	1,470.00	1,220.33	249.67	5.888	
14,300.00	8,418.00	14,367.05	8,418.00	126.39	127.34	-90.000	990.62	6,057.54	1,470.00	1,216.28	253.72	5.794	
14,400.00	8,418.00	14,467.05	8,418.00	128.42	129.36	-90.000	990.91	6,157.54	1,470.00	1,212.22	257.78	5.703	
14,500.00	8,418.00	14,567.05	8,418.00	130.46	131.38	-90.000	991.21	6,257.54	1,470.00	1,208.16	261.83	5.614	
14,600.00	8,418.00	14,667.05	8,418.00	132.49	133.41	-90.000	991.50	6,357.54	1,470.00	1,204.10	265.89	5.528	
14,700.00	8,418.00	14,767.05	8,418.00	134.53	135.43	-90.000	991.79	6,457.53	1,470.00	1,200.04	269.96	5.445	
14,800.00	8,418.00	14,867.05	8,418.00	136.57	137.46	-90.000	992.08	6,557.53	1,470.00	1,195.98	274.02	5.365	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (02) Bond 32-34 FED COM #101H - #101H - 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)		
14,900.00	8,418.00	14,967.05	8,418.00	138.61	139.49	-90.000	992.38	6,657.53	1,470.00	1,191.91	278.09	5.286	
15,000.00	8,418.00	15,067.05	8,418.00	140.65	141.52	-90.000	992.67	6,757.53	1,470.00	1,187.84	282.16	5.210	
15,100.00	8,418.00	15,167.05	8,418.00	142.69	143.55	-90.000	992.96	6,857.53	1,470.00	1,183.77	286.23	5.136	
15,200.00	8,418.00	15,267.05	8,418.00	144.73	145.58	-90.000	993.25	6,957.53	1,470.00	1,179.69	290.30	5.064	
15,300.00	8,418.00	15,367.05	8,418.00	146.77	147.61	-90.000	993.55	7,057.53	1,470.00	1,175.62	294.38	4.994	
15,400.00	8,418.00	15,467.05	8,418.00	148.82	149.65	-90.000	993.84	7,157.53	1,470.00	1,171.54	298.46	4.925	
15,500.00	8,418.00	15,567.05	8,418.00	150.86	151.68	-90.000	994.13	7,257.53	1,470.00	1,167.46	302.54	4.859	
15,600.00	8,418.00	15,667.05	8,418.00	152.90	153.72	-90.000	994.42	7,357.53	1,470.00	1,163.38	306.62	4.794	
15,700.00	8,418.00	15,767.05	8,418.00	154.95	155.75	-90.000	994.72	7,457.53	1,470.00	1,159.30	310.70	4.731	
15,800.00	8,418.00	15,867.05	8,418.00	157.00	157.79	-90.000	995.01	7,557.53	1,470.00	1,155.22	314.78	4.670	
15,900.00	8,418.00	15,967.05	8,418.00	159.04	159.83	-90.000	995.30	7,657.53	1,470.00	1,151.13	318.87	4.610	
16,000.00	8,418.00	16,067.05	8,418.00	161.09	161.87	-90.000	995.59	7,757.53	1,470.00	1,147.05	322.95	4.552	
16,100.00	8,418.00	16,167.05	8,418.00	163.14	163.91	-90.000	995.89	7,857.53	1,470.00	1,142.96	327.04	4.495	
16,200.00	8,418.00	16,267.05	8,418.00	165.19	165.95	-90.000	996.18	7,957.53	1,470.00	1,138.87	331.13	4.439	
16,300.00	8,418.00	16,367.05	8,418.00	167.24	167.99	-90.000	996.47	8,057.53	1,470.00	1,134.78	335.22	4.385	
16,400.00	8,418.00	16,467.05	8,418.00	169.28	170.03	-90.000	996.76	8,157.53	1,470.00	1,130.69	339.31	4.332	
16,500.00	8,418.00	16,567.05	8,418.00	171.33	172.07	-90.000	997.06	8,257.53	1,470.00	1,126.60	343.40	4.281	
16,600.00	8,418.00	16,667.05	8,418.00	173.39	174.12	-90.000	997.35	8,357.53	1,470.00	1,122.50	347.50	4.230	
16,700.00	8,418.00	16,767.05	8,418.00	175.44	176.16	-90.000	997.64	8,457.53	1,470.00	1,118.41	351.59	4.181	
16,800.00	8,418.00	16,867.05	8,418.00	177.49	178.21	-90.000	997.93	8,557.53	1,470.00	1,114.31	355.69	4.133	
16,900.00	8,418.00	16,967.05	8,418.00	179.54	180.25	-90.000	998.23	8,657.53	1,470.00	1,110.21	359.78	4.086	
17,000.00	8,418.00	17,067.05	8,418.00	181.59	182.30	-90.000	998.52	8,757.52	1,470.00	1,106.12	363.88	4.040	
17,100.00	8,418.00	17,167.05	8,418.00	183.64	184.34	-90.000	998.81	8,857.52	1,470.00	1,102.02	367.98	3.995	
17,200.00	8,418.00	17,267.05	8,418.00	185.70	186.39	-90.000	999.10	8,957.52	1,470.00	1,097.92	372.08	3.951	
17,300.00	8,418.00	17,367.05	8,418.00	187.75	188.44	-90.000	999.40	9,057.52	1,470.00	1,093.82	376.18	3.908	
17,400.00	8,418.00	17,467.05	8,418.00	189.80	190.48	-90.000	999.69	9,157.52	1,470.00	1,089.72	380.28	3.866	
17,500.00	8,418.00	17,567.05	8,418.00	191.86	192.53	-90.000	999.98	9,257.52	1,470.00	1,085.61	384.38	3.824	
17,600.00	8,418.00	17,667.05	8,418.00	193.91	194.58	-90.000	1,000.27	9,357.52	1,470.00	1,081.51	388.49	3.784	
17,700.00	8,418.00	17,767.05	8,418.00	195.97	196.63	-90.000	1,000.57	9,457.52	1,470.00	1,077.41	392.59	3.744	
17,800.00	8,418.00	17,867.05	8,418.00	198.02	198.68	-90.000	1,000.86	9,557.52	1,470.00	1,073.30	396.70	3.706	
17,900.00	8,418.00	17,967.05	8,418.00	200.08	200.73	-90.000	1,001.15	9,657.52	1,470.00	1,069.20	400.80	3.668	
18,000.00	8,418.00	18,067.05	8,418.00	202.13	202.78	-90.000	1,001.44	9,757.52	1,470.00	1,065.09	404.91	3.630	
18,100.00	8,418.00	18,167.05	8,418.00	204.19	204.83	-90.000	1,001.74	9,857.52	1,470.00	1,060.99	409.01	3.594	
18,200.00	8,418.00	18,267.05	8,418.00	206.24	206.88	-90.000	1,002.03	9,957.52	1,470.00	1,056.88	413.12	3.558	
18,300.00	8,418.00	18,367.05	8,418.00	208.30	208.93	-90.000	1,002.32	10,057.52	1,470.00	1,052.77	417.23	3.523	
18,400.00	8,418.00	18,467.05	8,418.00	210.36	210.99	-90.000	1,002.61	10,157.52	1,470.00	1,048.66	421.34	3.489	
18,500.00	8,418.00	18,567.05	8,418.00	212.41	213.04	-90.000	1,002.91	10,257.52	1,470.00	1,044.55	425.45	3.455	
18,600.00	8,418.00	18,667.05	8,418.00	214.47	215.09	-90.000	1,003.20	10,357.52	1,470.00	1,040.44	429.56	3.422	
18,700.00	8,418.00	18,767.05	8,418.00	216.53	217.14	-90.000	1,003.49	10,457.52	1,470.00	1,036.33	433.67	3.390	
18,800.00	8,418.00	18,867.05	8,418.00	218.59	219.20	-90.000	1,003.78	10,557.52	1,470.00	1,032.22	437.78	3.358	
18,900.00	8,418.00	18,967.05	8,418.00	220.64	221.25	-90.000	1,004.08	10,657.52	1,470.00	1,028.11	441.89	3.327	
19,000.00	8,418.00	19,067.05	8,418.00	222.70	223.30	-90.000	1,004.37	10,757.52	1,470.00	1,024.00	446.00	3.296	
19,100.00	8,418.00	19,167.05	8,418.00	224.76	225.36	-90.000	1,004.66	10,857.52	1,470.00	1,019.89	450.11	3.266	
19,200.00	8,418.00	19,267.05	8,418.00	226.82	227.41	-90.000	1,004.95	10,957.52	1,470.00	1,015.77	454.23	3.236	
19,300.00	8,418.00	19,367.05	8,418.00	228.88	229.47	-90.000	1,005.25	11,057.52	1,470.00	1,011.66	458.34	3.207	
19,400.00	8,418.00	19,467.05	8,418.00	230.94	231.52	-90.000	1,005.54	11,157.51	1,470.00	1,007.55	462.45	3.179	
19,500.00	8,418.00	19,567.05	8,418.00	233.00	233.58	-90.000	1,005.83	11,257.51	1,470.00	1,003.43	466.57	3.151	
19,600.00	8,418.00	19,667.05	8,418.00	235.06	235.63	-90.000	1,006.12	11,357.51	1,470.00	999.32	470.68	3.123	
19,700.00	8,418.00	19,767.05	8,418.00	237.12	237.69	-90.000	1,006.42	11,457.51	1,470.00	995.20	474.80	3.096	
19,800.00	8,418.00	19,867.05	8,418.00	239.18	239.74	-90.000	1,006.71	11,557.51	1,470.00	991.09	478.91	3.069	
19,900.00	8,418.00	19,967.05	8,418.00	241.24	241.80	-90.000	1,007.00	11,657.51	1,470.00	986.97	483.03	3.043	
20,000.00	8,418.00	20,067.05	8,418.00	243.30	243.86	-90.000	1,007.30	11,757.51	1,470.00	982.85	487.15	3.018	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond North Pad - Phase 2 - (02) Bond 32-34 FED COM #101H - #101H - 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			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)		
20,100.00	8,418.00	20,167.05	8,418.00	245.36	245.91	-90.000	1,007.59	11,857.51	1,470.00	978.74	491.26	2.992	
20,200.00	8,418.00	20,267.05	8,418.00	247.42	247.97	-90.000	1,007.88	11,957.51	1,470.00	974.62	495.38	2.967	
20,300.00	8,418.00	20,367.05	8,418.00	249.48	250.03	-90.000	1,008.17	12,057.51	1,470.00	970.50	499.50	2.943	
20,400.00	8,418.00	20,467.05	8,418.00	251.54	252.08	-90.000	1,008.47	12,157.51	1,470.00	966.38	503.62	2.919	
20,500.00	8,418.00	20,567.05	8,418.00	253.60	254.14	-90.000	1,008.76	12,257.51	1,470.00	962.27	507.74	2.895	
20,600.00	8,418.00	20,667.05	8,418.00	255.66	256.20	-90.000	1,009.05	12,357.51	1,470.00	958.15	511.85	2.872	
20,700.00	8,418.00	20,767.05	8,418.00	257.72	258.26	-90.000	1,009.34	12,457.51	1,470.00	954.03	515.97	2.849	
20,800.00	8,418.00	20,867.05	8,418.00	259.78	260.32	-90.000	1,009.64	12,557.51	1,470.00	949.91	520.09	2.826	
20,900.00	8,418.00	20,967.05	8,418.00	261.84	262.37	-90.000	1,009.93	12,657.51	1,470.00	945.79	524.21	2.804	
21,000.00	8,418.00	21,067.05	8,418.00	263.90	264.43	-90.000	1,010.22	12,757.51	1,470.00	941.67	528.33	2.782	
21,100.00	8,418.00	21,167.05	8,418.00	265.97	266.49	-90.000	1,010.51	12,857.51	1,470.00	937.55	532.45	2.761	
21,200.00	8,418.00	21,267.05	8,418.00	268.03	268.55	-90.000	1,010.81	12,957.51	1,470.00	933.43	536.57	2.740	
21,300.00	8,418.00	21,367.05	8,418.00	270.09	270.61	-90.000	1,011.10	13,057.51	1,470.00	929.31	540.69	2.719	
21,400.00	8,418.00	21,467.05	8,418.00	272.15	272.67	-90.000	1,011.39	13,157.51	1,470.00	925.19	544.82	2.698	
21,500.00	8,418.00	21,567.05	8,418.00	274.21	274.73	-90.000	1,011.68	13,257.51	1,470.00	921.06	548.94	2.678	
21,600.00	8,418.00	21,667.05	8,418.00	276.28	276.79	-90.000	1,011.98	13,357.51	1,470.00	916.94	553.06	2.658	
21,700.00	8,418.00	21,767.05	8,418.00	278.34	278.85	-90.000	1,012.27	13,457.50	1,470.00	912.82	557.18	2.638	
21,800.00	8,418.00	21,867.05	8,418.00	280.40	280.91	-90.000	1,012.56	13,557.50	1,470.00	908.70	561.30	2.619	
21,800.01	8,418.00	21,867.06	8,418.00	280.40	280.91	-90.000	1,012.56	13,557.52	1,470.00	908.70	561.30	2.619	
21,818.82	8,418.00	21,880.45	8,418.00	280.79	281.18	-90.000	1,012.60	13,570.90	1,470.01	908.05	561.96	2.616	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W01) N LUSK 32 STATE 001 - 35747 - (Gyro)												Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-NS												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	1.346	1,301.90	30.58	1,302.39				
100.00	100.00	81.69	81.69	0.79	0.99	1.332	1,301.90	30.26	1,302.25	1,300.47	1.78	731.716	
200.00	200.00	181.91	181.90	1.45	2.21	1.276	1,301.91	29.00	1,302.23	1,298.57	3.66	355.851	
230.28	230.28	211.79	211.78	1.58	2.50	1.251	1,301.91	28.44	1,302.22	1,298.14	4.08	319.060	CC
300.00	300.00	279.05	279.02	1.89	2.88	1.196	1,302.00	27.18	1,302.29	1,297.51	4.77	272.781	
400.00	400.00	375.52	375.48	2.25	3.43	1.119	1,302.35	25.45	1,302.61	1,296.93	5.68	229.172	
500.00	500.00	477.78	477.72	2.57	3.94	1.039	1,302.83	23.63	1,303.05	1,296.54	6.51	200.118	
600.00	600.00	582.01	581.93	2.85	4.45	0.950	1,303.00	21.60	1,303.18	1,295.88	7.29	178.641	
667.90	667.90	649.50	649.41	3.03	4.75	0.891	1,302.99	20.27	1,303.14	1,295.37	7.78	167.605	
700.00	700.00	680.87	680.78	3.11	4.89	0.867	1,303.00	19.71	1,303.15	1,295.16	8.00	162.971	
800.00	800.00	778.64	778.53	3.35	5.32	0.801	1,303.16	18.22	1,303.29	1,294.63	8.67	150.369	
900.00	900.00	877.30	877.18	3.58	5.73	0.749	1,303.46	17.05	1,303.58	1,294.27	9.31	140.028	
1,000.00	1,000.00	976.21	976.09	3.79	6.15	0.704	1,303.84	16.03	1,303.95	1,294.02	9.94	131.239	
1,100.00	1,100.00	1,074.66	1,074.53	3.99	6.55	0.660	1,304.32	15.02	1,304.42	1,293.88	10.54	123.764	
1,200.00	1,200.00	1,172.95	1,172.81	4.19	6.94	0.603	1,304.92	13.74	1,305.02	1,293.89	11.13	117.243	
1,300.00	1,300.00	1,272.12	1,271.96	4.38	7.33	0.542	1,305.64	12.34	1,305.73	1,294.02	11.71	111.493	
1,400.00	1,400.00	1,371.64	1,371.47	4.56	7.72	0.496	1,306.39	11.31	1,306.48	1,294.20	12.28	106.357	
1,500.00	1,500.00	1,475.26	1,475.09	4.74	8.12	0.462	1,307.10	10.54	1,307.15	1,294.29	12.86	101.635	
1,600.00	1,600.00	1,580.51	1,580.35	4.91	8.53	0.428	1,307.41	9.78	1,307.44	1,294.01	13.44	97.298	
1,700.00	1,700.00	1,678.37	1,678.20	5.08	8.90	0.401	1,307.53	9.16	1,307.56	1,293.59	13.98	93.554	
1,800.00	1,800.00	1,774.55	1,774.38	5.24	9.26	0.388	1,307.91	8.85	1,307.96	1,293.46	14.50	90.179	ES
1,900.00	1,900.00	1,874.46	1,874.29	5.40	9.64	0.387	1,308.50	8.84	1,308.55	1,293.51	15.04	87.011	
2,000.00	2,000.00	1,975.72	1,975.54	5.56	10.02	0.401	1,309.00	9.16	1,309.05	1,293.47	15.57	84.051	
2,100.00	2,099.98	2,079.88	2,079.71	5.78	10.40	175.520	1,309.33	9.71	1,311.11	1,294.93	16.18	81.035	
2,200.00	2,199.84	2,184.87	2,184.69	5.98	10.79	175.553	1,309.27	10.22	1,316.27	1,299.50	16.77	78.473	
2,300.00	2,299.46	2,281.59	2,281.41	6.09	11.15	175.595	1,309.08	10.75	1,324.64	1,307.40	17.24	76.833	
2,400.00	2,399.01	2,376.81	2,376.62	6.26	11.50	175.656	1,309.20	11.46	1,334.25	1,316.49	17.76	75.132	
2,500.00	2,498.56	2,474.22	2,474.03	6.45	11.86	175.728	1,309.57	12.44	1,344.11	1,325.81	18.30	73.450	
2,600.00	2,598.11	2,572.31	2,572.11	6.65	12.22	175.814	1,310.04	13.80	1,354.09	1,335.23	18.86	71.792	
2,700.00	2,697.65	2,666.91	2,666.70	6.87	12.56	175.900	1,310.68	15.16	1,364.26	1,344.84	19.42	70.233	
2,800.00	2,797.20	2,760.09	2,759.87	7.10	12.90	175.951	1,311.73	15.78	1,374.88	1,354.88	20.00	68.754	
2,900.00	2,896.75	2,855.07	2,854.84	7.35	13.25	175.973	1,313.22	15.69	1,385.91	1,365.32	20.59	67.313	
3,000.00	2,996.30	2,951.42	2,951.17	7.61	13.60	175.978	1,314.96	15.19	1,397.18	1,375.98	21.20	65.911	
3,100.00	3,095.84	3,047.75	3,047.48	7.89	13.95	175.968	1,316.91	14.35	1,408.66	1,386.85	21.82	64.567	
3,200.00	3,195.39	3,144.09	3,143.78	8.17	14.29	175.948	1,319.07	13.22	1,420.36	1,397.91	22.45	63.280	
3,300.00	3,294.94	3,241.84	3,241.49	8.46	14.65	175.917	1,321.45	11.83	1,432.24	1,409.15	23.09	62.032	
3,400.00	3,394.49	3,341.61	3,341.23	8.76	15.01	175.885	1,323.89	10.41	1,444.13	1,420.38	23.75	60.812	
3,500.00	3,494.03	3,441.23	3,440.81	9.07	15.37	175.856	1,326.30	9.03	1,455.99	1,431.58	24.41	59.641	
3,600.00	3,593.58	3,540.62	3,540.16	9.38	15.73	175.830	1,328.68	7.71	1,467.84	1,442.75	25.08	58.520	
3,700.00	3,693.13	3,641.18	3,640.68	9.70	16.09	175.806	1,331.07	6.44	1,479.66	1,453.90	25.76	57.433	
3,800.00	3,792.67	3,743.50	3,742.98	10.03	16.45	175.786	1,333.33	5.25	1,491.32	1,464.87	26.46	56.369	
3,900.00	3,892.22	3,845.01	3,844.45	10.36	16.82	175.771	1,335.38	4.17	1,502.79	1,475.64	27.15	55.350	
4,000.00	3,991.77	3,945.47	3,944.89	10.69	17.18	175.756	1,337.31	3.08	1,514.17	1,486.33	27.84	54.380	
4,100.00	4,091.32	4,044.22	4,043.62	11.03	17.53	175.739	1,339.16	1.97	1,525.51	1,496.97	28.54	53.461	
4,200.00	4,190.86	4,140.90	4,140.28	11.37	17.88	175.723	1,341.11	0.88	1,536.97	1,507.75	29.22	52.599	
4,300.00	4,290.41	4,238.44	4,237.79	11.72	18.23	175.707	1,343.23	-0.22	1,548.60	1,518.69	29.91	51.771	
4,400.00	4,389.96	4,337.37	4,336.68	12.07	18.58	175.690	1,345.44	-1.34	1,560.28	1,529.67	30.61	50.968	
4,500.00	4,489.51	4,437.05	4,436.33	12.42	18.94	175.674	1,347.68	-2.48	1,571.98	1,540.66	31.32	50.192	
4,600.00	4,589.05	4,538.06	4,537.32	12.77	19.30	175.659	1,349.86	-3.58	1,583.60	1,551.57	32.03	49.436	
4,700.00	4,688.60	4,638.09	4,637.31	13.13	19.65	175.647	1,351.93	-4.61	1,595.12	1,562.38	32.75	48.712	
4,800.00	4,788.15	4,736.49	4,735.69	13.49	20.01	175.636	1,353.99	-5.62	1,606.67	1,573.22	33.45	48.027	
4,900.00	4,887.70	4,834.80	4,833.97	13.85	20.36	175.624	1,356.11	-6.63	1,618.28	1,584.12	34.16	47.371	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W01) N LUSK 32 STATE 001 - 35747 - (Gyro)												Offset Site Error:	0.00 usft
Survey Program: 0-GYRO-NS												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	
5,000.00	4,987.24	4,932.93	4,932.07	14.21	20.71	175.612	1,358.29	-7.67	1,629.96	1,595.09	34.87	46.742	
5,100.00	5,086.79	5,032.82	5,031.93	14.58	21.20	175.598	1,360.57	-8.78	1,641.69	1,605.96	35.73	45.943	
5,200.00	5,186.34	5,136.58	5,135.66	14.95	22.02	175.579	1,362.74	-10.05	1,653.24	1,616.32	36.92	44.776	
5,300.00	5,285.88	5,240.40	5,239.46	15.31	22.85	175.556	1,364.63	-11.45	1,664.52	1,626.40	38.11	43.673	
5,400.00	5,385.43	5,344.29	5,343.31	15.68	23.67	175.529	1,366.25	-12.99	1,675.53	1,636.22	39.31	42.627	
5,500.00	5,484.98	5,445.19	5,444.20	16.05	24.26	175.500	1,367.59	-14.59	1,686.31	1,646.05	40.27	41.879	
5,600.00	5,584.53	5,542.59	5,541.57	16.43	24.58	175.474	1,368.95	-16.06	1,697.16	1,656.21	40.96	41.439	
5,700.00	5,684.07	5,639.47	5,638.44	16.80	24.90	175.452	1,370.42	-17.45	1,708.14	1,666.49	41.64	41.017	
5,800.00	5,783.62	5,735.63	5,734.57	17.17	25.22	175.422	1,372.04	-19.05	1,719.29	1,676.95	42.33	40.614	
5,900.00	5,883.17	5,834.46	5,833.36	17.55	25.55	175.382	1,373.88	-20.98	1,730.60	1,687.56	43.03	40.216	
6,000.00	5,982.72	5,938.85	5,937.72	17.92	25.89	175.347	1,375.63	-22.82	1,741.72	1,697.97	43.76	39.805	
6,100.00	6,082.26	6,042.18	6,041.03	18.30	26.24	175.323	1,377.07	-24.36	1,752.58	1,708.10	44.48	39.403	
6,200.00	6,181.81	6,143.93	6,142.76	18.68	26.58	175.299	1,378.33	-25.87	1,763.28	1,718.08	45.19	39.015	
6,300.00	6,281.36	6,242.54	6,241.35	19.06	26.91	175.274	1,379.46	-27.41	1,773.89	1,727.99	45.90	38.648	
6,400.00	6,380.91	6,337.22	6,336.01	19.43	27.22	175.239	1,380.74	-29.21	1,784.70	1,738.11	46.59	38.308	
6,500.00	6,480.45	6,433.91	6,432.66	19.81	27.55	175.193	1,382.29	-31.41	1,795.75	1,748.47	47.29	37.977	
6,600.00	6,580.00	6,534.69	6,533.40	20.20	27.88	175.147	1,383.90	-33.65	1,806.81	1,758.81	48.00	37.640	
6,700.00	6,679.55	6,635.40	6,634.08	20.58	28.22	175.107	1,385.43	-35.71	1,817.79	1,769.07	48.72	37.312	
6,800.00	6,779.09	6,735.96	6,734.61	20.96	28.56	175.072	1,386.89	-37.64	1,828.70	1,779.27	49.44	36.991	
6,900.00	6,878.64	6,836.03	6,834.65	21.34	28.90	175.041	1,388.28	-39.45	1,839.56	1,789.41	50.15	36.679	
7,000.00	6,978.19	6,935.22	6,933.82	21.72	29.23	175.018	1,389.66	-41.01	1,850.41	1,799.55	50.87	36.378	
7,100.00	7,077.74	7,034.61	7,033.19	22.11	29.56	175.002	1,391.06	-42.35	1,861.28	1,809.70	51.58	36.084	
7,200.00	7,177.28	7,134.39	7,132.95	22.49	29.90	174.986	1,392.44	-43.69	1,872.13	1,819.83	52.30	35.797	
7,300.00	7,276.87	7,234.39	7,232.94	22.85	30.24	174.976	1,393.81	-45.11	1,882.54	1,829.54	53.00	35.522	
7,400.00	7,376.68	7,335.03	7,333.55	23.22	30.58	174.953	1,395.14	-46.80	1,889.88	1,836.18	53.70	35.193	
7,500.00	7,476.64	7,435.94	7,434.43	23.51	30.92	174.907	1,396.42	-48.79	1,893.71	1,839.38	54.34	34.852	
7,600.00	7,576.64	7,537.07	7,535.53	23.55	31.26	-0.248	1,397.65	-50.89	1,895.03	1,840.32	54.71	34.635	
7,700.00	7,676.64	7,637.89	7,636.32	23.57	31.60	-0.312	1,398.82	-53.02	1,896.20	1,841.12	55.08	34.429	
7,800.00	7,776.64	7,738.20	7,736.60	23.60	31.94	-0.372	1,399.95	-55.00	1,897.34	1,841.91	55.44	34.226	
7,900.00	7,876.63	7,839.41	7,837.80	23.62	32.28	-90.251	1,401.07	-56.83	1,898.46	1,842.66	55.81	34.018	
8,000.00	7,975.49	7,940.74	7,939.11	23.60	32.63	-90.623	1,402.07	-58.58	1,899.59	1,843.44	56.15	33.830	
8,100.00	8,070.39	8,038.19	8,036.53	23.59	32.96	-91.429	1,402.89	-60.22	1,901.11	1,844.63	56.48	33.661	
8,200.00	8,158.44	8,128.97	8,127.31	23.60	33.27	-92.484	1,403.49	-61.72	1,903.80	1,847.01	56.79	33.521	
8,300.00	8,236.97	8,209.47	8,207.79	23.65	33.54	-93.508	1,403.88	-63.03	1,908.75	1,851.65	57.11	33.424	
8,400.00	8,303.59	8,276.27	8,274.58	23.78	33.77	-94.172	1,404.12	-64.17	1,917.19	1,859.76	57.44	33.379 SF	
8,500.00	8,356.28	8,328.44	8,326.75	24.04	33.95	-94.201	1,404.27	-65.13	1,930.20	1,872.39	57.81	33.390	
8,600.00	8,393.43	8,364.47	8,362.76	24.46	34.07	-93.351	1,404.35	-65.82	1,948.48	1,890.25	58.23	33.461	
8,700.00	8,413.92	8,383.32	8,381.62	25.04	34.13	-91.462	1,404.38	-66.20	1,972.23	1,913.54	58.69	33.602	
8,800.00	8,418.00	8,385.43	8,383.72	25.79	34.14	-89.525	1,404.39	-66.24	2,001.04	1,941.88	59.16	33.824	
8,900.00	8,418.00	8,383.40	8,381.69	26.68	34.13	-89.464	1,404.38	-66.20	2,034.37	1,974.69	59.68	34.089	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		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)		
9,100.00	8,418.00	8,422.08	8,420.99	28.83	29.81	92.176	-1,291.73	2,699.49	2,003.32	1,956.61	46.71	42.887
9,200.00	8,418.00	8,420.67	8,419.58	30.06	29.80	92.075	-1,291.74	2,699.51	1,912.13	1,864.77	47.36	40.378
9,300.00	8,418.00	8,419.26	8,418.17	31.38	29.80	91.975	-1,291.75	2,699.53	1,821.86	1,773.72	48.13	37.851
9,400.00	8,418.00	8,417.85	8,416.76	32.78	29.79	91.874	-1,291.76	2,699.55	1,732.65	1,683.60	49.06	35.319
9,500.00	8,418.00	8,416.44	8,415.35	34.25	29.79	91.774	-1,291.77	2,699.57	1,644.69	1,594.54	50.15	32.794
9,600.00	8,418.00	8,415.03	8,413.94	35.78	29.78	91.673	-1,291.77	2,699.59	1,558.19	1,506.74	51.44	30.291
9,700.00	8,418.00	8,413.62	8,412.53	37.36	29.78	91.572	-1,291.78	2,699.61	1,473.38	1,420.44	52.95	27.828
9,800.00	8,418.00	8,412.22	8,411.12	38.98	29.77	91.472	-1,291.79	2,699.63	1,390.60	1,335.91	54.69	25.425
9,900.00	8,418.00	8,410.81	8,409.71	40.65	29.77	91.371	-1,291.80	2,699.65	1,310.22	1,253.51	56.71	23.104
10,000.00	8,418.00	8,409.40	8,408.31	42.35	29.76	91.271	-1,291.81	2,699.67	1,232.72	1,173.70	59.02	20.888
10,100.00	8,418.00	8,407.99	8,406.90	44.08	29.76	91.170	-1,291.82	2,699.69	1,158.66	1,097.03	61.64	18.798
10,200.00	8,418.00	8,406.58	8,405.49	45.84	29.75	91.070	-1,291.82	2,699.71	1,088.76	1,024.18	64.58	16.860
10,300.00	8,418.00	8,405.17	8,404.08	47.63	29.75	90.969	-1,291.83	2,699.73	1,023.86	956.03	67.83	15.095
10,400.00	8,418.00	8,403.76	8,402.67	49.44	29.74	90.869	-1,291.84	2,699.75	964.98	893.62	71.36	13.523
10,500.00	8,418.00	8,402.36	8,401.26	51.27	29.74	90.768	-1,291.85	2,699.77	913.27	838.20	75.07	12.165
10,600.00	8,418.00	8,400.99	8,399.90	53.11	29.74	90.671	-1,291.86	2,699.79	870.03	791.19	78.85	11.035
10,700.00	8,418.00	8,399.52	8,398.43	54.97	29.73	90.566	-1,291.86	2,699.81	836.56	754.09	82.47	10.144
10,800.00	8,418.00	8,398.04	8,396.95	56.85	29.72	90.460	-1,291.87	2,699.83	814.07	728.35	85.72	9.497
10,900.00	8,418.00	8,396.56	8,395.47	58.74	29.72	90.354	-1,291.88	2,699.85	803.48	715.14	88.34	9.096
10,935.67	8,418.00	8,396.03	8,394.94	59.42	29.72	90.317	-1,291.88	2,699.86	802.69	713.60	89.09	9.010 CC, ES
11,000.00	8,418.00	8,395.07	8,393.98	60.64	29.71	90.248	-1,291.89	2,699.87	805.26	715.11	90.15	8.932 SF
11,100.00	8,418.00	8,393.57	8,392.48	62.55	29.71	90.141	-1,291.90	2,699.90	819.33	728.24	91.09	8.995
11,200.00	8,418.00	8,392.07	8,390.98	64.47	29.70	90.034	-1,291.90	2,699.92	845.08	753.89	91.19	9.267
11,300.00	8,418.00	8,390.56	8,389.47	66.40	29.70	89.927	-1,291.91	2,699.94	881.49	790.90	90.59	9.731
11,400.00	8,418.00	8,389.05	8,387.96	68.34	29.69	89.819	-1,291.92	2,699.96	927.29	837.83	89.47	10.365
11,500.00	8,418.00	8,387.53	8,386.44	70.29	29.69	89.710	-1,291.93	2,699.98	981.18	893.18	88.01	11.149
11,600.00	8,418.00	8,386.01	8,384.92	72.24	29.68	89.602	-1,291.94	2,700.00	1,041.90	955.55	86.36	12.065
11,700.00	8,418.00	8,384.48	8,383.39	74.20	29.68	89.492	-1,291.94	2,700.03	1,108.33	1,023.70	84.63	13.095
11,800.00	8,418.00	8,382.94	8,381.85	76.17	29.67	89.383	-1,291.95	2,700.05	1,179.50	1,096.58	82.92	14.225
11,900.00	8,418.00	8,381.40	8,380.31	78.14	29.67	89.273	-1,291.96	2,700.07	1,254.61	1,173.35	81.26	15.439
12,000.00	8,418.00	8,379.85	8,378.76	80.11	29.66	89.162	-1,291.96	2,700.09	1,333.00	1,253.31	79.69	16.727
12,100.00	8,418.00	8,378.30	8,377.21	82.09	29.66	89.051	-1,291.97	2,700.11	1,414.11	1,335.89	78.22	18.079
12,200.00	8,418.00	8,376.73	8,375.65	84.08	29.65	88.940	-1,291.98	2,700.14	1,497.50	1,420.65	76.85	19.486
12,300.00	8,418.00	8,375.17	8,374.08	86.07	29.64	88.828	-1,291.98	2,700.16	1,582.82	1,507.23	75.59	20.940
12,400.00	8,418.00	8,373.59	8,372.51	88.06	29.64	88.716	-1,291.99	2,700.18	1,669.77	1,595.34	74.42	22.436
12,500.00	8,418.00	8,372.01	8,370.93	90.05	29.63	88.603	-1,292.00	2,700.21	1,758.10	1,684.75	73.36	23.967
12,600.00	8,418.00	8,370.43	8,369.34	92.05	29.63	88.490	-1,292.00	2,700.23	1,847.63	1,775.25	72.37	25.529
12,700.00	8,418.00	8,368.84	8,367.75	94.06	29.62	88.377	-1,292.01	2,700.25	1,938.17	1,866.70	71.47	27.118
12,800.00	8,418.00	8,367.24	8,366.15	96.06	29.62	88.263	-1,292.01	2,700.28	2,029.61	1,958.96	70.64	28.730

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		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)		
15,500.00	8,418.00	7,225.00	7,223.61	150.86	163.77	35.766	-1,321.61	8,685.52	2,033.31	1,823.24	210.07	9.679
15,600.00	8,418.00	7,225.00	7,223.61	152.90	163.77	35.766	-1,321.61	8,685.52	1,964.71	1,753.45	211.26	9.300
15,700.00	8,418.00	7,225.00	7,223.61	154.95	163.77	35.766	-1,321.61	8,685.52	1,898.91	1,686.51	212.40	8.940
15,800.00	8,418.00	7,225.00	7,223.61	157.00	163.77	35.766	-1,321.61	8,685.52	1,836.19	1,622.72	213.47	8.602
15,849.66	8,418.00	7,225.00	7,223.61	158.01	163.77	35.766	-1,321.61	8,685.52	1,806.30	1,592.32	213.97	8.442
15,900.00	8,418.00	7,225.00	7,223.61	159.04	163.77	35.766	-1,321.61	8,685.52	1,776.90	1,562.44	214.46	8.285
15,948.20	8,418.00	7,225.00	7,223.61	160.03	163.77	35.766	-1,321.61	8,685.52	1,749.64	1,534.73	214.91	8.141
16,000.00	8,418.00	7,225.00	7,223.61	161.09	163.77	35.766	-1,321.61	8,685.52	1,721.37	1,506.01	215.36	7.993
16,046.69	8,418.00	7,225.00	7,223.61	162.05	163.77	35.766	-1,321.61	8,685.52	1,696.84	1,481.10	215.75	7.865
16,100.00	8,418.00	7,225.00	7,223.61	163.14	163.77	35.766	-1,321.61	8,685.52	1,669.99	1,453.83	216.16	7.726
16,145.12	8,418.00	7,225.00	7,223.61	164.06	163.77	35.766	-1,321.61	8,685.52	1,648.27	1,431.78	216.49	7.613
16,200.00	8,418.00	7,225.00	7,223.61	165.19	163.77	35.766	-1,321.61	8,685.52	1,623.16	1,406.29	216.87	7.484
16,243.49	8,418.00	7,225.00	7,223.61	166.08	163.77	35.766	-1,321.61	8,685.52	1,604.31	1,387.16	217.15	7.388
16,300.00	8,418.00	7,225.00	7,223.61	167.24	163.77	35.766	-1,321.61	8,685.52	1,581.26	1,363.77	217.49	7.270
16,341.78	8,418.00	7,225.00	7,223.61	168.09	163.77	35.766	-1,321.61	8,685.52	1,565.32	1,347.58	217.74	7.189
16,400.00	8,418.00	7,225.00	7,223.61	169.28	163.77	35.766	-1,321.61	8,685.52	1,544.72	1,326.65	218.07	7.084
16,440.00	8,418.00	7,225.00	7,223.61	170.10	163.77	35.766	-1,321.61	8,685.52	1,531.69	1,313.39	218.30	7.016
16,500.00	8,418.00	7,225.00	7,223.61	171.33	163.77	35.766	-1,321.61	8,685.52	1,513.91	1,295.26	218.65	6.924
16,538.13	8,418.00	7,225.00	7,223.61	172.12	163.77	35.766	-1,321.61	8,685.52	1,503.74	1,284.86	218.88	6.870
16,600.00	8,418.00	7,225.00	7,223.61	173.39	163.77	35.766	-1,321.61	8,685.52	1,489.18	1,269.89	219.29	6.791
16,636.17	8,418.00	7,225.00	7,223.61	174.13	163.77	35.766	-1,321.61	8,685.52	1,481.80	1,262.25	219.56	6.749
16,700.00	8,418.00	7,225.00	7,223.61	175.44	163.77	35.766	-1,321.61	8,685.52	1,470.86	1,250.78	220.07	6.683
16,734.14	8,418.00	7,225.00	7,223.61	176.14	163.77	35.766	-1,321.61	8,685.52	1,466.11	1,245.73	220.39	6.652
16,800.00	8,418.00	7,225.00	7,223.61	177.49	163.77	35.766	-1,321.61	8,685.52	1,459.17	1,238.11	221.06	6.601
16,832.03	8,418.00	7,225.00	7,223.61	178.14	163.77	35.766	-1,321.61	8,685.52	1,456.86	1,235.43	221.43	6.579
16,900.00	8,418.00	7,225.00	7,223.61	179.54	163.77	35.766	-1,321.61	8,685.52	1,454.28	1,231.98	222.31	6.542
16,921.21	8,418.00	7,225.00	7,223.61	179.97	163.77	35.766	-1,321.61	8,685.52	1,454.13	1,231.53	222.60	6.532 CC
16,921.68	8,418.00	7,225.00	7,223.61	179.98	163.77	35.766	-1,321.61	8,685.52	1,454.13	1,231.52	222.61	6.532 ES
17,000.00	8,418.00	7,225.00	7,223.61	181.59	163.77	35.766	-1,321.61	8,685.52	1,456.26	1,232.45	223.81	6.507
17,019.59	8,418.00	7,225.00	7,223.61	181.99	163.77	35.766	-1,321.61	8,685.52	1,457.45	1,233.32	224.13	6.503
17,100.00	8,418.00	7,225.00	7,223.61	183.64	163.77	35.766	-1,321.61	8,685.52	1,465.08	1,239.54	225.54	6.496 SF
17,117.56	8,418.00	7,225.00	7,223.61	184.00	163.77	35.766	-1,321.61	8,685.52	1,467.33	1,241.46	225.87	6.496
17,200.00	8,418.00	7,225.00	7,223.61	185.70	163.77	35.766	-1,321.61	8,685.52	1,480.61	1,253.17	227.44	6.510
17,300.00	8,418.00	7,225.00	7,223.61	187.75	163.77	35.766	-1,321.61	8,685.52	1,502.66	1,273.25	229.40	6.550
17,400.00	8,418.00	7,225.00	7,223.61	189.80	163.77	35.766	-1,321.61	8,685.52	1,530.92	1,299.60	231.33	6.618
17,500.00	8,418.00	7,225.00	7,223.61	191.86	163.77	35.766	-1,321.61	8,685.52	1,565.08	1,331.95	233.13	6.713
17,600.00	8,418.00	7,225.00	7,223.61	193.91	163.77	35.766	-1,321.61	8,685.52	1,604.76	1,370.01	234.75	6.836
17,700.00	8,418.00	7,225.00	7,223.61	195.97	163.77	35.766	-1,321.61	8,685.52	1,649.55	1,413.42	236.13	6.986
17,800.00	8,418.00	7,225.00	7,223.61	198.02	163.77	35.766	-1,321.61	8,685.52	1,699.05	1,461.80	237.25	7.162
17,900.00	8,418.00	7,225.00	7,223.61	200.08	163.77	35.766	-1,321.61	8,685.52	1,752.86	1,514.76	238.10	7.362
18,000.00	8,418.00	7,225.00	7,223.61	202.13	163.77	35.766	-1,321.61	8,685.52	1,810.60	1,571.89	238.71	7.585
18,100.00	8,418.00	7,225.00	7,223.61	204.19	163.77	35.766	-1,321.61	8,685.52	1,871.91	1,632.82	239.08	7.830
18,200.00	8,418.00	7,225.00	7,223.61	206.24	163.77	35.766	-1,321.61	8,685.52	1,936.44	1,697.19	239.25	8.094
18,300.00	8,418.00	7,225.00	7,223.61	208.30	163.77	35.766	-1,321.61	8,685.52	2,003.88	1,764.65	239.24	8.376

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		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)			
13,900.00	8,418.00	8,410.82	8,406.50	118.26	227.31	-90.000	-339.90	7,689.74	2,032.77	1,787.08	245.69	8.274	
14,000.00	8,418.00	8,410.82	8,406.50	120.29	227.31	-90.000	-339.90	7,689.74	1,933.00	1,686.97	246.04	7.857	
14,100.00	8,418.00	8,410.82	8,406.50	122.32	227.31	-90.000	-339.90	7,689.74	1,833.26	1,586.83	246.43	7.439	
14,200.00	8,418.00	8,410.82	8,406.50	124.35	227.31	-90.000	-339.90	7,689.74	1,733.55	1,486.68	246.86	7.022	
14,300.00	8,418.00	8,410.82	8,406.50	126.39	227.31	-90.000	-339.90	7,689.74	1,633.87	1,386.51	247.36	6.605	
14,400.00	8,418.00	8,410.82	8,406.50	128.42	227.31	-90.000	-339.90	7,689.74	1,534.23	1,286.30	247.93	6.188	
14,500.00	8,418.00	8,410.82	8,406.50	130.46	227.31	-90.000	-339.90	7,689.74	1,434.64	1,186.06	248.58	5.771	
14,600.00	8,418.00	8,410.82	8,406.50	132.49	227.31	-90.000	-339.90	7,689.74	1,335.12	1,085.76	249.36	5.354	
14,700.00	8,418.00	8,410.82	8,406.50	134.53	227.31	-90.000	-339.90	7,689.74	1,235.67	985.39	250.28	4.937	
14,800.00	8,418.00	8,410.82	8,406.50	136.57	227.31	-90.000	-339.90	7,689.74	1,136.32	884.93	251.39	4.520	
14,900.00	8,418.00	8,410.82	8,406.50	138.61	227.31	-90.000	-339.90	7,689.74	1,037.09	784.34	252.75	4.103	
15,000.00	8,418.00	8,410.82	8,406.50	140.65	227.31	-90.000	-339.90	7,689.74	938.03	683.57	254.46	3.686	
15,100.00	8,418.00	8,410.82	8,406.50	142.69	227.31	-90.000	-339.90	7,689.74	839.19	582.56	256.63	3.270	
15,200.00	8,418.00	8,410.82	8,406.50	144.73	227.31	-90.000	-339.90	7,689.74	740.66	481.19	259.47	2.854	
15,300.00	8,418.00	8,410.82	8,406.50	146.77	227.31	-90.000	-339.90	7,689.74	642.58	379.29	263.29	2.441	
15,400.00	8,418.00	8,410.82	8,406.50	148.82	227.31	-90.000	-339.90	7,689.74	545.21	276.59	268.62	2.030	
15,500.00	8,418.00	8,410.82	8,406.50	150.86	227.31	-90.000	-339.90	7,689.74	448.99	172.61	276.38	1.625 Level 3	
15,600.00	8,418.00	8,410.82	8,406.50	152.90	227.31	-90.000	-339.90	7,689.74	354.87	66.49	288.38	1.231 Level 3	
15,700.00	8,418.00	8,410.82	8,406.50	154.95	227.31	-90.000	-339.90	7,689.74	265.08	-43.13	308.21	0.860 Level 3	
15,800.00	8,418.00	8,410.82	8,406.50	157.00	227.31	-90.000	-339.90	7,689.74	186.03	-156.15	342.19	0.544 Level 3	
15,900.00	8,418.00	8,410.82	8,406.50	159.04	227.31	-90.000	-339.90	7,689.74	137.65	-245.50	383.15	0.359 Level 3	
15,928.30	8,418.00	8,410.82	8,406.50	159.62	227.31	-90.000	-339.90	7,689.74	134.71	-252.23	386.94	0.348 Level 3, CC, ES, SF	
16,000.00	8,418.00	8,410.82	8,406.50	161.09	227.31	-90.000	-339.90	7,689.74	152.60	-216.86	369.46	0.413 Level 3	
16,100.00	8,418.00	8,410.82	8,406.50	163.14	227.31	-90.000	-339.90	7,689.74	218.23	-110.32	328.55	0.664 Level 3	
16,200.00	8,418.00	8,410.82	8,406.50	165.19	227.31	-90.000	-339.90	7,689.74	303.26	1.24	302.01	1.004 Level 3	
16,300.00	8,418.00	8,410.82	8,406.50	167.24	227.31	-90.000	-339.90	7,689.74	395.35	108.93	286.42	1.380 Level 3	
16,400.00	8,418.00	8,410.82	8,406.50	169.28	227.31	-90.000	-339.90	7,689.74	490.55	213.85	276.70	1.773 Level 3	
16,500.00	8,418.00	8,410.82	8,406.50	171.33	227.31	-90.000	-339.90	7,689.74	587.35	317.09	270.26	2.173	
16,600.00	8,418.00	8,410.82	8,406.50	173.39	227.31	-90.000	-339.90	7,689.74	685.07	419.29	265.78	2.578	
16,700.00	8,418.00	8,410.82	8,406.50	175.44	227.31	-90.000	-339.90	7,689.74	783.36	520.83	262.54	2.984	
16,800.00	8,418.00	8,410.82	8,406.50	177.49	227.31	-90.000	-339.90	7,689.74	882.04	621.92	260.13	3.391	
16,900.00	8,418.00	8,410.82	8,406.50	179.54	227.31	-90.000	-339.90	7,689.74	980.99	722.69	258.29	3.798	
17,000.00	8,418.00	8,410.82	8,406.50	181.59	227.31	-90.000	-339.90	7,689.74	1,080.13	823.25	256.88	4.205	
17,100.00	8,418.00	8,410.82	8,406.50	183.64	227.31	-90.000	-339.90	7,689.74	1,179.41	923.65	255.77	4.611	
17,200.00	8,418.00	8,410.82	8,406.50	185.70	227.31	-90.000	-339.90	7,689.74	1,278.81	1,023.93	254.88	5.017	
17,300.00	8,418.00	8,410.82	8,406.50	187.75	227.31	-90.000	-339.90	7,689.74	1,378.29	1,124.11	254.18	5.423	
17,400.00	8,418.00	8,410.82	8,406.50	189.80	227.31	-90.000	-339.90	7,689.74	1,477.85	1,224.23	253.61	5.827	
17,500.00	8,418.00	8,410.82	8,406.50	191.86	227.31	-90.000	-339.90	7,689.74	1,577.46	1,324.30	253.16	6.231	
17,600.00	8,418.00	8,410.82	8,406.50	193.91	227.31	-90.000	-339.90	7,689.74	1,677.11	1,424.33	252.79	6.634	
17,700.00	8,418.00	8,410.82	8,406.50	195.97	227.31	-90.000	-339.90	7,689.74	1,776.81	1,524.32	252.49	7.037	
17,800.00	8,418.00	8,410.82	8,406.50	198.02	227.31	-90.000	-339.90	7,689.74	1,876.54	1,624.28	252.25	7.439	
17,900.00	8,418.00	8,410.82	8,406.50	200.08	227.31	-90.000	-339.90	7,689.74	1,976.29	1,724.23	252.06	7.840	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)													Offset Site Error: 0.00 usft	
Survey Program: 210-INC-ONLY													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	8,418.00	8,395.78	8,393.98	126.39	218.89	89.829	-1,652.25	7,696.78	2,012.14	1,718.54	293.60	6.853		
14,400.00	8,418.00	8,395.78	8,393.98	128.42	218.89	89.829	-1,652.25	7,696.78	1,931.94	1,634.13	297.81	6.487		
14,500.00	8,418.00	8,395.78	8,393.98	130.46	218.89	89.828	-1,652.25	7,696.78	1,853.67	1,551.36	302.31	6.132		
14,600.00	8,418.00	8,395.78	8,393.97	132.49	218.89	89.828	-1,652.25	7,696.78	1,777.58	1,470.46	307.12	5.788		
14,700.00	8,418.00	8,395.78	8,393.97	134.53	218.89	89.828	-1,652.25	7,696.78	1,703.96	1,391.73	312.23	5.457		
14,800.00	8,418.00	8,395.77	8,393.97	136.57	218.89	89.828	-1,652.25	7,696.78	1,633.15	1,315.50	317.65	5.141		
14,900.00	8,418.00	8,395.77	8,393.97	138.61	218.89	89.828	-1,652.25	7,696.78	1,565.53	1,242.17	323.36	4.841		
15,000.00	8,418.00	8,395.77	8,393.97	140.65	218.89	89.828	-1,652.25	7,696.78	1,501.53	1,172.19	329.34	4.559		
15,100.00	8,418.00	8,395.77	8,393.97	142.69	218.89	89.828	-1,652.25	7,696.78	1,441.63	1,106.10	335.52	4.297		
15,200.00	8,418.00	8,395.77	8,393.97	144.73	218.89	89.828	-1,652.25	7,696.78	1,386.36	1,044.51	341.85	4.055		
15,300.00	8,418.00	8,395.77	8,393.97	146.77	218.89	89.828	-1,652.25	7,696.78	1,336.30	988.09	348.21	3.838		
15,400.00	8,418.00	8,395.77	8,393.97	148.82	218.89	89.828	-1,652.25	7,696.78	1,292.05	937.58	354.47	3.645		
15,500.00	8,418.00	8,395.77	8,393.97	150.86	218.89	89.828	-1,652.25	7,696.78	1,254.23	893.77	360.46	3.480		
15,600.00	8,418.00	8,395.77	8,393.97	152.90	218.89	89.828	-1,652.25	7,696.78	1,223.43	857.44	365.99	3.343		
15,700.00	8,418.00	8,395.77	8,393.96	154.95	218.89	89.828	-1,652.25	7,696.78	1,200.20	829.34	370.86	3.236		
15,800.00	8,418.00	8,395.77	8,393.96	157.00	218.89	89.828	-1,652.25	7,696.78	1,184.98	810.11	374.87	3.161		
15,900.00	8,418.00	8,395.77	8,393.96	159.04	218.89	89.828	-1,652.25	7,696.78	1,178.08	800.21	377.88	3.118		
15,931.50	8,418.00	8,395.76	8,393.96	159.69	218.89	89.828	-1,652.25	7,696.78	1,177.66	799.06	378.60	3.111	CC, ES	
16,000.00	8,418.00	8,395.76	8,393.96	161.09	218.89	89.828	-1,652.25	7,696.78	1,179.65	799.88	379.77	3.106	SF	
16,100.00	8,418.00	8,395.76	8,393.96	163.14	218.89	89.828	-1,652.25	7,696.78	1,189.66	809.13	380.53	3.126		
16,200.00	8,418.00	8,395.76	8,393.96	165.19	218.89	89.828	-1,652.25	7,696.78	1,207.88	827.71	380.18	3.177		
16,300.00	8,418.00	8,395.76	8,393.96	167.24	218.89	89.828	-1,652.25	7,696.78	1,233.97	855.14	378.83	3.257		
16,400.00	8,418.00	8,395.76	8,393.96	169.28	218.89	89.828	-1,652.25	7,696.78	1,267.43	890.80	376.63	3.365		
16,500.00	8,418.00	8,395.76	8,393.96	171.33	218.89	89.828	-1,652.25	7,696.78	1,307.70	933.95	373.75	3.499		
16,600.00	8,418.00	8,395.76	8,393.96	173.39	218.89	89.828	-1,652.25	7,696.78	1,354.17	983.81	370.36	3.656		
16,700.00	8,418.00	8,395.76	8,393.96	175.44	218.89	89.828	-1,652.25	7,696.78	1,406.23	1,039.61	366.61	3.836		
16,800.00	8,418.00	8,395.76	8,393.96	177.49	218.89	89.828	-1,652.25	7,696.78	1,463.28	1,100.62	362.66	4.035		
16,900.00	8,418.00	8,395.76	8,393.95	179.54	218.89	89.827	-1,652.25	7,696.78	1,524.75	1,166.15	358.61	4.252		
17,000.00	8,418.00	8,395.76	8,393.95	181.59	218.89	89.827	-1,652.25	7,696.78	1,590.15	1,235.60	354.55	4.485		
17,100.00	8,418.00	8,395.75	8,393.95	183.64	218.89	89.827	-1,652.25	7,696.78	1,659.00	1,308.45	350.55	4.733		
17,200.00	8,418.00	8,395.75	8,393.95	185.70	218.89	89.827	-1,652.25	7,696.78	1,730.89	1,384.24	346.65	4.993		
17,300.00	8,418.00	8,395.75	8,393.95	187.75	218.89	89.827	-1,652.25	7,696.78	1,805.46	1,462.56	342.89	5.265		
17,400.00	8,418.00	8,395.75	8,393.95	189.80	218.89	89.827	-1,652.25	7,696.78	1,882.38	1,543.09	339.29	5.548		
17,500.00	8,418.00	8,395.75	8,393.95	191.86	218.89	89.827	-1,652.25	7,696.78	1,961.39	1,625.53	335.86	5.840		
17,600.00	8,418.00	8,395.75	8,393.95	193.91	218.89	89.827	-1,652.25	7,696.78	2,042.25	1,709.64	332.60	6.140		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W08) HULKSTER 001 - 38446 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program: 239-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	-62.561	640.20	-1,233.00	1,389.35					
100.00	100.00	87.50	87.50	0.79	1.79	-62.561	640.20	-1,233.00	1,389.30	1,386.73	2.57	540.285		
200.00	200.00	187.50	187.50	1.45	3.83	-62.561	640.20	-1,233.00	1,389.30	1,384.03	5.27	263.487		
300.00	300.00	287.50	287.50	1.89	5.83	-62.561	640.20	-1,233.00	1,389.30	1,381.58	7.72	179.926		
400.00	400.00	387.50	387.50	2.25	7.79	-62.561	640.20	-1,233.00	1,389.30	1,379.25	10.05	138.285		
500.00	500.00	487.50	487.50	2.57	9.76	-62.561	640.20	-1,233.00	1,389.30	1,376.97	12.32	112.734		
600.00	600.00	587.50	587.50	2.85	11.55	-62.561	640.20	-1,233.00	1,389.30	1,374.90	14.40	96.487		
700.00	700.00	688.21	688.21	3.11	13.29	-62.558	640.29	-1,233.00	1,389.34	1,372.94	16.40	84.725		
800.00	800.00	787.50	787.50	3.35	15.32	-62.561	640.20	-1,233.00	1,389.30	1,370.63	18.66	74.436		
900.00	900.00	887.50	887.50	3.58	17.77	-62.561	640.20	-1,233.00	1,389.30	1,367.95	21.35	65.085		
1,000.00	1,000.00	987.54	987.53	3.79	20.23	-62.551	640.45	-1,233.00	1,389.42	1,365.40	24.02	57.852		
1,100.00	1,100.00	1,088.13	1,088.13	3.99	22.70	-62.553	640.40	-1,233.00	1,389.39	1,362.70	26.69	52.054		
1,200.00	1,200.00	1,188.72	1,188.72	4.19	25.17	-62.559	640.26	-1,233.00	1,389.33	1,359.97	29.36	47.324		
1,298.34	1,298.34	1,285.85	1,285.84	4.38	27.59	-62.561	640.20	-1,233.00	1,389.30	1,357.33	31.97	43.455		
1,300.00	1,300.00	1,287.51	1,287.50	4.38	27.64	-62.561	640.20	-1,233.00	1,389.30	1,357.28	32.02	43.394		
1,400.00	1,400.00	1,387.51	1,387.50	4.56	30.15	-62.561	640.20	-1,233.00	1,389.30	1,354.58	34.72	40.018		
1,500.00	1,500.00	1,487.51	1,487.50	4.74	32.67	-62.561	640.20	-1,233.00	1,389.30	1,351.89	37.41	37.134		
1,600.00	1,600.00	1,587.91	1,587.90	4.91	35.20	-62.550	640.48	-1,233.00	1,389.43	1,349.32	40.11	34.637		
1,700.00	1,700.00	1,688.40	1,688.39	5.08	37.73	-62.554	640.38	-1,233.00	1,389.38	1,346.57	42.81	32.453		
1,800.00	1,800.00	1,788.89	1,788.88	5.24	40.26	-62.561	640.20	-1,233.00	1,389.30	1,343.80	45.51	30.530		
1,836.86	1,836.86	1,824.41	1,824.36	5.30	41.08	-62.561	640.20	-1,233.00	1,389.30	1,342.92	46.38	29.953		
1,900.00	1,900.00	1,887.55	1,887.50	5.40	42.52	-62.561	640.20	-1,233.00	1,389.30	1,341.38	47.92	28.993		
2,000.00	2,000.00	1,987.55	1,987.50	5.56	44.79	-62.561	640.20	-1,233.00	1,389.30	1,338.95	50.35	27.595 CC		
2,100.00	2,099.98	2,088.46	2,088.40	5.78	47.08	112.626	641.27	-1,233.00	1,390.46	1,337.68	52.78	26.344		
2,200.00	2,199.84	2,190.63	2,190.57	5.98	49.40	112.782	640.94	-1,233.00	1,392.34	1,337.12	55.22	25.214 ES		
2,300.00	2,299.46	2,292.63	2,292.56	6.09	51.72	113.050	640.26	-1,233.00	1,395.38	1,337.78	57.59	24.228		
2,400.00	2,399.01	2,386.71	2,386.51	6.26	53.76	113.385	640.20	-1,233.00	1,399.10	1,339.34	59.76	23.413		
2,500.00	2,498.56	2,487.14	2,486.92	6.45	55.93	113.789	641.50	-1,233.00	1,403.54	1,341.49	62.05	22.620		
2,600.00	2,598.11	2,593.20	2,592.97	6.65	58.23	114.142	640.87	-1,233.00	1,407.12	1,342.65	64.47	21.827		
2,700.00	2,697.65	2,685.49	2,685.15	6.87	60.19	114.444	640.20	-1,233.00	1,410.70	1,344.14	66.56	21.195		
2,800.00	2,797.20	2,785.08	2,784.70	7.10	62.26	114.793	640.20	-1,233.00	1,414.67	1,345.90	68.77	20.572		
2,900.00	2,896.75	2,884.63	2,884.25	7.35	64.38	115.140	640.20	-1,233.00	1,418.70	1,347.67	71.03	19.975		
3,000.00	2,996.30	2,989.34	2,988.94	7.61	66.61	115.526	640.86	-1,233.00	1,423.12	1,349.72	73.40	19.389		
3,100.00	3,095.84	3,083.80	3,083.34	7.89	68.57	115.828	640.20	-1,233.00	1,426.91	1,351.40	75.51	18.896		
3,200.00	3,195.39	3,183.35	3,182.89	8.17	70.53	116.170	640.20	-1,233.00	1,431.09	1,353.46	77.63	18.435		
3,300.00	3,294.94	3,288.04	3,287.56	8.46	72.60	116.543	640.67	-1,233.00	1,435.58	1,355.73	79.85	17.979		
3,400.00	3,394.49	3,382.49	3,381.99	8.76	74.33	116.846	640.20	-1,233.00	1,439.60	1,357.86	81.74	17.611		
3,500.00	3,494.03	3,482.04	3,481.53	9.07	75.97	117.182	640.20	-1,233.00	1,443.94	1,360.38	83.55	17.281		
3,600.00	3,593.58	3,585.14	3,584.63	9.38	77.67	117.535	640.44	-1,233.00	1,448.45	1,363.02	85.43	16.955		
3,700.00	3,693.13	3,681.14	3,680.63	9.70	79.54	117.846	640.20	-1,233.00	1,452.75	1,365.27	87.48	16.607		
3,800.00	3,792.67	3,780.69	3,780.17	10.03	81.74	118.175	640.20	-1,233.00	1,457.23	1,367.37	89.86	16.217		
3,900.00	3,892.22	3,880.23	3,879.72	10.36	83.93	118.503	640.20	-1,233.00	1,461.76	1,369.52	92.24	15.847		
4,000.00	3,991.77	3,979.78	3,979.27	10.69	86.12	118.828	640.20	-1,233.00	1,466.33	1,371.71	94.63	15.496		
4,100.00	4,091.32	4,079.33	4,078.82	11.03	88.32	119.151	640.20	-1,233.00	1,470.95	1,373.94	97.02	15.162		
4,200.00	4,190.86	4,178.88	4,178.36	11.37	90.51	119.472	640.20	-1,233.00	1,475.62	1,376.21	99.41	14.844		
4,300.00	4,290.41	4,278.44	4,277.91	11.72	92.56	119.791	640.20	-1,233.00	1,480.34	1,378.67	101.67	14.560		
4,400.00	4,389.96	4,377.99	4,377.46	12.07	94.58	120.109	640.20	-1,233.00	1,485.10	1,381.21	103.89	14.295		
4,500.00	4,489.51	4,477.53	4,477.01	12.42	96.59	120.424	640.20	-1,233.00	1,489.91	1,383.79	106.11	14.041		
4,600.00	4,589.05	4,578.90	4,578.36	12.77	98.63	120.769	641.04	-1,233.00	1,495.25	1,386.87	108.38	13.796		
4,700.00	4,688.60	4,680.53	4,679.99	13.13	100.68	121.076	640.71	-1,233.00	1,499.96	1,389.31	110.66	13.555		
4,800.00	4,788.15	4,776.20	4,775.65	13.49	102.61	121.357	640.20	-1,233.00	1,504.59	1,391.79	112.81	13.338		
4,900.00	4,887.70	4,875.75	4,875.20	13.85	104.34	121.664	640.20	-1,233.00	1,509.58	1,394.81	114.77	13.154		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W08) HULKSTER 001 - 38446 - (Inc Only)												Offset Site Error: 0.00 usft
Survey Program: 239-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
5,000.00	4,987.24	4,975.29	4,974.74	14.21	106.07	121.969	640.20	-1,233.00	1,514.60	1,397.88	116.73	12.975
5,100.00	5,086.79	5,075.36	5,074.81	14.58	107.81	122.281	640.44	-1,233.00	1,519.82	1,401.12	118.70	12.803
5,200.00	5,186.34	5,175.77	5,175.21	14.95	109.55	122.581	640.34	-1,233.00	1,524.87	1,404.18	120.69	12.635
5,300.00	5,285.88	5,273.94	5,273.38	15.31	111.31	122.872	640.20	-1,233.00	1,529.94	1,407.25	122.69	12.470
5,400.00	5,385.43	5,373.49	5,372.93	15.68	113.27	123.169	640.20	-1,233.00	1,535.14	1,410.24	124.90	12.291
5,500.00	5,484.98	5,473.04	5,472.48	16.05	115.24	123.464	640.20	-1,233.00	1,540.37	1,413.25	127.12	12.118
5,600.00	5,584.53	5,572.84	5,572.28	16.43	117.21	123.766	640.50	-1,233.00	1,545.84	1,416.50	129.34	11.951
5,700.00	5,684.07	5,673.14	5,672.58	16.80	119.19	124.058	640.44	-1,233.00	1,551.12	1,419.54	131.58	11.788
5,800.00	5,783.62	5,773.45	5,772.90	17.17	121.17	124.345	640.30	-1,233.00	1,556.39	1,422.56	133.83	11.630
5,900.00	5,883.17	5,871.25	5,870.67	17.55	123.14	124.624	640.20	-1,233.00	1,561.72	1,425.66	136.06	11.478
6,000.00	5,982.72	5,970.80	5,970.22	17.92	125.20	124.909	640.20	-1,233.00	1,567.16	1,428.77	138.39	11.325
6,100.00	6,082.26	6,070.34	6,069.76	18.30	127.25	125.192	640.20	-1,233.00	1,572.63	1,431.92	140.71	11.176
6,200.00	6,181.81	6,171.47	6,170.88	18.68	129.34	125.502	641.07	-1,233.00	1,578.71	1,435.64	143.08	11.034
6,300.00	6,281.36	6,273.50	6,272.91	19.06	131.44	125.780	640.79	-1,233.00	1,584.09	1,438.63	145.46	10.890
6,400.00	6,380.91	6,375.58	6,374.98	19.43	133.55	126.050	640.27	-1,233.00	1,589.35	1,441.51	147.84	10.750
6,500.00	6,480.45	6,468.58	6,467.95	19.81	135.44	126.305	640.20	-1,233.00	1,594.91	1,444.90	150.01	10.632
6,600.00	6,580.00	6,568.13	6,567.50	20.20	137.46	126.578	640.20	-1,233.00	1,600.57	1,448.26	152.32	10.508
6,700.00	6,679.55	6,667.88	6,667.24	20.58	139.49	126.874	641.09	-1,233.00	1,606.87	1,452.23	154.64	10.391
6,800.00	6,779.09	6,770.09	6,769.45	20.96	141.56	127.147	640.94	-1,233.00	1,612.51	1,455.51	157.00	10.271
6,900.00	6,878.64	6,872.35	6,871.71	21.34	143.64	127.411	640.55	-1,233.00	1,618.02	1,458.65	159.37	10.153
7,000.00	6,978.19	6,966.36	6,965.69	21.72	145.57	127.653	640.20	-1,233.00	1,623.58	1,461.99	161.59	10.048
7,100.00	7,077.74	7,065.91	7,065.24	22.11	147.65	127.917	640.20	-1,233.00	1,629.42	1,465.45	163.97	9.937
7,200.00	7,177.28	7,165.46	7,164.78	22.49	149.74	128.179	640.20	-1,233.00	1,635.30	1,468.93	166.36	9.830
7,300.00	7,276.87	7,267.72	7,267.04	22.85	151.88	128.492	640.90	-1,233.00	1,641.42	1,472.64	168.78	9.725
7,400.00	7,376.68	7,370.67	7,369.98	23.22	154.04	128.707	640.51	-1,233.00	1,644.94	1,473.73	171.21	9.608
7,500.00	7,476.64	7,464.89	7,464.14	23.51	156.07	128.787	640.20	-1,233.00	1,646.32	1,472.87	173.45	9.492
7,600.00	7,576.64	7,564.89	7,564.14	23.55	158.32	-46.302	640.20	-1,233.00	1,646.38	1,470.65	175.73	9.369
7,700.00	7,676.64	7,664.89	7,664.14	23.57	160.56	-46.302	640.20	-1,233.00	1,646.38	1,468.38	178.00	9.249
7,800.00	7,776.64	7,769.30	7,768.53	23.60	162.90	-46.271	641.41	-1,233.00	1,647.22	1,466.84	180.38	9.132
7,807.27	7,783.91	7,776.94	7,776.17	23.60	163.07	-136.105	641.38	-1,233.00	1,647.21	1,466.66	180.56	9.123
7,900.00	7,876.63	7,874.46	7,873.67	23.62	165.26	-136.110	640.77	-1,233.00	1,647.43	1,464.63	182.80	9.012
8,000.00	7,975.49	7,963.86	7,962.99	23.60	167.33	-135.733	640.20	-1,233.00	1,657.26	1,472.18	185.08	8.954 SF
8,100.00	8,070.39	8,058.76	8,057.89	23.59	169.64	-134.820	640.20	-1,233.00	1,679.97	1,492.39	187.59	8.956
8,200.00	8,168.44	8,146.81	8,145.94	23.60	171.79	-133.211	640.20	-1,233.00	1,714.87	1,525.00	189.87	9.032
8,300.00	8,236.97	8,228.16	8,227.27	23.65	173.77	-130.655	641.44	-1,233.00	1,762.22	1,570.27	191.95	9.181
8,400.00	8,303.59	8,298.44	8,297.54	23.78	175.48	-126.806	641.15	-1,233.00	1,819.35	1,625.64	193.71	9.392
8,500.00	8,356.28	8,354.02	8,353.12	24.04	176.84	-121.010	640.77	-1,233.00	1,885.94	1,690.85	195.09	9.667
8,600.00	8,393.43	8,393.22	8,392.31	24.46	177.79	-112.500	640.41	-1,233.00	1,960.34	1,764.29	196.06	9.999
8,700.00	8,413.92	8,414.83	8,413.92	25.04	178.32	-100.618	640.18	-1,233.00	2,040.49	1,843.92	196.57	10.380

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W09) HULKSTER 002 - 38844 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program: 252-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	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	-102.727	-351.04	-1,554.33	1,593.50					
100.00	100.00	90.50	90.50	0.79	1.91	-102.727	-351.04	-1,554.33	1,593.48	1,590.78	2.70	590.597		
200.00	200.00	190.50	190.50	1.45	4.03	-102.727	-351.04	-1,554.33	1,593.48	1,588.00	5.47	291.221		
300.00	300.00	290.50	290.50	1.89	6.09	-102.727	-351.04	-1,554.33	1,593.48	1,585.50	7.98	199.673		
385.99	385.99	376.49	376.49	2.20	7.82	-102.722	-350.91	-1,554.33	1,593.45	1,583.42	10.03	158.947		
400.00	400.00	390.41	390.41	2.25	8.10	-102.722	-350.91	-1,554.33	1,593.45	1,583.09	10.36	153.861		
500.00	500.00	489.79	489.79	2.57	10.11	-102.726	-351.02	-1,554.33	1,593.47	1,580.80	12.67	125.731		
588.44	588.44	578.81	578.77	2.82	11.94	-102.709	-350.54	-1,554.33	1,593.37	1,578.61	14.76	107.972		
600.00	600.00	589.72	589.68	2.85	12.17	-102.710	-350.55	-1,554.33	1,593.37	1,578.35	15.02	106.117		
700.00	700.00	688.46	688.39	3.11	14.17	-102.725	-350.99	-1,554.33	1,593.47	1,576.19	17.28	92.231		
759.91	759.91	750.48	750.40	3.25	15.57	-102.718	-350.80	-1,554.33	1,593.42	1,574.60	18.82	84.652		
800.00	800.00	788.49	788.41	3.35	16.44	-102.722	-350.91	-1,554.33	1,593.45	1,573.66	19.79	80.510		
898.72	898.72	889.31	889.18	3.57	19.05	-102.701	-350.32	-1,554.33	1,593.32	1,570.69	22.63	70.422		
900.00	900.00	890.50	890.37	3.58	19.08	-102.701	-350.32	-1,554.33	1,593.32	1,570.66	22.66	70.314		
1,000.00	1,000.00	990.71	990.50	3.79	21.68	-102.727	-351.04	-1,554.33	1,593.48	1,568.00	25.47	62.558		
1,037.30	1,037.30	1,028.00	1,027.79	3.87	22.55	-102.712	-350.61	-1,554.33	1,593.38	1,566.96	26.42	60.310		
1,100.00	1,100.00	1,090.08	1,089.84	3.99	23.99	-102.726	-351.02	-1,554.33	1,593.47	1,565.49	27.98	56.943		
1,200.00	1,200.00	1,190.74	1,190.50	4.19	26.10	-102.727	-351.04	-1,554.33	1,593.48	1,563.18	30.29	52.601		
1,232.90	1,232.90	1,223.63	1,223.39	4.25	26.79	-102.707	-350.48	-1,554.33	1,593.35	1,562.30	31.05	51.321		
1,300.00	1,300.00	1,289.20	1,288.95	4.38	28.17	-102.712	-350.62	-1,554.33	1,593.38	1,560.83	32.55	48.950		
1,400.00	1,400.00	1,390.77	1,390.50	4.56	30.22	-102.727	-351.04	-1,554.33	1,593.48	1,558.69	34.78	45.810		
1,472.23	1,472.23	1,463.00	1,462.72	4.69	31.58	-102.714	-350.68	-1,554.33	1,593.40	1,557.13	36.27	43.931		
1,500.00	1,500.00	1,490.21	1,489.93	4.74	32.09	-102.715	-350.70	-1,554.33	1,593.40	1,556.57	36.83	43.263		
1,600.00	1,600.00	1,590.78	1,590.50	4.91	34.00	-102.727	-351.04	-1,554.33	1,593.48	1,554.56	38.91	40.952		
1,700.00	1,700.00	1,690.78	1,690.50	5.08	35.98	-102.727	-351.04	-1,554.33	1,593.48	1,552.42	41.06	38.812		
1,738.92	1,738.92	1,729.70	1,729.41	5.14	36.75	-102.715	-350.70	-1,554.33	1,593.40	1,551.51	41.89	38.039		
1,800.00	1,800.00	1,790.19	1,789.91	5.24	37.94	-102.716	-350.75	-1,554.33	1,593.41	1,550.23	43.18	36.898		
1,900.00	1,900.00	1,890.80	1,890.50	5.40	39.94	-102.727	-351.04	-1,554.33	1,593.48	1,548.14	45.34	35.146		
2,000.00	2,000.00	1,990.80	1,990.50	5.56	42.02	-102.727	-351.04	-1,554.33	1,593.48	1,545.90	47.58	33.492		
2,100.00	2,099.98	2,089.77	2,089.46	5.78	44.08	72.447	-350.67	-1,554.33	1,592.87	1,543.09	49.78	32.001		
2,200.00	2,199.84	2,190.67	2,190.34	5.98	46.23	72.645	-351.04	-1,554.33	1,591.38	1,539.34	52.04	30.582		
2,300.00	2,299.46	2,290.30	2,289.96	6.09	48.51	72.973	-351.04	-1,554.33	1,588.83	1,534.47	54.36	29.227		
2,400.00	2,399.01	2,389.85	2,389.51	6.26	50.78	73.300	-351.04	-1,554.33	1,586.06	1,529.31	56.75	27.947		
2,500.00	2,498.56	2,488.51	2,488.17	6.45	53.04	73.659	-350.10	-1,554.33	1,583.16	1,524.04	59.12	26.780		
2,600.00	2,598.11	2,587.02	2,586.67	6.65	55.29	73.969	-350.55	-1,554.33	1,580.59	1,519.10	61.48	25.708		
2,700.00	2,697.65	2,688.53	2,688.15	6.87	57.60	74.288	-351.04	-1,554.33	1,578.07	1,514.17	63.90	24.694		
2,800.00	2,797.20	2,788.08	2,787.70	7.10	59.84	74.619	-351.04	-1,554.33	1,575.51	1,509.25	66.26	23.779		
2,900.00	2,896.75	2,887.63	2,887.25	7.35	62.07	74.951	-351.04	-1,554.33	1,573.01	1,504.39	68.61	22.926		
3,000.00	2,996.30	2,986.70	2,986.32	7.61	64.30	75.299	-350.61	-1,554.33	1,570.48	1,499.52	70.96	22.133		
3,100.00	3,095.84	3,085.80	3,085.41	7.89	66.53	75.622	-350.88	-1,554.33	1,568.13	1,494.83	73.30	21.392		
3,200.00	3,195.39	3,186.33	3,185.89	8.17	68.78	75.955	-351.04	-1,554.33	1,565.81	1,490.14	75.67	20.692		
3,300.00	3,294.94	3,285.88	3,285.44	8.46	71.01	76.291	-351.04	-1,554.33	1,563.53	1,485.51	78.02	20.041		
3,400.00	3,394.49	3,385.34	3,384.88	8.76	73.23	76.677	-349.68	-1,554.33	1,561.09	1,480.73	80.36	19.427		
3,500.00	3,494.03	3,483.96	3,483.50	9.07	75.43	77.004	-349.93	-1,554.33	1,558.95	1,476.28	82.68	18.856		
3,600.00	3,593.58	3,582.68	3,582.21	9.38	77.63	77.316	-350.61	-1,554.33	1,556.93	1,471.92	85.00	18.316		
3,700.00	3,693.13	3,684.13	3,683.63	9.70	79.81	77.646	-351.04	-1,554.33	1,554.92	1,467.62	87.30	17.811		
3,800.00	3,792.67	3,783.67	3,783.17	10.03	81.88	77.987	-351.04	-1,554.33	1,552.90	1,463.41	89.49	17.353		
3,900.00	3,892.22	3,883.15	3,882.65	10.36	83.95	78.348	-350.53	-1,554.33	1,550.88	1,459.21	91.67	16.917		
4,000.00	3,991.77	3,982.39	3,981.89	10.69	86.01	78.685	-350.66	-1,554.33	1,549.00	1,455.14	93.86	16.504		
4,100.00	4,091.32	4,081.67	4,081.16	11.03	88.08	79.016	-350.96	-1,554.33	1,547.18	1,451.15	96.04	16.110		
4,200.00	4,190.86	4,181.91	4,181.36	11.37	90.19	79.360	-351.04	-1,554.33	1,545.40	1,447.13	98.27	15.726		
4,300.00	4,290.41	4,281.45	4,280.91	11.72	92.29	79.705	-351.04	-1,554.33	1,543.67	1,443.18	100.49	15.361		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W09) HULKSTER 002 - 38844 - (Inc Only)											Offset Site Error: 0.00 usft
Survey Program: 252-INC-ONLY											Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
4,400.00	4,389.96	4,380.75	4,380.19	12.07	94.39	80.086	-350.09	-1,554.33	1,541.91	1,439.20	15.013
4,500.00	4,489.51	4,479.86	4,479.30	12.42	96.49	80.417	-350.46	-1,554.33	1,540.32	1,435.40	14.681
4,600.00	4,589.05	4,580.14	4,579.55	12.77	98.56	80.748	-350.98	-1,554.33	1,538.80	1,431.70	14.367
4,700.00	4,688.60	4,679.70	4,679.10	13.13	100.49	81.093	-351.04	-1,554.33	1,537.30	1,428.15	14.085
4,800.00	4,788.15	4,779.25	4,778.65	13.49	102.43	81.442	-351.04	-1,554.33	1,535.85	1,424.64	13.811
4,900.00	4,887.70	4,878.67	4,878.07	13.85	104.37	81.818	-350.33	-1,554.33	1,534.42	1,421.15	13.547
5,000.00	4,987.24	4,978.02	4,977.41	14.21	106.32	82.157	-350.61	-1,554.33	1,533.10	1,417.78	13.294
5,100.00	5,086.79	5,077.92	5,077.29	14.58	108.29	82.492	-351.04	-1,554.33	1,531.85	1,414.44	13.047
5,200.00	5,186.34	5,177.46	5,176.84	14.95	110.34	82.843	-351.04	-1,554.33	1,530.63	1,411.06	12.801
5,300.00	5,285.88	5,277.01	5,276.38	15.31	112.39	83.195	-351.04	-1,554.33	1,529.47	1,407.73	12.564
5,400.00	5,385.43	5,376.51	5,375.88	15.68	114.44	83.566	-350.54	-1,554.33	1,528.35	1,404.45	12.336
5,500.00	5,484.98	5,476.02	5,475.39	16.05	116.49	83.911	-350.74	-1,554.33	1,527.32	1,401.25	12.116
5,600.00	5,584.53	5,575.70	5,575.03	16.43	118.58	84.253	-351.04	-1,554.33	1,526.34	1,398.08	11.901
5,700.00	5,684.07	5,675.25	5,674.57	16.80	120.79	84.607	-351.04	-1,554.33	1,525.41	1,394.83	11.682
5,800.00	5,783.62	5,774.79	5,774.12	17.17	123.00	84.961	-351.04	-1,554.33	1,524.54	1,391.64	11.471
5,900.00	5,883.17	5,874.38	5,873.69	17.55	125.21	85.346	-350.22	-1,554.33	1,523.74	1,388.51	11.268
6,000.00	5,982.72	5,974.04	5,973.35	17.92	127.42	85.681	-350.77	-1,554.33	1,522.99	1,385.43	11.072
6,100.00	6,082.26	6,073.52	6,072.76	18.30	129.59	86.025	-351.04	-1,554.33	1,522.29	1,382.46	10.886
6,200.00	6,181.81	6,173.07	6,172.31	18.68	131.74	86.380	-351.04	-1,554.33	1,521.66	1,379.56	10.708
6,300.00	6,281.36	6,272.68	6,271.91	19.06	133.89	86.783	-349.78	-1,554.33	1,521.12	1,376.76	10.537
6,400.00	6,380.91	6,372.52	6,371.74	19.43	136.05	87.127	-350.15	-1,554.33	1,520.60	1,373.97	10.370
6,500.00	6,480.45	6,472.46	6,471.67	19.81	138.21	87.453	-350.98	-1,554.33	1,520.12	1,371.21	10.208
6,600.00	6,580.00	6,571.33	6,570.50	20.20	140.27	87.804	-351.04	-1,554.33	1,519.72	1,368.63	10.058
6,700.00	6,679.55	6,670.88	6,670.05	20.58	142.34	88.161	-351.04	-1,554.33	1,519.39	1,366.11	9.913
6,800.00	6,779.09	6,770.58	6,769.74	20.96	144.42	88.545	-350.32	-1,554.33	1,519.15	1,363.68	9.771
6,900.00	6,878.64	6,870.43	6,869.59	21.34	146.50	88.892	-350.62	-1,554.33	1,518.92	1,361.25	9.634
7,000.00	6,978.19	6,969.58	6,968.69	21.72	148.56	89.231	-351.04	-1,554.33	1,518.73	1,358.89	9.501
7,100.00	7,077.74	7,069.12	7,068.24	22.11	150.63	89.588	-351.04	-1,554.33	1,518.64	1,356.59	9.372
7,153.19	7,130.68	7,122.07	7,121.18	22.31	151.73	89.778	-351.04	-1,554.33	1,518.61	1,355.40	9.305 CC
7,200.00	7,177.28	7,168.97	7,168.08	22.49	152.71	89.973	-350.33	-1,554.33	1,518.66	1,354.41	9.246
7,300.00	7,276.87	7,269.29	7,268.39	22.85	154.80	90.298	-350.81	-1,554.33	1,518.64	1,352.22	9.126
7,329.70	7,306.49	7,299.15	7,298.25	22.96	155.42	90.371	-351.05	-1,554.33	1,518.63	1,351.56	9.090
7,400.00	7,376.68	7,368.12	7,367.18	23.22	157.14	90.515	-351.04	-1,554.33	1,518.66	1,349.79	8.993
7,500.00	7,476.64	7,468.08	7,467.14	23.51	159.62	90.612	-351.04	-1,554.33	1,518.68	1,347.24	8.858
7,600.00	7,576.64	7,568.21	7,567.26	23.55	162.10	-84.436	-349.98	-1,554.33	1,518.79	1,344.83	8.731
7,700.00	7,676.64	7,668.75	7,667.80	23.57	164.59	-84.446	-350.24	-1,554.33	1,518.76	1,342.27	8.605
7,800.00	7,776.64	7,769.30	7,768.34	23.60	167.09	-84.470	-350.86	-1,554.33	1,518.70	1,339.68	8.483
7,801.41	7,778.05	7,770.72	7,769.75	23.60	167.12	-174.302	-350.87	-1,554.33	1,518.70	1,339.65	8.482
7,900.00	7,876.63	7,868.24	7,867.13	23.62	169.95	-174.303	-351.04	-1,554.33	1,519.55	1,337.63	8.353 ES
8,000.00	7,975.49	7,969.40	7,968.25	23.60	172.99	-174.208	-350.84	-1,554.33	1,533.68	1,348.50	8.282 SF
8,100.00	8,070.39	8,062.19	8,060.89	23.59	175.80	-173.996	-351.04	-1,554.33	1,564.64	1,376.43	8.313
8,200.00	8,158.44	8,150.24	8,148.94	23.60	178.47	-173.603	-351.04	-1,554.33	1,611.56	1,420.47	8.433
8,300.00	8,236.97	8,229.73	8,228.35	23.65	180.88	-172.824	-348.56	-1,554.33	1,673.23	1,479.52	8.638
8,400.00	8,303.59	8,297.79	8,296.37	23.78	182.94	-171.708	-349.27	-1,554.33	1,747.27	1,551.33	8.917
8,500.00	8,356.28	8,351.63	8,350.18	24.04	184.58	-169.630	-350.27	-1,554.33	1,831.73	1,634.03	9.265
8,600.00	8,393.43	8,385.58	8,383.93	24.46	185.60	-164.836	-351.04	-1,554.33	1,924.07	1,725.25	9.677
8,700.00	8,413.92	8,406.08	8,404.42	25.04	186.13	-147.900	-351.04	-1,554.33	2,021.54	1,822.13	10.138

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W10) HULKSTER 003 - 39570 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program: 540-INC-ONLY													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	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	48.088	972.96	1,083.93	1,456.56					
100.00	100.00	97.50	97.50	0.79	3.44	48.088	972.96	1,083.93	1,456.55	1,452.32	4.23	344.345		
200.00	200.00	197.50	197.50	1.45	6.98	48.088	972.96	1,083.93	1,456.55	1,448.13	8.42	172.927		
300.00	300.00	297.50	297.50	1.89	10.51	48.088	972.96	1,083.93	1,456.55	1,444.15	12.40	117.453		
400.00	400.00	397.50	397.50	2.25	14.04	48.088	972.96	1,083.93	1,456.55	1,440.26	16.30	89.383		
500.00	500.00	497.50	497.50	2.57	17.57	48.088	972.96	1,083.93	1,456.55	1,436.41	20.14	72.313		
600.00	600.00	597.51	597.50	2.85	19.78	48.088	972.96	1,083.93	1,456.55	1,433.92	22.63	64.354		
700.00	700.00	698.16	698.16	3.11	21.02	48.079	973.25	1,083.93	1,456.75	1,432.62	24.13	60.367		
800.00	800.00	801.37	801.36	3.35	22.29	48.086	973.01	1,083.93	1,456.59	1,430.95	25.64	56.804		
847.87	847.87	845.38	845.37	3.46	24.12	48.088	972.96	1,083.93	1,456.55	1,428.98	27.58	52.815		
900.00	900.00	897.51	897.50	3.58	26.90	48.088	972.96	1,083.93	1,456.55	1,426.08	30.47	47.797		
1,000.00	1,000.00	997.51	997.50	3.79	32.23	48.088	972.96	1,083.93	1,456.55	1,420.54	36.02	40.442		
1,100.00	1,100.00	1,097.51	1,097.50	3.99	37.55	48.088	972.96	1,083.93	1,456.55	1,415.01	41.55	35.057		
1,200.00	1,200.00	1,197.51	1,197.50	4.19	42.88	48.088	972.96	1,083.93	1,456.55	1,409.48	47.07	30.943		
1,300.00	1,300.00	1,297.51	1,297.50	4.38	48.21	48.088	972.96	1,083.93	1,456.55	1,403.97	52.59	27.697		
1,400.00	1,400.00	1,397.69	1,397.68	4.56	53.55	48.071	973.54	1,083.93	1,456.94	1,398.83	58.11	25.073		
1,500.00	1,500.00	1,498.09	1,498.08	4.74	58.89	48.072	973.50	1,083.93	1,456.92	1,393.28	63.63	22.895		
1,600.00	1,600.00	1,598.49	1,598.47	4.91	64.24	48.074	973.42	1,083.93	1,456.86	1,387.71	69.15	21.067		
1,700.00	1,700.00	1,698.89	1,698.87	5.08	69.59	48.078	973.30	1,083.93	1,456.78	1,382.11	74.67	19.509		
1,800.00	1,800.00	1,799.28	1,799.27	5.24	74.94	48.083	973.14	1,083.93	1,456.68	1,376.49	80.18	18.167		
1,900.00	1,900.00	1,897.58	1,897.50	5.40	79.87	48.088	972.96	1,083.93	1,456.55	1,371.28	85.27	17.081		
2,000.00	2,000.00	1,997.58	1,997.50	5.56	81.17	48.088	972.96	1,083.93	1,456.55	1,369.83	86.73	16.795 CC		
2,100.00	2,099.98	2,097.56	2,097.48	5.78	82.46	-136.849	972.96	1,083.93	1,457.83	1,369.63	88.20	16.529		
2,200.00	2,199.84	2,199.30	2,199.20	5.98	83.78	-136.971	974.02	1,083.93	1,462.36	1,372.68	89.68	16.307		
2,300.00	2,299.46	2,302.47	2,302.37	6.09	85.12	-137.139	973.64	1,083.93	1,468.41	1,377.31	91.09	16.120		
2,400.00	2,399.01	2,405.64	2,405.52	6.26	86.45	-137.377	972.89	1,083.93	1,474.91	1,382.34	92.57	15.933		
2,500.00	2,498.56	2,496.22	2,496.06	6.45	87.78	-137.605	972.96	1,083.93	1,481.95	1,387.90	94.05	15.757		
2,600.00	2,598.11	2,595.77	2,595.61	6.65	89.22	-137.851	972.96	1,083.93	1,489.00	1,393.35	95.65	15.567		
2,700.00	2,697.65	2,696.93	2,696.76	6.87	90.69	-138.129	974.03	1,083.93	1,496.81	1,399.52	97.29	15.385		
2,800.00	2,797.20	2,800.20	2,800.02	7.10	92.19	-138.369	973.69	1,083.93	1,503.68	1,404.71	98.97	15.193		
2,900.00	2,896.75	2,903.55	2,903.36	7.35	93.68	-138.598	972.97	1,083.93	1,510.34	1,409.67	100.66	15.004		
3,000.00	2,996.30	2,994.04	2,993.80	7.61	94.91	-138.813	972.96	1,083.93	1,517.46	1,415.36	102.09	14.864		
3,100.00	3,095.84	3,096.76	3,096.51	7.89	96.29	-139.070	973.51	1,083.93	1,525.02	1,421.33	103.69	14.707		
3,200.00	3,195.39	3,193.17	3,192.89	8.17	97.60	-139.280	972.96	1,083.93	1,531.84	1,426.63	105.22	14.559		
3,300.00	3,294.94	3,292.72	3,292.44	8.46	99.01	-139.510	972.96	1,083.93	1,539.07	1,432.21	106.86	14.403		
3,400.00	3,394.49	3,396.98	3,396.69	8.76	100.49	-139.761	973.42	1,083.93	1,546.65	1,438.08	108.58	14.245		
3,500.00	3,494.03	3,491.86	3,491.53	9.07	101.86	-139.965	972.96	1,083.93	1,553.60	1,443.42	110.19	14.100		
3,600.00	3,593.58	3,591.40	3,591.08	9.38	103.37	-140.189	972.96	1,083.93	1,560.91	1,448.97	111.94	13.944		
3,700.00	3,693.13	3,695.23	3,694.89	9.70	104.93	-140.434	973.52	1,083.93	1,568.64	1,454.87	113.76	13.788		
3,800.00	3,792.67	3,790.55	3,790.17	10.03	106.38	-140.630	972.96	1,083.93	1,575.58	1,460.11	115.47	13.644		
3,900.00	3,892.22	3,890.10	3,889.72	10.36	108.08	-140.848	972.96	1,083.93	1,582.95	1,465.52	117.44	13.479		
4,000.00	3,991.77	3,991.45	3,991.07	10.69	109.81	-141.086	973.70	1,083.93	1,590.88	1,471.45	119.44	13.320		
4,100.00	4,091.32	4,097.15	4,096.76	11.03	111.61	-141.302	973.25	1,083.93	1,598.00	1,476.48	121.52	13.151		
4,200.00	4,190.86	4,188.82	4,188.36	11.37	113.19	-141.490	972.96	1,083.93	1,605.20	1,481.83	123.38	13.011		
4,300.00	4,290.41	4,289.70	4,289.23	11.72	114.95	-141.725	973.89	1,083.93	1,613.34	1,487.92	125.42	12.864		
4,400.00	4,389.96	4,401.51	4,401.03	12.07	116.90	-141.941	973.19	1,083.93	1,620.37	1,492.72	127.65	12.693		
4,500.00	4,489.51	4,487.53	4,487.01	12.42	118.35	-142.114	972.96	1,083.93	1,627.65	1,498.25	129.40	12.579		
4,600.00	4,589.05	4,588.68	4,588.15	12.77	120.04	-142.336	973.59	1,083.93	1,635.64	1,504.24	131.39	12.449		
4,700.00	4,688.60	4,696.04	4,695.50	13.13	121.84	-142.542	973.10	1,083.93	1,642.85	1,509.36	133.49	12.307		
4,800.00	4,788.15	4,786.22	4,785.65	13.49	123.38	-142.720	972.96	1,083.93	1,650.28	1,514.95	135.33	12.194		
4,900.00	4,887.70	4,888.15	4,887.57	13.85	125.13	-142.938	973.56	1,083.93	1,658.32	1,520.93	137.38	12.071		
5,000.00	4,987.24	4,995.90	4,995.31	14.21	126.97	-143.137	973.00	1,083.93	1,665.53	1,525.99	139.54	11.936		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W10) HULKSTER 003 - 39570 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program: 540-INC-ONLY													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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,086.79	5,084.90	5,084.29	14.58	128.52	-143.311	972.96	1,083.93	1,673.10	1,531.70	141.40	11.832		
5,200.00	5,186.34	5,188.62	5,187.99	14.95	130.33	-143.524	973.47	1,083.93	1,681.13	1,537.61	143.52	11.713		
5,300.00	5,285.88	5,284.04	5,283.38	15.31	132.00	-143.696	972.96	1,083.93	1,688.40	1,542.90	145.51	11.604		
5,400.00	5,385.43	5,383.59	5,382.93	15.68	133.78	-143.886	972.96	1,083.93	1,696.08	1,548.48	147.61	11.491		
5,500.00	5,484.98	5,487.03	5,486.36	16.05	135.63	-144.094	973.57	1,083.93	1,704.25	1,554.47	149.78	11.378		
5,600.00	5,584.53	5,594.32	5,593.64	16.43	137.55	-144.281	972.93	1,083.93	1,711.52	1,559.49	152.03	11.258		
5,700.00	5,684.07	5,682.28	5,681.57	16.80	139.14	-144.445	972.96	1,083.93	1,719.24	1,565.30	153.94	11.168		
5,800.00	5,783.62	5,786.03	5,785.32	17.17	141.02	-144.647	973.50	1,083.93	1,727.41	1,571.26	156.15	11.063		
5,900.00	5,883.17	5,881.42	5,880.67	17.55	142.74	-144.809	972.96	1,083.93	1,734.76	1,576.56	158.20	10.966		
6,000.00	5,982.72	5,980.96	5,980.22	17.92	144.57	-144.989	972.96	1,083.93	1,742.55	1,582.19	160.35	10.867		
6,100.00	6,082.26	6,085.95	6,085.20	18.30	146.49	-145.187	973.45	1,083.93	1,750.74	1,588.12	162.61	10.766		
6,200.00	6,181.81	6,180.10	6,179.31	18.68	148.22	-145.344	972.96	1,083.93	1,758.17	1,593.50	164.67	10.677		
6,300.00	6,281.36	6,279.65	6,278.86	19.06	150.07	-145.519	972.96	1,083.93	1,766.01	1,599.15	166.86	10.584		
6,400.00	6,380.91	6,385.31	6,384.51	19.43	152.03	-145.713	973.44	1,083.93	1,774.25	1,605.08	169.17	10.488		
6,500.00	6,480.45	6,478.79	6,477.95	19.81	153.77	-145.865	972.96	1,083.93	1,781.73	1,610.49	171.24	10.405		
6,600.00	6,580.00	6,578.34	6,577.50	20.20	155.63	-146.035	972.96	1,083.93	1,789.62	1,616.17	173.45	10.318		
6,700.00	6,679.55	6,685.19	6,684.35	20.58	157.63	-146.224	973.36	1,083.93	1,797.85	1,622.05	175.80	10.227		
6,800.00	6,779.09	6,777.47	6,776.59	20.96	159.36	-146.372	972.96	1,083.93	1,805.44	1,627.57	177.87	10.150		
6,900.00	6,878.64	6,878.33	6,877.44	21.34	161.26	-146.550	973.49	1,083.93	1,813.79	1,633.67	180.12	10.070		
7,000.00	6,978.19	6,989.24	6,988.35	21.72	163.35	-146.723	972.95	1,083.93	1,821.35	1,638.80	182.55	9.977		
7,100.00	7,077.74	7,076.15	7,075.24	22.11	165.01	-146.866	972.96	1,083.93	1,829.28	1,644.72	184.56	9.912		
7,200.00	7,177.28	7,178.35	7,177.43	22.49	166.97	-147.044	973.62	1,083.93	1,837.78	1,650.91	186.87	9.834		
7,300.00	7,276.87	7,286.76	7,285.83	22.85	169.04	-147.237	973.09	1,083.93	1,845.03	1,655.76	189.28	9.748		
7,400.00	7,376.68	7,375.15	7,374.18	23.22	170.74	-147.376	972.96	1,083.93	1,849.98	1,658.69	191.30	9.671		
7,500.00	7,476.64	7,477.35	7,476.38	23.51	172.71	-147.454	973.59	1,083.93	1,852.64	1,659.11	193.53	9.573		
7,600.00	7,576.64	7,586.84	7,585.86	23.55	174.82	37.461	973.07	1,083.93	1,852.35	1,656.67	195.67	9.467		
7,624.84	7,601.49	7,614.04	7,613.06	23.56	175.34	37.466	972.83	1,083.93	1,852.17	1,655.97	196.20	9.440		
7,700.00	7,676.64	7,675.15	7,674.14	23.57	176.68	37.463	972.96	1,083.93	1,852.22	1,654.67	197.55	9.376		
7,800.00	7,776.64	7,784.70	7,783.68	23.60	179.03	37.459	973.17	1,083.93	1,852.41	1,652.48	199.93	9.265		
7,900.00	7,876.63	7,875.20	7,874.13	23.62	180.98	-52.433	972.96	1,083.93	1,851.69	1,649.81	201.88	9.172		
8,000.00	7,975.49	7,980.26	7,979.16	23.60	183.26	-53.524	973.89	1,083.93	1,843.83	1,639.77	204.06	9.036		
8,100.00	8,070.39	8,094.71	8,093.59	23.59	185.74	-56.054	972.65	1,083.93	1,824.33	1,617.86	206.47	8.836		
8,200.00	8,158.44	8,157.09	8,155.94	23.60	186.92	-59.368	972.96	1,083.93	1,796.77	1,589.12	207.65	8.653		
8,300.00	8,236.97	8,237.84	8,236.68	23.65	188.50	-64.170	973.54	1,083.93	1,762.34	1,552.99	209.35	8.418		
8,400.00	8,303.59	8,311.31	8,310.14	23.78	189.93	-70.026	973.26	1,083.93	1,722.04	1,510.97	211.07	8.159		
8,500.00	8,356.28	8,354.97	8,353.78	24.04	190.78	-75.890	972.96	1,083.93	1,678.89	1,466.51	212.38	7.905		
8,600.00	8,393.43	8,392.12	8,390.93	24.46	191.46	-81.863	972.96	1,083.93	1,635.80	1,422.04	213.76	7.652		
8,700.00	8,413.92	8,412.62	8,411.42	25.04	191.83	-87.090	972.96	1,083.93	1,594.95	1,379.87	215.08	7.415		
8,800.00	8,418.00	8,416.69	8,415.50	25.79	191.90	-90.000	972.96	1,083.93	1,558.46	1,342.16	216.30	7.205		
8,900.00	8,418.00	8,416.69	8,415.50	26.68	191.90	-90.000	972.96	1,083.93	1,527.59	1,310.01	217.58	7.021		
9,000.00	8,418.00	8,416.69	8,415.50	27.70	191.90	-90.000	972.96	1,083.93	1,502.75	1,283.80	218.95	6.863		
9,100.00	8,418.00	8,416.69	8,415.50	28.83	191.90	-90.000	972.96	1,083.93	1,484.25	1,263.86	220.38	6.735		
9,200.00	8,418.00	8,416.69	8,415.50	30.06	191.90	-90.000	972.96	1,083.93	1,472.32	1,250.48	221.84	6.637		
9,300.00	8,418.00	8,416.69	8,415.50	31.38	191.90	-90.000	972.96	1,083.93	1,467.12	1,243.85	223.27	6.571		
9,326.36	8,418.00	8,416.69	8,415.50	31.75	191.90	-90.000	972.96	1,083.93	1,466.89	1,243.23	223.65	6.559 ES		
9,400.00	8,418.00	8,416.69	8,415.50	32.78	191.90	-90.000	972.96	1,083.93	1,468.73	1,244.07	224.66	6.538		
9,500.00	8,418.00	8,416.69	8,415.50	34.25	191.90	-90.000	972.96	1,083.93	1,477.13	1,251.15	225.97	6.537 SF		
9,600.00	8,418.00	8,416.69	8,415.50	35.78	191.90	-90.000	972.96	1,083.93	1,492.19	1,265.01	227.18	6.568		
9,700.00	8,418.00	8,416.69	8,415.50	37.36	191.90	-90.000	972.96	1,083.93	1,513.72	1,285.45	228.27	6.631		
9,800.00	8,418.00	8,416.69	8,415.50	38.98	191.90	-90.000	972.96	1,083.93	1,541.46	1,312.22	229.23	6.724		
9,900.00	8,418.00	8,416.69	8,415.50	40.65	191.90	-90.000	972.96	1,083.93	1,575.06	1,344.99	230.07	6.846		
10,000.00	8,418.00	8,416.69	8,415.50	42.35	191.90	-90.000	972.96	1,083.93	1,614.17	1,383.40	230.77	6.995		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W10) HULKSTER 003 - 39570 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 540-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.00	8,418.00	8,416.69	8,415.50	44.08	191.90	-90.000	972.96	1,083.93	1,658.39	1,427.04	231.35	7.168	
10,200.00	8,418.00	8,416.69	8,415.50	45.84	191.90	-90.000	972.96	1,083.93	1,707.34	1,475.51	231.83	7.365	
10,300.00	8,418.00	8,416.69	8,415.50	47.63	191.90	-90.000	972.96	1,083.93	1,760.61	1,528.41	232.20	7.582	
10,400.00	8,418.00	8,416.69	8,415.50	49.44	191.90	-90.000	972.96	1,083.93	1,817.82	1,585.33	232.48	7.819	
10,500.00	8,418.00	8,416.69	8,415.50	51.27	191.90	-90.000	972.96	1,083.93	1,878.61	1,645.92	232.69	8.073	
10,600.00	8,418.00	8,416.69	8,415.50	53.11	191.90	-90.000	972.96	1,083.93	1,942.66	1,709.82	232.84	8.343	
10,700.00	8,418.00	8,416.69	8,415.50	54.97	191.90	-90.000	972.96	1,083.93	2,009.64	1,776.71	232.93	8.628	



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W11) HULKSTER 004 - 39571 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program:		275-INC-ONLY						Rule Assigned:					Offset Well Error:	0.00 usft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
9,200.00	8,418.00	8,426.91	8,424.50	30.06	198.89	-90.000	975.42	2,402.56	2,058.07	1,836.14	221.94	9.273		
9,300.00	8,418.00	8,426.91	8,424.50	31.38	198.89	-90.000	975.42	2,402.56	1,989.14	1,765.68	223.46	8.902		
9,400.00	8,418.00	8,426.91	8,424.50	32.78	198.89	-90.000	975.42	2,402.56	1,922.93	1,697.80	225.13	8.541		
9,500.00	8,418.00	8,426.91	8,424.50	34.25	198.89	-90.000	975.42	2,402.56	1,859.75	1,632.79	226.97	8.194		
9,600.00	8,418.00	8,426.91	8,424.50	35.78	198.89	-90.000	975.42	2,402.56	1,799.91	1,570.97	228.94	7.862		
9,700.00	8,418.00	8,426.91	8,424.50	37.36	198.89	-90.000	975.42	2,402.56	1,743.75	1,512.69	231.06	7.547		
9,800.00	8,418.00	8,426.91	8,424.50	38.98	198.89	-90.000	975.42	2,402.56	1,691.65	1,458.35	233.30	7.251		
9,900.00	8,418.00	8,426.91	8,424.50	40.65	198.89	-90.000	975.42	2,402.56	1,643.98	1,408.35	235.64	6.977		
10,000.00	8,418.00	8,426.91	8,424.50	42.35	198.89	-90.000	975.42	2,402.56	1,601.15	1,363.10	238.05	6.726		
10,100.00	8,418.00	8,426.91	8,424.50	44.08	198.89	-90.000	975.42	2,402.56	1,563.55	1,323.04	240.51	6.501		
10,200.00	8,418.00	8,426.91	8,424.50	45.84	198.89	-90.000	975.42	2,402.56	1,531.56	1,288.59	242.97	6.303		
10,300.00	8,418.00	8,426.91	8,424.50	47.63	198.89	-90.000	975.42	2,402.56	1,505.55	1,260.16	245.40	6.135		
10,400.00	8,418.00	8,426.91	8,424.50	49.44	198.89	-90.000	975.42	2,402.56	1,485.83	1,238.09	247.74	5.998		
10,500.00	8,418.00	8,426.91	8,424.50	51.27	198.89	-90.000	975.42	2,402.56	1,472.65	1,222.70	249.95	5.892		
10,600.00	8,418.00	8,426.91	8,424.50	53.11	198.89	-90.000	975.42	2,402.56	1,466.18	1,214.19	251.99	5.818		
10,644.99	8,418.00	8,426.91	8,424.50	53.95	198.89	-90.000	975.42	2,402.56	1,465.49	1,212.65	252.84	5.796	CC, ES	
10,700.00	8,418.00	8,426.91	8,424.50	54.97	198.89	-90.000	975.42	2,402.56	1,466.52	1,212.71	253.82	5.778		
10,800.00	8,418.00	8,426.91	8,424.50	56.85	198.89	-90.000	975.42	2,402.56	1,473.67	1,218.25	255.41	5.770	SF	
10,900.00	8,418.00	8,426.91	8,424.50	58.74	198.89	-90.000	975.42	2,402.56	1,487.51	1,230.76	256.75	5.794		
11,000.00	8,418.00	8,426.91	8,424.50	60.64	198.89	-90.000	975.42	2,402.56	1,507.88	1,250.04	257.84	5.848		
11,100.00	8,418.00	8,426.91	8,424.50	62.55	198.89	-90.000	975.42	2,402.56	1,534.50	1,275.84	258.67	5.932		
11,200.00	8,418.00	8,426.91	8,424.50	64.47	198.89	-90.000	975.42	2,402.56	1,567.07	1,307.81	259.26	6.044		
11,300.00	8,418.00	8,426.91	8,424.50	66.40	198.89	-90.000	975.42	2,402.56	1,605.21	1,345.58	259.63	6.183		
11,400.00	8,418.00	8,426.91	8,424.50	68.34	198.89	-90.000	975.42	2,402.56	1,648.55	1,388.74	259.80	6.345		
11,500.00	8,418.00	8,426.91	8,424.50	70.29	198.89	-90.000	975.42	2,402.56	1,696.67	1,436.86	259.81	6.530		
11,600.00	8,418.00	8,426.91	8,424.50	72.24	198.89	-90.000	975.42	2,402.56	1,749.20	1,489.52	259.68	6.736		
11,700.00	8,418.00	8,426.91	8,424.50	74.20	198.89	-90.000	975.42	2,402.56	1,805.74	1,546.31	259.43	6.960		
11,800.00	8,418.00	8,426.91	8,424.50	76.17	198.89	-90.000	975.42	2,402.56	1,865.93	1,606.84	259.09	7.202		
11,900.00	8,418.00	8,426.91	8,424.50	78.14	198.89	-90.000	975.42	2,402.56	1,929.43	1,670.75	258.68	7.459		
12,000.00	8,418.00	8,426.91	8,424.50	80.11	198.89	-90.000	975.42	2,402.56	1,995.92	1,737.71	258.21	7.730		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W12) HULKSTER 005 - 39572 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 235-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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	
8,600.00	8,393.43	8,391.02	8,390.05	24.46	179.73	-13.841	-344.13	2,411.88	2,053.23	1,860.53	192.71	10.655	
8,700.00	8,413.92	8,411.62	8,410.65	25.04	180.21	-32.246	-344.29	2,411.88	1,955.73	1,762.49	193.24	10.121	
8,800.00	8,418.00	8,415.72	8,414.75	25.79	180.30	-90.490	-344.32	2,411.88	1,856.19	1,662.81	193.38	9.599	
8,900.00	8,418.00	8,415.71	8,414.75	26.68	180.30	-90.490	-344.32	2,411.88	1,756.51	1,563.08	193.43	9.081	
9,000.00	8,418.00	8,415.71	8,414.74	27.70	180.30	-90.489	-344.32	2,411.88	1,656.88	1,463.39	193.49	8.563	
9,100.00	8,418.00	8,415.71	8,414.74	28.83	180.30	-90.488	-344.32	2,411.88	1,557.29	1,363.73	193.56	8.046	
9,200.00	8,418.00	8,415.71	8,414.74	30.06	180.30	-90.487	-344.32	2,411.88	1,457.76	1,264.11	193.65	7.528	
9,300.00	8,418.00	8,415.70	8,414.74	31.38	180.30	-90.486	-344.32	2,411.88	1,358.30	1,164.54	193.76	7.010	
9,400.00	8,418.00	8,415.70	8,414.73	32.78	180.30	-90.485	-344.32	2,411.88	1,258.92	1,065.03	193.89	6.493	
9,500.00	8,418.00	8,415.70	8,414.73	34.25	180.30	-90.484	-344.32	2,411.88	1,159.65	965.58	194.07	5.975	
9,600.00	8,418.00	8,415.70	8,414.73	35.78	180.30	-90.483	-344.32	2,411.88	1,060.52	866.22	194.29	5.458	
9,700.00	8,418.00	8,415.70	8,414.73	37.36	180.30	-90.482	-344.32	2,411.88	961.56	766.97	194.59	4.941	
9,800.00	8,418.00	8,415.69	8,414.72	38.98	180.30	-90.481	-344.32	2,411.88	862.85	667.85	195.00	4.425	
9,900.00	8,418.00	8,415.69	8,414.72	40.65	180.30	-90.480	-344.32	2,411.88	764.48	568.91	195.57	3.909	
10,000.00	8,418.00	8,415.69	8,414.72	42.35	180.30	-90.479	-344.32	2,411.88	666.58	470.20	196.38	3.394	
10,100.00	8,418.00	8,415.69	8,414.72	44.08	180.30	-90.478	-344.32	2,411.88	569.42	371.82	197.60	2.882	
10,200.00	8,418.00	8,415.68	8,414.71	45.84	180.30	-90.477	-344.32	2,411.88	473.44	273.95	199.50	2.373	
10,300.00	8,418.00	8,415.68	8,414.71	47.63	180.30	-90.477	-344.32	2,411.88	379.55	176.94	202.61	1.873	Level 3
10,400.00	8,418.00	8,415.68	8,414.71	49.44	180.30	-90.476	-344.32	2,411.88	289.77	81.78	207.99	1.393	Level 3
10,500.00	8,418.00	8,415.68	8,414.71	51.27	180.30	-90.475	-344.32	2,411.88	209.46	-8.02	217.49	0.963	Level 3
10,600.00	8,418.00	8,415.67	8,414.71	53.11	180.30	-90.474	-344.32	2,411.88	154.22	-76.60	230.82	0.668	Level 3
10,650.46	8,418.00	8,415.67	8,414.70	54.05	180.30	-90.473	-344.32	2,411.88	145.73	-88.67	234.40	0.622	Level 3, CC, ES, SF
10,700.00	8,418.00	8,415.67	8,414.70	54.97	180.30	-90.473	-344.32	2,411.88	153.92	-78.57	232.49	0.662	Level 3
10,800.00	8,418.00	8,415.67	8,414.70	56.85	180.30	-90.472	-344.32	2,411.88	208.81	-12.21	221.02	0.945	Level 3
10,900.00	8,418.00	8,415.67	8,414.70	58.74	180.30	-90.471	-344.32	2,411.88	288.98	76.97	212.02	1.363	Level 3
11,000.00	8,418.00	8,415.66	8,414.70	60.64	180.30	-90.470	-344.32	2,411.88	378.71	172.03	206.68	1.832	Level 3
11,100.00	8,418.00	8,415.66	8,414.69	62.55	180.30	-90.469	-344.32	2,411.88	472.58	269.11	203.46	2.323	
11,200.00	8,418.00	8,415.66	8,414.69	64.47	180.30	-90.468	-344.32	2,411.88	568.54	367.12	201.42	2.823	
11,300.00	8,418.00	8,415.66	8,414.69	66.40	180.30	-90.467	-344.32	2,411.88	665.69	465.64	200.06	3.328	
11,400.00	8,418.00	8,415.65	8,414.69	68.34	180.30	-90.466	-344.32	2,411.88	763.58	564.47	199.11	3.835	
11,500.00	8,418.00	8,415.65	8,414.68	70.29	180.30	-90.465	-344.32	2,411.88	861.95	663.52	198.44	4.344	
11,600.00	8,418.00	8,415.65	8,414.68	72.24	180.30	-90.464	-344.32	2,411.88	960.66	762.72	197.94	4.853	
11,700.00	8,418.00	8,415.65	8,414.68	74.20	180.30	-90.464	-344.32	2,411.88	1,059.61	862.03	197.58	5.363	
11,800.00	8,418.00	8,415.65	8,414.68	76.17	180.30	-90.463	-344.32	2,411.88	1,158.74	961.44	197.31	5.873	
11,900.00	8,418.00	8,415.64	8,414.67	78.14	180.30	-90.462	-344.32	2,411.88	1,258.01	1,060.91	197.10	6.383	
12,000.00	8,418.00	8,415.64	8,414.67	80.11	180.30	-90.461	-344.32	2,411.88	1,357.39	1,160.44	196.95	6.892	
12,100.00	8,418.00	8,415.64	8,414.67	82.09	180.30	-90.460	-344.32	2,411.88	1,456.85	1,260.02	196.83	7.401	
12,200.00	8,418.00	8,415.64	8,414.67	84.08	180.30	-90.459	-344.32	2,411.88	1,556.38	1,359.63	196.75	7.910	
12,300.00	8,418.00	8,415.63	8,414.67	86.07	180.30	-90.458	-344.32	2,411.88	1,655.97	1,459.27	196.70	8.419	
12,400.00	8,418.00	8,415.63	8,414.66	88.06	180.30	-90.457	-344.32	2,411.88	1,755.60	1,558.94	196.66	8.927	
12,500.00	8,418.00	8,415.63	8,414.66	90.05	180.30	-90.456	-344.32	2,411.88	1,855.28	1,658.63	196.64	9.435	
12,600.00	8,418.00	8,415.63	8,414.66	92.05	180.30	-90.455	-344.32	2,411.88	1,954.98	1,758.34	196.64	9.942	
12,700.00	8,418.00	8,415.62	8,414.66	94.06	180.30	-90.454	-344.32	2,411.88	2,054.72	1,858.07	196.65	10.449	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W14) KEEL A FEDERAL 003 - 33340 - (Inc Only)													Offset Site Error:	0.00 usft
Survey Program:		218-INC-ONLY					Rule Assigned:				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	Warning	
12,400.00	8,418.00	8,411.19	8,409.50	88.06	188.60	90.000	-534.36	6,158.29	1,997.05	1,793.40	203.66	9.806		
12,500.00	8,418.00	8,411.19	8,409.50	90.05	188.60	90.000	-534.36	6,158.29	1,897.09	1,693.33	203.76	9.310		
12,600.00	8,418.00	8,411.19	8,409.50	92.05	188.60	90.000	-534.36	6,158.29	1,797.14	1,593.26	203.87	8.815		
12,700.00	8,418.00	8,411.19	8,409.50	94.06	188.60	90.000	-534.36	6,158.29	1,697.19	1,493.19	203.99	8.320		
12,800.00	8,418.00	8,411.19	8,409.50	96.06	188.60	90.000	-534.36	6,158.29	1,597.24	1,393.12	204.12	7.825		
12,900.00	8,418.00	8,411.19	8,409.50	98.07	188.60	90.000	-534.36	6,158.29	1,497.31	1,293.04	204.26	7.330		
13,000.00	8,418.00	8,411.19	8,409.50	100.08	188.60	90.000	-534.36	6,158.29	1,397.38	1,192.96	204.42	6.836		
13,100.00	8,418.00	8,411.19	8,409.50	102.09	188.60	90.000	-534.36	6,158.29	1,297.46	1,092.87	204.59	6.342		
13,200.00	8,418.00	8,411.19	8,409.50	104.11	188.60	90.000	-534.36	6,158.29	1,197.56	992.77	204.79	5.848		
13,300.00	8,418.00	8,411.19	8,409.50	106.12	188.60	90.000	-534.36	6,158.29	1,097.68	892.65	205.03	5.354		
13,400.00	8,418.00	8,411.19	8,409.50	108.14	188.60	90.000	-534.36	6,158.29	997.82	792.51	205.31	4.860		
13,500.00	8,418.00	8,411.19	8,409.50	110.16	188.60	90.000	-534.36	6,158.29	897.99	692.32	205.67	4.366		
13,600.00	8,418.00	8,411.19	8,409.50	112.19	188.60	90.000	-534.36	6,158.29	798.20	592.07	206.13	3.872		
13,700.00	8,418.00	8,411.19	8,409.50	114.21	188.60	90.000	-534.36	6,158.29	698.48	491.72	206.76	3.378		
13,800.00	8,418.00	8,411.19	8,409.50	116.24	188.60	90.000	-534.36	6,158.29	598.84	391.17	207.67	2.884		
13,900.00	8,418.00	8,411.19	8,409.50	118.26	188.60	90.000	-534.36	6,158.29	499.36	290.28	209.07	2.388		
14,000.00	8,418.00	8,411.19	8,409.50	120.29	188.60	90.000	-534.36	6,158.29	400.12	188.70	211.42	1.893	Level 3	
14,100.00	8,418.00	8,411.19	8,409.50	122.32	188.60	90.000	-534.36	6,158.29	301.40	85.59	215.80	1.397	Level 3	
14,200.00	8,418.00	8,411.19	8,409.50	124.35	188.60	90.000	-534.36	6,158.29	203.92	-21.44	225.36	0.905	Level 3	
14,300.00	8,418.00	8,411.19	8,409.50	126.39	188.60	90.000	-534.36	6,158.29	111.02	-141.60	252.62	0.439	Level 3	
14,396.29	8,418.00	8,411.19	8,409.50	128.35	188.60	90.000	-534.36	6,158.29	55.27	-261.67	316.94	0.174	Level 3, CC, ES, SF	
14,400.00	8,418.00	8,411.19	8,409.50	128.42	188.60	90.000	-534.36	6,158.29	55.39	-261.38	316.78	0.175	Level 3	
14,500.00	8,418.00	8,411.19	8,409.50	130.46	188.60	90.000	-534.36	6,158.29	117.52	-134.80	252.32	0.466	Level 3	
14,600.00	8,418.00	8,411.19	8,409.50	132.49	188.60	90.000	-534.36	6,158.29	211.08	-16.51	227.59	0.927	Level 3	
14,700.00	8,418.00	8,411.19	8,409.50	134.53	188.60	90.000	-534.36	6,158.29	308.70	90.13	218.57	1.412	Level 3	
14,800.00	8,418.00	8,411.19	8,409.50	136.57	188.60	90.000	-534.36	6,158.29	407.48	193.14	214.34	1.901	Level 3	
14,900.00	8,418.00	8,411.19	8,409.50	138.61	188.60	90.000	-534.36	6,158.29	506.74	294.70	212.04	2.390		
15,000.00	8,418.00	8,411.19	8,409.50	140.65	188.60	90.000	-534.36	6,158.29	606.24	395.56	210.67	2.878		
15,100.00	8,418.00	8,411.19	8,409.50	142.69	188.60	90.000	-534.36	6,158.29	705.88	496.06	209.82	3.364		
15,200.00	8,418.00	8,411.19	8,409.50	144.73	188.60	90.000	-534.36	6,158.29	805.61	596.35	209.26	3.850		
15,300.00	8,418.00	8,411.19	8,409.50	146.77	188.60	90.000	-534.36	6,158.29	905.40	696.51	208.89	4.334		
15,400.00	8,418.00	8,411.19	8,409.50	148.82	188.60	90.000	-534.36	6,158.29	1,005.23	796.59	208.65	4.818		
15,500.00	8,418.00	8,411.19	8,409.50	150.86	188.60	90.000	-534.36	6,158.29	1,105.10	896.61	208.49	5.301		
15,600.00	8,418.00	8,411.19	8,409.50	152.90	188.60	90.000	-534.36	6,158.29	1,204.98	996.60	208.38	5.782		
15,700.00	8,418.00	8,411.19	8,409.50	154.95	188.60	90.000	-534.36	6,158.29	1,304.88	1,096.56	208.33	6.264		
15,800.00	8,418.00	8,411.19	8,409.50	157.00	188.60	90.000	-534.36	6,158.29	1,404.80	1,196.49	208.31	6.744		
15,900.00	8,418.00	8,411.19	8,409.50	159.04	188.60	90.000	-534.36	6,158.29	1,504.73	1,296.42	208.31	7.224		
16,000.00	8,418.00	8,411.19	8,409.50	161.09	188.60	90.000	-534.36	6,158.29	1,604.67	1,396.33	208.33	7.702		
16,100.00	8,418.00	8,411.19	8,409.50	163.14	188.60	90.000	-534.36	6,158.29	1,704.61	1,496.24	208.37	8.181		
16,200.00	8,418.00	8,411.19	8,409.50	165.19	188.60	90.000	-534.36	6,158.29	1,804.56	1,596.14	208.42	8.658		
16,300.00	8,418.00	8,411.19	8,409.50	167.24	188.60	90.000	-534.36	6,158.29	1,904.52	1,696.03	208.48	9.135		
16,400.00	8,418.00	8,411.19	8,409.50	169.28	188.60	90.000	-534.36	6,158.29	2,004.48	1,795.92	208.55	9.611		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	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	146.615	-1,665.43	1,097.54	1,994.57					
100.00	100.00	91.50	91.50	0.79	1.89	146.615	-1,665.43	1,097.54	1,994.55	1,991.88	2.68	745.031		
200.00	200.00	191.50	191.50	1.45	3.96	146.615	-1,665.43	1,097.54	1,994.55	1,989.15	5.40	369.033		
300.00	300.00	291.51	291.50	1.89	5.93	146.615	-1,665.43	1,097.54	1,994.55	1,986.73	7.82	254.989		
339.20	339.20	330.59	330.58	2.03	6.68	146.609	-1,665.10	1,097.54	1,994.28	1,985.57	8.71	228.910		
400.00	400.00	385.45	385.43	2.25	7.73	146.611	-1,665.20	1,097.54	1,994.37	1,984.39	9.98	199.792		
500.00	500.00	491.52	491.50	2.57	10.28	146.615	-1,665.43	1,097.54	1,994.55	1,981.71	12.84	155.279		
600.00	600.00	591.52	591.50	2.85	13.03	146.615	-1,665.43	1,097.54	1,994.55	1,978.67	15.88	125.574		
683.33	683.33	674.74	674.72	3.07	15.33	146.606	-1,664.91	1,097.54	1,994.12	1,975.72	18.39	108.417		
700.00	700.00	690.92	690.90	3.11	15.77	146.606	-1,664.91	1,097.54	1,994.12	1,975.24	18.88	105.609		
800.00	800.00	788.00	787.97	3.35	18.45	146.608	-1,665.03	1,097.54	1,994.22	1,972.42	21.80	91.483		
900.00	900.00	885.08	885.05	3.58	21.13	146.613	-1,665.32	1,097.54	1,994.47	1,969.77	24.70	80.744		
1,000.00	1,000.00	991.53	991.50	3.79	23.58	146.615	-1,665.43	1,097.54	1,994.55	1,967.18	27.37	72.866		
1,100.00	1,100.00	1,091.53	1,091.50	3.99	25.74	146.615	-1,665.43	1,097.54	1,994.55	1,964.82	29.73	67.080		
1,172.85	1,172.85	1,164.33	1,164.30	4.14	27.31	146.610	-1,665.16	1,097.54	1,994.33	1,962.88	31.45	63.419		
1,200.00	1,200.00	1,191.08	1,191.05	4.19	27.89	146.610	-1,665.16	1,097.54	1,994.33	1,962.25	32.08	62.173		
1,300.00	1,300.00	1,289.64	1,289.61	4.38	30.01	146.612	-1,665.23	1,097.54	1,994.39	1,960.00	34.39	57.991		
1,400.00	1,400.00	1,388.20	1,388.17	4.56	32.14	146.614	-1,665.39	1,097.54	1,994.52	1,957.82	36.70	54.348		
1,500.00	1,500.00	1,491.53	1,491.50	4.74	34.28	146.615	-1,665.43	1,097.54	1,994.55	1,955.54	39.02	51.123		
1,600.00	1,600.00	1,591.53	1,591.50	4.91	36.32	146.615	-1,665.43	1,097.54	1,994.55	1,953.32	41.24	48.370		
1,666.00	1,666.00	1,657.53	1,657.50	5.02	37.68	146.610	-1,665.16	1,097.54	1,994.33	1,951.63	42.70	46.708		
1,700.00	1,700.00	1,691.04	1,691.01	5.08	38.36	146.610	-1,665.17	1,097.54	1,994.33	1,950.89	43.44	45.909		
1,800.00	1,800.00	1,789.60	1,789.57	5.24	40.38	146.612	-1,665.24	1,097.54	1,994.39	1,948.77	45.62	43.715		
1,900.00	1,900.00	1,888.16	1,888.13	5.40	42.40	146.614	-1,665.39	1,097.54	1,994.53	1,946.72	47.80	41.725		
2,000.00	2,000.00	1,991.55	1,991.50	5.56	44.59	146.615	-1,665.43	1,097.54	1,994.55	1,944.41	50.15	39.773		
2,100.00	2,099.98	2,091.53	2,091.48	5.78	46.72	-38.341	-1,665.43	1,097.54	1,993.19	1,940.72	52.47	37.990		
2,200.00	2,199.84	2,190.53	2,190.47	5.98	48.84	-38.498	-1,664.57	1,097.54	1,988.37	1,933.62	54.74	36.321		
2,300.00	2,299.46	2,286.25	2,286.18	6.09	50.88	-38.702	-1,664.74	1,097.54	1,981.79	1,924.92	56.87	34.847		
2,400.00	2,399.01	2,381.94	2,381.87	6.26	52.92	-38.861	-1,665.13	1,097.54	1,974.71	1,915.65	59.06	33.437		
2,500.00	2,498.56	2,490.16	2,490.06	6.45	55.15	-39.044	-1,665.43	1,097.54	1,967.54	1,906.09	61.44	32.022		
2,600.00	2,598.11	2,589.71	2,589.61	6.65	57.14	-39.219	-1,665.43	1,097.54	1,960.15	1,896.56	63.60	30.822		
2,700.00	2,697.65	2,688.22	2,688.12	6.87	59.11	-39.405	-1,664.68	1,097.54	1,952.16	1,886.42	65.74	29.696		
2,800.00	2,797.20	2,783.49	2,783.38	7.10	61.01	-39.572	-1,664.87	1,097.54	1,944.98	1,877.15	67.83	28.676		
2,900.00	2,896.75	2,878.81	2,878.70	7.35	62.91	-39.736	-1,665.31	1,097.54	1,938.03	1,868.11	69.92	27.716		
3,000.00	2,996.30	2,987.95	2,987.80	7.61	65.21	-39.931	-1,665.43	1,097.54	1,930.79	1,858.37	72.42	26.660		
3,100.00	3,095.84	3,087.50	3,087.34	7.89	67.33	-40.112	-1,665.43	1,097.54	1,923.50	1,848.75	74.75	25.733		
3,200.00	3,195.39	3,185.12	3,184.95	8.17	69.41	-40.310	-1,664.36	1,097.54	1,915.35	1,838.31	77.04	24.861		
3,300.00	3,294.94	3,279.60	3,279.43	8.46	71.42	-40.480	-1,664.63	1,097.54	1,908.33	1,829.06	79.27	24.073		
3,400.00	3,394.49	3,374.14	3,373.97	8.76	73.43	-40.646	-1,665.21	1,097.54	1,901.60	1,820.09	81.51	23.330		
3,500.00	3,494.03	3,485.76	3,485.53	9.07	75.85	-40.851	-1,665.43	1,097.54	1,894.53	1,810.37	84.16	22.512		
3,600.00	3,593.58	3,585.31	3,585.08	9.38	78.03	-41.040	-1,665.43	1,097.54	1,887.34	1,800.78	86.56	21.804		
3,700.00	3,693.13	3,683.13	3,682.89	9.70	80.16	-41.246	-1,664.36	1,097.54	1,879.30	1,790.37	88.93	21.133		
3,800.00	3,792.67	3,777.72	3,777.47	10.03	82.22	-41.423	-1,664.63	1,097.54	1,872.38	1,781.15	91.23	20.524		
3,900.00	3,892.22	3,872.38	3,872.12	10.36	84.29	-41.595	-1,665.20	1,097.54	1,865.74	1,772.20	93.53	19.947		
4,000.00	3,991.77	3,983.60	3,983.27	10.69	86.53	-41.808	-1,665.43	1,097.54	1,858.77	1,762.75	96.02	19.358		
4,100.00	4,091.32	4,082.23	4,081.90	11.03	88.47	-42.019	-1,664.49	1,097.54	1,850.94	1,752.74	98.20	18.849		
4,200.00	4,190.86	4,173.35	4,173.00	11.37	90.25	-42.194	-1,664.81	1,097.54	1,844.15	1,743.92	100.23	18.398		
4,300.00	4,290.41	4,282.29	4,281.91	11.72	92.41	-42.399	-1,665.43	1,097.54	1,837.58	1,734.94	102.63	17.904		
4,400.00	4,389.96	4,381.84	4,381.46	12.07	94.40	-42.599	-1,665.43	1,097.54	1,830.55	1,725.68	104.87	17.455		
4,500.00	4,489.51	4,481.39	4,481.01	12.42	96.39	-42.801	-1,665.43	1,097.54	1,823.55	1,716.44	107.12	17.024		
4,600.00	4,589.05	4,577.62	4,577.23	12.77	98.32	-43.011	-1,664.73	1,097.54	1,816.03	1,706.74	109.29	16.616		
4,700.00	4,688.60	4,673.56	4,673.17	13.13	100.24	-43.202	-1,665.07	1,097.54	1,809.36	1,697.89	111.46	16.233		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,788.15	4,780.07	4,779.65	13.49	102.37	-43.416	-1,665.43	1,097.54	1,802.69	1,688.85	113.84	15.835	
4,900.00	4,887.70	4,879.62	4,879.20	13.85	104.36	-43.623	-1,665.43	1,097.54	1,795.79	1,679.70	116.08	15.470	
5,000.00	4,987.24	4,979.17	4,978.74	14.21	106.36	-43.833	-1,665.43	1,097.54	1,788.90	1,670.58	118.32	15.119	
5,100.00	5,086.79	5,075.36	5,074.93	14.58	108.28	-44.051	-1,664.73	1,097.54	1,781.51	1,661.01	120.50	14.784	
5,200.00	5,186.34	5,171.45	5,171.01	14.95	110.20	-44.249	-1,665.09	1,097.54	1,774.96	1,652.29	122.67	14.469	
5,300.00	5,285.88	5,277.85	5,277.38	15.31	112.36	-44.471	-1,665.43	1,097.54	1,768.40	1,643.33	125.07	14.139	
5,400.00	5,385.43	5,377.40	5,376.93	15.68	114.41	-44.687	-1,665.43	1,097.54	1,761.62	1,634.24	127.37	13.831	
5,500.00	5,484.98	5,476.94	5,476.48	16.05	116.46	-44.905	-1,665.43	1,097.54	1,754.86	1,625.19	129.67	13.533	
5,600.00	5,584.53	5,573.15	5,572.68	16.43	118.44	-45.132	-1,664.74	1,097.54	1,747.60	1,615.70	131.90	13.250	
5,700.00	5,684.07	5,669.36	5,668.88	16.80	120.42	-45.338	-1,665.10	1,097.54	1,741.18	1,607.05	134.12	12.982	
5,800.00	5,783.62	5,775.64	5,775.12	17.17	122.61	-45.569	-1,665.43	1,097.54	1,734.73	1,598.18	136.55	12.704	
5,900.00	5,883.17	5,875.19	5,874.67	17.55	124.66	-45.793	-1,665.43	1,097.54	1,728.08	1,589.23	138.84	12.446	
6,000.00	5,982.72	5,974.71	5,974.17	17.92	126.71	-46.043	-1,664.35	1,097.54	1,720.63	1,579.50	141.13	12.192	
6,100.00	6,082.26	6,069.95	6,069.41	18.30	128.67	-46.257	-1,664.51	1,097.54	1,714.16	1,570.83	143.33	11.959	
6,200.00	6,181.81	6,165.26	6,164.72	18.68	130.63	-46.467	-1,664.99	1,097.54	1,707.97	1,562.43	145.54	11.736	
6,300.00	6,281.36	6,273.44	6,272.86	19.06	132.93	-46.708	-1,665.43	1,097.54	1,701.73	1,553.66	148.07	11.493	
6,400.00	6,380.91	6,372.99	6,372.41	19.43	135.12	-46.942	-1,665.43	1,097.54	1,695.21	1,544.72	150.49	11.265	
6,500.00	6,480.45	6,472.52	6,471.93	19.81	137.30	-47.195	-1,664.61	1,097.54	1,688.11	1,535.21	152.90	11.041	
6,600.00	6,580.00	6,568.94	6,568.35	20.20	139.42	-47.422	-1,664.74	1,097.54	1,681.74	1,526.49	155.25	10.833	
6,700.00	6,679.55	6,665.41	6,664.81	20.58	141.53	-47.645	-1,665.10	1,097.54	1,675.59	1,517.99	157.60	10.632	
6,800.00	6,779.09	6,771.28	6,770.59	20.96	143.96	-47.893	-1,665.43	1,097.54	1,669.42	1,509.17	160.25	10.417	
6,900.00	6,878.64	6,870.82	6,870.14	21.34	146.36	-48.135	-1,665.43	1,097.54	1,663.04	1,500.17	162.87	10.211	
7,000.00	6,978.19	6,970.37	6,969.69	21.72	148.75	-48.379	-1,665.43	1,097.54	1,656.70	1,491.21	165.49	10.011	
7,100.00	7,077.74	7,064.06	7,063.35	22.11	151.01	-48.644	-1,664.04	1,097.54	1,649.39	1,481.42	167.97	9.820	
7,200.00	7,177.28	7,157.86	7,157.13	22.49	153.26	-48.861	-1,664.73	1,097.54	1,643.64	1,473.19	170.45	9.643	
7,300.00	7,276.87	7,269.22	7,268.37	22.85	155.96	-49.069	-1,665.43	1,097.54	1,638.13	1,464.80	173.33	9.451	
7,400.00	7,376.68	7,369.03	7,368.18	23.22	158.38	-49.169	-1,665.43	1,097.54	1,634.17	1,458.20	175.97	9.287	
7,500.00	7,476.64	7,468.99	7,468.12	23.51	160.80	-49.252	-1,663.80	1,097.54	1,631.32	1,452.75	178.58	9.135	
7,560.08	7,536.72	7,525.63	7,524.75	23.54	162.18	-49.258	-1,663.88	1,097.54	1,631.16	1,451.19	179.97	9.063	
7,600.00	7,576.64	7,563.27	7,562.38	23.55	163.09	135.660	-1,664.03	1,097.54	1,631.44	1,450.54	180.90	9.018	
7,700.00	7,676.64	7,657.56	7,656.66	23.57	165.38	135.677	-1,664.73	1,097.54	1,631.97	1,448.74	183.22	8.907	
7,800.00	7,776.64	7,769.17	7,768.14	23.60	168.13	135.694	-1,665.43	1,097.54	1,632.43	1,446.43	186.00	8.776	
7,900.00	7,876.63	7,869.15	7,868.13	23.62	170.65	45.927	-1,665.43	1,097.54	1,631.83	1,443.23	188.59	8.653	
8,000.00	7,975.49	7,968.01	7,966.99	23.60	173.14	47.004	-1,665.43	1,097.54	1,621.99	1,430.55	191.44	8.473	
8,100.00	8,070.39	8,057.57	8,056.51	23.59	175.40	49.345	-1,664.00	1,097.54	1,599.58	1,405.42	194.16	8.238	
8,200.00	8,158.44	8,140.60	8,139.53	23.60	177.49	53.091	-1,664.56	1,097.54	1,568.27	1,371.46	196.81	7.969	
8,300.00	8,236.97	8,229.69	8,228.47	23.65	179.74	58.562	-1,665.43	1,097.54	1,528.53	1,328.87	199.66	7.656	
8,400.00	8,303.59	8,296.31	8,295.09	23.78	181.42	65.090	-1,665.43	1,097.54	1,481.84	1,279.81	202.03	7.335	
8,500.00	8,356.28	8,349.00	8,347.78	24.04	182.76	72.411	-1,665.43	1,097.54	1,431.46	1,227.32	204.14	7.012	
8,600.00	8,393.43	8,386.16	8,384.93	24.46	183.70	79.770	-1,665.43	1,097.54	1,380.28	1,174.32	205.96	6.702	
8,700.00	8,413.92	8,406.65	8,405.42	25.04	184.22	86.323	-1,665.43	1,097.54	1,331.18	1,123.70	207.48	6.416	
8,800.00	8,418.00	8,410.73	8,409.50	25.79	184.32	90.000	-1,665.43	1,097.54	1,286.77	1,078.06	208.71	6.165	
8,900.00	8,418.00	8,410.73	8,409.50	26.68	184.32	90.000	-1,665.43	1,097.54	1,248.73	1,038.76	209.98	5.947	
9,000.00	8,418.00	8,410.73	8,409.50	27.70	184.32	90.000	-1,665.43	1,097.54	1,217.74	1,006.38	211.36	5.761	
9,100.00	8,418.00	8,410.73	8,409.50	28.83	184.32	90.000	-1,665.43	1,097.54	1,194.34	981.53	212.81	5.612	
9,200.00	8,418.00	8,410.73	8,409.50	30.06	184.32	90.000	-1,665.43	1,097.54	1,178.98	964.70	214.27	5.502	
9,300.00	8,418.00	8,410.73	8,409.50	31.38	184.32	90.000	-1,665.43	1,097.54	1,171.98	956.28	215.70	5.433	
9,332.25	8,418.00	8,410.73	8,409.50	31.83	184.32	90.000	-1,665.43	1,097.54	1,171.54	955.38	216.16	5.420 CC, ES	
9,400.00	8,418.00	8,410.73	8,409.50	32.78	184.32	90.000	-1,665.43	1,097.54	1,173.49	956.45	217.04	5.407 SF	
9,500.00	8,418.00	8,410.73	8,409.50	34.25	184.32	90.000	-1,665.43	1,097.54	1,183.48	965.23	218.25	5.423	
9,600.00	8,418.00	8,410.73	8,409.50	35.78	184.32	90.000	-1,665.43	1,097.54	1,201.74	982.45	219.29	5.480	
9,700.00	8,418.00	8,410.73	8,409.50	37.36	184.32	90.000	-1,665.43	1,097.54	1,227.90	1,007.74	220.16	5.577	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		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	8,410.73	8,409.50	38.98	184.32	90.000	-1,665.43	1,097.54	1,261.46	1,040.61	220.85	5.712	
9,900.00	8,418.00	8,410.73	8,409.50	40.65	184.32	90.000	-1,665.43	1,097.54	1,301.86	1,080.49	221.37	5.881	
10,000.00	8,418.00	8,410.73	8,409.50	42.35	184.32	90.000	-1,665.43	1,097.54	1,348.47	1,126.73	221.74	6.081	
10,100.00	8,418.00	8,410.73	8,409.50	44.08	184.32	90.000	-1,665.43	1,097.54	1,400.69	1,178.71	221.98	6.310	
10,200.00	8,418.00	8,410.73	8,409.50	45.84	184.32	90.000	-1,665.43	1,097.54	1,457.90	1,235.80	222.11	6.564	
10,300.00	8,418.00	8,410.73	8,409.50	47.63	184.32	90.000	-1,665.43	1,097.54	1,519.55	1,297.40	222.15	6.840	
10,400.00	8,418.00	8,410.73	8,409.50	49.44	184.32	90.000	-1,665.43	1,097.54	1,585.11	1,362.99	222.12	7.136	
10,500.00	8,418.00	8,410.73	8,409.50	51.27	184.32	90.000	-1,665.43	1,097.54	1,654.13	1,432.08	222.05	7.449	
10,600.00	8,418.00	8,410.73	8,409.50	53.11	184.32	90.000	-1,665.43	1,097.54	1,726.17	1,504.25	221.93	7.778	
10,700.00	8,418.00	8,410.73	8,409.50	54.97	184.32	90.000	-1,665.43	1,097.54	1,800.90	1,579.11	221.79	8.120	
10,800.00	8,418.00	8,410.73	8,409.50	56.85	184.32	90.000	-1,665.43	1,097.54	1,877.97	1,656.35	221.62	8.474	
10,900.00	8,418.00	8,410.73	8,409.50	58.74	184.32	90.000	-1,665.43	1,097.54	1,957.12	1,735.67	221.45	8.838	
11,000.00	8,418.00	8,410.73	8,409.50	60.64	184.32	90.000	-1,665.43	1,097.54	2,038.11	1,816.84	221.27	9.211	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	105.011	-345.93	1,290.06	1,335.74					
100.00	100.00	83.50	83.50	0.79	2.39	105.011	-345.93	1,290.06	1,335.63	1,332.46	3.18	420.478		
200.00	200.00	183.50	183.50	1.45	5.25	105.011	-345.93	1,290.06	1,335.63	1,328.93	6.70	199.343		
300.00	300.00	283.50	283.50	1.89	8.12	105.011	-345.93	1,290.06	1,335.63	1,325.63	10.01	133.443		
400.00	400.00	383.50	383.50	2.25	10.98	105.011	-345.93	1,290.06	1,335.63	1,322.40	13.23	100.922		
500.00	500.00	483.51	483.50	2.57	13.70	105.011	-345.93	1,290.06	1,335.63	1,319.37	16.27	82.110		
600.00	600.00	583.51	583.50	2.85	16.38	105.011	-345.93	1,290.06	1,335.63	1,316.41	19.23	69.468		
689.49	689.49	673.00	672.99	3.08	18.77	104.987	-345.35	1,290.06	1,335.48	1,313.63	21.85	61.107		
700.00	700.00	683.45	683.44	3.11	19.05	104.987	-345.35	1,290.06	1,335.48	1,313.32	22.16	60.261		
800.00	800.00	782.89	782.88	3.35	21.72	104.991	-345.45	1,290.06	1,335.51	1,310.44	25.07	53.280		
900.00	900.00	882.34	882.33	3.58	24.38	105.002	-345.71	1,290.06	1,335.58	1,307.62	27.96	47.775		
1,000.00	1,000.00	983.53	983.50	3.79	26.83	105.011	-345.93	1,290.06	1,335.63	1,305.02	30.62	43.625		
1,100.00	1,100.00	1,083.53	1,083.50	3.99	28.88	105.011	-345.93	1,290.06	1,335.63	1,302.76	32.88	40.623		
1,200.00	1,200.00	1,183.53	1,183.50	4.19	30.94	105.011	-345.93	1,290.06	1,335.63	1,300.50	35.13	38.017		
1,239.55	1,239.55	1,222.88	1,222.86	4.27	31.75	104.989	-345.40	1,290.06	1,335.50	1,299.48	36.02	37.079		
1,300.00	1,300.00	1,282.97	1,282.94	4.38	32.99	104.992	-345.46	1,290.06	1,335.51	1,298.14	37.37	35.739		
1,400.00	1,400.00	1,382.38	1,382.35	4.56	35.03	105.002	-345.71	1,290.06	1,335.58	1,295.98	39.60	33.730		
1,500.00	1,500.00	1,483.56	1,483.50	4.74	37.13	105.011	-345.93	1,290.06	1,335.63	1,293.76	41.87	31.899		
1,600.00	1,600.00	1,583.56	1,583.50	4.91	39.22	105.011	-345.93	1,290.06	1,335.63	1,291.50	44.14	30.262		
1,700.00	1,700.00	1,683.56	1,683.50	5.08	41.32	105.011	-345.93	1,290.06	1,335.63	1,289.24	46.40	28.788		
1,739.65	1,739.65	1,722.92	1,722.86	5.14	42.14	104.977	-345.13	1,290.06	1,335.43	1,288.14	47.28	28.242		
1,800.00	1,800.00	1,782.74	1,782.67	5.24	43.39	104.981	-345.22	1,290.06	1,335.45	1,286.82	48.63	27.459		
1,900.00	1,900.00	1,881.86	1,881.79	5.40	45.47	104.997	-345.59	1,290.06	1,335.55	1,284.68	50.87	26.255		
2,000.00	2,000.00	1,983.61	1,983.50	5.56	47.68	105.011	-345.93	1,290.06	1,335.63	1,282.39	53.24	25.085		
2,100.00	2,099.98	2,083.59	2,083.48	5.78	49.99	-79.977	-345.93	1,290.06	1,335.33	1,279.65	55.68	23.982		
2,200.00	2,199.84	2,183.45	2,183.34	5.98	52.29	-80.215	-345.93	1,290.06	1,334.43	1,276.34	58.09	22.972		
2,300.00	2,299.46	2,282.08	2,281.95	6.09	54.57	-80.633	-344.97	1,290.06	1,332.75	1,272.35	60.41	22.062		
2,400.00	2,399.01	2,380.59	2,380.45	6.26	56.84	-81.011	-345.45	1,290.06	1,331.35	1,268.56	62.79	21.203		
2,500.00	2,498.56	2,482.32	2,482.06	6.45	59.29	-81.402	-345.93	1,290.06	1,330.01	1,264.65	65.35	20.352		
2,600.00	2,598.11	2,581.87	2,581.61	6.65	61.88	-81.805	-345.93	1,290.06	1,328.61	1,260.57	68.04	19.526		
2,700.00	2,697.65	2,681.42	2,681.15	6.87	64.47	-82.210	-345.93	1,290.06	1,327.28	1,256.55	70.74	18.763		
2,800.00	2,797.20	2,780.35	2,780.05	7.10	67.04	-82.704	-343.75	1,290.06	1,325.56	1,252.14	73.42	18.055		
2,900.00	2,896.75	2,878.58	2,878.27	7.35	69.59	-83.084	-344.22	1,290.06	1,324.48	1,248.40	76.08	17.410		
3,000.00	2,996.30	2,976.93	2,976.59	7.61	72.14	-83.445	-345.20	1,290.06	1,323.56	1,244.82	78.74	16.809		
3,100.00	3,095.84	3,079.81	3,079.34	7.89	74.69	-83.834	-345.93	1,290.06	1,322.64	1,241.24	81.40	16.248		
3,200.00	3,195.39	3,179.36	3,178.89	8.17	77.04	-84.242	-345.93	1,290.06	1,321.65	1,237.79	83.86	15.760		
3,300.00	3,294.94	3,278.70	3,278.22	8.46	79.38	-84.702	-344.69	1,290.06	1,320.51	1,234.19	86.31	15.299		
3,400.00	3,394.49	3,377.24	3,376.75	8.76	81.71	-85.094	-345.00	1,290.06	1,319.71	1,230.96	88.75	14.870		
3,500.00	3,494.03	3,475.87	3,475.37	9.07	84.03	-85.467	-345.78	1,290.06	1,319.06	1,227.87	91.19	14.466		
3,600.00	3,593.58	3,577.70	3,577.08	9.38	86.42	-85.879	-345.93	1,290.06	1,318.36	1,224.68	93.68	14.072		
3,700.00	3,693.13	3,677.25	3,676.63	9.70	88.75	-86.289	-345.93	1,290.06	1,317.71	1,221.58	96.13	13.708		
3,800.00	3,792.67	3,776.29	3,775.63	10.03	91.07	-86.773	-344.16	1,290.06	1,316.88	1,218.32	98.56	13.361		
3,900.00	3,892.22	3,874.81	3,874.14	10.36	93.38	-87.155	-344.75	1,290.06	1,316.45	1,215.47	100.98	13.037		
4,000.00	3,991.77	3,976.04	3,975.27	10.69	95.74	-87.522	-345.93	1,290.06	1,316.17	1,212.71	103.45	12.722		
4,100.00	4,091.32	4,075.58	4,074.82	11.03	97.74	-87.934	-345.93	1,290.06	1,315.79	1,210.22	105.57	12.464		
4,200.00	4,190.86	4,175.02	4,174.25	11.37	99.74	-88.380	-345.12	1,290.06	1,315.38	1,207.70	107.68	12.216		
4,300.00	4,290.41	4,273.95	4,273.17	11.72	101.73	-88.777	-345.42	1,290.06	1,315.18	1,205.40	109.78	11.980		
4,400.00	4,389.96	4,374.28	4,373.46	12.07	103.80	-89.170	-345.93	1,290.06	1,315.06	1,203.09	111.97	11.745		
4,500.00	4,489.51	4,473.83	4,473.01	12.42	106.01	-89.582	-345.93	1,290.06	1,314.96	1,200.66	114.30	11.505		
4,600.00	4,589.05	4,573.38	4,572.55	12.77	108.22	-89.994	-345.93	1,290.06	1,314.92	1,198.30	116.63	11.275		
4,626.70	4,615.63	4,599.93	4,599.10	12.87	108.81	-90.151	-344.86	1,290.06	1,314.84	1,197.59	117.25	11.214		
4,700.00	4,688.60	4,672.65	4,671.82	13.13	110.43	-90.447	-344.96	1,290.06	1,314.88	1,195.93	118.95	11.054		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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
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
4,800.00	4,788.15	4,771.93	4,771.08	13.49	112.63	-90.839	-345.41	1,290.06	1,315.02	1,193.75	121.27	10.844	
4,900.00	4,887.70	4,872.11	4,871.20	13.85	114.93	-91.231	-345.93	1,290.06	1,315.23	1,191.54	123.69	10.633	
5,000.00	4,987.24	4,971.66	4,970.74	14.21	117.40	-91.643	-345.93	1,290.06	1,315.47	1,189.19	126.28	10.417	
5,100.00	5,086.79	5,071.21	5,070.29	14.58	119.87	-92.054	-345.93	1,290.06	1,315.78	1,186.90	128.87	10.210	
5,200.00	5,186.34	5,170.76	5,169.84	14.95	122.34	-92.466	-345.93	1,290.06	1,316.15	1,184.69	131.47	10.011	
5,300.00	5,285.88	5,270.20	5,269.25	15.31	124.81	-92.951	-344.22	1,290.06	1,316.54	1,182.48	134.06	9.821	
5,400.00	5,385.43	5,369.69	5,368.74	15.68	127.28	-93.342	-344.67	1,290.06	1,317.08	1,180.42	136.65	9.638	
5,500.00	5,484.98	5,469.25	5,468.29	16.05	129.75	-93.720	-345.44	1,290.06	1,317.68	1,178.43	139.25	9.463	
5,600.00	5,584.53	5,569.08	5,568.03	16.43	132.02	-94.110	-345.93	1,290.06	1,318.34	1,176.69	141.66	9.307	
5,700.00	5,684.07	5,668.62	5,667.57	16.80	134.10	-94.519	-345.93	1,290.06	1,319.06	1,175.20	143.87	9.169	
5,800.00	5,783.62	5,768.17	5,767.11	17.17	136.17	-94.973	-344.91	1,290.06	1,319.85	1,173.77	146.08	9.035	
5,900.00	5,883.17	5,867.79	5,866.72	17.55	138.25	-95.372	-345.15	1,290.06	1,320.71	1,172.41	148.29	8.906	
6,000.00	5,982.72	5,967.48	5,966.41	17.92	140.33	-95.754	-345.76	1,290.06	1,321.63	1,171.11	150.51	8.781	
6,100.00	6,082.26	6,066.89	6,065.76	18.30	142.43	-96.154	-345.93	1,290.06	1,322.61	1,169.86	152.75	8.658	
6,200.00	6,181.81	6,166.43	6,165.31	18.68	144.54	-96.561	-345.93	1,290.06	1,323.67	1,168.66	155.01	8.539	
6,300.00	6,281.36	6,266.03	6,264.90	19.06	146.65	-97.015	-344.85	1,290.06	1,324.84	1,167.57	157.27	8.424	
6,400.00	6,380.91	6,365.81	6,364.67	19.43	148.77	-97.410	-345.12	1,290.06	1,326.02	1,166.49	159.53	8.312	
6,500.00	6,480.45	6,465.66	6,464.52	19.81	150.88	-97.790	-345.73	1,290.06	1,327.26	1,165.46	161.80	8.203	
6,600.00	6,580.00	6,564.70	6,563.50	20.20	153.11	-98.183	-345.93	1,290.06	1,328.57	1,164.39	164.18	8.092	
6,700.00	6,679.55	6,664.25	6,663.05	20.58	155.39	-98.587	-345.93	1,290.06	1,329.96	1,163.35	166.61	7.982	
6,800.00	6,779.09	6,763.87	6,762.67	20.96	157.66	-99.036	-344.85	1,290.06	1,331.50	1,162.44	169.06	7.876	
6,900.00	6,878.64	6,863.82	6,862.60	21.34	159.95	-99.428	-345.11	1,290.06	1,333.01	1,161.51	171.51	7.772	
7,000.00	6,978.19	6,963.83	6,962.61	21.72	162.24	-99.805	-345.71	1,290.06	1,334.56	1,160.60	173.96	7.672	
7,100.00	7,077.74	7,062.56	7,061.24	22.11	164.62	-100.192	-345.93	1,290.06	1,336.19	1,159.68	176.52	7.570	
7,200.00	7,177.28	7,162.10	7,160.78	22.49	167.07	-100.590	-345.93	1,290.06	1,337.92	1,158.77	179.14	7.468	
7,300.00	7,276.87	7,261.85	7,260.51	22.85	169.53	-101.056	-344.31	1,290.06	1,339.80	1,158.05	181.75	7.372	
7,400.00	7,376.68	7,362.50	7,361.15	23.22	172.01	-101.317	-344.69	1,290.06	1,340.93	1,156.55	184.38	7.273	
7,500.00	7,476.64	7,463.35	7,461.98	23.51	174.49	-101.395	-345.59	1,290.06	1,341.33	1,154.36	186.98	7.174	
7,600.00	7,576.64	7,563.63	7,560.14	23.55	177.00	83.524	-345.93	1,290.06	1,341.31	1,151.80	189.51	7.078	
7,700.00	7,676.64	7,663.63	7,660.14	23.57	179.58	83.524	-345.93	1,290.06	1,341.31	1,149.18	192.13	6.981	
7,800.00	7,776.64	7,763.69	7,760.17	23.60	182.16	83.450	-344.21	1,290.06	1,341.51	1,146.75	194.76	6.888	
7,900.00	7,876.63	7,862.47	7,860.95	23.62	184.76	-6.384	-344.49	1,290.06	1,340.61	1,143.23	197.38	6.792	
8,000.00	7,976.49	7,962.14	7,960.60	23.60	187.34	-6.582	-345.27	1,290.06	1,326.43	1,126.42	200.02	6.632	
8,100.00	8,076.39	8,062.59	8,060.89	23.59	189.74	-7.100	-345.93	1,290.06	1,295.43	1,092.94	202.49	6.398	
8,200.00	8,176.44	8,162.64	8,160.94	23.60	192.01	-8.082	-345.93	1,290.06	1,248.61	1,043.79	204.82	6.096	
8,300.00	8,276.49	8,262.17	8,260.47	23.65	194.02	-9.732	-345.93	1,290.06	1,187.36	980.44	206.92	5.738	
8,400.00	8,376.59	8,362.99	8,361.25	23.78	196.74	-12.714	-344.04	1,290.06	1,113.82	905.10	208.72	5.336	
8,500.00	8,476.68	8,463.19	8,461.45	24.04	199.11	-17.984	-344.19	1,290.06	1,029.78	819.60	210.18	4.900	
8,600.00	8,576.77	8,563.28	8,561.54	24.46	198.07	-29.122	-344.40	1,290.06	938.12	726.87	211.25	4.441	
8,700.00	8,676.86	8,663.37	8,661.63	25.04	198.60	-36.778	-344.55	1,290.06	841.73	629.80	211.92	3.972	
8,800.00	8,776.95	8,763.46	8,761.72	25.79	198.71	-44.492	-344.59	1,290.06	743.66	531.42	212.24	3.504	
8,900.00	8,877.04	8,863.55	8,861.81	26.68	198.71	-52.491	-344.59	1,290.06	645.99	433.42	212.57	3.039	
9,000.00	8,977.13	8,963.64	8,961.90	27.70	198.71	-60.490	-344.59	1,290.06	549.16	336.05	213.11	2.577	
9,100.00	9,077.22	9,063.73	9,062.00	28.83	198.71	-68.490	-344.59	1,290.06	453.71	239.68	214.03	2.120	
9,200.00	9,177.31	9,163.82	9,162.08	30.06	198.71	-76.489	-344.59	1,290.06	360.73	145.04	215.69	1.672 Level 3	
9,300.00	9,277.40	9,263.91	9,262.17	31.38	198.71	-84.488	-344.59	1,290.06	272.76	53.90	218.86	1.246 Level 3	
9,400.00	9,377.49	9,363.99	9,362.25	32.78	198.71	-92.487	-344.59	1,290.06	196.65	-28.18	224.84	0.875 Level 3	
9,500.00	9,477.58	9,464.09	9,462.35	34.25	198.71	-100.486	-344.59	1,290.06	151.48	-80.96	232.44	0.652 Level 3	
9,528.63	9,477.58	9,464.09	9,462.35	34.69	198.71	-100.485	-344.59	1,290.06	148.74	-84.70	233.44	0.637 Level 3, CC, ES, SF	
9,600.00	9,577.67	9,564.18	9,562.44	35.78	198.71	-108.485	-344.59	1,290.06	164.98	-66.59	231.57	0.712 Level 3	
9,700.00	9,677.76	9,664.27	9,662.53	37.36	198.71	-116.484	-344.59	1,290.06	226.92	1.65	225.27	1.007 Level 3	
9,800.00	9,777.85	9,764.36	9,762.62	38.98	198.71	-124.483	-344.59	1,290.06	309.46	88.61	220.85	1.401 Level 3	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W17) MAX STATE 001 - 26754 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 405-INC-ONLY													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	8,418.00	8,404.50	8,402.75	40.65	198.71	-90.482	-344.59	1,290.06	400.05	181.77	218.28	1.833	Level 3
10,000.00	8,418.00	8,404.50	8,402.75	42.35	198.71	-90.481	-344.59	1,290.06	494.28	277.53	216.75	2.280	
10,100.00	8,418.00	8,404.50	8,402.75	44.08	198.71	-90.480	-344.59	1,290.06	590.41	374.63	215.78	2.736	
10,200.00	8,418.00	8,404.50	8,402.74	45.84	198.71	-90.479	-344.59	1,290.06	687.64	472.51	215.14	3.196	
10,300.00	8,418.00	8,404.49	8,402.74	47.63	198.71	-90.478	-344.59	1,290.06	785.58	570.87	214.70	3.659	
10,400.00	8,418.00	8,404.49	8,402.74	49.44	198.71	-90.477	-344.59	1,290.06	883.97	669.58	214.39	4.123	
10,500.00	8,418.00	8,404.49	8,402.74	51.27	198.71	-90.476	-344.59	1,290.06	982.69	768.52	214.17	4.588	
10,600.00	8,418.00	8,404.49	8,402.73	53.11	198.71	-90.475	-344.59	1,290.06	1,081.64	867.63	214.01	5.054	
10,700.00	8,418.00	8,404.48	8,402.73	54.97	198.71	-90.474	-344.59	1,290.06	1,180.77	966.88	213.89	5.520	
10,800.00	8,418.00	8,404.48	8,402.73	56.85	198.71	-90.473	-344.59	1,290.06	1,280.04	1,066.22	213.81	5.987	
10,900.00	8,418.00	8,404.48	8,402.73	58.74	198.71	-90.473	-344.59	1,290.06	1,379.41	1,165.65	213.75	6.453	
11,000.00	8,418.00	8,404.48	8,402.72	60.64	198.71	-90.472	-344.59	1,290.06	1,478.86	1,265.15	213.72	6.920	
11,100.00	8,418.00	8,404.47	8,402.72	62.55	198.71	-90.471	-344.59	1,290.06	1,578.39	1,364.69	213.70	7.386	
11,200.00	8,418.00	8,404.47	8,402.72	64.47	198.71	-90.470	-344.59	1,290.06	1,677.97	1,464.28	213.69	7.852	
11,300.00	8,418.00	8,404.47	8,402.72	66.40	198.71	-90.469	-344.59	1,290.06	1,777.60	1,563.90	213.70	8.318	
11,400.00	8,418.00	8,404.47	8,402.71	68.34	198.71	-90.468	-344.59	1,290.06	1,877.27	1,663.56	213.71	8.784	
11,500.00	8,418.00	8,404.47	8,402.71	70.29	198.71	-90.467	-344.59	1,290.06	1,976.97	1,763.24	213.73	9.250	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)												Offset Site Error: 0.00 usft
Survey Program: 452-INC-ONLY												Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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
16,600.00	8,418.00	8,420.90	8,419.50	173.39	205.52	-90.000	-331.46	10,329.87	1,973.10	1,744.42	228.68	8.628
16,700.00	8,418.00	8,420.90	8,419.50	175.44	205.52	-90.000	-331.46	10,329.87	1,873.35	1,644.13	229.22	8.173
16,800.00	8,418.00	8,420.90	8,419.50	177.49	205.52	-90.000	-331.46	10,329.87	1,773.63	1,543.81	229.82	7.717
16,900.00	8,418.00	8,420.90	8,419.50	179.54	205.52	-90.000	-331.46	10,329.87	1,673.94	1,443.44	230.50	7.262
17,000.00	8,418.00	8,420.90	8,419.50	181.59	205.52	-90.000	-331.46	10,329.87	1,574.29	1,343.01	231.28	6.807
17,100.00	8,418.00	8,420.90	8,419.50	183.64	205.52	-90.000	-331.46	10,329.87	1,474.68	1,242.51	232.17	6.352
17,200.00	8,418.00	8,420.90	8,419.50	185.70	205.52	-90.000	-331.46	10,329.87	1,375.14	1,141.92	233.22	5.896
17,300.00	8,418.00	8,420.90	8,419.50	187.75	205.52	-90.000	-331.46	10,329.87	1,275.66	1,041.21	234.45	5.441
17,400.00	8,418.00	8,420.90	8,419.50	189.80	205.52	-90.000	-331.46	10,329.87	1,176.27	940.34	235.93	4.986
17,500.00	8,418.00	8,420.90	8,419.50	191.86	205.52	-90.000	-331.46	10,329.87	1,077.00	839.28	237.72	4.531
17,600.00	8,418.00	8,420.90	8,419.50	193.91	205.52	-90.000	-331.46	10,329.87	977.87	737.95	239.93	4.076
17,700.00	8,418.00	8,420.90	8,419.50	195.97	205.52	-90.000	-331.46	10,329.87	878.95	636.24	242.70	3.621
17,800.00	8,418.00	8,420.90	8,419.50	198.02	205.52	-90.000	-331.46	10,329.87	780.29	534.02	246.27	3.168
17,900.00	8,418.00	8,420.90	8,419.50	200.08	205.52	-90.000	-331.46	10,329.87	682.03	431.05	250.98	2.717
18,000.00	8,418.00	8,420.90	8,419.50	202.13	205.52	-90.000	-331.46	10,329.87	584.36	326.96	257.40	2.270
18,100.00	8,418.00	8,420.90	8,419.50	204.19	205.52	-90.000	-331.46	10,329.87	487.63	221.11	266.52	1.830 Level 3
18,200.00	8,418.00	8,420.90	8,419.50	206.24	205.52	-90.000	-331.46	10,329.87	392.55	112.38	280.17	1.401 Level 3
18,300.00	8,418.00	8,420.90	8,419.50	208.30	205.52	-90.000	-331.46	10,329.87	300.68	-1.30	301.97	0.996 Level 3
18,400.00	8,418.00	8,420.90	8,419.50	210.36	205.52	-90.000	-331.46	10,329.87	216.14	-122.86	338.99	0.638 Level 3
18,500.00	8,418.00	8,420.90	8,419.50	212.41	205.52	-90.000	-331.46	10,329.87	151.74	-243.95	395.69	0.383 Level 3
18,568.45	8,418.00	8,420.90	8,419.50	213.82	205.52	-90.000	-331.46	10,329.87	135.42	-283.91	419.34	0.323 Level 3, CC, ES, SF
18,600.00	8,418.00	8,420.90	8,419.50	214.47	205.52	-90.000	-331.46	10,329.87	139.05	-275.23	414.28	0.336 Level 3
18,700.00	8,418.00	8,420.90	8,419.50	216.53	205.52	-90.000	-331.46	10,329.87	188.80	-172.28	361.08	0.523 Level 3
18,800.00	8,418.00	8,420.90	8,419.50	218.59	205.52	-90.000	-331.46	10,329.87	268.24	-48.66	316.91	0.846 Level 3
18,900.00	8,418.00	8,420.90	8,419.50	220.64	205.52	-90.000	-331.46	10,329.87	358.14	67.30	290.84	1.231 Level 3
19,000.00	8,418.00	8,420.90	8,419.50	222.70	205.52	-90.000	-331.46	10,329.87	452.30	177.37	274.93	1.645 Level 3
19,100.00	8,418.00	8,420.90	8,419.50	224.76	205.52	-90.000	-331.46	10,329.87	548.53	283.96	264.57	2.073
19,200.00	8,418.00	8,420.90	8,419.50	226.82	205.52	-90.000	-331.46	10,329.87	645.90	388.47	257.43	2.509
19,300.00	8,418.00	8,420.90	8,419.50	228.88	205.52	-90.000	-331.46	10,329.87	743.98	491.67	252.31	2.949
19,400.00	8,418.00	8,420.90	8,419.50	230.94	205.52	-90.000	-331.46	10,329.87	842.50	593.99	248.51	3.390
19,500.00	8,418.00	8,420.90	8,419.50	233.00	205.52	-90.000	-331.46	10,329.87	941.34	695.71	245.63	3.832
19,600.00	8,418.00	8,420.90	8,419.50	235.06	205.52	-90.000	-331.46	10,329.87	1,040.40	797.01	243.39	4.275
19,700.00	8,418.00	8,420.90	8,419.50	237.12	205.52	-90.000	-331.46	10,329.87	1,139.62	898.00	241.62	4.717
19,800.00	8,418.00	8,420.90	8,419.50	239.18	205.52	-90.000	-331.46	10,329.87	1,238.97	998.75	240.22	5.158
19,900.00	8,418.00	8,420.90	8,419.50	241.24	205.52	-90.000	-331.46	10,329.87	1,338.42	1,099.33	239.08	5.598
20,000.00	8,418.00	8,420.90	8,419.50	243.30	205.52	-90.000	-331.46	10,329.87	1,437.94	1,199.78	238.16	6.038
20,100.00	8,418.00	8,420.90	8,419.50	245.36	205.52	-90.000	-331.46	10,329.87	1,537.52	1,300.11	237.41	6.476
20,200.00	8,418.00	8,420.90	8,419.50	247.42	205.52	-90.000	-331.46	10,329.87	1,637.16	1,400.36	236.79	6.914
20,300.00	8,418.00	8,420.90	8,419.50	249.48	205.52	-90.000	-331.46	10,329.87	1,736.84	1,500.55	236.29	7.351
20,400.00	8,418.00	8,420.90	8,419.50	251.54	205.52	-90.000	-331.46	10,329.87	1,836.55	1,600.68	235.87	7.786
20,500.00	8,418.00	8,420.90	8,419.50	253.60	205.52	-90.000	-331.46	10,329.87	1,936.29	1,700.76	235.53	8.221
20,600.00	8,418.00	8,420.90	8,419.50	255.66	205.52	-90.000	-331.46	10,329.87	2,036.06	1,800.81	235.24	8.655

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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						Rule Assigned:					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	
11,600.00	8,418.00	8,404.20	8,401.66	72.24	204.39	89.861	-1,655.54	5,058.99	2,060.38	1,813.54	246.84	8.347		
11,700.00	8,418.00	8,404.20	8,401.66	74.20	204.39	89.861	-1,655.54	5,058.99	1,978.99	1,729.46	249.54	7.931		
11,800.00	8,418.00	8,404.19	8,401.66	76.17	204.39	89.861	-1,655.54	5,058.99	1,899.39	1,646.94	252.44	7.524		
11,900.00	8,418.00	8,404.19	8,401.66	78.14	204.39	89.861	-1,655.54	5,058.99	1,821.79	1,566.22	255.58	7.128		
12,000.00	8,418.00	8,404.19	8,401.66	80.11	204.39	89.861	-1,655.54	5,058.99	1,746.48	1,487.54	258.94	6.745		
12,100.00	8,418.00	8,404.19	8,401.66	82.09	204.39	89.861	-1,655.54	5,058.99	1,673.75	1,411.21	262.54	6.375		
12,200.00	8,418.00	8,404.19	8,401.66	84.08	204.39	89.861	-1,655.54	5,058.99	1,603.96	1,337.59	266.38	6.021		
12,300.00	8,418.00	8,404.19	8,401.66	86.07	204.39	89.861	-1,655.54	5,058.99	1,537.51	1,267.07	270.44	5.685		
12,400.00	8,418.00	8,404.19	8,401.66	88.06	204.39	89.861	-1,655.54	5,058.99	1,474.86	1,200.14	274.71	5.369		
12,500.00	8,418.00	8,404.19	8,401.66	90.05	204.39	89.861	-1,655.54	5,058.99	1,416.50	1,137.33	279.16	5.074		
12,600.00	8,418.00	8,404.19	8,401.66	92.05	204.39	89.861	-1,655.54	5,058.99	1,362.98	1,079.25	283.74	4.804		
12,700.00	8,418.00	8,404.19	8,401.66	94.06	204.39	89.861	-1,655.54	5,058.99	1,314.91	1,026.55	288.35	4.560		
12,800.00	8,418.00	8,404.19	8,401.66	96.06	204.39	89.861	-1,655.54	5,058.99	1,272.88	979.96	292.92	4.345		
12,900.00	8,418.00	8,404.19	8,401.66	98.07	204.39	89.861	-1,655.54	5,058.99	1,237.53	940.21	297.32	4.162		
13,000.00	8,418.00	8,404.19	8,401.65	100.08	204.39	89.861	-1,655.54	5,058.99	1,209.44	908.02	301.42	4.012		
13,100.00	8,418.00	8,404.19	8,401.65	102.09	204.39	89.861	-1,655.54	5,058.99	1,189.12	884.05	305.07	3.898		
13,200.00	8,418.00	8,404.19	8,401.65	104.11	204.39	89.861	-1,655.54	5,058.99	1,176.97	868.83	308.14	3.820		
13,293.72	8,418.00	8,404.18	8,401.65	106.00	204.39	89.861	-1,655.54	5,058.99	1,173.23	862.83	310.40	3.780	CC	
13,300.00	8,418.00	8,404.18	8,401.65	106.12	204.39	89.861	-1,655.54	5,058.99	1,173.25	862.72	310.53	3.778	ES	
13,400.00	8,418.00	8,404.18	8,401.65	108.14	204.39	89.861	-1,655.54	5,058.99	1,178.04	865.87	312.17	3.774	SF	
13,500.00	8,418.00	8,404.18	8,401.65	110.16	204.39	89.861	-1,655.54	5,058.99	1,191.23	878.19	313.04	3.805		
13,600.00	8,418.00	8,404.18	8,401.65	112.19	204.39	89.861	-1,655.54	5,058.99	1,212.55	899.37	313.18	3.872		
13,700.00	8,418.00	8,404.18	8,401.65	114.21	204.39	89.861	-1,655.54	5,058.99	1,241.59	928.93	312.66	3.971		
13,800.00	8,418.00	8,404.18	8,401.65	116.24	204.39	89.861	-1,655.54	5,058.99	1,277.81	966.24	311.57	4.101		
13,900.00	8,418.00	8,404.18	8,401.65	118.26	204.39	89.861	-1,655.54	5,058.99	1,320.63	1,010.60	310.02	4.260		
14,000.00	8,418.00	8,404.18	8,401.65	120.29	204.39	89.861	-1,655.54	5,058.99	1,369.42	1,061.28	308.14	4.444		
14,100.00	8,418.00	8,404.18	8,401.65	122.32	204.39	89.861	-1,655.54	5,058.99	1,423.58	1,117.57	306.01	4.652		
14,200.00	8,418.00	8,404.18	8,401.65	124.35	204.39	89.861	-1,655.54	5,058.99	1,482.51	1,178.77	303.73	4.881		
14,300.00	8,418.00	8,404.18	8,401.65	126.39	204.39	89.861	-1,655.54	5,058.99	1,545.67	1,244.29	301.37	5.129		
14,400.00	8,418.00	8,404.18	8,401.65	128.42	204.39	89.861	-1,655.54	5,058.99	1,612.56	1,313.56	299.00	5.393		
14,500.00	8,418.00	8,404.18	8,401.64	130.46	204.39	89.861	-1,655.54	5,058.99	1,682.73	1,386.10	296.64	5.673		
14,600.00	8,418.00	8,404.18	8,401.64	132.49	204.39	89.861	-1,655.54	5,058.99	1,755.81	1,461.48	294.33	5.965		
14,700.00	8,418.00	8,404.18	8,401.64	134.53	204.39	89.860	-1,655.54	5,058.99	1,831.42	1,539.33	292.09	6.270		
14,800.00	8,418.00	8,404.17	8,401.64	136.57	204.39	89.860	-1,655.54	5,058.99	1,909.28	1,619.34	289.94	6.585		
14,900.00	8,418.00	8,404.17	8,401.64	138.61	204.39	89.860	-1,655.54	5,058.99	1,989.13	1,701.23	287.89	6.909		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 218-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	0.50	0.50	0.00	0.01	-121.718	-350.01	-566.31	665.74				
100.00	100.00	100.50	100.50	0.79	1.92	-121.718	-350.01	-566.31	665.74	663.04	2.71	245.748	
200.00	200.00	200.50	200.50	1.45	3.84	-121.718	-350.01	-566.31	665.74	660.46	5.28	126.008	
300.00	300.00	300.50	300.50	1.89	5.80	-121.718	-350.01	-566.31	665.74	658.06	7.69	86.591	
345.02	345.02	345.52	345.52	2.05	6.68	-121.708	-349.87	-566.31	665.67	656.93	8.74	76.183	
400.00	400.00	400.17	400.17	2.25	7.76	-121.710	-349.90	-566.31	665.68	655.67	10.01	66.483	
500.00	500.00	500.50	500.50	2.57	9.91	-121.718	-350.01	-566.31	665.74	653.26	12.48	53.335	
600.00	600.00	600.50	600.50	2.85	12.54	-121.718	-350.01	-566.31	665.74	650.36	15.39	43.265	
700.00	700.00	700.50	700.50	3.11	15.16	-121.718	-350.01	-566.31	665.74	647.48	18.27	36.441	
738.66	738.66	739.06	739.06	3.20	16.17	-121.700	-349.76	-566.31	665.61	646.24	19.37	34.357	
800.00	800.00	800.19	800.19	3.35	17.78	-121.703	-349.80	-566.31	665.63	644.51	21.12	31.510	
900.00	900.00	899.87	899.86	3.58	20.39	-121.713	-349.94	-566.31	665.70	641.74	23.97	27.777	
1,000.00	1,000.00	1,000.51	1,000.50	3.79	22.82	-121.718	-350.01	-566.31	665.74	639.13	26.61	25.014	
1,100.00	1,100.00	1,100.51	1,100.50	3.99	25.12	-121.718	-350.01	-566.31	665.74	636.63	29.11	22.867	
1,187.78	1,187.78	1,188.29	1,188.28	4.17	27.13	-121.678	-349.47	-566.31	665.46	634.16	31.30	21.261	
1,200.00	1,200.00	1,200.44	1,200.42	4.19	27.41	-121.679	-349.47	-566.31	665.46	633.86	31.60	21.057	
1,300.00	1,300.00	1,299.84	1,299.82	4.38	29.69	-121.686	-349.58	-566.31	665.52	631.44	34.07	19.533	
1,400.00	1,400.00	1,399.24	1,399.22	4.56	31.97	-121.707	-349.86	-566.31	665.66	629.13	36.54	18.220	
1,500.00	1,500.00	1,500.54	1,500.50	4.74	33.89	-121.718	-350.01	-566.31	665.74	627.12	38.63	17.235	
1,559.95	1,559.95	1,560.49	1,560.45	4.84	34.87	-121.689	-349.61	-566.31	665.53	625.82	39.72	16.758	
1,600.00	1,600.00	1,599.81	1,599.77	4.91	35.52	-121.692	-349.65	-566.31	665.56	625.13	40.43	16.462	
1,700.00	1,700.00	1,700.56	1,700.50	5.08	37.20	-121.718	-350.01	-566.31	665.74	623.47	42.28	15.747	
1,800.00	1,800.00	1,800.56	1,800.50	5.24	38.99	-121.718	-350.01	-566.31	665.74	621.51	44.23	15.050	
1,832.70	1,832.70	1,833.11	1,833.04	5.29	39.58	-121.685	-349.55	-566.31	665.50	620.63	44.87	14.832	
1,900.00	1,900.00	1,899.34	1,899.27	5.40	40.76	-121.695	-349.69	-566.31	665.57	619.41	46.17	14.417	
2,000.00	2,000.00	2,000.60	2,000.50	5.56	42.95	-121.718	-350.01	-566.31	665.74	617.23	48.51	13.723	
2,100.00	2,099.98	2,100.58	2,100.48	5.78	45.77	53.511	-350.01	-566.31	664.71	613.22	51.49	12.910	
2,200.00	2,199.84	2,200.44	2,200.34	5.98	48.58	53.925	-350.01	-566.31	661.61	607.17	54.44	12.153	
2,300.00	2,299.46	2,299.66	2,299.55	6.09	51.38	54.678	-348.75	-566.31	655.94	598.64	57.30	11.448	
2,400.00	2,399.01	2,398.29	2,398.18	6.26	54.15	55.333	-349.02	-566.31	650.61	590.40	60.20	10.807	
2,500.00	2,498.56	2,496.98	2,496.86	6.45	56.93	55.976	-349.57	-566.31	645.50	582.40	63.11	10.229	
2,600.00	2,598.11	2,598.95	2,598.61	6.65	59.62	56.660	-350.01	-566.31	640.43	574.50	65.93	9.714	
2,700.00	2,697.65	2,698.57	2,698.15	6.87	62.04	57.373	-350.01	-566.31	635.24	566.75	68.49	9.275	
2,800.00	2,797.20	2,793.92	2,793.49	7.10	64.36	58.084	-349.82	-566.31	630.07	559.13	70.94	8.881	
2,900.00	2,896.75	2,893.61	2,893.08	7.35	66.70	58.813	-349.91	-566.31	625.13	551.70	73.43	8.514	
3,000.00	2,996.30	2,995.38	2,994.82	7.61	69.04	59.592	-349.74	-566.31	620.16	544.26	75.90	8.170	
3,100.00	3,095.84	3,096.24	3,095.63	7.89	71.44	60.379	-349.55	-566.31	615.31	536.87	78.44	7.844	
3,200.00	3,195.39	3,196.55	3,195.89	8.17	73.82	61.117	-350.01	-566.31	610.84	529.87	80.97	7.544	
3,300.00	3,294.94	3,296.14	3,295.44	8.46	76.21	61.901	-350.01	-566.31	606.29	522.79	83.50	7.261	
3,400.00	3,394.49	3,393.32	3,392.61	8.76	78.60	62.694	-349.82	-566.31	601.79	515.76	86.03	6.995	
3,500.00	3,494.03	3,495.34	3,494.53	9.07	81.04	63.503	-350.01	-566.31	597.54	508.94	88.60	6.744	
3,600.00	3,593.58	3,592.47	3,591.65	9.38	83.13	64.310	-349.92	-566.31	593.32	502.49	90.83	6.532	
3,700.00	3,693.13	3,694.02	3,693.18	9.70	85.09	65.175	-349.71	-566.31	589.17	496.25	92.92	6.340	
3,800.00	3,792.67	3,794.03	3,793.17	10.03	87.01	65.992	-350.01	-566.31	585.33	490.36	94.97	6.163	
3,900.00	3,892.22	3,893.58	3,892.72	10.36	88.94	66.844	-350.01	-566.31	581.51	484.49	97.02	5.994	
4,000.00	3,991.77	3,993.04	3,992.18	10.69	90.86	67.776	-349.28	-566.31	577.61	478.54	99.06	5.831	
4,100.00	4,091.32	4,092.13	4,091.27	11.03	92.77	68.629	-349.47	-566.31	574.12	473.02	101.10	5.679	
4,200.00	4,190.86	4,191.28	4,190.42	11.37	94.69	69.464	-349.94	-566.31	570.84	467.71	103.13	5.535	
4,300.00	4,290.41	4,291.79	4,290.91	11.72	96.48	70.361	-350.01	-566.31	567.58	462.55	105.03	5.404	
4,400.00	4,389.96	4,391.34	4,390.46	12.07	98.24	71.266	-350.01	-566.31	564.45	457.55	106.89	5.281	
4,500.00	4,489.51	4,490.73	4,489.85	12.42	99.99	72.224	-349.56	-566.31	561.35	452.61	108.74	5.162	
4,600.00	4,589.05	4,590.07	4,589.19	12.77	101.74	73.124	-349.79	-566.31	558.56	447.96	110.60	5.050	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 218-INC-ONLY													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
4,700.00	4,688.60	4,689.99	4,689.10	13.13	103.46	74.038	-350.01	-566.31	555.91	443.49	112.41	4.945	
4,800.00	4,788.15	4,789.54	4,788.65	13.49	105.10	74.996	-349.86	-566.31	553.33	439.18	114.15	4.847	
4,900.00	4,887.70	4,888.95	4,888.06	13.85	106.75	75.938	-349.94	-566.31	550.95	435.06	115.89	4.754	
5,000.00	4,987.24	4,988.64	4,987.74	14.21	108.58	76.890	-350.01	-566.31	548.72	430.91	117.80	4.658	
5,100.00	5,086.79	5,088.19	5,087.29	14.58	110.52	77.856	-350.01	-566.31	546.63	426.79	119.84	4.561	
5,200.00	5,186.34	5,187.65	5,186.75	14.95	112.47	78.867	-349.64	-566.31	544.66	422.80	121.86	4.469	
5,300.00	5,285.88	5,287.10	5,286.20	15.31	114.41	79.820	-349.89	-566.31	542.92	419.03	123.90	4.382	
5,400.00	5,385.43	5,386.86	5,385.93	15.68	116.51	80.794	-350.01	-566.31	541.32	415.25	126.08	4.294	
5,500.00	5,484.98	5,486.41	5,485.48	16.05	118.67	81.786	-350.01	-566.31	539.88	411.56	128.32	4.207	
5,600.00	5,584.53	5,585.93	5,584.99	16.43	120.83	82.884	-349.04	-566.31	538.56	408.00	130.56	4.125	
5,700.00	5,684.07	5,685.47	5,684.52	16.80	122.98	83.849	-349.38	-566.31	537.47	404.66	132.80	4.047	
5,800.00	5,783.62	5,785.12	5,784.12	17.17	125.14	84.787	-350.01	-566.31	536.53	401.47	135.06	3.973	
5,900.00	5,883.17	5,884.67	5,883.67	17.55	127.32	85.795	-350.01	-566.31	535.75	398.42	137.33	3.901	
6,000.00	5,982.72	5,984.22	5,983.22	17.92	129.50	86.805	-350.01	-566.31	535.13	395.52	139.61	3.833	
6,100.00	6,082.26	6,083.83	6,082.82	18.30	131.69	87.924	-349.02	-566.31	534.73	392.84	141.89	3.769	
6,200.00	6,181.81	6,183.55	6,182.53	18.68	133.87	88.897	-349.42	-566.31	534.44	390.26	144.19	3.707	
6,300.00	6,281.36	6,282.93	6,281.86	19.06	136.07	89.846	-350.01	-566.31	534.29	387.79	146.50	3.647	
6,315.20	6,296.49	6,298.06	6,296.99	19.11	136.42	90.000	-350.01	-566.31	534.29	387.42	146.87	3.638 CC	
6,400.00	6,380.91	6,382.48	6,381.41	19.43	138.38	90.860	-350.01	-566.31	534.35	385.41	148.94	3.588	
6,500.00	6,480.45	6,482.03	6,480.95	19.81	140.69	91.874	-350.01	-566.31	534.58	383.20	151.38	3.531	
6,600.00	6,580.00	6,581.82	6,580.73	20.20	143.00	92.983	-349.12	-566.31	535.10	381.26	153.84	3.478	
6,700.00	6,679.55	6,681.73	6,680.63	20.58	145.32	93.945	-349.62	-566.31	535.60	379.29	156.31	3.427	
6,800.00	6,779.09	6,780.78	6,779.59	20.96	147.58	94.907	-350.01	-566.31	536.27	377.55	158.72	3.379	
6,900.00	6,878.64	6,880.33	6,879.14	21.34	149.80	95.912	-350.01	-566.31	537.17	376.05	161.12	3.334	
7,000.00	6,978.19	6,980.84	6,979.63	21.72	152.04	96.986	-349.41	-566.31	538.36	374.81	163.56	3.292	
7,100.00	7,077.74	7,079.50	7,078.24	22.11	154.22	97.912	-350.01	-566.31	539.47	373.54	165.93	3.251	
7,200.00	7,177.28	7,179.05	7,177.78	22.49	156.39	98.905	-350.01	-566.31	540.87	372.56	168.31	3.213	
7,300.00	7,276.87	7,278.63	7,277.37	22.85	158.56	99.863	-350.01	-566.31	542.35	371.69	170.66	3.178	
7,400.00	7,376.68	7,378.95	7,377.67	23.22	160.75	100.806	-349.10	-566.31	543.67	370.62	173.04	3.142	
7,500.00	7,476.64	7,479.47	7,478.19	23.51	162.94	100.826	-349.62	-566.31	544.01	368.64	175.37	3.102	
7,600.00	7,576.64	7,578.48	7,577.14	23.55	165.21	-74.297	-350.01	-566.31	543.92	366.25	177.67	3.061	
7,700.00	7,676.64	7,678.48	7,677.14	23.57	167.63	-74.297	-350.01	-566.31	543.92	363.80	180.12	3.020	
7,800.00	7,776.64	7,778.50	7,777.15	23.60	170.05	-74.188	-348.94	-566.31	544.21	361.62	182.59	2.981	
7,800.07	7,776.71	7,778.56	7,777.22	23.60	170.05	-74.188	-348.94	-566.31	544.21	361.62	182.59	2.981	
7,900.00	7,876.63	7,879.03	7,877.68	23.62	172.48	-164.043	-349.14	-566.31	544.99	359.92	185.07	2.945 ES, SF	
8,000.00	7,975.49	7,978.44	7,977.08	23.60	174.88	-164.129	-349.68	-566.31	558.49	370.77	187.73	2.975	
8,100.00	8,070.39	8,072.37	8,070.89	23.59	177.38	-164.138	-350.01	-566.31	588.47	398.02	190.45	3.090	
8,200.00	8,158.44	8,160.42	8,158.94	23.60	179.89	-163.922	-350.01	-566.31	634.18	441.03	193.15	3.283	
8,300.00	8,236.97	8,238.95	8,237.47	23.65	182.13	-163.265	-350.01	-566.31	694.32	498.78	195.54	3.551	
8,400.00	8,303.59	8,305.91	8,304.40	23.78	184.04	-161.552	-348.14	-566.31	767.52	569.94	197.58	3.885	
8,500.00	8,356.28	8,359.11	8,357.59	24.04	185.55	-158.345	-348.35	-566.31	850.85	651.68	199.17	4.272	
8,600.00	8,393.43	8,396.62	8,395.10	24.46	186.62	-150.971	-348.60	-566.31	942.19	741.92	200.27	4.705	
8,700.00	8,413.92	8,417.32	8,415.78	25.04	187.21	-129.529	-348.77	-566.31	1,038.79	837.93	200.85	5.172	
8,800.00	8,418.00	8,421.43	8,419.90	25.79	187.33	-90.534	-348.81	-566.31	1,137.66	936.73	200.93	5.662	
8,900.00	8,418.00	8,421.43	8,419.89	26.68	187.33	-90.533	-348.81	-566.31	1,236.86	1,035.97	200.89	6.157	
9,000.00	8,418.00	8,421.42	8,419.89	27.70	187.33	-90.531	-348.81	-566.31	1,336.18	1,135.31	200.87	6.652	
9,100.00	8,418.00	8,421.42	8,419.89	28.83	187.33	-90.530	-348.81	-566.31	1,435.59	1,234.74	200.85	7.148	
9,200.00	8,418.00	8,421.42	8,419.89	30.06	187.33	-90.529	-348.81	-566.31	1,535.08	1,334.23	200.85	7.643	
9,300.00	8,418.00	8,421.42	8,419.88	31.38	187.33	-90.528	-348.81	-566.31	1,634.63	1,433.78	200.85	8.139	
9,400.00	8,418.00	8,421.41	8,419.88	32.78	187.33	-90.527	-348.81	-566.31	1,734.23	1,533.38	200.85	8.634	
9,500.00	8,418.00	8,421.41	8,419.88	34.25	187.33	-90.526	-348.81	-566.31	1,833.88	1,633.01	200.87	9.130	
9,600.00	8,418.00	8,421.41	8,419.87	35.78	187.33	-90.525	-348.81	-566.31	1,933.56	1,732.68	200.88	9.625	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design:	Bond Pad Offsets - (W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)												Offset Site Error:	0.00 usft
	218-INC-ONLY												Offset Well Error:	0.00 usft
Survey Program:	Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,700.00	8,418.00	8,421.41	8,419.87	37.36	187.33	-90.524	-348.81	-566.31	2,033.27	1,832.37	200.91	10.121		



Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond Pad Offsets - (W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)													Offset Site Error: 0.00 usft
Survey Program: 7160-BLIND - TREND													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,500.00	8,418.00	7,160.00	7,160.00	253.60	758.96	-49.135	998.94	12,962.71	2,052.98	1,267.68	785.30	2.614	
20,542.50	8,418.00	7,160.00	7,160.00	254.47	758.96	-49.135	998.94	12,962.71	2,038.78	1,254.09	784.69	2.598	
20,600.00	8,418.00	7,160.00	7,160.00	255.66	758.96	-49.135	998.94	12,962.71	2,020.82	1,236.90	783.92	2.578	
20,640.89	8,418.00	7,160.00	7,160.00	256.50	758.96	-49.135	998.94	12,962.71	2,008.95	1,225.53	783.42	2.564	
20,700.00	8,418.00	7,160.00	7,160.00	257.72	758.96	-49.135	998.94	12,962.71	1,993.16	1,210.37	782.79	2.546	
20,739.21	8,418.00	7,160.00	7,160.00	258.53	758.96	-49.135	998.94	12,962.71	1,983.58	1,201.15	782.43	2.535	
20,800.00	8,418.00	7,160.00	7,160.00	259.78	758.96	-49.135	998.94	12,962.71	1,970.19	1,188.19	781.99	2.519	
20,837.46	8,418.00	7,160.00	7,160.00	260.55	758.96	-49.135	998.94	12,962.71	1,962.83	1,181.02	781.80	2.511	
20,900.00	8,418.00	7,160.00	7,160.00	261.84	758.96	-49.135	998.94	12,962.71	1,952.08	1,170.45	781.63	2.497	
20,935.63	8,418.00	7,160.00	7,160.00	262.58	758.96	-49.135	998.94	12,962.71	1,946.83	1,165.21	781.62	2.491	
21,000.00	8,418.00	7,160.00	7,160.00	263.90	758.96	-49.135	998.94	12,962.71	1,938.96	1,157.19	781.77	2.480	
21,033.73	8,418.00	7,160.00	7,160.00	264.60	758.96	-49.135	998.94	12,962.71	1,935.68	1,153.74	781.95	2.475	
21,100.00	8,418.00	7,160.00	7,160.00	265.97	758.96	-49.135	998.94	12,962.71	1,930.94	1,148.47	782.48	2.468	
21,131.76	8,418.00	7,160.00	7,160.00	266.62	758.96	-49.135	998.94	12,962.71	1,929.48	1,146.65	782.82	2.465	
21,200.00	8,418.00	7,160.00	7,160.00	268.03	758.96	-49.135	998.94	12,962.71	1,928.09	1,144.31	783.77	2.460	
21,205.17	8,418.00	7,160.00	7,160.00	268.13	758.96	-49.135	998.94	12,962.71	1,928.08	1,144.22	783.86	2.460 CC	
21,221.58	8,418.00	7,160.00	7,160.00	268.47	758.96	-49.135	998.94	12,962.71	1,928.15	1,144.02	784.13	2.459 ES	
21,300.00	8,418.00	7,160.00	7,160.00	270.09	758.96	-49.135	998.94	12,962.71	1,930.41	1,144.74	785.67	2.457	
21,319.44	8,418.00	7,160.00	7,160.00	270.49	758.96	-49.135	998.94	12,962.71	1,931.46	1,145.36	786.10	2.457 SF	
21,400.00	8,418.00	7,160.00	7,160.00	272.15	758.96	-49.135	998.94	12,962.71	1,937.90	1,149.77	788.13	2.459	
21,500.00	8,418.00	7,160.00	7,160.00	274.21	758.96	-49.135	998.94	12,962.71	1,950.49	1,159.38	791.11	2.466	
21,600.00	8,418.00	7,160.00	7,160.00	276.28	758.96	-49.135	998.94	12,962.71	1,968.09	1,173.56	794.53	2.477	
21,700.00	8,418.00	7,160.00	7,160.00	278.34	758.96	-49.135	998.94	12,962.71	1,990.56	1,192.27	798.30	2.494	
21,800.00	8,418.00	7,160.00	7,160.00	280.40	758.96	-49.135	998.94	12,962.71	2,017.75	1,215.45	802.30	2.515	
21,818.82	8,418.00	7,160.00	7,160.00	280.79	758.96	-49.135	998.94	12,962.71	2,023.38	1,220.30	803.07	2.520	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				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		
9,500.00	8,418.00	8,494.68	8,412.61	34.25	21.25	90.000	-2,010.11	2,605.59	2,026.33	1,981.45	44.88	45.154			
9,600.00	8,418.00	8,494.68	8,412.61	35.78	21.25	90.000	-2,010.11	2,605.59	1,961.67	1,915.27	46.40	42.279			
9,700.00	8,418.00	8,494.68	8,412.61	37.36	21.25	90.000	-2,010.11	2,605.59	1,900.08	1,852.02	48.06	39.538			
9,800.00	8,418.00	8,494.68	8,412.61	38.98	21.25	90.000	-2,010.11	2,605.59	1,841.85	1,792.01	49.85	36.950			
9,900.00	8,418.00	8,494.68	8,412.61	40.65	21.25	90.000	-2,010.11	2,605.59	1,787.34	1,735.58	51.76	34.532			
10,000.00	8,418.00	8,494.68	8,412.61	42.35	21.25	90.000	-2,010.11	2,605.59	1,736.87	1,683.09	53.78	32.295			
10,100.00	8,418.00	8,494.68	8,412.61	44.08	21.25	90.000	-2,010.11	2,605.59	1,690.81	1,634.92	55.90	30.248			
10,200.00	8,418.00	8,494.68	8,412.61	45.84	21.25	90.000	-2,010.11	2,605.59	1,649.54	1,591.45	58.09	28.397			
10,300.00	8,418.00	8,494.68	8,412.61	47.63	21.25	90.000	-2,010.11	2,605.59	1,613.42	1,553.09	60.33	26.742			
10,400.00	8,418.00	8,494.68	8,412.61	49.44	21.25	90.000	-2,010.11	2,605.59	1,582.81	1,520.20	62.60	25.283			
10,500.00	8,418.00	8,494.68	8,412.61	51.27	21.25	90.000	-2,010.11	2,605.59	1,558.02	1,493.15	64.87	24.019			
10,600.00	8,418.00	8,494.68	8,412.61	53.11	21.25	90.000	-2,010.11	2,605.59	1,539.34	1,472.24	67.09	22.943			
10,700.00	8,418.00	8,494.68	8,412.61	54.97	21.25	90.000	-2,010.11	2,605.59	1,526.99	1,457.74	69.25	22.050			
10,800.00	8,418.00	8,494.68	8,412.61	56.85	21.25	90.000	-2,010.11	2,605.59	1,521.13	1,449.83	71.30	21.333			
10,839.30	8,418.00	8,494.68	8,412.61	57.59	21.25	90.000	-2,010.11	2,605.59	1,520.62	1,448.55	72.08	21.098	CC		
10,900.00	8,418.00	8,494.68	8,412.61	58.74	21.25	90.000	-2,010.11	2,605.59	1,521.83	1,448.61	73.22	20.784			
11,000.00	8,418.00	8,494.68	8,412.61	60.64	21.25	90.000	-2,010.11	2,605.59	1,529.09	1,454.12	74.97	20.395			
11,100.00	8,418.00	8,494.68	8,412.61	62.55	21.25	90.000	-2,010.11	2,605.59	1,542.81	1,466.26	76.54	20.156			
11,200.00	8,418.00	8,494.68	8,412.61	64.47	21.25	90.000	-2,010.11	2,605.59	1,562.82	1,484.91	77.91	20.059			
11,300.00	8,418.00	8,494.68	8,412.61	66.40	21.25	90.000	-2,010.11	2,605.59	1,588.88	1,509.81	79.07	20.094			
11,400.00	8,418.00	8,494.68	8,412.61	68.34	21.25	90.000	-2,010.11	2,605.59	1,620.70	1,540.68	80.02	20.253			
11,500.00	8,418.00	8,494.68	8,412.61	70.29	21.25	90.000	-2,010.11	2,605.59	1,657.96	1,577.19	80.77	20.526			
11,600.00	8,418.00	8,494.68	8,412.61	72.24	21.25	90.000	-2,010.11	2,605.59	1,700.28	1,618.95	81.33	20.905			
11,700.00	8,418.00	8,494.68	8,412.61	74.20	21.25	90.000	-2,010.11	2,605.59	1,747.31	1,665.59	81.72	21.382			
11,800.00	8,418.00	10,156.95	9,360.00	76.17	27.15	121.925	-2,007.24	3,566.38	1,791.56	1,702.81	88.74	20.188			
11,821.14	8,418.00	10,178.08	9,360.00	76.58	27.51	121.925	-2,007.18	3,587.52	1,791.55	1,702.15	89.40	20.039			
11,900.00	8,418.00	10,256.95	9,360.00	78.14	28.88	121.925	-2,006.95	3,666.38	1,791.55	1,699.67	91.89	19.498			
11,921.14	8,418.00	10,278.08	9,360.00	78.55	29.25	121.925	-2,006.88	3,687.52	1,791.55	1,698.99	92.55	19.357			
12,000.00	8,418.00	10,356.95	9,360.00	80.11	30.65	121.925	-2,006.65	3,766.38	1,791.55	1,696.47	95.08	18.843			
12,021.14	8,418.00	10,378.08	9,360.00	80.53	31.03	121.925	-2,006.58	3,787.52	1,791.55	1,695.79	95.76	18.710			
12,100.00	8,418.00	10,456.95	9,360.00	82.09	32.46	121.925	-2,006.35	3,866.38	1,791.54	1,693.23	98.31	18.224			
12,121.14	8,418.00	10,478.08	9,360.00	82.51	32.85	121.925	-2,006.29	3,887.52	1,791.54	1,692.54	99.00	18.097			
12,200.00	8,418.00	10,556.95	9,360.00	84.08	34.30	121.925	-2,006.05	3,966.38	1,791.54	1,689.96	101.58	17.637			
12,221.14	8,418.00	10,578.08	9,360.00	84.50	34.69	121.925	-2,005.99	3,987.52	1,791.54	1,689.26	102.27	17.518			
12,300.00	8,418.00	10,656.95	9,360.00	86.07	36.16	121.925	-2,005.75	4,066.38	1,791.53	1,686.66	104.88	17.083			
12,321.14	8,418.00	10,678.08	9,360.00	86.49	36.56	121.925	-2,005.69	4,087.51	1,791.53	1,685.95	105.58	16.969			
12,400.00	8,418.00	10,756.95	9,360.00	88.06	38.05	121.926	-2,005.45	4,166.38	1,791.53	1,683.33	108.20	16.557			
12,421.14	8,418.00	10,778.08	9,360.00	88.48	38.45	121.926	-2,005.39	4,187.51	1,791.53	1,682.62	108.91	16.450			
12,500.00	8,418.00	10,856.95	9,360.00	90.05	39.95	121.926	-2,005.16	4,266.38	1,791.52	1,679.97	111.55	16.060			
12,521.14	8,418.00	10,878.08	9,360.00	90.48	40.36	121.926	-2,005.09	4,287.51	1,791.52	1,679.26	112.26	15.958			
12,600.00	8,418.00	10,956.95	9,360.00	92.05	41.87	121.926	-2,004.86	4,366.38	1,791.52	1,676.60	114.92	15.589			
12,621.14	8,418.00	10,978.08	9,360.00	92.48	42.28	121.926	-2,004.79	4,387.51	1,791.52	1,675.88	115.64	15.493			
12,700.00	8,418.00	11,056.95	9,360.00	94.06	43.80	121.926	-2,004.56	4,466.38	1,791.51	1,673.20	118.31	15.142			
12,721.14	8,418.00	11,078.08	9,360.00	94.48	44.21	121.926	-2,004.50	4,487.51	1,791.51	1,672.48	119.03	15.051			
12,800.00	8,418.00	11,156.95	9,360.00	96.06	45.75	121.926	-2,004.26	4,566.38	1,791.51	1,669.79	121.72	14.719			
12,821.14	8,418.00	11,178.08	9,360.00	96.48	46.16	121.926	-2,004.20	4,587.51	1,791.51	1,669.07	122.44	14.632			
12,900.00	8,418.00	11,256.95	9,360.00	98.07	47.70	121.926	-2,003.96	4,666.38	1,791.50	1,666.37	125.14	14.316			
12,921.14	8,418.00	11,278.08	9,360.00	98.49	48.12	121.926	-2,003.90	4,687.51	1,791.50	1,665.64	125.86	14.234			
13,000.00	8,418.00	11,356.95	9,360.00	100.08	49.67	121.926	-2,003.66	4,766.38	1,791.50	1,662.93	128.57	13.934			
13,021.14	8,418.00	11,378.08	9,360.00	100.50	50.08	121.926	-2,003.60	4,787.51	1,791.50	1,662.20	129.30	13.856			
13,100.00	8,418.00	11,456.95	9,360.00	102.09	51.64	121.926	-2,003.37	4,866.38	1,791.49	1,659.48	132.02	13.570			
13,121.14	8,418.00	11,478.08	9,360.00	102.52	52.06	121.926	-2,003.30	4,887.51	1,791.49	1,658.75	132.75	13.496			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	
13,200.00	8,418.00	11,556.95	9,360.00	104.11	53.62	121.926	-2,003.07	4,966.38	1,791.49	1,656.02	135.47	13.224	
13,221.14	8,418.00	11,578.08	9,360.00	104.53	54.04	121.926	-2,003.01	4,987.51	1,791.49	1,655.28	136.20	13.153	
13,300.00	8,418.00	11,656.95	9,360.00	106.12	55.61	121.926	-2,002.77	5,066.38	1,791.48	1,652.54	138.94	12.894	
13,321.14	8,418.00	11,678.08	9,360.00	106.55	56.03	121.926	-2,002.71	5,087.51	1,791.48	1,651.81	139.67	12.826	
13,400.00	8,418.00	11,756.95	9,360.00	108.14	57.60	121.927	-2,002.47	5,166.37	1,791.48	1,649.07	142.41	12.579	
13,421.14	8,418.00	11,778.08	9,360.00	108.57	58.02	121.927	-2,002.41	5,187.51	1,791.48	1,648.33	143.15	12.515	
13,500.00	8,418.00	11,856.95	9,360.00	110.16	59.60	121.927	-2,002.17	5,266.37	1,791.47	1,645.58	145.90	12.279	
13,521.14	8,418.00	11,878.08	9,360.00	110.59	60.02	121.927	-2,002.11	5,287.51	1,791.47	1,644.84	146.63	12.217	
13,600.00	8,418.00	11,956.95	9,360.00	112.19	61.60	121.927	-2,001.88	5,366.37	1,791.47	1,642.08	149.39	11.992	
13,621.14	8,418.00	11,978.08	9,360.00	112.61	62.03	121.927	-2,001.81	5,387.51	1,791.47	1,641.34	150.12	11.933	
13,700.00	8,418.00	12,056.95	9,360.00	114.21	63.61	121.927	-2,001.58	5,466.37	1,791.46	1,638.58	152.88	11.718	
13,721.14	8,418.00	12,078.08	9,360.00	114.64	64.03	121.927	-2,001.51	5,487.51	1,791.46	1,637.84	153.62	11.661	
13,800.00	8,418.00	12,156.95	9,360.00	116.24	65.62	121.927	-2,001.28	5,566.37	1,791.46	1,635.07	156.39	11.455	
13,821.14	8,418.00	12,178.08	9,360.00	116.66	66.04	121.927	-2,001.22	5,587.51	1,791.46	1,634.33	157.13	11.401	
13,900.00	8,418.00	12,256.95	9,360.00	118.26	67.63	121.927	-2,000.98	5,666.37	1,791.45	1,631.56	159.89	11.204	
13,921.14	8,418.00	12,278.08	9,360.00	118.69	68.06	121.927	-2,000.92	5,687.51	1,791.45	1,630.82	160.64	11.152	
14,000.00	8,418.00	12,356.95	9,360.00	120.29	69.65	121.927	-2,000.68	5,766.37	1,791.45	1,628.04	163.41	10.963	
14,021.14	8,418.00	12,378.08	9,360.00	120.72	70.08	121.927	-2,000.62	5,787.51	1,791.45	1,627.30	164.15	10.913	
14,100.00	8,418.00	12,456.95	9,360.00	122.32	71.67	121.927	-2,000.38	5,866.37	1,791.44	1,624.52	166.93	10.732	
14,121.14	8,418.00	12,478.08	9,360.00	122.75	72.10	121.927	-2,000.32	5,887.51	1,791.44	1,623.77	167.67	10.684	
14,200.00	8,418.00	12,556.95	9,360.00	124.35	73.69	121.927	-2,000.09	5,966.37	1,791.44	1,620.99	170.45	10.510	
14,221.14	8,418.00	12,578.08	9,360.00	124.78	74.12	121.927	-2,000.02	5,987.51	1,791.44	1,620.24	171.20	10.464	
14,300.00	8,418.00	12,656.95	9,360.00	126.39	75.72	121.927	-1,999.79	6,066.37	1,791.43	1,617.46	173.98	10.297	
14,321.14	8,418.00	12,678.08	9,360.00	126.82	76.15	121.927	-1,999.73	6,087.51	1,791.43	1,616.71	174.72	10.253	
14,400.00	8,418.00	12,756.95	9,360.00	128.42	77.75	121.928	-1,999.49	6,166.37	1,791.43	1,613.92	177.51	10.092	
14,421.14	8,418.00	12,778.08	9,360.00	128.85	78.18	121.928	-1,999.43	6,187.51	1,791.43	1,613.17	178.26	10.050	
14,500.00	8,418.00	12,856.95	9,360.00	130.46	79.78	121.928	-1,999.19	6,266.37	1,791.42	1,610.38	181.04	9.895	
14,521.14	8,418.00	12,878.08	9,360.00	130.89	80.21	121.928	-1,999.13	6,287.50	1,791.42	1,609.63	181.79	9.854	
14,600.00	8,418.00	12,956.95	9,360.00	132.49	81.81	121.928	-1,998.89	6,366.37	1,791.42	1,606.84	184.58	9.705	
14,621.14	8,418.00	12,978.08	9,360.00	132.92	82.24	121.928	-1,998.83	6,387.50	1,791.42	1,606.09	185.33	9.666	
14,700.00	8,418.00	13,056.95	9,360.00	134.53	83.84	121.928	-1,998.60	6,466.37	1,791.41	1,603.29	188.12	9.523	
14,721.14	8,418.00	13,078.08	9,360.00	134.96	84.27	121.928	-1,998.53	6,487.50	1,791.41	1,602.54	188.87	9.485	
14,800.00	8,418.00	13,156.95	9,360.00	136.57	85.88	121.928	-1,998.30	6,566.37	1,791.41	1,599.74	191.67	9.346	
14,821.14	8,418.00	13,178.08	9,360.00	137.00	86.31	121.928	-1,998.23	6,587.50	1,791.41	1,598.99	192.42	9.310	
14,900.00	8,418.00	13,256.95	9,360.00	138.61	87.92	121.928	-1,998.00	6,666.37	1,791.41	1,596.19	195.22	9.177	
14,921.14	8,418.00	13,278.08	9,360.00	139.04	88.35	121.928	-1,997.94	6,687.50	1,791.40	1,595.44	195.97	9.141	
15,000.00	8,418.00	13,356.95	9,360.00	140.65	89.95	121.928	-1,997.70	6,766.37	1,791.40	1,592.63	198.77	9.013	
15,021.14	8,418.00	13,378.08	9,360.00	141.08	90.39	121.928	-1,997.64	6,787.50	1,791.40	1,591.88	199.52	8.979	
15,100.00	8,418.00	13,456.95	9,360.00	142.69	91.99	121.928	-1,997.40	6,866.37	1,791.40	1,589.08	202.32	8.854	
15,121.14	8,418.00	13,478.08	9,360.00	143.12	92.43	121.928	-1,997.34	6,887.50	1,791.39	1,588.32	203.07	8.822	
15,200.00	8,418.00	13,556.95	9,360.00	144.73	94.04	121.928	-1,997.10	6,966.37	1,791.39	1,585.52	205.87	8.701	
15,221.14	8,418.00	13,578.08	9,360.00	145.16	94.47	121.928	-1,997.04	6,987.50	1,791.39	1,584.76	206.63	8.670	
15,300.00	8,418.00	13,656.95	9,360.00	146.77	96.08	121.928	-1,996.81	7,066.37	1,791.39	1,581.95	209.43	8.554	
15,321.14	8,418.00	13,678.08	9,360.00	147.20	96.51	121.928	-1,996.74	7,087.50	1,791.38	1,581.20	210.18	8.523	
15,400.00	8,418.00	13,756.95	9,360.00	148.82	98.12	121.928	-1,996.51	7,166.37	1,791.38	1,578.39	212.99	8.411	
15,421.14	8,418.00	13,778.08	9,360.00	149.25	98.55	121.928	-1,996.44	7,187.50	1,791.38	1,577.64	213.74	8.381	
15,500.00	8,418.00	13,856.95	9,360.00	150.86	100.17	121.929	-1,996.21	7,266.37	1,791.38	1,574.82	216.55	8.272	
15,521.14	8,418.00	13,878.08	9,360.00	151.29	100.60	121.929	-1,996.15	7,287.50	1,791.37	1,574.07	217.30	8.244	
15,600.00	8,418.00	13,956.95	9,360.00	152.90	102.21	121.929	-1,995.91	7,366.37	1,791.37	1,571.26	220.11	8.138	
15,621.14	8,418.00	13,978.08	9,360.00	153.34	102.64	121.929	-1,995.85	7,387.50	1,791.37	1,570.50	220.87	8.111	
15,700.00	8,418.00	14,056.95	9,360.00	154.95	104.26	121.929	-1,995.61	7,466.36	1,791.37	1,567.69	223.68	8.009	
15,721.14	8,418.00	14,078.08	9,360.00	155.38	104.69	121.929	-1,995.55	7,487.50	1,791.37	1,566.93	224.43	7.982	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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			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		
15,800.00	8,418.00	14,156.95	9,360.00	157.00	106.31	121.929	-1,995.32	7,566.36	1,791.36	1,564.12	227.25	7.883			
15,821.14	8,418.00	14,178.08	9,360.00	157.43	106.74	121.929	-1,995.25	7,587.50	1,791.36	1,563.36	228.00	7.857			
15,900.00	8,418.00	14,256.95	9,360.00	159.04	108.35	121.929	-1,995.02	7,666.36	1,791.36	1,560.54	230.81	7.761			
15,921.14	8,418.00	14,278.08	9,360.00	159.48	108.79	121.929	-1,994.95	7,687.50	1,791.36	1,559.79	231.57	7.736			
16,000.00	8,418.00	14,356.95	9,360.00	161.09	110.40	121.929	-1,994.72	7,766.36	1,791.35	1,556.97	234.38	7.643			
16,021.14	8,418.00	14,378.08	9,360.00	161.52	110.84	121.929	-1,994.66	7,787.50	1,791.35	1,556.21	235.14	7.618			
16,100.00	8,418.00	14,456.95	9,360.00	163.14	112.45	121.929	-1,994.42	7,866.36	1,791.35	1,553.39	237.95	7.528			
16,121.14	8,418.00	14,478.08	9,360.00	163.57	112.89	121.929	-1,994.36	7,887.50	1,791.35	1,552.64	238.71	7.504			
16,200.00	8,418.00	14,556.95	9,360.00	165.19	114.50	121.929	-1,994.12	7,966.36	1,791.34	1,549.81	241.53	7.417			
16,221.14	8,418.00	14,578.08	9,360.00	165.62	114.94	121.929	-1,994.06	7,987.50	1,791.34	1,549.06	242.28	7.394			
16,300.00	8,418.00	14,656.95	9,360.00	167.24	116.55	121.929	-1,993.82	8,066.36	1,791.34	1,546.24	245.10	7.309			
16,321.14	8,418.00	14,678.08	9,360.00	167.67	116.99	121.929	-1,993.76	8,087.50	1,791.34	1,545.48	245.86	7.286			
16,400.00	8,418.00	14,756.95	9,360.00	169.28	118.61	121.929	-1,993.53	8,166.36	1,791.33	1,542.66	248.68	7.203			
16,421.14	8,418.00	14,778.08	9,360.00	169.72	119.04	121.929	-1,993.46	8,187.50	1,791.33	1,541.90	249.43	7.182			
16,500.00	8,418.00	14,856.95	9,360.00	171.33	120.66	121.930	-1,993.23	8,266.36	1,791.33	1,539.08	252.25	7.101			
16,521.14	8,418.00	14,878.08	9,360.00	171.77	121.09	121.930	-1,993.16	8,287.50	1,791.33	1,538.32	253.01	7.080			
16,600.00	8,418.00	14,956.95	9,360.00	173.39	122.71	121.930	-1,992.93	8,366.36	1,791.32	1,535.49	255.83	7.002			
16,621.14	8,418.00	14,978.08	9,360.00	173.82	123.15	121.930	-1,992.87	8,387.50	1,791.32	1,534.74	256.59	6.981			
16,700.00	8,418.00	15,056.95	9,360.00	175.44	124.76	121.930	-1,992.63	8,466.36	1,791.32	1,531.91	259.41	6.905			
16,721.14	8,418.00	15,078.08	9,360.00	175.87	125.20	121.930	-1,992.57	8,487.50	1,791.32	1,531.15	260.16	6.885			
16,800.00	8,418.00	15,156.95	9,360.00	177.49	126.82	121.930	-1,992.33	8,566.36	1,791.31	1,528.33	262.99	6.811			
16,821.14	8,418.00	15,178.08	9,360.00	177.92	127.25	121.930	-1,992.27	8,587.49	1,791.31	1,527.57	263.74	6.792			
16,900.00	8,418.00	15,256.95	9,360.00	179.54	128.87	121.930	-1,992.03	8,666.36	1,791.31	1,524.74	266.57	6.720			
16,921.14	8,418.00	15,278.08	9,360.00	179.97	129.31	121.930	-1,991.97	8,687.49	1,791.31	1,523.98	267.32	6.701			
17,000.00	8,418.00	15,356.95	9,360.00	181.59	130.93	121.930	-1,991.74	8,766.36	1,791.30	1,521.15	270.15	6.631			
17,021.14	8,418.00	15,378.08	9,360.00	182.02	131.36	121.930	-1,991.67	8,787.49	1,791.30	1,520.40	270.91	6.612			
17,100.00	8,418.00	15,456.95	9,360.00	183.64	132.98	121.930	-1,991.44	8,866.36	1,791.30	1,517.57	273.73	6.544			
17,121.14	8,418.00	15,478.08	9,360.00	184.08	133.42	121.930	-1,991.38	8,887.49	1,791.30	1,516.81	274.49	6.526			
17,200.00	8,418.00	15,556.95	9,360.00	185.70	135.04	121.930	-1,991.14	8,966.36	1,791.29	1,513.98	277.31	6.459			
17,221.14	8,418.00	15,578.08	9,360.00	186.13	135.47	121.930	-1,991.08	8,987.49	1,791.29	1,513.22	278.07	6.442			
17,300.00	8,418.00	15,656.95	9,360.00	187.75	137.10	121.930	-1,990.84	9,066.36	1,791.29	1,510.39	280.90	6.377			
17,321.14	8,418.00	15,678.08	9,360.00	188.18	137.53	121.930	-1,990.78	9,087.49	1,791.29	1,509.63	281.66	6.360			
17,400.00	8,418.00	15,756.95	9,360.00	189.80	139.15	121.930	-1,990.54	9,166.36	1,791.28	1,506.80	284.48	6.297			
17,421.14	8,418.00	15,778.08	9,360.00	190.24	139.59	121.930	-1,990.48	9,187.49	1,791.28	1,506.04	285.24	6.280			
17,500.00	8,418.00	15,856.95	9,360.00	191.86	141.21	121.931	-1,990.25	9,266.36	1,791.28	1,503.21	288.07	6.218			
17,521.14	8,418.00	15,878.08	9,360.00	192.29	141.64	121.931	-1,990.18	9,287.49	1,791.28	1,502.45	288.83	6.202			
17,600.00	8,418.00	15,956.95	9,360.00	193.91	143.27	121.931	-1,989.95	9,366.36	1,791.27	1,499.62	291.65	6.142			
17,621.14	8,418.00	15,978.08	9,360.00	194.35	143.70	121.931	-1,989.88	9,387.49	1,791.27	1,498.86	292.41	6.126			
17,700.00	8,418.00	16,056.95	9,360.00	195.97	145.32	121.931	-1,989.65	9,466.36	1,791.27	1,496.03	295.24	6.067			
17,721.14	8,418.00	16,078.08	9,360.00	196.40	145.76	121.931	-1,989.59	9,487.49	1,791.27	1,495.27	296.00	6.052			
17,800.00	8,418.00	16,156.95	9,360.00	198.02	147.38	121.931	-1,989.35	9,566.36	1,791.26	1,492.43	298.83	5.994			
17,821.14	8,418.00	16,178.08	9,360.00	198.46	147.82	121.931	-1,989.29	9,587.49	1,791.26	1,491.68	299.59	5.979			
17,900.00	8,418.00	16,256.95	9,360.00	200.08	149.44	121.931	-1,989.05	9,666.35	1,791.26	1,488.84	302.42	5.923			
17,921.14	8,418.00	16,278.08	9,360.00	200.51	149.88	121.931	-1,988.99	9,687.49	1,791.26	1,488.08	303.18	5.908			
18,000.00	8,418.00	16,356.95	9,360.00	202.13	151.50	121.931	-1,988.75	9,766.35	1,791.25	1,485.25	306.01	5.854			
18,021.14	8,418.00	16,378.08	9,360.00	202.57	151.93	121.931	-1,988.69	9,787.49	1,791.25	1,484.49	306.77	5.839			
18,100.00	8,418.00	16,456.95	9,360.00	204.19	153.56	121.931	-1,988.46	9,866.35	1,791.25	1,481.65	309.60	5.786			
18,121.14	8,418.00	16,478.08	9,360.00	204.62	153.99	121.931	-1,988.39	9,887.49	1,791.25	1,480.89	310.36	5.772			
18,200.00	8,418.00	16,556.95	9,360.00	206.24	155.62	121.931	-1,988.16	9,966.35	1,791.24	1,478.06	313.19	5.719			
18,221.14	8,418.00	16,578.08	9,360.00	206.68	156.05	121.931	-1,988.10	9,987.49	1,791.24	1,477.30	313.95	5.706			
18,300.00	8,418.00	16,656.95	9,360.00	208.30	157.68	121.931	-1,987.86	10,066.35	1,791.24	1,474.46	316.78	5.655			
18,321.14	8,418.00	16,678.08	9,360.00	208.74	158.11	121.931	-1,987.80	10,087.49	1,791.24	1,473.70	317.54	5.641			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
18,400.00	8,418.00	16,756.95	9,360.00	210.36	159.74	121.931	-1,987.56	10,166.35	1,791.23	1,470.87	320.37	5.591	
18,421.14	8,418.00	16,778.08	9,360.00	210.79	160.17	121.931	-1,987.50	10,187.49	1,791.23	1,470.11	321.13	5.578	
18,500.00	8,418.00	16,856.95	9,360.00	212.41	161.80	121.931	-1,987.26	10,266.35	1,791.23	1,467.27	323.96	5.529	
18,521.14	8,418.00	16,878.08	9,360.00	212.85	162.23	121.931	-1,987.20	10,287.49	1,791.23	1,466.51	324.72	5.516	
18,600.00	8,418.00	16,956.95	9,360.00	214.47	163.86	121.932	-1,986.97	10,366.35	1,791.23	1,463.67	327.55	5.469	
18,621.14	8,418.00	16,978.08	9,360.00	214.91	164.29	121.932	-1,986.90	10,387.49	1,791.22	1,462.91	328.31	5.456	
18,700.00	8,418.00	17,056.95	9,360.00	216.53	165.92	121.932	-1,986.67	10,466.35	1,791.22	1,460.07	331.15	5.409	
18,721.14	8,418.00	17,078.08	9,360.00	216.96	166.35	121.932	-1,986.60	10,487.49	1,791.22	1,459.31	331.91	5.397	
18,800.00	8,418.00	17,156.95	9,360.00	218.59	167.98	121.932	-1,986.37	10,566.35	1,791.22	1,456.48	334.74	5.351	
18,821.14	8,418.00	17,178.08	9,360.00	219.02	168.41	121.932	-1,986.31	10,587.49	1,791.21	1,455.72	335.50	5.339	
18,900.00	8,418.00	17,256.95	9,360.00	220.64	170.04	121.932	-1,986.07	10,666.35	1,791.21	1,452.88	338.33	5.294	
18,921.14	8,418.00	17,278.08	9,360.00	221.08	170.47	121.932	-1,986.01	10,687.49	1,791.21	1,452.12	339.09	5.282	
19,000.00	8,418.00	17,356.95	9,360.00	222.70	172.10	121.932	-1,985.77	10,766.35	1,791.21	1,449.28	341.93	5.239	
19,021.14	8,418.00	17,378.08	9,360.00	223.14	172.53	121.932	-1,985.71	10,787.48	1,791.20	1,448.52	342.69	5.227	
19,100.00	8,418.00	17,456.95	9,360.00	224.76	174.16	121.932	-1,985.47	10,866.35	1,791.20	1,445.68	345.52	5.184	
19,121.14	8,418.00	17,478.08	9,360.00	225.20	174.60	121.932	-1,985.41	10,887.48	1,791.20	1,444.92	346.28	5.173	
19,200.00	8,418.00	17,556.95	9,360.00	226.82	176.22	121.932	-1,985.18	10,966.35	1,791.20	1,442.08	349.12	5.131	
19,221.14	8,418.00	17,578.08	9,360.00	227.26	176.66	121.932	-1,985.11	10,987.48	1,791.20	1,441.32	349.88	5.120	
19,300.00	8,418.00	17,656.95	9,360.00	228.88	178.28	121.932	-1,984.88	11,066.35	1,791.19	1,438.48	352.71	5.078	
19,321.14	8,418.00	17,678.08	9,360.00	229.31	178.72	121.932	-1,984.81	11,087.48	1,791.19	1,437.72	353.47	5.067	
19,400.00	8,418.00	17,756.95	9,360.00	230.94	180.35	121.932	-1,984.58	11,166.35	1,791.19	1,434.88	356.31	5.027	
19,421.14	8,418.00	17,778.08	9,360.00	231.37	180.78	121.932	-1,984.52	11,187.48	1,791.19	1,434.12	357.07	5.016	
19,500.00	8,418.00	17,856.95	9,360.00	233.00	182.41	121.932	-1,984.28	11,266.35	1,791.18	1,431.28	359.90	4.977	
19,521.14	8,418.00	17,878.08	9,360.00	233.43	182.84	121.932	-1,984.22	11,287.48	1,791.18	1,430.52	360.66	4.966	
19,600.00	8,418.00	17,956.95	9,360.00	235.06	184.47	121.933	-1,983.98	11,366.35	1,791.18	1,427.68	363.50	4.928	
19,621.14	8,418.00	17,978.08	9,360.00	235.49	184.90	121.933	-1,983.92	11,387.48	1,791.18	1,426.91	364.26	4.917	
19,700.00	8,418.00	18,056.95	9,360.00	237.12	186.53	121.933	-1,983.68	11,466.35	1,791.17	1,424.07	367.10	4.879	
19,721.14	8,418.00	18,078.08	9,360.00	237.55	186.97	121.933	-1,983.62	11,487.48	1,791.17	1,423.31	367.86	4.869	
19,800.00	8,418.00	18,156.95	9,360.00	239.18	188.59	121.933	-1,983.39	11,566.35	1,791.17	1,420.47	370.70	4.832	
19,821.14	8,418.00	18,178.08	9,360.00	239.61	189.03	121.933	-1,983.32	11,587.48	1,791.17	1,419.71	371.46	4.822	
19,900.00	8,418.00	18,256.95	9,360.00	241.24	190.66	121.933	-1,983.09	11,666.35	1,791.16	1,416.87	374.29	4.785	
19,921.14	8,418.00	18,278.08	9,360.00	241.67	191.09	121.933	-1,983.03	11,687.48	1,791.16	1,416.11	375.05	4.776	
20,000.00	8,418.00	18,356.95	9,360.00	243.30	192.72	121.933	-1,982.79	11,766.35	1,791.16	1,413.27	377.89	4.740	
20,021.14	8,418.00	18,378.08	9,360.00	243.73	193.15	121.933	-1,982.73	11,787.48	1,791.16	1,412.50	378.65	4.730	
20,100.00	8,418.00	18,456.95	9,360.00	245.36	194.78	121.933	-1,982.49	11,866.35	1,791.15	1,409.66	381.49	4.695	
20,121.14	8,418.00	18,478.08	9,360.00	245.79	195.22	121.933	-1,982.43	11,887.48	1,791.15	1,408.90	382.25	4.686	
20,200.00	8,418.00	18,556.95	9,360.00	247.42	196.84	121.933	-1,982.19	11,966.34	1,791.15	1,406.06	385.09	4.651	
20,221.14	8,418.00	18,578.08	9,360.00	247.85	197.28	121.933	-1,982.13	11,987.48	1,791.15	1,405.30	385.85	4.642	
20,300.00	8,418.00	18,656.95	9,360.00	249.48	198.91	121.933	-1,981.90	12,066.34	1,791.14	1,402.46	388.69	4.608	
20,321.14	8,418.00	18,678.08	9,360.00	249.91	199.34	121.933	-1,981.83	12,087.48	1,791.14	1,401.69	389.45	4.599	
20,400.00	8,418.00	18,756.95	9,360.00	251.54	200.97	121.933	-1,981.60	12,166.34	1,791.14	1,398.85	392.29	4.566	
20,421.14	8,418.00	18,778.08	9,360.00	251.97	201.41	121.933	-1,981.53	12,187.48	1,791.14	1,398.09	393.05	4.557	
20,500.00	8,418.00	18,856.95	9,360.00	253.60	203.03	121.933	-1,981.30	12,266.34	1,791.13	1,395.25	395.89	4.524	
20,521.14	8,418.00	18,878.08	9,360.00	254.03	203.47	121.933	-1,981.24	12,287.48	1,791.13	1,394.48	396.65	4.516	
20,600.00	8,418.00	18,956.95	9,360.00	255.66	205.10	121.934	-1,981.00	12,366.34	1,791.13	1,391.64	399.49	4.484	
20,621.14	8,418.00	18,978.08	9,360.00	256.09	205.53	121.934	-1,980.94	12,387.48	1,791.13	1,390.88	400.25	4.475	
20,700.00	8,418.00	19,056.95	9,360.00	257.72	207.16	121.934	-1,980.70	12,466.34	1,791.12	1,388.04	403.09	4.444	
20,721.14	8,418.00	19,078.08	9,360.00	258.16	207.60	121.934	-1,980.64	12,487.48	1,791.12	1,387.28	403.85	4.435	
20,800.00	8,418.00	19,156.95	9,360.00	259.78	209.23	121.934	-1,980.40	12,566.34	1,791.12	1,384.43	406.69	4.404	
20,821.14	8,418.00	19,178.08	9,360.00	260.22	209.66	121.934	-1,980.34	12,587.48	1,791.12	1,383.67	407.45	4.396	
20,900.00	8,418.00	19,256.95	9,360.00	261.84	211.29	121.934	-1,980.11	12,666.34	1,791.11	1,380.83	410.29	4.366	
20,921.14	8,418.00	19,278.08	9,360.00	262.28	211.73	121.934	-1,980.04	12,687.48	1,791.11	1,380.06	411.05	4.357	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	
21,000.00	8,418.00	19,356.95	9,360.00	263.90	213.35	121.934	-1,979.81	12,766.34	1,791.11	1,377.22	413.89	4.328	
21,021.14	8,418.00	19,378.08	9,360.00	264.34	213.79	121.934	-1,979.75	12,787.48	1,791.11	1,376.46	414.65	4.320	
21,100.00	8,418.00	19,456.95	9,360.00	265.97	215.42	121.934	-1,979.51	12,866.34	1,791.10	1,373.61	417.49	4.290	
21,121.14	8,418.00	19,478.08	9,360.00	266.40	215.85	121.934	-1,979.45	12,887.48	1,791.10	1,372.85	418.25	4.282	
21,200.00	8,418.00	19,556.95	9,360.00	268.03	217.48	121.934	-1,979.21	12,966.34	1,791.10	1,370.01	421.09	4.253	
21,221.14	8,418.00	19,578.08	9,360.00	268.46	217.92	121.934	-1,979.15	12,987.48	1,791.10	1,369.25	421.85	4.246	
21,300.00	8,418.00	19,656.95	9,360.00	270.09	219.55	121.934	-1,978.91	13,066.34	1,791.09	1,366.40	424.69	4.217	
21,321.14	8,418.00	19,678.08	9,360.00	270.53	219.98	121.934	-1,978.85	13,087.47	1,791.09	1,365.64	425.45	4.210	
21,400.00	8,418.00	19,756.95	9,360.00	272.15	221.61	121.934	-1,978.62	13,166.34	1,791.09	1,362.80	428.29	4.182	
21,421.14	8,418.00	19,778.08	9,360.00	272.59	222.05	121.934	-1,978.55	13,187.47	1,791.09	1,362.03	429.05	4.174	
21,500.00	8,418.00	19,856.95	9,360.00	274.21	223.67	121.934	-1,978.32	13,266.34	1,791.08	1,359.19	431.90	4.147	
21,521.14	8,418.00	19,878.08	9,360.00	274.65	224.11	121.934	-1,978.25	13,287.47	1,791.08	1,358.43	432.66	4.140	
21,600.00	8,418.00	19,956.95	9,360.00	276.28	225.74	121.934	-1,978.02	13,366.34	1,791.08	1,355.58	435.50	4.113	
21,621.14	8,418.00	19,978.08	9,360.00	276.71	226.17	121.934	-1,977.96	13,387.47	1,791.08	1,354.82	436.26	4.106	
21,700.00	8,418.00	20,056.95	9,360.00	278.34	227.80	121.935	-1,977.72	13,466.34	1,791.07	1,351.97	439.10	4.079	
21,721.14	8,418.00	20,078.08	9,360.00	278.78	228.24	121.935	-1,977.66	13,487.47	1,791.07	1,351.21	439.86	4.072	
21,800.00	8,418.00	20,156.95	9,360.00	280.40	229.87	121.935	-1,977.42	13,566.34	1,791.07	1,348.37	442.70	4.046	
21,803.98	8,418.00	20,160.93	9,360.00	280.48	229.95	121.935	-1,977.41	13,570.31	1,791.07	1,348.22	442.85	4.044	
21,818.82	8,418.00	20,175.76	9,360.00	280.79	230.26	121.935	-1,977.37	13,585.15	1,791.07	1,347.69	443.38	4.040 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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Reference 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		
9,000.00	8,418.00	8,541.58	8,408.69	27.70	27.84	90.000	-1,410.12	2,602.08	2,055.26	2,021.05	34.21	60.071			
9,100.00	8,418.00	8,541.58	8,408.69	28.83	27.84	90.000	-1,410.12	2,602.08	1,966.37	1,931.58	34.78	56.531			
9,200.00	8,418.00	8,541.58	8,408.69	30.06	27.84	90.000	-1,410.12	2,602.08	1,878.59	1,843.09	35.50	52.924			
9,300.00	8,418.00	8,541.58	8,408.69	31.38	27.84	90.000	-1,410.12	2,602.08	1,792.09	1,755.72	36.37	49.272			
9,400.00	8,418.00	8,541.58	8,408.69	32.78	27.84	90.000	-1,410.12	2,602.08	1,707.07	1,669.63	37.43	45.602			
9,500.00	8,418.00	8,541.58	8,408.69	34.25	27.84	90.000	-1,410.12	2,602.08	1,623.75	1,585.04	38.71	41.947			
9,600.00	8,418.00	8,541.58	8,408.69	35.78	27.84	90.000	-1,410.12	2,602.08	1,542.42	1,502.19	40.23	38.342			
9,700.00	8,418.00	8,541.58	8,408.69	37.36	27.84	90.000	-1,410.12	2,602.08	1,463.40	1,421.38	42.02	34.828			
9,800.00	8,418.00	8,541.58	8,408.69	38.98	27.84	90.000	-1,410.12	2,602.08	1,387.10	1,342.98	44.12	31.442			
9,900.00	8,418.00	8,541.58	8,408.69	40.65	27.84	90.000	-1,410.12	2,602.08	1,313.98	1,267.42	46.55	28.226			
10,000.00	8,418.00	8,541.58	8,408.69	42.35	27.84	90.000	-1,410.12	2,602.08	1,244.60	1,195.24	49.36	25.216			
10,100.00	8,418.00	8,541.58	8,408.69	44.08	27.84	90.000	-1,410.12	2,602.08	1,179.63	1,127.08	52.55	22.448			
10,200.00	8,418.00	8,541.58	8,408.69	45.84	27.84	90.000	-1,410.12	2,602.08	1,119.82	1,063.70	56.13	19.952			
10,300.00	8,418.00	8,541.58	8,408.69	47.63	27.84	90.000	-1,410.12	2,602.08	1,066.07	1,006.01	60.06	17.750			
10,400.00	8,418.00	8,541.58	8,408.69	49.44	27.84	90.000	-1,410.12	2,602.08	1,019.31	955.03	64.27	15.859			
10,500.00	8,418.00	8,541.58	8,408.69	51.27	27.84	90.000	-1,410.12	2,602.08	980.55	911.91	68.64	14.285			
10,600.00	8,418.00	8,541.58	8,408.69	53.11	27.84	90.000	-1,410.12	2,602.08	950.78	877.80	72.98	13.029			
10,700.00	8,418.00	8,541.58	8,408.69	54.97	27.84	90.000	-1,410.12	2,602.08	930.84	853.79	77.06	12.080			
10,800.00	8,418.00	8,541.58	8,408.69	56.85	27.84	90.000	-1,410.12	2,602.08	921.39	840.73	80.65	11.424			
10,837.54	8,418.00	8,541.58	8,408.69	57.56	27.84	90.000	-1,410.12	2,602.08	920.62	838.78	81.84	11.249	CC, ES		
10,900.00	8,418.00	8,541.58	8,408.69	58.74	27.84	90.000	-1,410.12	2,602.08	922.74	839.17	83.58	11.041			
11,000.00	8,418.00	8,541.58	8,408.69	60.64	27.84	90.000	-1,410.12	2,602.08	934.85	849.15	85.70	10.909			
11,100.00	8,418.00	8,541.58	8,408.69	62.55	27.84	90.000	-1,410.12	2,602.08	957.31	870.31	86.99	11.004			
11,200.00	8,418.00	8,541.58	8,408.69	64.47	27.84	90.000	-1,410.12	2,602.08	989.41	901.89	87.52	11.305			
11,300.00	8,418.00	8,541.58	8,408.69	66.40	27.84	90.000	-1,410.12	2,602.08	1,030.25	942.86	87.39	11.789			
11,400.00	8,418.00	8,541.58	8,408.69	68.34	27.84	90.000	-1,410.12	2,602.08	1,078.85	992.10	86.75	12.436			
11,500.00	8,418.00	8,541.58	8,408.69	70.29	27.84	90.000	-1,410.12	2,602.08	1,134.20	1,048.46	85.74	13.229			
11,600.00	8,418.00	8,541.58	8,408.69	72.24	27.84	90.000	-1,410.12	2,602.08	1,195.36	1,110.88	84.48	14.150			
11,700.00	8,418.00	8,541.58	8,408.69	74.20	27.84	90.000	-1,410.12	2,602.08	1,261.50	1,178.42	83.08	15.185			
11,800.00	8,418.00	8,541.58	8,408.69	76.17	27.84	90.000	-1,410.12	2,602.08	1,331.87	1,250.26	81.61	16.320			
11,900.00	8,418.00	8,541.58	8,408.69	78.14	27.84	90.000	-1,410.12	2,602.08	1,405.83	1,325.71	80.13	17.545			
12,000.00	8,418.00	8,541.58	8,408.69	80.11	27.84	90.000	-1,410.12	2,602.08	1,482.86	1,404.19	78.67	18.850			
12,100.00	8,418.00	8,541.58	8,408.69	82.09	27.84	90.000	-1,410.12	2,602.08	1,562.48	1,485.23	77.26	20.225			
12,200.00	8,418.00	8,541.58	8,408.69	84.08	27.84	90.000	-1,410.12	2,602.08	1,644.34	1,568.43	75.91	21.662			
12,300.00	8,418.00	8,541.58	8,408.69	86.07	27.84	90.000	-1,410.12	2,602.08	1,728.10	1,653.47	74.63	23.156			
12,400.00	8,418.00	8,541.58	8,408.69	88.06	27.84	90.000	-1,410.12	2,602.08	1,813.51	1,740.09	73.43	24.698			
12,500.00	8,418.00	8,541.58	8,408.69	90.05	27.84	90.000	-1,410.12	2,602.08	1,900.35	1,828.05	72.30	26.286			
12,600.00	8,418.00	8,541.58	8,408.69	92.05	27.84	90.000	-1,410.12	2,602.08	1,988.42	1,917.18	71.24	27.912			
12,700.00	8,418.00	11,924.49	10,175.00	94.06	47.23	152.474	-1,404.56	4,464.59	1,991.78	1,903.75	88.03	22.625			
12,721.13	8,418.00	11,945.62	10,175.00	94.48	47.59	152.474	-1,404.50	4,485.72	1,991.78	1,903.31	88.48	22.512			
12,800.00	8,418.00	12,024.49	10,175.00	96.06	48.95	152.474	-1,404.27	4,564.59	1,991.78	1,901.65	90.13	22.099			
12,821.13	8,418.00	12,045.62	10,175.00	96.48	49.32	152.474	-1,404.20	4,585.72	1,991.78	1,901.20	90.58	21.990			
12,900.00	8,418.00	12,124.49	10,175.00	98.07	50.71	152.474	-1,403.97	4,664.59	1,991.78	1,899.54	92.24	21.593			
12,921.13	8,418.00	12,145.62	10,175.00	98.49	51.08	152.474	-1,403.90	4,685.72	1,991.78	1,899.09	92.69	21.489			
13,000.00	8,418.00	12,224.49	10,175.00	100.08	52.49	152.474	-1,403.67	4,764.59	1,991.78	1,897.41	94.37	21.107			
13,021.13	8,418.00	12,245.62	10,175.00	100.50	52.87	152.474	-1,403.61	4,785.72	1,991.78	1,896.96	94.82	21.007			
13,100.00	8,418.00	12,324.49	10,175.00	102.09	54.29	152.474	-1,403.37	4,864.59	1,991.77	1,895.27	96.50	20.640			
13,121.13	8,418.00	12,345.62	10,175.00	102.52	54.68	152.474	-1,403.31	4,885.72	1,991.77	1,894.82	96.96	20.543			
13,200.00	8,418.00	12,424.49	10,175.00	104.11	56.12	152.474	-1,403.07	4,964.59	1,991.77	1,893.12	98.65	20.190			
13,221.13	8,418.00	12,445.62	10,175.00	104.53	56.51	152.474	-1,403.01	4,985.72	1,991.77	1,892.66	99.11	20.097			
13,300.00	8,418.00	12,524.49	10,175.00	106.12	57.96	152.474	-1,402.77	5,064.59	1,991.77	1,890.96	100.81	19.758			
13,321.13	8,418.00	12,545.62	10,175.00	106.55	58.35	152.474	-1,402.71	5,085.72	1,991.77	1,890.50	101.27	19.668			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
13,400.00	8,418.00	12,624.49	10,175.00	108.14	59.82	152.475	-1,402.48	5,164.59	1,991.77	1,888.79	102.98	19.341	
13,421.13	8,418.00	12,645.62	10,175.00	108.57	60.22	152.475	-1,402.41	5,185.72	1,991.76	1,888.33	103.44	19.255	
13,500.00	8,418.00	12,724.49	10,175.00	110.16	61.70	152.475	-1,402.18	5,264.59	1,991.76	1,886.60	105.16	18.941	
13,521.13	8,418.00	12,745.62	10,175.00	110.59	62.09	152.475	-1,402.12	5,285.72	1,991.76	1,886.14	105.62	18.858	
13,600.00	8,418.00	12,824.49	10,175.00	112.19	63.58	152.475	-1,401.88	5,364.58	1,991.76	1,884.41	107.35	18.554	
13,621.13	8,418.00	12,845.62	10,175.00	112.61	63.98	152.475	-1,401.82	5,385.72	1,991.76	1,883.95	107.81	18.475	
13,700.00	8,418.00	12,924.49	10,175.00	114.21	65.48	152.475	-1,401.58	5,464.58	1,991.76	1,882.21	109.54	18.182	
13,721.13	8,418.00	12,945.62	10,175.00	114.64	65.89	152.475	-1,401.52	5,485.72	1,991.76	1,881.75	110.01	18.105	
13,800.00	8,418.00	13,024.49	10,175.00	116.24	67.39	152.475	-1,401.28	5,564.58	1,991.75	1,880.01	111.75	17.824	
13,821.13	8,418.00	13,045.62	10,175.00	116.66	67.80	152.475	-1,401.22	5,585.72	1,991.75	1,879.54	112.21	17.750	
13,900.00	8,418.00	13,124.49	10,175.00	118.26	69.31	152.475	-1,400.99	5,664.58	1,991.75	1,877.79	113.96	17.478	
13,921.13	8,418.00	13,145.62	10,175.00	118.69	69.72	152.475	-1,400.92	5,685.72	1,991.75	1,877.32	114.43	17.406	
14,000.00	8,418.00	13,224.49	10,175.00	120.29	71.24	152.475	-1,400.69	5,764.58	1,991.75	1,875.57	116.18	17.144	
14,021.13	8,418.00	13,245.62	10,175.00	120.72	71.65	152.476	-1,400.62	5,785.72	1,991.75	1,875.10	116.65	17.075	
14,100.00	8,418.00	13,324.49	10,175.00	122.32	73.18	152.476	-1,400.39	5,864.58	1,991.75	1,873.34	118.40	16.822	
14,121.13	8,418.00	13,345.62	10,175.00	122.75	73.59	152.476	-1,400.33	5,885.72	1,991.75	1,872.87	118.87	16.755	
14,200.00	8,418.00	13,424.49	10,175.00	124.35	75.13	152.476	-1,400.09	5,964.58	1,991.74	1,871.11	120.63	16.511	
14,221.13	8,418.00	13,445.62	10,175.00	124.78	75.54	152.476	-1,400.03	5,985.72	1,991.74	1,870.64	121.11	16.446	
14,300.00	8,418.00	13,524.49	10,175.00	126.39	77.08	152.476	-1,399.79	6,064.58	1,991.74	1,868.87	122.87	16.210	
14,321.13	8,418.00	13,545.62	10,175.00	126.82	77.49	152.476	-1,399.73	6,085.71	1,991.74	1,868.40	123.34	16.148	
14,400.00	8,418.00	13,624.49	10,175.00	128.42	79.04	152.476	-1,399.49	6,164.58	1,991.74	1,866.63	125.11	15.920	
14,421.13	8,418.00	13,645.62	10,175.00	128.85	79.45	152.476	-1,399.43	6,185.71	1,991.74	1,866.15	125.59	15.860	
14,500.00	8,418.00	13,724.49	10,175.00	130.46	81.00	152.476	-1,399.20	6,264.58	1,991.74	1,864.38	127.36	15.639	
14,521.13	8,418.00	13,745.62	10,175.00	130.89	81.42	152.476	-1,399.13	6,285.71	1,991.74	1,863.90	127.83	15.581	
14,600.00	8,418.00	13,824.49	10,175.00	132.49	82.97	152.476	-1,398.90	6,364.58	1,991.73	1,862.12	129.61	15.367	
14,621.13	8,418.00	13,845.62	10,175.00	132.92	83.39	152.476	-1,398.84	6,385.71	1,991.73	1,861.65	130.09	15.311	
14,700.00	8,418.00	13,924.49	10,175.00	134.53	84.94	152.477	-1,398.60	6,464.58	1,991.73	1,859.86	131.87	15.104	
14,721.13	8,418.00	13,945.62	10,175.00	134.96	85.36	152.477	-1,398.54	6,485.71	1,991.73	1,859.39	132.34	15.050	
14,800.00	8,418.00	14,024.49	10,175.00	136.57	86.92	152.477	-1,398.30	6,564.58	1,991.73	1,857.60	134.13	14.850	
14,821.13	8,418.00	14,045.62	10,175.00	137.00	87.34	152.477	-1,398.24	6,585.71	1,991.73	1,857.12	134.61	14.797	
14,900.00	8,418.00	14,124.49	10,175.00	138.61	88.90	152.477	-1,398.00	6,664.58	1,991.73	1,855.33	136.39	14.603	
14,921.13	8,418.00	14,145.62	10,175.00	139.04	89.32	152.477	-1,397.94	6,685.71	1,991.73	1,854.85	136.87	14.552	
15,000.00	8,418.00	14,224.49	10,175.00	140.65	90.89	152.477	-1,397.71	6,764.58	1,991.72	1,853.06	138.66	14.364	
15,021.13	8,418.00	14,245.62	10,175.00	141.08	91.31	152.477	-1,397.64	6,785.71	1,991.72	1,852.58	139.14	14.314	
15,100.00	8,418.00	14,324.49	10,175.00	142.69	92.88	152.477	-1,397.41	6,864.58	1,991.72	1,850.79	140.93	14.132	
15,121.13	8,418.00	14,345.62	10,175.00	143.12	93.30	152.477	-1,397.34	6,885.71	1,991.72	1,850.31	141.41	14.084	
15,200.00	8,418.00	14,424.49	10,175.00	144.73	94.87	152.477	-1,397.11	6,964.58	1,991.72	1,848.51	143.21	13.908	
15,221.13	8,418.00	14,445.62	10,175.00	145.16	95.30	152.477	-1,397.05	6,985.71	1,991.72	1,848.03	143.69	13.861	
15,300.00	8,418.00	14,524.49	10,175.00	146.77	96.87	152.477	-1,396.81	7,064.58	1,991.72	1,846.23	145.49	13.690	
15,321.13	8,418.00	14,545.62	10,175.00	147.20	97.29	152.477	-1,396.75	7,085.71	1,991.71	1,845.74	145.97	13.645	
15,400.00	8,418.00	14,624.49	10,175.00	148.82	98.87	152.478	-1,396.51	7,164.58	1,991.71	1,843.94	147.77	13.478	
15,421.13	8,418.00	14,645.62	10,175.00	149.25	99.29	152.478	-1,396.45	7,185.71	1,991.71	1,843.46	148.25	13.435	
15,500.00	8,418.00	14,724.49	10,175.00	150.86	100.87	152.478	-1,396.21	7,264.58	1,991.71	1,841.65	150.06	13.273	
15,521.13	8,418.00	14,745.62	10,175.00	151.29	101.30	152.478	-1,396.15	7,285.71	1,991.71	1,841.17	150.54	13.231	
15,600.00	8,418.00	14,824.49	10,175.00	152.90	102.88	152.478	-1,395.92	7,364.58	1,991.71	1,839.36	152.34	13.074	
15,621.13	8,418.00	14,845.62	10,175.00	153.34	103.30	152.478	-1,395.85	7,385.71	1,991.71	1,838.88	152.83	13.032	
15,700.00	8,418.00	14,924.49	10,175.00	154.95	104.89	152.478	-1,395.62	7,464.58	1,991.70	1,837.07	154.63	12.880	
15,721.13	8,418.00	14,945.62	10,175.00	155.38	105.31	152.478	-1,395.55	7,485.71	1,991.70	1,836.58	155.12	12.840	
15,800.00	8,418.00	15,024.49	10,175.00	157.00	106.90	152.478	-1,395.32	7,564.58	1,991.70	1,834.77	156.93	12.692	
15,821.13	8,418.00	15,045.62	10,175.00	157.43	107.32	152.478	-1,395.26	7,585.71	1,991.70	1,834.29	157.41	12.653	
15,900.00	8,418.00	15,124.49	10,175.00	159.04	108.91	152.478	-1,395.02	7,664.57	1,991.70	1,832.48	159.22	12.509	
15,921.13	8,418.00	15,145.62	10,175.00	159.48	109.34	152.478	-1,394.96	7,685.71	1,991.70	1,831.99	159.71	12.471	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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 Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,000.00	8,418.00	15,224.49	10,175.00	161.09	110.93	152.478	-1,394.72	7,764.57	1,991.70	1,830.17	161.52	12.331	
16,021.13	8,418.00	15,245.62	10,175.00	161.52	111.35	152.478	-1,394.66	7,785.71	1,991.70	1,829.69	162.01	12.294	
16,100.00	8,418.00	15,324.49	10,175.00	163.14	112.94	152.479	-1,394.42	7,864.57	1,991.69	1,827.87	163.82	12.158	
16,121.13	8,418.00	15,345.62	10,175.00	163.57	113.37	152.479	-1,394.36	7,885.71	1,991.69	1,827.38	164.31	12.122	
16,200.00	8,418.00	15,424.49	10,175.00	165.19	114.96	152.479	-1,394.13	7,964.57	1,991.69	1,825.57	166.12	11.989	
16,221.13	8,418.00	15,445.62	10,175.00	165.62	115.39	152.479	-1,394.06	7,985.71	1,991.69	1,825.08	166.61	11.954	
16,300.00	8,418.00	15,524.49	10,175.00	167.24	116.98	152.479	-1,393.83	8,064.57	1,991.69	1,823.26	168.43	11.825	
16,321.13	8,418.00	15,545.62	10,175.00	167.67	117.41	152.479	-1,393.77	8,085.71	1,991.69	1,822.77	168.92	11.791	
16,400.00	8,418.00	15,624.49	10,175.00	169.28	119.00	152.479	-1,393.53	8,164.57	1,991.69	1,820.95	170.74	11.665	
16,421.13	8,418.00	15,645.62	10,175.00	169.72	119.43	152.479	-1,393.47	8,185.71	1,991.69	1,820.46	171.22	11.632	
16,500.00	8,418.00	15,724.49	10,175.00	171.33	121.03	152.479	-1,393.23	8,264.57	1,991.68	1,818.64	173.04	11.510	
16,521.13	8,418.00	15,745.62	10,175.00	171.77	121.46	152.479	-1,393.17	8,285.71	1,991.68	1,818.15	173.53	11.477	
16,600.00	8,418.00	15,824.49	10,175.00	173.39	123.05	152.479	-1,392.93	8,364.57	1,991.68	1,816.33	175.35	11.358	
16,621.13	8,418.00	15,845.62	10,175.00	173.82	123.48	152.479	-1,392.87	8,385.70	1,991.68	1,815.84	175.84	11.326	
16,700.00	8,418.00	15,924.49	10,175.00	175.44	125.08	152.479	-1,392.64	8,464.57	1,991.68	1,814.01	177.67	11.210	
16,721.13	8,418.00	15,945.62	10,175.00	175.87	125.51	152.479	-1,392.57	8,485.70	1,991.68	1,813.52	178.16	11.179	
16,800.00	8,418.00	16,024.49	10,175.00	177.49	127.11	152.480	-1,392.34	8,564.57	1,991.68	1,811.69	179.98	11.066	
16,821.13	8,418.00	16,045.62	10,175.00	177.92	127.54	152.480	-1,392.27	8,585.70	1,991.67	1,811.21	180.47	11.036	
16,900.00	8,418.00	16,124.49	10,175.00	179.54	129.14	152.480	-1,392.04	8,664.57	1,991.67	1,809.38	182.30	10.926	
16,921.13	8,418.00	16,145.62	10,175.00	179.97	129.57	152.480	-1,391.98	8,685.70	1,991.67	1,808.89	182.79	10.896	
17,000.00	8,418.00	16,224.49	10,175.00	181.59	131.17	152.480	-1,391.74	8,764.57	1,991.67	1,807.06	184.61	10.788	
17,021.13	8,418.00	16,245.62	10,175.00	182.02	131.60	152.480	-1,391.68	8,785.70	1,991.67	1,806.57	185.10	10.760	
17,100.00	8,418.00	16,324.49	10,175.00	183.64	133.20	152.480	-1,391.44	8,864.57	1,991.67	1,804.74	186.93	10.655	
17,121.13	8,418.00	16,345.62	10,175.00	184.08	133.63	152.480	-1,391.38	8,885.70	1,991.67	1,804.25	187.42	10.627	
17,200.00	8,418.00	16,424.49	10,175.00	185.70	135.23	152.480	-1,391.14	8,964.57	1,991.66	1,802.41	189.25	10.524	
17,221.13	8,418.00	16,445.62	10,175.00	186.13	135.66	152.480	-1,391.08	8,985.70	1,991.66	1,801.92	189.74	10.497	
17,300.00	8,418.00	16,524.49	10,175.00	187.75	137.27	152.480	-1,390.85	9,064.57	1,991.66	1,800.09	191.57	10.396	
17,321.13	8,418.00	16,545.62	10,175.00	188.18	137.70	152.480	-1,390.78	9,085.70	1,991.66	1,799.60	192.06	10.370	
17,400.00	8,418.00	16,624.49	10,175.00	189.80	139.30	152.480	-1,390.55	9,164.57	1,991.66	1,797.77	193.89	10.272	
17,421.13	8,418.00	16,645.62	10,175.00	190.24	139.73	152.481	-1,390.48	9,185.70	1,991.66	1,797.27	194.38	10.246	
17,500.00	8,418.00	16,724.49	10,175.00	191.86	141.34	152.481	-1,390.25	9,264.57	1,991.66	1,795.44	196.22	10.150	
17,521.13	8,418.00	16,745.62	10,175.00	192.29	141.77	152.481	-1,390.19	9,285.70	1,991.66	1,794.95	196.71	10.125	
17,600.00	8,418.00	16,824.49	10,175.00	193.91	143.38	152.481	-1,389.95	9,364.57	1,991.65	1,793.11	198.54	10.031	
17,621.13	8,418.00	16,845.62	10,175.00	194.35	143.81	152.481	-1,389.89	9,385.70	1,991.65	1,792.62	199.03	10.007	
17,700.00	8,418.00	16,924.49	10,175.00	195.97	145.41	152.481	-1,389.65	9,464.57	1,991.65	1,790.78	200.87	9.915	
17,721.13	8,418.00	16,945.62	10,175.00	196.40	145.85	152.481	-1,389.59	9,485.70	1,991.65	1,790.29	201.36	9.891	
17,800.00	8,418.00	17,024.49	10,175.00	198.02	147.45	152.481	-1,389.35	9,564.57	1,991.65	1,788.45	203.20	9.802	
17,821.13	8,418.00	17,045.62	10,175.00	198.46	147.89	152.481	-1,389.29	9,585.70	1,991.65	1,787.96	203.69	9.778	
17,900.00	8,418.00	17,124.49	10,175.00	200.08	149.49	152.481	-1,389.06	9,664.57	1,991.65	1,786.12	205.52	9.691	
17,921.13	8,418.00	17,145.62	10,175.00	200.51	149.93	152.481	-1,388.99	9,685.70	1,991.65	1,785.63	206.02	9.667	
18,000.00	8,418.00	17,224.49	10,175.00	202.13	151.53	152.481	-1,388.76	9,764.57	1,991.64	1,783.79	207.85	9.582	
18,021.13	8,418.00	17,245.62	10,175.00	202.57	151.97	152.481	-1,388.70	9,785.70	1,991.64	1,783.30	208.34	9.559	
18,100.00	8,418.00	17,324.49	10,175.00	204.19	153.58	152.481	-1,388.46	9,864.56	1,991.64	1,781.46	210.18	9.476	
18,121.13	8,418.00	17,345.62	10,175.00	204.62	154.01	152.482	-1,388.40	9,885.70	1,991.64	1,780.96	210.68	9.454	
18,200.00	8,418.00	17,424.49	10,175.00	206.24	155.62	152.482	-1,388.16	9,964.56	1,991.64	1,779.12	212.51	9.372	
18,221.13	8,418.00	17,445.62	10,175.00	206.68	156.05	152.482	-1,388.10	9,985.70	1,991.64	1,778.63	213.01	9.350	
18,300.00	8,418.00	17,524.49	10,175.00	208.30	157.66	152.482	-1,387.86	10,064.56	1,991.64	1,776.79	214.85	9.270	
18,321.13	8,418.00	17,545.62	10,175.00	208.74	158.09	152.482	-1,387.80	10,085.70	1,991.63	1,776.30	215.34	9.249	
18,400.00	8,418.00	17,624.49	10,175.00	210.36	159.70	152.482	-1,387.57	10,164.56	1,991.63	1,774.45	217.18	9.170	
18,421.13	8,418.00	17,645.62	10,175.00	210.79	160.14	152.482	-1,387.50	10,185.70	1,991.63	1,773.96	217.67	9.150	
18,500.00	8,418.00	17,724.49	10,175.00	212.41	161.75	152.482	-1,387.27	10,264.56	1,991.63	1,772.12	219.51	9.073	
18,521.13	8,418.00	17,745.62	10,175.00	212.85	162.18	152.482	-1,387.20	10,285.70	1,991.63	1,771.62	220.01	9.053	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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						Rule Assigned:					Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
18,600.00	8,418.00	17,824.49	10,175.00	214.47	163.79	152.482	-1,386.97	10,364.56	1,991.63	1,769.78	221.85	8.977		
18,621.13	8,418.00	17,845.62	10,175.00	214.91	164.23	152.482	-1,386.91	10,385.70	1,991.63	1,769.29	222.34	8.958		
18,700.00	8,418.00	17,924.49	10,175.00	216.53	165.84	152.482	-1,386.67	10,464.56	1,991.62	1,767.44	224.18	8.884		
18,721.13	8,418.00	17,945.62	10,175.00	216.96	166.27	152.482	-1,386.61	10,485.70	1,991.62	1,766.95	224.68	8.864		
18,800.00	8,418.00	18,024.49	10,175.00	218.59	167.89	152.483	-1,386.37	10,564.56	1,991.62	1,765.10	226.52	8.792		
18,821.13	8,418.00	18,045.62	10,175.00	219.02	168.32	152.483	-1,386.31	10,585.69	1,991.62	1,764.61	227.01	8.773		
18,900.00	8,418.00	18,124.49	10,175.00	220.64	169.93	152.483	-1,386.07	10,664.56	1,991.62	1,762.76	228.86	8.702		
18,921.13	8,418.00	18,145.62	10,175.00	221.08	170.36	152.483	-1,386.01	10,685.69	1,991.62	1,762.27	229.35	8.684		
19,000.00	8,418.00	18,224.49	10,175.00	222.70	171.98	152.483	-1,385.78	10,764.56	1,991.62	1,760.42	231.19	8.614		
19,021.13	8,418.00	18,245.62	10,175.00	223.14	172.41	152.483	-1,385.71	10,785.69	1,991.62	1,759.93	231.69	8.596		
19,100.00	8,418.00	18,324.49	10,175.00	224.76	174.03	152.483	-1,385.48	10,864.56	1,991.61	1,758.08	233.53	8.528		
19,121.13	8,418.00	18,345.62	10,175.00	225.20	174.46	152.483	-1,385.42	10,885.69	1,991.61	1,757.59	234.03	8.510		
19,200.00	8,418.00	18,424.49	10,175.00	226.82	176.08	152.483	-1,385.18	10,964.56	1,991.61	1,755.74	235.87	8.444		
19,221.13	8,418.00	18,445.62	10,175.00	227.26	176.51	152.483	-1,385.12	10,985.69	1,991.61	1,755.24	236.37	8.426		
19,300.00	8,418.00	18,524.49	10,175.00	228.88	178.12	152.483	-1,384.88	11,064.56	1,991.61	1,753.40	238.21	8.361		
19,321.13	8,418.00	18,545.62	10,175.00	229.31	178.56	152.483	-1,384.82	11,085.69	1,991.61	1,752.90	238.71	8.343		
19,400.00	8,418.00	18,624.49	10,175.00	230.94	180.17	152.483	-1,384.58	11,164.56	1,991.61	1,751.05	240.55	8.279		
19,421.13	8,418.00	18,645.62	10,175.00	231.37	180.61	152.483	-1,384.52	11,185.69	1,991.61	1,750.56	241.05	8.262		
19,500.00	8,418.00	18,724.49	10,175.00	233.00	182.22	152.484	-1,384.29	11,264.56	1,991.60	1,748.71	242.89	8.199		
19,521.13	8,418.00	18,745.62	10,175.00	233.43	182.66	152.484	-1,384.22	11,285.69	1,991.60	1,748.21	243.39	8.183		
19,600.00	8,418.00	18,824.49	10,175.00	235.06	184.27	152.484	-1,383.99	11,364.56	1,991.60	1,746.36	245.24	8.121		
19,621.13	8,418.00	18,845.62	10,175.00	235.49	184.71	152.484	-1,383.92	11,385.69	1,991.60	1,745.87	245.73	8.105		
19,700.00	8,418.00	18,924.49	10,175.00	237.12	186.32	152.484	-1,383.69	11,464.56	1,991.60	1,744.02	247.58	8.044		
19,721.13	8,418.00	18,945.62	10,175.00	237.55	186.76	152.484	-1,383.63	11,485.69	1,991.60	1,743.52	248.07	8.028		
19,800.00	8,418.00	19,024.49	10,175.00	239.18	188.37	152.484	-1,383.39	11,564.56	1,991.60	1,741.67	249.92	7.969		
19,821.13	8,418.00	19,045.62	10,175.00	239.61	188.81	152.484	-1,383.33	11,585.69	1,991.60	1,741.18	250.42	7.953		
19,900.00	8,418.00	19,124.49	10,175.00	241.24	190.43	152.484	-1,383.09	11,664.56	1,991.59	1,739.33	252.27	7.895		
19,921.13	8,418.00	19,145.62	10,175.00	241.67	190.86	152.484	-1,383.03	11,685.69	1,991.59	1,738.83	252.76	7.879		
20,000.00	8,418.00	19,224.49	10,175.00	243.30	192.48	152.484	-1,382.79	11,764.56	1,991.59	1,736.98	254.61	7.822		
20,021.13	8,418.00	19,245.62	10,175.00	243.73	192.91	152.484	-1,382.73	11,785.69	1,991.59	1,736.48	255.11	7.807		
20,100.00	8,418.00	19,324.49	10,175.00	245.36	194.53	152.484	-1,382.50	11,864.56	1,991.59	1,734.63	256.95	7.751		
20,121.13	8,418.00	19,345.62	10,175.00	245.79	194.96	152.484	-1,382.43	11,885.69	1,991.59	1,734.14	257.45	7.736		
20,200.00	8,418.00	19,424.49	10,175.00	247.42	196.58	152.485	-1,382.20	11,964.56	1,991.59	1,732.29	259.30	7.681		
20,221.13	8,418.00	19,445.62	10,175.00	247.85	197.02	152.485	-1,382.13	11,985.69	1,991.58	1,731.79	259.80	7.666		
20,300.00	8,418.00	19,524.49	10,175.00	249.48	198.64	152.485	-1,381.90	12,064.56	1,991.58	1,729.94	261.65	7.612		
20,321.13	8,418.00	19,545.62	10,175.00	249.91	199.07	152.485	-1,381.84	12,085.69	1,991.58	1,729.44	262.14	7.597		
20,400.00	8,418.00	19,624.49	10,175.00	251.54	200.69	152.485	-1,381.60	12,164.55	1,991.58	1,727.59	263.99	7.544		
20,421.13	8,418.00	19,645.62	10,175.00	251.97	201.12	152.485	-1,381.54	12,185.69	1,991.58	1,727.09	264.49	7.530		
20,500.00	8,418.00	19,724.49	10,175.00	253.60	202.74	152.485	-1,381.30	12,264.55	1,991.58	1,725.24	266.34	7.478		
20,521.13	8,418.00	19,745.62	10,175.00	254.03	203.18	152.485	-1,381.24	12,285.69	1,991.58	1,724.74	266.83	7.464		
20,600.00	8,418.00	19,824.49	10,175.00	255.66	204.80	152.485	-1,381.00	12,364.55	1,991.57	1,722.89	268.69	7.412		
20,621.13	8,418.00	19,845.62	10,175.00	256.09	205.23	152.485	-1,380.94	12,385.69	1,991.57	1,722.39	269.18	7.399		
20,700.00	8,418.00	19,924.49	10,175.00	257.72	206.85	152.485	-1,380.71	12,464.55	1,991.57	1,720.54	271.03	7.348		
20,721.13	8,418.00	19,945.62	10,175.00	258.16	207.28	152.485	-1,380.64	12,485.69	1,991.57	1,720.04	271.53	7.335		
20,800.00	8,418.00	20,024.49	10,175.00	259.78	208.90	152.485	-1,380.41	12,564.55	1,991.57	1,718.19	273.38	7.285		
20,821.13	8,418.00	20,045.62	10,175.00	260.22	209.34	152.485	-1,380.35	12,585.69	1,991.57	1,717.69	273.88	7.272		
20,900.00	8,418.00	20,124.49	10,175.00	261.84	210.96	152.486	-1,380.11	12,664.55	1,991.57	1,715.84	275.73	7.223		
20,921.13	8,418.00	20,145.62	10,175.00	262.28	211.39	152.486	-1,380.05	12,685.69	1,991.57	1,715.34	276.23	7.210		
21,000.00	8,418.00	20,224.49	10,175.00	263.90	213.01	152.486	-1,379.81	12,764.55	1,991.56	1,713.49	278.08	7.162		
21,021.13	8,418.00	20,245.62	10,175.00	264.34	213.45	152.486	-1,379.75	12,785.69	1,991.56	1,712.99	278.57	7.149		
21,100.00	8,418.00	20,324.49	10,175.00	265.97	215.07	152.486	-1,379.51	12,864.55	1,991.56	1,711.13	280.43	7.102		
21,121.13	8,418.00	20,345.62	10,175.00	266.40	215.50	152.486	-1,379.45	12,885.68	1,991.56	1,710.64	280.92	7.089		

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	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	
21,200.00	8,418.00	20,424.49	10,175.00	268.03	217.13	152.486	-1,379.22	12,964.55	1,991.56	1,708.78	282.78	7.043	
21,221.13	8,418.00	20,445.62	10,175.00	268.46	217.56	152.486	-1,379.15	12,985.68	1,991.56	1,708.28	283.27	7.031	
21,300.00	8,418.00	20,524.49	10,175.00	270.09	219.18	152.486	-1,378.92	13,064.55	1,991.56	1,706.43	285.13	6.985	
21,321.13	8,418.00	20,545.62	10,175.00	270.53	219.62	152.486	-1,378.85	13,085.68	1,991.56	1,705.93	285.62	6.973	
21,400.00	8,418.00	20,624.49	10,175.00	272.15	221.24	152.486	-1,378.62	13,164.55	1,991.55	1,704.08	287.48	6.928	
21,421.13	8,418.00	20,645.62	10,175.00	272.59	221.67	152.486	-1,378.56	13,185.68	1,991.55	1,703.58	287.97	6.916	
21,500.00	8,418.00	20,724.49	10,175.00	274.21	223.29	152.486	-1,378.32	13,264.55	1,991.55	1,701.72	289.83	6.871	
21,521.13	8,418.00	20,745.62	10,175.00	274.65	223.73	152.487	-1,378.26	13,285.68	1,991.55	1,701.22	290.33	6.860	
21,600.00	8,418.00	20,824.49	10,175.00	276.28	225.35	152.487	-1,378.02	13,364.55	1,991.55	1,699.37	292.18	6.816	
21,621.13	8,418.00	20,845.62	10,175.00	276.71	225.79	152.487	-1,377.96	13,385.68	1,991.55	1,698.87	292.68	6.805	
21,700.00	8,418.00	20,924.49	10,175.00	278.34	227.41	152.487	-1,377.72	13,464.55	1,991.55	1,697.01	294.53	6.762	
21,721.13	8,418.00	20,945.62	10,175.00	278.78	227.84	152.487	-1,377.66	13,485.68	1,991.54	1,696.52	295.03	6.750	
21,800.00	8,418.00	21,024.49	10,175.00	280.40	229.46	152.487	-1,377.43	13,564.55	1,991.54	1,694.66	296.88	6.708	
21,803.98	8,418.00	21,028.47	10,175.00	280.48	229.55	152.487	-1,377.41	13,568.52	1,991.54	1,694.57	296.98	6.706	
21,818.82	8,418.00	21,043.31	10,175.00	280.79	229.85	152.487	-1,377.37	13,583.36	1,991.54	1,694.22	297.32	6.698 SF	

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

Dixon Directional

Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Reference 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		
9,600.00	8,418.00	8,100.00	8,055.71	35.78	25.82	77.801	-2,126.29	2,556.68	2,054.27	2,007.21	47.06	43.652			
9,700.00	8,418.00	8,115.50	8,070.04	37.36	25.91	78.274	-2,125.25	2,562.48	1,997.86	1,949.26	48.59	41.113			
9,800.00	8,418.00	8,131.94	8,085.07	38.98	26.00	78.772	-2,124.07	2,569.05	1,944.64	1,894.40	50.24	38.705			
9,900.00	8,418.00	8,150.00	8,101.34	40.65	26.10	79.313	-2,122.69	2,576.75	1,894.83	1,842.82	52.00	36.437			
10,000.00	8,418.00	8,172.33	8,121.11	42.35	26.22	79.973	-2,120.85	2,586.96	1,848.60	1,794.72	53.88	34.311			
10,100.00	8,418.00	8,200.00	8,145.03	44.08	26.38	80.776	-2,118.40	2,600.66	1,806.12	1,750.28	55.85	32.340			
10,200.00	8,418.00	8,226.60	8,167.36	45.84	26.52	81.530	-2,115.85	2,614.88	1,767.49	1,709.57	57.93	30.513			
10,300.00	8,418.00	8,260.98	8,195.19	47.63	26.71	82.476	-2,112.28	2,634.74	1,732.77	1,672.68	60.09	28.838			
10,400.00	8,418.00	8,300.00	8,225.24	49.44	26.91	83.504	-2,107.89	2,659.23	1,701.88	1,639.55	62.33	27.305			
10,500.00	8,418.00	8,350.00	8,261.15	51.27	27.16	84.742	-2,101.75	2,693.45	1,674.66	1,610.01	64.65	25.904			
10,600.00	8,418.00	8,407.65	8,298.61	53.11	27.42	86.046	-2,094.02	2,736.55	1,650.75	1,583.70	67.05	24.620			
10,700.00	8,418.00	8,475.74	8,336.91	54.97	27.69	87.393	-2,084.09	2,791.91	1,629.62	1,560.08	69.54	23.434			
10,800.00	8,418.00	8,555.02	8,372.74	56.85	27.95	88.668	-2,071.61	2,861.46	1,610.55	1,538.39	72.15	22.322			
10,900.00	8,418.00	8,644.73	8,401.09	58.74	28.17	89.691	-2,056.60	2,945.14	1,592.70	1,517.76	74.94	21.252			
11,000.00	8,418.00	8,741.94	8,416.44	60.64	28.29	90.255	-2,039.67	3,039.50	1,575.33	1,497.38	77.95	20.210			
11,100.00	8,418.00	8,820.99	8,418.00	62.55	28.32	90.315	-2,025.95	3,117.32	1,558.33	1,477.30	81.03	19.231			
11,200.00	8,418.00	8,900.00	8,418.00	64.47	28.34	90.318	-2,014.08	3,195.42	1,543.44	1,459.23	84.21	18.330			
11,300.00	8,418.00	8,949.69	8,418.00	66.40	28.35	90.319	-2,007.71	3,244.71	1,530.55	1,443.33	87.23	17.547			
11,400.00	8,418.00	9,000.00	8,418.00	68.34	28.37	90.320	-2,002.14	3,294.70	1,520.13	1,429.90	90.22	16.848			
11,500.00	8,418.00	9,079.76	8,418.00	70.29	28.41	90.321	-1,995.11	3,374.15	1,511.75	1,418.20	93.55	16.160			
11,600.00	8,418.00	9,145.15	8,418.00	72.24	28.46	90.322	-1,991.00	3,439.41	1,505.75	1,409.02	96.73	15.566			
11,700.00	8,418.00	9,200.00	8,418.00	74.20	28.53	90.323	-1,988.70	3,494.21	1,502.09	1,402.33	99.76	15.057			
11,800.00	8,418.00	9,284.23	8,418.00	76.17	28.75	90.323	-1,987.21	3,578.42	1,500.64	1,397.45	103.19	14.542			
11,829.25	8,418.00	9,301.38	8,418.00	76.74	28.83	90.323	-1,987.16	3,595.57	1,500.59	1,396.50	104.08	14.417			
11,900.00	8,418.00	9,372.13	8,418.00	78.14	29.34	90.323	-1,986.95	3,666.32	1,500.58	1,393.88	106.71	14.063			
11,921.43	8,418.00	9,393.56	8,418.00	78.56	29.57	90.323	-1,986.88	3,687.75	1,500.58	1,393.08	107.50	13.959			
12,000.00	8,418.00	9,472.13	8,418.00	80.11	30.64	90.323	-1,986.65	3,766.32	1,500.58	1,390.13	110.44	13.587			
12,021.43	8,418.00	9,493.56	8,418.00	80.54	30.97	90.323	-1,986.58	3,787.75	1,500.58	1,389.33	111.25	13.488			
12,100.00	8,418.00	9,572.13	8,418.00	82.09	32.28	90.323	-1,986.35	3,866.32	1,500.57	1,386.35	114.22	13.137			
12,121.43	8,418.00	9,593.56	8,418.00	82.52	32.65	90.323	-1,986.28	3,887.75	1,500.57	1,385.53	115.04	13.044			
12,200.00	8,418.00	9,672.13	8,418.00	84.08	34.05	90.323	-1,986.05	3,966.32	1,500.57	1,382.53	118.04	12.712			
12,221.43	8,418.00	9,693.56	8,418.00	84.50	34.44	90.323	-1,985.99	3,987.75	1,500.57	1,381.71	118.86	12.625			
12,300.00	8,418.00	9,772.13	8,418.00	86.07	35.88	90.323	-1,985.75	4,066.32	1,500.56	1,378.68	121.89	12.311			
12,321.43	8,418.00	9,793.56	8,418.00	86.49	36.28	90.323	-1,985.69	4,087.75	1,500.56	1,377.85	122.71	12.228			
12,400.00	8,418.00	9,872.13	8,418.00	88.06	37.74	90.323	-1,985.45	4,166.32	1,500.56	1,374.80	125.76	11.932			
12,421.43	8,418.00	9,893.56	8,418.00	88.49	38.15	90.323	-1,985.39	4,187.75	1,500.56	1,373.97	126.59	11.854			
12,500.00	8,418.00	9,972.13	8,418.00	90.05	39.64	90.323	-1,985.16	4,266.32	1,500.55	1,370.90	129.65	11.574			
12,521.43	8,418.00	9,993.56	8,418.00	90.48	40.04	90.323	-1,985.09	4,287.75	1,500.55	1,370.06	130.49	11.500			
12,600.00	8,418.00	10,072.13	8,418.00	92.05	41.55	90.323	-1,984.86	4,366.32	1,500.54	1,366.98	133.56	11.235			
12,621.43	8,418.00	10,093.56	8,418.00	92.48	41.96	90.323	-1,984.79	4,387.75	1,500.54	1,366.14	134.40	11.164			
12,700.00	8,418.00	10,172.13	8,418.00	94.06	43.47	90.323	-1,984.56	4,466.32	1,500.54	1,363.04	137.49	10.913			
12,721.43	8,418.00	10,193.56	8,418.00	94.48	43.89	90.323	-1,984.50	4,487.75	1,500.54	1,362.20	138.34	10.847			
12,800.00	8,418.00	10,272.13	8,418.00	96.06	45.41	90.323	-1,984.26	4,566.32	1,500.53	1,359.09	141.44	10.609			
12,821.43	8,418.00	10,293.56	8,418.00	96.49	45.83	90.323	-1,984.20	4,587.75	1,500.53	1,358.24	142.29	10.546			
12,900.00	8,418.00	10,372.13	8,418.00	98.07	47.37	90.323	-1,983.96	4,666.32	1,500.53	1,355.13	145.40	10.320			
12,921.43	8,418.00	10,393.56	8,418.00	98.50	47.78	90.323	-1,983.90	4,687.74	1,500.53	1,354.28	146.25	10.260			
13,000.00	8,418.00	10,472.13	8,418.00	100.08	49.33	90.323	-1,983.66	4,766.32	1,500.52	1,351.15	149.37	10.045			
13,021.43	8,418.00	10,493.56	8,418.00	100.51	49.75	90.323	-1,983.60	4,787.74	1,500.52	1,350.30	150.22	9.989			
13,100.00	8,418.00	10,572.13	8,418.00	102.09	51.30	90.323	-1,983.37	4,866.32	1,500.52	1,347.16	153.36	9.785			
13,121.43	8,418.00	10,593.56	8,418.00	102.52	51.72	90.323	-1,983.30	4,887.74	1,500.51	1,346.31	154.21	9.730			
13,200.00	8,418.00	10,672.13	8,418.00	104.11	53.28	90.323	-1,983.07	4,966.32	1,500.51	1,343.16	157.35	9.536			
13,221.43	8,418.00	10,693.56	8,418.00	104.54	53.70	90.323	-1,983.00	4,987.74	1,500.51	1,342.30	158.20	9.485			

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset		+N/-S	+E/-W	Between Centres	Between Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
13,300.00	8,418.00	10,772.13	8,418.00	106.12	55.26	90.323	-1,982.77	5,066.32	1,500.50	1,339.16	161.35	9.300	
13,321.43	8,418.00	10,793.56	8,418.00	106.56	55.69	90.323	-1,982.71	5,087.74	1,500.50	1,338.30	162.21	9.251	
13,400.00	8,418.00	10,872.13	8,418.00	108.14	57.25	90.323	-1,982.47	5,166.32	1,500.50	1,335.14	165.36	9.074	
13,421.43	8,418.00	10,893.56	8,418.00	108.57	57.68	90.323	-1,982.41	5,187.74	1,500.50	1,334.28	166.22	9.027	
13,500.00	8,418.00	10,972.13	8,418.00	110.16	59.25	90.323	-1,982.17	5,266.31	1,500.49	1,331.12	169.38	8.859	
13,521.43	8,418.00	10,993.56	8,418.00	110.60	59.68	90.323	-1,982.11	5,287.74	1,500.49	1,330.25	170.24	8.814	
13,600.00	8,418.00	11,072.13	8,418.00	112.19	61.25	90.323	-1,981.88	5,366.31	1,500.49	1,327.09	173.40	8.653	
13,621.43	8,418.00	11,093.56	8,418.00	112.62	61.68	90.323	-1,981.81	5,387.74	1,500.49	1,326.22	174.26	8.611	
13,700.00	8,418.00	11,172.13	8,418.00	114.21	63.26	90.323	-1,981.58	5,466.31	1,500.48	1,323.05	177.43	8.457	
13,721.43	8,418.00	11,193.56	8,418.00	114.64	63.69	90.323	-1,981.51	5,487.74	1,500.48	1,322.19	178.29	8.416	
13,800.00	8,418.00	11,272.13	8,418.00	116.24	65.27	90.323	-1,981.28	5,566.31	1,500.48	1,319.01	181.46	8.269	
13,821.43	8,418.00	11,293.56	8,418.00	116.67	65.70	90.323	-1,981.22	5,587.74	1,500.47	1,318.15	182.33	8.229	
13,900.00	8,418.00	11,372.13	8,418.00	118.26	67.28	90.323	-1,980.98	5,666.31	1,500.47	1,314.97	185.51	8.089	
13,921.43	8,418.00	11,393.56	8,418.00	118.70	67.72	90.323	-1,980.92	5,687.74	1,500.47	1,314.10	186.37	8.051	
14,000.00	8,418.00	11,472.13	8,418.00	120.29	69.30	90.323	-1,980.68	5,766.31	1,500.46	1,310.91	189.55	7.916	
14,021.43	8,418.00	11,493.56	8,418.00	120.73	69.73	90.323	-1,980.62	5,787.74	1,500.46	1,310.05	190.42	7.880	
14,100.00	8,418.00	11,572.13	8,418.00	122.32	71.32	90.323	-1,980.38	5,866.31	1,500.46	1,306.86	193.60	7.750	
14,121.43	8,418.00	11,593.56	8,418.00	122.76	71.75	90.323	-1,980.32	5,887.74	1,500.46	1,305.99	194.47	7.716	
14,200.00	8,418.00	11,672.13	8,418.00	124.35	73.34	90.323	-1,980.09	5,966.31	1,500.45	1,302.80	197.65	7.591	
14,221.43	8,418.00	11,693.56	8,418.00	124.79	73.78	90.323	-1,980.02	5,987.74	1,500.45	1,301.93	198.52	7.558	
14,300.00	8,418.00	11,772.13	8,418.00	126.39	75.37	90.323	-1,979.79	6,066.31	1,500.45	1,298.74	201.71	7.439	
14,321.43	8,418.00	11,793.56	8,418.00	126.82	75.80	90.323	-1,979.72	6,087.74	1,500.45	1,297.86	202.58	7.407	
14,400.00	8,418.00	11,872.13	8,418.00	128.42	77.40	90.323	-1,979.49	6,166.31	1,500.44	1,294.67	205.77	7.292	
14,421.43	8,418.00	11,893.56	8,418.00	128.86	77.83	90.323	-1,979.43	6,187.74	1,500.44	1,293.80	206.64	7.261	
14,500.00	8,418.00	11,972.13	8,418.00	130.46	79.43	90.323	-1,979.19	6,266.31	1,500.44	1,290.60	209.84	7.150	
14,521.43	8,418.00	11,993.56	8,418.00	130.89	79.86	90.323	-1,979.13	6,287.74	1,500.43	1,289.73	210.71	7.121	
14,600.00	8,418.00	12,072.13	8,418.00	132.49	81.46	90.323	-1,978.89	6,366.31	1,500.43	1,286.53	213.91	7.014	
14,621.43	8,418.00	12,093.56	8,418.00	132.93	81.89	90.323	-1,978.83	6,387.74	1,500.43	1,285.65	214.78	6.986	
14,700.00	8,418.00	12,172.13	8,418.00	134.53	83.49	90.323	-1,978.60	6,466.31	1,500.42	1,282.45	217.98	6.883	
14,721.43	8,418.00	12,193.56	8,418.00	134.97	83.93	90.323	-1,978.53	6,487.74	1,500.42	1,281.58	218.85	6.856	
14,800.00	8,418.00	12,272.13	8,418.00	136.57	85.53	90.323	-1,978.30	6,566.31	1,500.42	1,278.37	222.05	6.757	
14,821.43	8,418.00	12,293.56	8,418.00	137.00	85.96	90.323	-1,978.23	6,587.74	1,500.42	1,277.50	222.92	6.731	
14,900.00	8,418.00	12,372.13	8,418.00	138.61	87.56	90.323	-1,978.00	6,666.31	1,500.41	1,274.29	226.13	6.635	
14,921.43	8,418.00	12,393.56	8,418.00	139.04	88.00	90.323	-1,977.93	6,687.74	1,500.41	1,273.41	227.00	6.610	
15,000.00	8,418.00	12,472.13	8,418.00	140.65	89.60	90.323	-1,977.70	6,766.31	1,500.41	1,270.20	230.20	6.518	
15,021.43	8,418.00	12,493.56	8,418.00	141.08	90.04	90.323	-1,977.64	6,787.74	1,500.41	1,269.33	231.08	6.493	
15,100.00	8,418.00	12,572.13	8,418.00	142.69	91.64	90.323	-1,977.40	6,866.31	1,500.40	1,266.12	234.28	6.404	
15,121.43	8,418.00	12,593.56	8,418.00	143.13	92.08	90.323	-1,977.34	6,887.73	1,500.40	1,265.24	235.16	6.380	
15,200.00	8,418.00	12,672.13	8,418.00	144.73	93.68	90.323	-1,977.10	6,966.31	1,500.40	1,262.03	238.37	6.294	
15,221.43	8,418.00	12,693.56	8,418.00	145.17	94.12	90.323	-1,977.04	6,987.73	1,500.39	1,261.15	239.24	6.271	
15,300.00	8,418.00	12,772.13	8,418.00	146.77	95.73	90.323	-1,976.81	7,066.31	1,500.39	1,257.94	242.45	6.188	
15,321.43	8,418.00	12,793.56	8,418.00	147.21	96.16	90.323	-1,976.74	7,087.73	1,500.39	1,257.06	243.33	6.166	
15,400.00	8,418.00	12,872.13	8,418.00	148.82	97.77	90.323	-1,976.51	7,166.31	1,500.38	1,253.85	246.54	6.086	
15,421.43	8,418.00	12,893.56	8,418.00	149.25	98.21	90.323	-1,976.44	7,187.73	1,500.38	1,252.97	247.41	6.064	
15,500.00	8,418.00	12,972.13	8,418.00	150.86	99.81	90.323	-1,976.21	7,266.31	1,500.38	1,249.75	250.63	5.987	
15,521.43	8,418.00	12,993.56	8,418.00	151.30	100.25	90.323	-1,976.15	7,287.73	1,500.38	1,248.87	251.50	5.966	
15,600.00	8,418.00	13,072.13	8,418.00	152.90	101.86	90.323	-1,975.91	7,366.31	1,500.37	1,245.66	254.72	5.890	
15,621.43	8,418.00	13,093.56	8,418.00	153.34	102.30	90.323	-1,975.85	7,387.73	1,500.37	1,244.78	255.59	5.870	
15,700.00	8,418.00	13,172.13	8,418.00	154.95	103.91	90.323	-1,975.61	7,466.31	1,500.37	1,241.56	258.81	5.797	
15,721.43	8,418.00	13,193.56	8,418.00	155.39	104.35	90.323	-1,975.55	7,487.73	1,500.37	1,240.68	259.69	5.778	
15,800.00	8,418.00	13,272.13	8,418.00	157.00	105.95	90.323	-1,975.31	7,566.30	1,500.36	1,237.46	262.90	5.707	
15,821.43	8,418.00	13,293.56	8,418.00	157.43	106.39	90.323	-1,975.25	7,587.73	1,500.36	1,236.58	263.78	5.688	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset		+N/-S	+E/-W	Between Centres	Between Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
15,900.00	8,418.00	13,372.13	8,418.00	159.04	108.00	90.323	-1,975.02	7,666.30	1,500.36	1,233.36	267.00	5.619	
15,921.43	8,418.00	13,393.56	8,418.00	159.48	108.44	90.323	-1,974.95	7,687.73	1,500.35	1,232.48	267.87	5.601	
16,000.00	8,418.00	13,472.13	8,418.00	161.09	110.05	90.323	-1,974.72	7,766.30	1,500.35	1,229.26	271.09	5.534	
16,021.43	8,418.00	13,493.56	8,418.00	161.53	110.49	90.323	-1,974.65	7,787.73	1,500.35	1,228.38	271.97	5.517	
16,100.00	8,418.00	13,572.13	8,418.00	163.14	112.10	90.323	-1,974.42	7,866.30	1,500.34	1,225.15	275.19	5.452	
16,121.43	8,418.00	13,593.56	8,418.00	163.58	112.54	90.323	-1,974.36	7,887.73	1,500.34	1,224.27	276.07	5.435	
16,200.00	8,418.00	13,672.13	8,418.00	165.19	114.15	90.323	-1,974.12	7,966.30	1,500.34	1,221.05	279.29	5.372	
16,221.43	8,418.00	13,693.56	8,418.00	165.63	114.59	90.323	-1,974.06	7,987.73	1,500.34	1,220.17	280.17	5.355	
16,300.00	8,418.00	13,772.13	8,418.00	167.24	116.20	90.323	-1,973.82	8,066.30	1,500.33	1,216.94	283.39	5.294	
16,321.43	8,418.00	13,793.56	8,418.00	167.67	116.64	90.323	-1,973.76	8,087.73	1,500.33	1,216.06	284.27	5.278	
16,400.00	8,418.00	13,872.13	8,418.00	169.28	118.25	90.323	-1,973.53	8,166.30	1,500.33	1,212.84	287.49	5.219	
16,421.43	8,418.00	13,893.56	8,418.00	169.72	118.69	90.323	-1,973.46	8,187.73	1,500.33	1,211.96	288.37	5.203	
16,500.00	8,418.00	13,972.13	8,418.00	171.33	120.31	90.323	-1,973.23	8,266.30	1,500.32	1,208.73	291.59	5.145	
16,521.43	8,418.00	13,993.56	8,418.00	171.77	120.75	90.323	-1,973.16	8,287.73	1,500.32	1,207.85	292.47	5.130	
16,600.00	8,418.00	14,072.13	8,418.00	173.39	122.36	90.323	-1,972.93	8,366.30	1,500.32	1,204.62	295.70	5.074	
16,621.43	8,418.00	14,093.56	8,418.00	173.82	122.80	90.323	-1,972.87	8,387.73	1,500.31	1,203.74	296.58	5.059	
16,700.00	8,418.00	14,172.13	8,418.00	175.44	124.41	90.323	-1,972.63	8,466.30	1,500.31	1,200.51	299.80	5.004	
16,721.43	8,418.00	14,193.56	8,418.00	175.88	124.85	90.323	-1,972.57	8,487.73	1,500.31	1,199.63	300.68	4.990	
16,800.00	8,418.00	14,272.13	8,418.00	177.49	126.47	90.323	-1,972.33	8,566.30	1,500.30	1,196.40	303.91	4.937	
16,821.43	8,418.00	14,293.56	8,418.00	177.93	126.91	90.323	-1,972.27	8,587.73	1,500.30	1,195.52	304.79	4.922	
16,900.00	8,418.00	14,372.13	8,418.00	179.54	128.52	90.323	-1,972.03	8,666.30	1,500.30	1,192.29	308.01	4.871	
16,921.43	8,418.00	14,393.56	8,418.00	179.98	128.96	90.323	-1,971.97	8,687.73	1,500.30	1,191.40	308.89	4.857	
17,000.00	8,418.00	14,472.13	8,418.00	181.59	130.58	90.323	-1,971.74	8,766.30	1,500.29	1,188.17	312.12	4.807	
17,021.43	8,418.00	14,493.56	8,418.00	182.03	131.02	90.323	-1,971.67	8,787.73	1,500.29	1,187.29	313.00	4.793	
17,100.00	8,418.00	14,572.13	8,418.00	183.64	132.63	90.323	-1,971.44	8,866.30	1,500.29	1,184.06	316.23	4.744	
17,121.43	8,418.00	14,593.56	8,418.00	184.08	133.07	90.323	-1,971.37	8,887.73	1,500.29	1,183.18	317.11	4.731	
17,200.00	8,418.00	14,672.13	8,418.00	185.70	134.69	90.323	-1,971.14	8,966.30	1,500.28	1,179.94	320.34	4.683	
17,221.43	8,418.00	14,693.56	8,418.00	186.14	135.13	90.323	-1,971.08	8,987.73	1,500.28	1,179.06	321.22	4.671	
17,300.00	8,418.00	14,772.13	8,418.00	187.75	136.75	90.323	-1,970.84	9,066.30	1,500.28	1,175.83	324.45	4.624	
17,321.43	8,418.00	14,793.56	8,418.00	188.19	137.19	90.323	-1,970.78	9,087.73	1,500.27	1,174.95	325.33	4.612	
17,400.00	8,418.00	14,872.13	8,418.00	189.80	138.80	90.323	-1,970.54	9,166.30	1,500.27	1,171.71	328.56	4.566	
17,421.43	8,418.00	14,893.56	8,418.00	190.24	139.24	90.323	-1,970.48	9,187.72	1,500.27	1,170.83	329.44	4.554	
17,500.00	8,418.00	14,972.13	8,418.00	191.86	140.86	90.323	-1,970.25	9,266.30	1,500.26	1,167.60	332.67	4.510	
17,521.43	8,418.00	14,993.56	8,418.00	192.30	141.30	90.323	-1,970.18	9,287.72	1,500.26	1,166.71	333.55	4.498	
17,600.00	8,418.00	15,072.13	8,418.00	193.91	142.92	90.323	-1,969.95	9,366.30	1,500.26	1,163.48	336.78	4.455	
17,621.43	8,418.00	15,093.56	8,418.00	194.35	143.36	90.323	-1,969.88	9,387.72	1,500.26	1,162.60	337.66	4.443	
17,700.00	8,418.00	15,172.13	8,418.00	195.97	144.97	90.323	-1,969.65	9,466.30	1,500.25	1,159.36	340.89	4.401	
17,721.43	8,418.00	15,193.56	8,418.00	196.41	145.42	90.323	-1,969.59	9,487.72	1,500.25	1,158.48	341.77	4.390	
17,800.00	8,418.00	15,272.13	8,418.00	198.02	147.03	90.323	-1,969.35	9,566.30	1,500.25	1,155.24	345.01	4.348	
17,821.43	8,418.00	15,293.56	8,418.00	198.46	147.47	90.323	-1,969.29	9,587.72	1,500.25	1,154.36	345.89	4.337	
17,900.00	8,418.00	15,372.13	8,418.00	200.08	149.09	90.323	-1,969.05	9,666.30	1,500.24	1,151.12	349.12	4.297	
17,921.43	8,418.00	15,393.56	8,418.00	200.52	149.53	90.323	-1,968.99	9,687.72	1,500.24	1,150.24	350.00	4.286	
18,000.00	8,418.00	15,472.13	8,418.00	202.13	151.15	90.323	-1,968.75	9,766.29	1,500.24	1,147.00	353.24	4.247	
18,021.43	8,418.00	15,493.56	8,418.00	202.57	151.59	90.323	-1,968.69	9,787.72	1,500.23	1,146.12	354.12	4.237	
18,100.00	8,418.00	15,572.13	8,418.00	204.19	153.21	90.323	-1,968.46	9,866.29	1,500.23	1,142.88	357.35	4.198	
18,121.43	8,418.00	15,593.56	8,418.00	204.63	153.65	90.323	-1,968.39	9,887.72	1,500.23	1,142.00	358.23	4.188	
18,200.00	8,418.00	15,672.13	8,418.00	206.24	155.27	90.323	-1,968.16	9,966.29	1,500.22	1,138.76	361.47	4.150	
18,221.43	8,418.00	15,693.56	8,418.00	206.69	155.71	90.323	-1,968.09	9,987.72	1,500.22	1,137.88	362.35	4.140	
18,300.00	8,418.00	15,772.13	8,418.00	208.30	157.33	90.323	-1,967.86	10,066.29	1,500.22	1,134.64	365.58	4.104	
18,321.43	8,418.00	15,793.56	8,418.00	208.74	157.77	90.323	-1,967.80	10,087.72	1,500.22	1,133.75	366.46	4.094	
18,400.00	8,418.00	15,872.13	8,418.00	210.36	159.39	90.323	-1,967.56	10,166.29	1,500.21	1,130.51	369.70	4.058	
18,421.43	8,418.00	15,893.56	8,418.00	210.80	159.83	90.323	-1,967.50	10,187.72	1,500.21	1,129.63	370.58	4.048	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset		+N/-S	+E/-W	Between Centres	Between Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
18,500.00	8,418.00	15,972.13	8,418.00	212.41	161.45	90.323	-1,967.26	10,266.29	1,500.21	1,126.39	373.82	4.013	
18,521.43	8,418.00	15,993.56	8,418.00	212.86	161.89	90.323	-1,967.20	10,287.72	1,500.21	1,125.51	374.70	4.004	
18,600.00	8,418.00	16,072.13	8,418.00	214.47	163.51	90.323	-1,966.97	10,366.29	1,500.20	1,122.27	377.93	3.969	
18,621.43	8,418.00	16,093.56	8,418.00	214.91	163.95	90.323	-1,966.90	10,387.72	1,500.20	1,121.38	378.82	3.960	
18,700.00	8,418.00	16,172.13	8,418.00	216.53	165.57	90.323	-1,966.67	10,466.29	1,500.20	1,118.14	382.05	3.927	
18,721.43	8,418.00	16,193.56	8,418.00	216.97	166.01	90.323	-1,966.60	10,487.72	1,500.19	1,117.26	382.93	3.918	
18,800.00	8,418.00	16,272.13	8,418.00	218.59	167.63	90.323	-1,966.37	10,566.29	1,500.19	1,114.02	386.17	3.885	
18,821.43	8,418.00	16,293.56	8,418.00	219.03	168.07	90.323	-1,966.30	10,587.72	1,500.19	1,113.14	387.05	3.876	
18,900.00	8,418.00	16,372.13	8,418.00	220.64	169.69	90.323	-1,966.07	10,666.29	1,500.18	1,109.89	390.29	3.844	
18,921.43	8,418.00	16,393.56	8,418.00	221.09	170.13	90.323	-1,966.01	10,687.72	1,500.18	1,109.01	391.17	3.835	
19,000.00	8,418.00	16,472.13	8,418.00	222.70	171.75	90.323	-1,965.77	10,766.29	1,500.18	1,105.77	394.41	3.804	
19,021.43	8,418.00	16,493.56	8,418.00	223.14	172.19	90.323	-1,965.71	10,787.72	1,500.18	1,104.89	395.29	3.795	
19,100.00	8,418.00	16,572.13	8,418.00	224.76	173.81	90.323	-1,965.47	10,866.29	1,500.17	1,101.64	398.53	3.764	
19,121.43	8,418.00	16,593.56	8,418.00	225.20	174.26	90.323	-1,965.41	10,887.72	1,500.17	1,100.76	399.41	3.756	
19,200.00	8,418.00	16,672.13	8,418.00	226.82	175.88	90.323	-1,965.18	10,966.29	1,500.17	1,097.52	402.65	3.726	
19,221.43	8,418.00	16,693.56	8,418.00	227.26	176.32	90.323	-1,965.11	10,987.72	1,500.17	1,096.63	403.53	3.718	
19,300.00	8,418.00	16,772.13	8,418.00	228.88	177.94	90.323	-1,964.88	11,066.29	1,500.16	1,093.39	406.77	3.688	
19,321.43	8,418.00	16,793.56	8,418.00	229.32	178.38	90.323	-1,964.81	11,087.72	1,500.16	1,092.51	407.65	3.680	
19,400.00	8,418.00	16,872.13	8,418.00	230.94	180.00	90.323	-1,964.58	11,166.29	1,500.16	1,089.26	410.89	3.651	
19,421.43	8,418.00	16,893.56	8,418.00	231.38	180.44	90.323	-1,964.52	11,187.72	1,500.15	1,088.38	411.77	3.643	
19,500.00	8,418.00	16,972.13	8,418.00	233.00	182.06	90.323	-1,964.28	11,266.29	1,500.15	1,085.14	415.01	3.615	
19,521.43	8,418.00	16,993.56	8,418.00	233.44	182.50	90.323	-1,964.22	11,287.72	1,500.15	1,084.25	415.90	3.607	
19,600.00	8,418.00	17,072.13	8,418.00	235.06	184.12	90.323	-1,963.98	11,366.29	1,500.14	1,081.01	419.13	3.579	
19,621.43	8,418.00	17,093.56	8,418.00	235.50	184.57	90.323	-1,963.92	11,387.71	1,500.14	1,080.12	420.02	3.572	
19,700.00	8,418.00	17,172.13	8,418.00	237.12	186.19	90.323	-1,963.68	11,466.29	1,500.14	1,076.88	423.26	3.544	
19,721.43	8,418.00	17,193.56	8,418.00	237.56	186.63	90.323	-1,963.62	11,487.71	1,500.14	1,076.00	424.14	3.537	
19,800.00	8,418.00	17,272.13	8,418.00	239.18	188.25	90.323	-1,963.39	11,566.29	1,500.13	1,072.75	427.38	3.510	
19,821.43	8,418.00	17,293.56	8,418.00	239.62	188.69	90.323	-1,963.32	11,587.71	1,500.13	1,071.87	428.26	3.503	
19,900.00	8,418.00	17,372.13	8,418.00	241.24	190.31	90.323	-1,963.09	11,666.29	1,500.13	1,068.62	431.50	3.477	
19,921.43	8,418.00	17,393.56	8,418.00	241.68	190.75	90.323	-1,963.02	11,687.71	1,500.13	1,067.74	432.39	3.469	
20,000.00	8,418.00	17,472.13	8,418.00	243.30	192.38	90.323	-1,962.79	11,766.29	1,500.12	1,064.50	435.63	3.444	
20,021.43	8,418.00	17,493.56	8,418.00	243.74	192.82	90.323	-1,962.73	11,787.71	1,500.12	1,063.61	436.51	3.437	
20,100.00	8,418.00	17,572.13	8,418.00	245.36	194.44	90.323	-1,962.49	11,866.29	1,500.12	1,060.37	439.75	3.411	
20,121.43	8,418.00	17,593.56	8,418.00	245.80	194.88	90.323	-1,962.43	11,887.71	1,500.11	1,059.48	440.63	3.404	
20,200.00	8,418.00	17,672.13	8,418.00	247.42	196.50	90.323	-1,962.19	11,966.29	1,500.11	1,056.24	443.87	3.380	
20,221.43	8,418.00	17,693.56	8,418.00	247.86	196.94	90.323	-1,962.13	11,987.71	1,500.11	1,055.35	444.76	3.373	
20,300.00	8,418.00	17,772.13	8,418.00	249.48	198.57	90.323	-1,961.90	12,066.28	1,500.10	1,052.11	448.00	3.348	
20,321.43	8,418.00	17,793.56	8,418.00	249.92	199.01	90.323	-1,961.83	12,087.71	1,500.10	1,051.22	448.88	3.342	
20,400.00	8,418.00	17,872.13	8,418.00	251.54	200.63	90.323	-1,961.60	12,166.28	1,500.10	1,047.98	452.12	3.318	
20,421.43	8,418.00	17,893.56	8,418.00	251.98	201.07	90.323	-1,961.53	12,187.71	1,500.10	1,047.09	453.00	3.311	
20,500.00	8,418.00	17,972.13	8,418.00	253.60	202.69	90.323	-1,961.30	12,266.28	1,500.09	1,043.85	456.25	3.288	
20,521.43	8,418.00	17,993.56	8,418.00	254.04	203.13	90.323	-1,961.24	12,287.71	1,500.09	1,042.96	457.13	3.282	
20,600.00	8,418.00	18,072.13	8,418.00	255.66	204.76	90.323	-1,961.00	12,366.28	1,500.09	1,039.72	460.37	3.258	
20,621.43	8,418.00	18,093.56	8,418.00	256.10	205.20	90.323	-1,960.94	12,387.71	1,500.09	1,038.83	461.25	3.252	
20,700.00	8,418.00	18,172.13	8,418.00	257.72	206.82	90.323	-1,960.70	12,466.28	1,500.08	1,035.59	464.50	3.229	
20,721.43	8,418.00	18,193.56	8,418.00	258.16	207.26	90.323	-1,960.64	12,487.71	1,500.08	1,034.70	465.38	3.223	
20,800.00	8,418.00	18,272.13	8,418.00	259.78	208.88	90.323	-1,960.40	12,566.28	1,500.08	1,031.45	468.62	3.201	
20,821.43	8,418.00	18,293.56	8,418.00	260.22	209.33	90.323	-1,960.34	12,587.71	1,500.07	1,030.57	469.50	3.195	
20,900.00	8,418.00	18,372.13	8,418.00	261.84	210.95	90.323	-1,960.11	12,666.28	1,500.07	1,027.32	472.75	3.173	
20,921.43	8,418.00	18,393.56	8,418.00	262.28	211.39	90.323	-1,960.04	12,687.71	1,500.07	1,026.44	473.63	3.167	
21,000.00	8,418.00	18,472.13	8,418.00	263.90	213.01	90.323	-1,959.81	12,766.28	1,500.06	1,023.19	476.87	3.146	
21,021.43	8,418.00	18,493.56	8,418.00	264.35	213.46	90.323	-1,959.74	12,787.71	1,500.06	1,022.31	477.76	3.140	

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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
21,100.00	8,418.00	18,572.13	8,418.00	265.97	215.08	90.323	-1,959.51	12,866.28	1,500.06	1,019.06	481.00	3.119	
21,121.43	8,418.00	18,593.56	8,418.00	266.41	215.52	90.323	-1,959.45	12,887.71	1,500.06	1,018.17	481.88	3.113	
21,200.00	8,418.00	18,672.13	8,418.00	268.03	217.14	90.323	-1,959.21	12,966.28	1,500.05	1,014.93	485.12	3.092	
21,221.43	8,418.00	18,693.56	8,418.00	268.47	217.58	90.323	-1,959.15	12,987.71	1,500.05	1,014.04	486.01	3.086	
21,300.00	8,418.00	18,772.13	8,418.00	270.09	219.21	90.323	-1,958.91	13,066.28	1,500.05	1,010.80	489.25	3.066	
21,321.43	8,418.00	18,793.56	8,418.00	270.53	219.65	90.323	-1,958.85	13,087.71	1,500.05	1,009.91	490.14	3.060	
21,400.00	8,418.00	18,872.13	8,418.00	272.15	221.27	90.323	-1,958.62	13,166.28	1,500.04	1,006.66	493.38	3.040	
21,421.43	8,418.00	18,893.56	8,418.00	272.59	221.71	90.323	-1,958.55	13,187.71	1,500.04	1,005.78	494.26	3.035	
21,500.00	8,418.00	18,972.13	8,418.00	274.21	223.34	90.323	-1,958.32	13,266.28	1,500.04	1,002.53	497.51	3.015	
21,521.43	8,418.00	18,993.56	8,418.00	274.66	223.78	90.323	-1,958.25	13,287.71	1,500.03	1,001.64	498.39	3.010	
21,600.00	8,418.00	19,072.13	8,418.00	276.28	225.40	90.323	-1,958.02	13,366.28	1,500.03	998.40	501.63	2.990	
21,621.43	8,418.00	19,093.56	8,418.00	276.72	225.84	90.323	-1,957.95	13,387.71	1,500.03	997.51	502.52	2.985	
21,700.00	8,418.00	19,172.13	8,418.00	278.34	227.47	90.323	-1,957.72	13,466.28	1,500.02	994.26	505.76	2.966	
21,721.43	8,418.00	19,193.56	8,418.00	278.78	227.91	90.323	-1,957.66	13,487.71	1,500.02	993.38	506.64	2.961	
21,800.00	8,418.00	19,272.13	8,418.00	280.40	229.53	90.323	-1,957.42	13,566.28	1,500.02	990.13	509.89	2.942	
21,804.03	8,418.00	19,276.16	8,418.00	280.48	229.61	90.323	-1,957.41	13,570.31	1,500.02	989.96	510.05	2.941	
21,818.82	8,418.00	19,290.94	8,418.00	280.79	229.92	90.323	-1,957.37	13,585.09	1,500.02	989.35	510.66	2.937 CC, 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 (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3723.50usft

Offset Depths are relative to Offset Datum

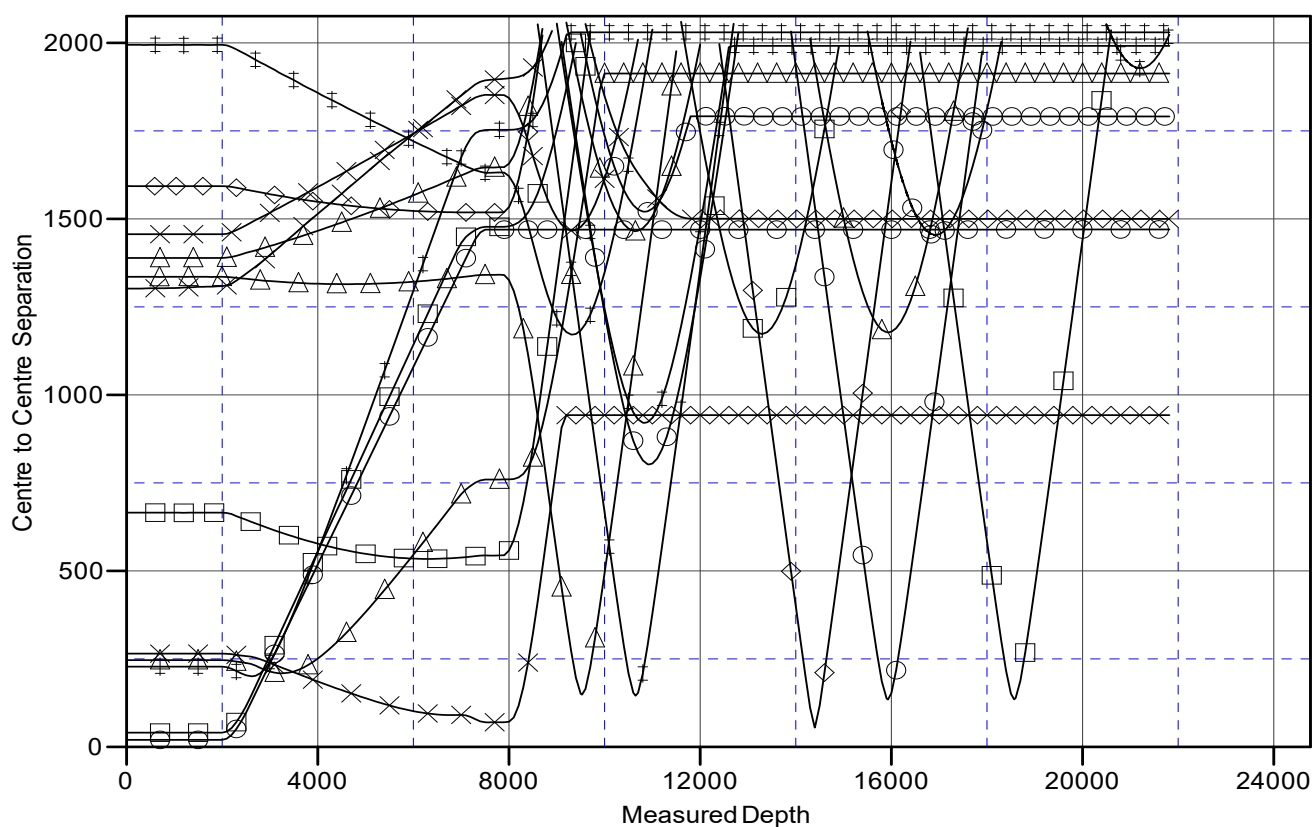
Central Meridian is -104.33333334

Coordinates are relative to: (03) Bond 32-34 FED COM #103H

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

Grid Convergence at Surface is: 0.294°

Ladder Plot



LEGEND

(01) Bond 32-34 FED COM 207H, 207H, Plan 2 V0
 (01) Bond 32-34 FED COM 209H, 209H, Plan 2 V0
 (02) Bond 32-34 FED COM 301H, 301H, Plan 2 V0
 (03) Bond 32-34 FED COM 201H, 201H, Plan 2 V0
 (01) Bond 32-34 FED COM #303H, #303H, Plan 1 V0
 (02) Bond 32-34 FED COM #101H, #101H, Plan 1 V0
 (W22) WATKINS 32 STATE 001, 31735, (Inc Only) V0
 (W14) KEEL A FEDERAL 003, 33340, (Inc Only) V0
 (W17) MAX STATE 001, 26754, (Inc Only) V0

(W16) LEAR STATE SMD 003, 26703, (Inc Only) V0
 (W21) VANDOVER FEDERAL 001, 26352, (Inc Only) V0
 (W12) HULKSTER 005, 39572, (Inc Only) V0
 (W10) HULKSTER 003, 39570, (Inc Only) V0
 (W08) HULKSTER 001, 38446, (Inc Only) V0
 (W27) TEXACO FEDERAL 001, 00886, (Depth Only) V0
 (W04) FIRST FULL OF DOLLARS FEDERAL 001, 33644, (Inc Only) V0
 (W01) N LUSK 32 STATE 001, 35747, (Gyro) V0
 (W11) HULKSTER 004, 39571, (Inc Only) V0

(W02) LEAR STATE 001H, 38886, (Gyro/MMD) V0
 (W18) MCKAY WEST FEDERAL 001, 24931, (Inc Only) V0
 (W05) GULF FEDERAL 002, 26310, (Inc Only) V0
 (W09) HULKSTER 002, 38844, (Inc Only) V0
 (W06) GULF FEDERAL 001, 25637, (Inc Only) V0
 (04) Bond 32-34 FED COM #104H, #104H, Plan 1 V0
 (02) Bond 32-34 FED COM #304H, #304H, Plan 1 V0

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



Dixon Directional Anticollision Report



Company:	PBEX	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Project:	Lea County, NM (N83 - NME)	TVD Reference:	RKB - 30.5 @ 3723.50usft
Reference Site:	Bond North Pad - Phase 2	MD Reference:	RKB - 30.5 @ 3723.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	#103H	Database:	EDM 5000.1 Dixon Directional
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3723.50usft

Offset Depths are relative to Offset Datum

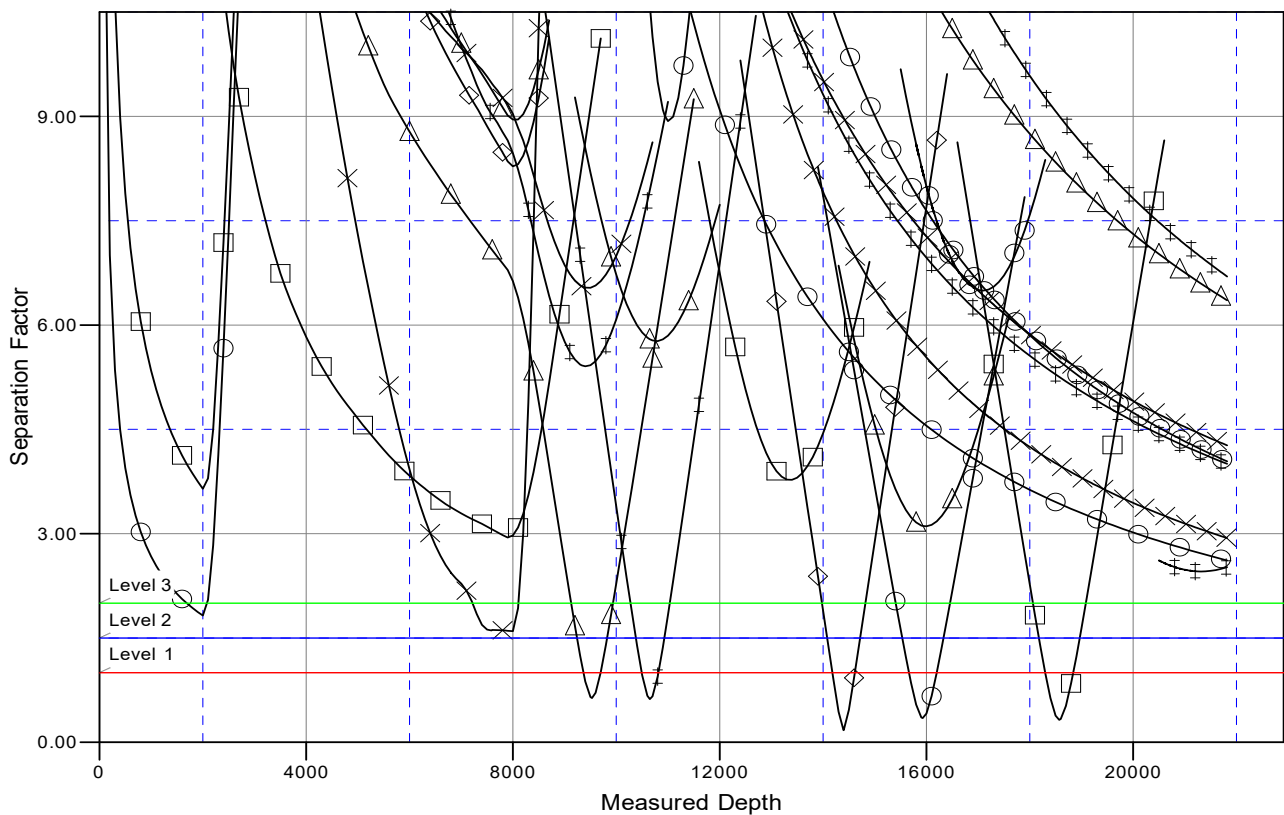
Central Meridian is -104.33333334

Coordinates are relative to: (03) Bond 32-34 FED COM #103H

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

Grid Convergence at Surface is: 0.294°

Separation Factor Plot



LEGEND

(01) Bond 32-34 FED COM 207H, 207H, Plan 2 V0
 (01) Bond 32-34 FED COM 209H, 209H, Plan 2 V0
 (02) Bond 32-34 FED COM 301H, 301H, Plan 2 V0
 (03) Bond 32-34 FED COM 201H, 201H, Plan 2 V0
 (01) Bond 32-34 FED COM #303H, #303H, Plan 1 V0
 (02) Bond 32-34 FED COM #101H, #101H, Plan 1 V0
 (W22) WATKINS 32 STATE 001, 31735, (Inc Only) V0
 (W14) KEEL A FEDERAL 003, 33340, (Inc Only) V0
 (W17) MAX STATE 001, 26754, (Inc Only) V0

(W16) LEAR STATE SMD 003, 26703, (Inc Only) V0
 (W21) VANDOVER FEDERAL 001, 26352, (Inc Only) V0
 (W12) HULKSTER 005, 39572, (Inc Only) V0
 (W10) HULKSTER 003, 39570, (Inc Only) V0
 (W08) HULKSTER 001, 38446, (Inc Only) V0
 (W27) TEXACO FEDERAL 001, 00886, (Depth Only) V0
 (W04) FIRST FULL OF DOLLARS FEDERAL 001, 33644, (Inc Only) V0
 (W01) IN LUSK 32 STATE 001, 35747, (Gyro) V0
 (W11) HULKSTER 004, 39571, (Inc Only) V0

(W02) LEAR STATE 001H, 38886, (Gyro/MMD) V0
 (W18) MCKAY WEST FEDERAL 001, 24931, (Inc Only) V0
 (W05) GULF FEDERAL 002, 26310, (Inc Only) V0
 (W09) HULKSTER 002, 38844, (Inc Only) V0
 (W06) GULF FEDERAL 001, 25637, (Inc Only) V0
 (04) Bond 32-34 FED COM #104H, #104H, Plan 1 V0
 (02) Bond 32-34 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 North Pad - Phase 2

(03) Bond 32-34 FED COM #103H

TBD

#103H

Plan: Plan 1

Standard Planning Report

03 December, 2025

DIXON



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
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 North Pad - Phase 2			
Site Position:		Northing:	621,331.79 usft	Latitude:	32.70690489
From:	Map	Easting:	708,509.25 usft	Longitude:	-103.78984110
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	(03) Bond 32-34 FED COM #103H					
Well Position	+N/-S	0.00 usft	Northing:	621,291.80 usft	Latitude:	32.70679507
	+E/-W	0.00 usft	Easting:	708,502.68 usft	Longitude:	-103.78986313
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,693.00 usft
Grid Convergence:	0.294 °					

Wellbore	#103H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025	12/2/2025	6.351	60.145	47,228.61161319

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

Plan Survey Tool Program	Date	12/3/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,818.82 Plan 1 (#103H)	MWD+IFR1	OWSG MWD + IFR1	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,272.69	5.45	184.91	2,272.28	-12.92	-1.11	2.00	2.00	0.00	184.908	
7,250.67	5.45	184.91	7,227.72	-484.31	-41.59	0.00	0.00	0.00	0.000	
7,523.36	0.00	89.83	7,500.00	-497.23	-42.70	2.00	-2.00	0.00	180.000	
7,868.40	0.00	89.83	7,845.04	-497.23	-42.70	0.00	0.00	0.00	0.000	
8,768.40	90.00	89.83	8,418.00	-495.55	530.26	10.00	10.00	0.00	0.000	FTP/PP - (03) Bond 3
21,818.82	90.00	89.83	8,418.00	-457.38	13,580.62	0.00	0.00	0.00	0.000	PBHL - (03) Bond 32-



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
2,100.00	2.00	184.91	2,099.98	-1.74	-0.15	-0.15	2.00	2.00	0.00
2,200.00	4.00	184.91	2,199.84	-6.95	-0.60	-0.62	2.00	2.00	0.00
2,272.69	5.45	184.91	2,272.28	-12.92	-1.11	-1.15	2.00	2.00	0.00
Start 4977.98 hold at 2272.69 MD									
2,300.00	5.45	184.91	2,299.46	-15.51	-1.33	-1.38	0.00	0.00	0.00
2,400.00	5.45	184.91	2,399.01	-24.98	-2.14	-2.22	0.00	0.00	0.00
2,500.00	5.45	184.91	2,498.56	-34.45	-2.96	-3.06	0.00	0.00	0.00
2,600.00	5.45	184.91	2,598.11	-43.92	-3.77	-3.90	0.00	0.00	0.00
2,700.00	5.45	184.91	2,697.65	-53.38	-4.58	-4.74	0.00	0.00	0.00
2,800.00	5.45	184.91	2,797.20	-62.85	-5.40	-5.58	0.00	0.00	0.00
2,900.00	5.45	184.91	2,896.75	-72.32	-6.21	-6.42	0.00	0.00	0.00
3,000.00	5.45	184.91	2,996.30	-81.79	-7.02	-7.27	0.00	0.00	0.00
3,100.00	5.45	184.91	3,095.84	-91.26	-7.84	-8.11	0.00	0.00	0.00
3,200.00	5.45	184.91	3,195.39	-100.73	-8.65	-8.95	0.00	0.00	0.00
3,300.00	5.45	184.91	3,294.94	-110.20	-9.46	-9.79	0.00	0.00	0.00
3,400.00	5.45	184.91	3,394.49	-119.67	-10.28	-10.63	0.00	0.00	0.00
3,500.00	5.45	184.91	3,494.03	-129.14	-11.09	-11.47	0.00	0.00	0.00
3,600.00	5.45	184.91	3,593.58	-138.61	-11.90	-12.31	0.00	0.00	0.00
3,700.00	5.45	184.91	3,693.13	-148.08	-12.72	-13.15	0.00	0.00	0.00
3,800.00	5.45	184.91	3,792.67	-157.55	-13.53	-14.00	0.00	0.00	0.00
3,900.00	5.45	184.91	3,892.22	-167.02	-14.34	-14.84	0.00	0.00	0.00
4,000.00	5.45	184.91	3,991.77	-176.49	-15.15	-15.68	0.00	0.00	0.00
4,100.00	5.45	184.91	4,091.32	-185.96	-15.97	-16.52	0.00	0.00	0.00
4,200.00	5.45	184.91	4,190.86	-195.43	-16.78	-17.36	0.00	0.00	0.00
4,300.00	5.45	184.91	4,290.41	-204.89	-17.59	-18.20	0.00	0.00	0.00
4,400.00	5.45	184.91	4,389.96	-214.36	-18.41	-19.04	0.00	0.00	0.00
4,500.00	5.45	184.91	4,489.51	-223.83	-19.22	-19.88	0.00	0.00	0.00
4,600.00	5.45	184.91	4,589.05	-233.30	-20.03	-20.73	0.00	0.00	0.00
4,700.00	5.45	184.91	4,688.60	-242.77	-20.85	-21.57	0.00	0.00	0.00
4,800.00	5.45	184.91	4,788.15	-252.24	-21.66	-22.41	0.00	0.00	0.00
4,900.00	5.45	184.91	4,887.70	-261.71	-22.47	-23.25	0.00	0.00	0.00



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
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	5.45	184.91	4,987.24	-271.18	-23.29	-24.09	0.00	0.00	0.00
5,100.00	5.45	184.91	5,086.79	-280.65	-24.10	-24.93	0.00	0.00	0.00
5,200.00	5.45	184.91	5,186.34	-290.12	-24.91	-25.77	0.00	0.00	0.00
5,300.00	5.45	184.91	5,285.88	-299.59	-25.72	-26.61	0.00	0.00	0.00
5,400.00	5.45	184.91	5,385.43	-309.06	-26.54	-27.45	0.00	0.00	0.00
5,500.00	5.45	184.91	5,484.98	-318.53	-27.35	-28.30	0.00	0.00	0.00
5,600.00	5.45	184.91	5,584.53	-328.00	-28.16	-29.14	0.00	0.00	0.00
5,700.00	5.45	184.91	5,684.07	-337.47	-28.98	-29.98	0.00	0.00	0.00
5,800.00	5.45	184.91	5,783.62	-346.94	-29.79	-30.82	0.00	0.00	0.00
5,900.00	5.45	184.91	5,883.17	-356.40	-30.60	-31.66	0.00	0.00	0.00
6,000.00	5.45	184.91	5,982.72	-365.87	-31.42	-32.50	0.00	0.00	0.00
6,100.00	5.45	184.91	6,082.26	-375.34	-32.23	-33.34	0.00	0.00	0.00
6,200.00	5.45	184.91	6,181.81	-384.81	-33.04	-34.18	0.00	0.00	0.00
6,300.00	5.45	184.91	6,281.36	-394.28	-33.86	-35.03	0.00	0.00	0.00
6,400.00	5.45	184.91	6,380.91	-403.75	-34.67	-35.87	0.00	0.00	0.00
6,500.00	5.45	184.91	6,480.45	-413.22	-35.48	-36.71	0.00	0.00	0.00
6,600.00	5.45	184.91	6,580.00	-422.69	-36.30	-37.55	0.00	0.00	0.00
6,700.00	5.45	184.91	6,679.55	-432.16	-37.11	-38.39	0.00	0.00	0.00
6,800.00	5.45	184.91	6,779.09	-441.63	-37.92	-39.23	0.00	0.00	0.00
6,900.00	5.45	184.91	6,878.64	-451.10	-38.73	-40.07	0.00	0.00	0.00
7,000.00	5.45	184.91	6,978.19	-460.57	-39.55	-40.91	0.00	0.00	0.00
7,100.00	5.45	184.91	7,077.74	-470.04	-40.36	-41.76	0.00	0.00	0.00
7,200.00	5.45	184.91	7,177.28	-479.51	-41.17	-42.60	0.00	0.00	0.00
7,250.67	5.45	184.91	7,227.72	-484.31	-41.59	-43.02	0.00	0.00	0.00
Start Drop -2.00									
7,300.00	4.47	184.91	7,276.87	-488.55	-41.95	-43.40	2.00	-2.00	0.00
7,400.00	2.47	184.91	7,376.68	-494.58	-42.47	-43.94	2.00	-2.00	0.00
7,500.00	0.47	184.91	7,476.64	-497.13	-42.69	-44.16	2.00	-2.00	0.00
7,523.36	0.00	89.83	7,500.00	-497.23	-42.70	-44.17	2.00	-2.00	0.00
Start 345.04 hold at 7523.36 MD									
7,600.00	0.00	0.00	7,576.64	-497.23	-42.70	-44.17	0.00	0.00	0.00
7,700.00	0.00	0.00	7,676.64	-497.23	-42.70	-44.17	0.00	0.00	0.00
7,800.00	0.00	0.00	7,776.64	-497.23	-42.70	-44.17	0.00	0.00	0.00
7,868.40	0.00	0.00	7,845.04	-497.23	-42.70	-44.17	0.00	0.00	0.00
Start Build 10.00									
7,900.00	3.16	89.83	7,876.63	-497.22	-41.82	-43.30	10.00	10.00	0.00
7,950.00	8.16	89.83	7,926.37	-497.21	-36.89	-38.37	10.00	10.00	0.00
8,000.00	13.16	89.83	7,975.49	-497.18	-27.65	-29.12	10.00	10.00	0.00
8,050.00	18.16	89.83	8,023.62	-497.14	-14.16	-15.63	10.00	10.00	0.00
8,100.00	23.16	89.83	8,070.39	-497.09	3.48	2.00	10.00	10.00	0.00
8,150.00	28.16	89.83	8,115.44	-497.03	25.12	23.65	10.00	10.00	0.00
8,200.00	33.16	89.83	8,158.44	-496.95	50.61	49.14	10.00	10.00	0.00
8,250.00	38.16	89.83	8,199.05	-496.87	79.75	78.28	10.00	10.00	0.00
8,300.00	43.16	89.83	8,236.97	-496.77	112.32	110.85	10.00	10.00	0.00
8,350.00	48.16	89.83	8,271.90	-496.67	148.07	146.59	10.00	10.00	0.00
8,400.00	53.16	89.83	8,303.59	-496.55	186.73	185.25	10.00	10.00	0.00
8,450.00	58.16	89.83	8,331.78	-496.43	228.00	226.52	10.00	10.00	0.00
8,500.00	63.16	89.83	8,356.28	-496.31	271.57	270.10	10.00	10.00	0.00
8,550.00	68.16	89.83	8,376.88	-496.17	317.11	315.64	10.00	10.00	0.00
8,600.00	73.16	89.83	8,393.43	-496.04	364.28	362.80	10.00	10.00	0.00
8,650.00	78.16	89.83	8,405.81	-495.89	412.70	411.23	10.00	10.00	0.00
8,700.00	83.16	89.83	8,413.92	-495.75	462.02	460.55	10.00	10.00	0.00
8,750.00	88.16	89.83	8,417.70	-495.60	511.86	510.39	10.00	10.00	0.00

Dixon Directional Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
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)
8,768.40	90.00	89.83	8,418.00	-495.55	530.26	528.79	10.00	10.00	0.00
Start 13050.42 hold at 8768.40 MD									
8,800.00	90.00	89.83	8,418.00	-495.46	561.86	560.39	0.00	0.00	0.00
8,900.00	90.00	89.83	8,418.00	-495.17	661.86	660.39	0.00	0.00	0.00
9,000.00	90.00	89.83	8,418.00	-494.87	761.86	760.39	0.00	0.00	0.00
9,100.00	90.00	89.83	8,418.00	-494.58	861.86	860.39	0.00	0.00	0.00
9,200.00	90.00	89.83	8,418.00	-494.29	961.86	960.39	0.00	0.00	0.00
9,300.00	90.00	89.83	8,418.00	-494.00	1,061.86	1,060.39	0.00	0.00	0.00
9,400.00	90.00	89.83	8,418.00	-493.70	1,161.86	1,160.39	0.00	0.00	0.00
9,500.00	90.00	89.83	8,418.00	-493.41	1,261.86	1,260.39	0.00	0.00	0.00
9,600.00	90.00	89.83	8,418.00	-493.12	1,361.86	1,360.39	0.00	0.00	0.00
9,700.00	90.00	89.83	8,418.00	-492.83	1,461.86	1,460.39	0.00	0.00	0.00
9,800.00	90.00	89.83	8,418.00	-492.53	1,561.86	1,560.39	0.00	0.00	0.00
9,900.00	90.00	89.83	8,418.00	-492.24	1,661.86	1,660.39	0.00	0.00	0.00
10,000.00	90.00	89.83	8,418.00	-491.95	1,761.86	1,760.39	0.00	0.00	0.00
10,100.00	90.00	89.83	8,418.00	-491.66	1,861.85	1,860.39	0.00	0.00	0.00
10,200.00	90.00	89.83	8,418.00	-491.36	1,961.85	1,960.39	0.00	0.00	0.00
10,300.00	90.00	89.83	8,418.00	-491.07	2,061.85	2,060.39	0.00	0.00	0.00
10,400.00	90.00	89.83	8,418.00	-490.78	2,161.85	2,160.39	0.00	0.00	0.00
10,500.00	90.00	89.83	8,418.00	-490.49	2,261.85	2,260.39	0.00	0.00	0.00
10,600.00	90.00	89.83	8,418.00	-490.19	2,361.85	2,360.39	0.00	0.00	0.00
10,700.00	90.00	89.83	8,418.00	-489.90	2,461.85	2,460.39	0.00	0.00	0.00
10,800.00	90.00	89.83	8,418.00	-489.61	2,561.85	2,560.39	0.00	0.00	0.00
10,900.00	90.00	89.83	8,418.00	-489.32	2,661.85	2,660.39	0.00	0.00	0.00
11,000.00	90.00	89.83	8,418.00	-489.02	2,761.85	2,760.39	0.00	0.00	0.00
11,100.00	90.00	89.83	8,418.00	-488.73	2,861.85	2,860.39	0.00	0.00	0.00
11,200.00	90.00	89.83	8,418.00	-488.44	2,961.85	2,960.39	0.00	0.00	0.00
11,300.00	90.00	89.83	8,418.00	-488.15	3,061.85	3,060.39	0.00	0.00	0.00
11,400.00	90.00	89.83	8,418.00	-487.85	3,161.85	3,160.39	0.00	0.00	0.00
11,500.00	90.00	89.83	8,418.00	-487.56	3,261.85	3,260.39	0.00	0.00	0.00
11,600.00	90.00	89.83	8,418.00	-487.27	3,361.85	3,360.39	0.00	0.00	0.00
11,700.00	90.00	89.83	8,418.00	-486.98	3,461.85	3,460.39	0.00	0.00	0.00
11,800.00	90.00	89.83	8,418.00	-486.68	3,561.85	3,560.39	0.00	0.00	0.00
11,900.00	90.00	89.83	8,418.00	-486.39	3,661.85	3,660.39	0.00	0.00	0.00
12,000.00	90.00	89.83	8,418.00	-486.10	3,761.85	3,760.39	0.00	0.00	0.00
12,100.00	90.00	89.83	8,418.00	-485.81	3,861.85	3,860.39	0.00	0.00	0.00
12,200.00	90.00	89.83	8,418.00	-485.51	3,961.85	3,960.39	0.00	0.00	0.00
12,300.00	90.00	89.83	8,418.00	-485.22	4,061.85	4,060.39	0.00	0.00	0.00
12,400.00	90.00	89.83	8,418.00	-484.93	4,161.84	4,160.39	0.00	0.00	0.00
12,500.00	90.00	89.83	8,418.00	-484.64	4,261.84	4,260.39	0.00	0.00	0.00
12,600.00	90.00	89.83	8,418.00	-484.34	4,361.84	4,360.39	0.00	0.00	0.00
12,700.00	90.00	89.83	8,418.00	-484.05	4,461.84	4,460.39	0.00	0.00	0.00
12,800.00	90.00	89.83	8,418.00	-483.76	4,561.84	4,560.39	0.00	0.00	0.00
12,900.00	90.00	89.83	8,418.00	-483.47	4,661.84	4,660.39	0.00	0.00	0.00
13,000.00	90.00	89.83	8,418.00	-483.17	4,761.84	4,760.39	0.00	0.00	0.00
13,100.00	90.00	89.83	8,418.00	-482.88	4,861.84	4,860.39	0.00	0.00	0.00
13,200.00	90.00	89.83	8,418.00	-482.59	4,961.84	4,960.39	0.00	0.00	0.00
13,300.00	90.00	89.83	8,418.00	-482.30	5,061.84	5,060.39	0.00	0.00	0.00
13,400.00	90.00	89.83	8,418.00	-482.00	5,161.84	5,160.39	0.00	0.00	0.00
13,500.00	90.00	89.83	8,418.00	-481.71	5,261.84	5,260.39	0.00	0.00	0.00
13,600.00	90.00	89.83	8,418.00	-481.42	5,361.84	5,360.39	0.00	0.00	0.00
13,700.00	90.00	89.83	8,418.00	-481.13	5,461.84	5,460.39	0.00	0.00	0.00
13,800.00	90.00	89.83	8,418.00	-480.83	5,561.84	5,560.39	0.00	0.00	0.00
13,900.00	90.00	89.83	8,418.00	-480.54	5,661.84	5,660.39	0.00	0.00	0.00

Dixon Directional Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
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	-480.25	5,761.84	5,760.39	0.00	0.00	0.00
14,100.00	90.00	89.83	8,418.00	-479.96	5,861.84	5,860.39	0.00	0.00	0.00
14,200.00	90.00	89.83	8,418.00	-479.66	5,961.84	5,960.39	0.00	0.00	0.00
14,300.00	90.00	89.83	8,418.00	-479.37	6,061.84	6,060.39	0.00	0.00	0.00
14,400.00	90.00	89.83	8,418.00	-479.08	6,161.84	6,160.39	0.00	0.00	0.00
14,500.00	90.00	89.83	8,418.00	-478.79	6,261.84	6,260.39	0.00	0.00	0.00
14,600.00	90.00	89.83	8,418.00	-478.49	6,361.84	6,360.39	0.00	0.00	0.00
14,700.00	90.00	89.83	8,418.00	-478.20	6,461.84	6,460.39	0.00	0.00	0.00
14,800.00	90.00	89.83	8,418.00	-477.91	6,561.83	6,560.39	0.00	0.00	0.00
14,900.00	90.00	89.83	8,418.00	-477.62	6,661.83	6,660.39	0.00	0.00	0.00
15,000.00	90.00	89.83	8,418.00	-477.32	6,761.83	6,760.39	0.00	0.00	0.00
15,100.00	90.00	89.83	8,418.00	-477.03	6,861.83	6,860.39	0.00	0.00	0.00
15,200.00	90.00	89.83	8,418.00	-476.74	6,961.83	6,960.39	0.00	0.00	0.00
15,300.00	90.00	89.83	8,418.00	-476.45	7,061.83	7,060.39	0.00	0.00	0.00
15,400.00	90.00	89.83	8,418.00	-476.15	7,161.83	7,160.39	0.00	0.00	0.00
15,500.00	90.00	89.83	8,418.00	-475.86	7,261.83	7,260.39	0.00	0.00	0.00
15,600.00	90.00	89.83	8,418.00	-475.57	7,361.83	7,360.39	0.00	0.00	0.00
15,700.00	90.00	89.83	8,418.00	-475.28	7,461.83	7,460.39	0.00	0.00	0.00
15,800.00	90.00	89.83	8,418.00	-474.98	7,561.83	7,560.39	0.00	0.00	0.00
15,900.00	90.00	89.83	8,418.00	-474.69	7,661.83	7,660.39	0.00	0.00	0.00
16,000.00	90.00	89.83	8,418.00	-474.40	7,761.83	7,760.39	0.00	0.00	0.00
16,100.00	90.00	89.83	8,418.00	-474.11	7,861.83	7,860.39	0.00	0.00	0.00
16,200.00	90.00	89.83	8,418.00	-473.81	7,961.83	7,960.39	0.00	0.00	0.00
16,300.00	90.00	89.83	8,418.00	-473.52	8,061.83	8,060.39	0.00	0.00	0.00
16,400.00	90.00	89.83	8,418.00	-473.23	8,161.83	8,160.39	0.00	0.00	0.00
16,500.00	90.00	89.83	8,418.00	-472.94	8,261.83	8,260.39	0.00	0.00	0.00
16,600.00	90.00	89.83	8,418.00	-472.64	8,361.83	8,360.39	0.00	0.00	0.00
16,700.00	90.00	89.83	8,418.00	-472.35	8,461.83	8,460.39	0.00	0.00	0.00
16,800.00	90.00	89.83	8,418.00	-472.06	8,561.83	8,560.39	0.00	0.00	0.00
16,900.00	90.00	89.83	8,418.00	-471.77	8,661.83	8,660.39	0.00	0.00	0.00
17,000.00	90.00	89.83	8,418.00	-471.47	8,761.83	8,760.39	0.00	0.00	0.00
17,100.00	90.00	89.83	8,418.00	-471.18	8,861.82	8,860.39	0.00	0.00	0.00
17,200.00	90.00	89.83	8,418.00	-470.89	8,961.82	8,960.39	0.00	0.00	0.00
17,300.00	90.00	89.83	8,418.00	-470.60	9,061.82	9,060.39	0.00	0.00	0.00
17,400.00	90.00	89.83	8,418.00	-470.30	9,161.82	9,160.39	0.00	0.00	0.00
17,500.00	90.00	89.83	8,418.00	-470.01	9,261.82	9,260.39	0.00	0.00	0.00
17,600.00	90.00	89.83	8,418.00	-469.72	9,361.82	9,360.39	0.00	0.00	0.00
17,700.00	90.00	89.83	8,418.00	-469.43	9,461.82	9,460.39	0.00	0.00	0.00
17,800.00	90.00	89.83	8,418.00	-469.13	9,561.82	9,560.39	0.00	0.00	0.00
17,900.00	90.00	89.83	8,418.00	-468.84	9,661.82	9,660.39	0.00	0.00	0.00
18,000.00	90.00	89.83	8,418.00	-468.55	9,761.82	9,760.39	0.00	0.00	0.00
18,100.00	90.00	89.83	8,418.00	-468.26	9,861.82	9,860.39	0.00	0.00	0.00
18,200.00	90.00	89.83	8,418.00	-467.96	9,961.82	9,960.39	0.00	0.00	0.00
18,300.00	90.00	89.83	8,418.00	-467.67	10,061.82	10,060.39	0.00	0.00	0.00
18,400.00	90.00	89.83	8,418.00	-467.38	10,161.82	10,160.39	0.00	0.00	0.00
18,500.00	90.00	89.83	8,418.00	-467.09	10,261.82	10,260.39	0.00	0.00	0.00
18,600.00	90.00	89.83	8,418.00	-466.79	10,361.82	10,360.39	0.00	0.00	0.00
18,700.00	90.00	89.83	8,418.00	-466.50	10,461.82	10,460.39	0.00	0.00	0.00
18,800.00	90.00	89.83	8,418.00	-466.21	10,561.82	10,560.39	0.00	0.00	0.00
18,900.00	90.00	89.83	8,418.00	-465.92	10,661.82	10,660.39	0.00	0.00	0.00
19,000.00	90.00	89.83	8,418.00	-465.62	10,761.82	10,760.39	0.00	0.00	0.00
19,100.00	90.00	89.83	8,418.00	-465.33	10,861.82	10,860.39	0.00	0.00	0.00
19,200.00	90.00	89.83	8,418.00	-465.04	10,961.82	10,960.39	0.00	0.00	0.00
19,300.00	90.00	89.83	8,418.00	-464.75	11,061.82	11,060.39	0.00	0.00	0.00



Dixon Directional Planning Report



Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,400.00	90.00	89.83	8,418.00	-464.45	11,161.82	11,160.39	0.00	0.00	0.00	
19,500.00	90.00	89.83	8,418.00	-464.16	11,261.81	11,260.39	0.00	0.00	0.00	
19,600.00	90.00	89.83	8,418.00	-463.87	11,361.81	11,360.39	0.00	0.00	0.00	
19,700.00	90.00	89.83	8,418.00	-463.58	11,461.81	11,460.39	0.00	0.00	0.00	
19,800.00	90.00	89.83	8,418.00	-463.28	11,561.81	11,560.39	0.00	0.00	0.00	
19,900.00	90.00	89.83	8,418.00	-462.99	11,661.81	11,660.39	0.00	0.00	0.00	
20,000.00	90.00	89.83	8,418.00	-462.70	11,761.81	11,760.39	0.00	0.00	0.00	
20,100.00	90.00	89.83	8,418.00	-462.41	11,861.81	11,860.39	0.00	0.00	0.00	
20,200.00	90.00	89.83	8,418.00	-462.11	11,961.81	11,960.39	0.00	0.00	0.00	
20,300.00	90.00	89.83	8,418.00	-461.82	12,061.81	12,060.39	0.00	0.00	0.00	
20,400.00	90.00	89.83	8,418.00	-461.53	12,161.81	12,160.39	0.00	0.00	0.00	
20,500.00	90.00	89.83	8,418.00	-461.24	12,261.81	12,260.39	0.00	0.00	0.00	
20,600.00	90.00	89.83	8,418.00	-460.94	12,361.81	12,360.39	0.00	0.00	0.00	
20,700.00	90.00	89.83	8,418.00	-460.65	12,461.81	12,460.39	0.00	0.00	0.00	
20,800.00	90.00	89.83	8,418.00	-460.36	12,561.81	12,560.39	0.00	0.00	0.00	
20,900.00	90.00	89.83	8,418.00	-460.07	12,661.81	12,660.39	0.00	0.00	0.00	
21,000.00	90.00	89.83	8,418.00	-459.77	12,761.81	12,760.39	0.00	0.00	0.00	
21,100.00	90.00	89.83	8,418.00	-459.48	12,861.81	12,860.39	0.00	0.00	0.00	
21,200.00	90.00	89.83	8,418.00	-459.19	12,961.81	12,960.39	0.00	0.00	0.00	
21,300.00	90.00	89.83	8,418.00	-458.90	13,061.81	13,060.39	0.00	0.00	0.00	
21,400.00	90.00	89.83	8,418.00	-458.60	13,161.81	13,160.39	0.00	0.00	0.00	
21,500.00	90.00	89.83	8,418.00	-458.31	13,261.81	13,260.39	0.00	0.00	0.00	
21,600.00	90.00	89.83	8,418.00	-458.02	13,361.81	13,360.39	0.00	0.00	0.00	
21,700.00	90.00	89.83	8,418.00	-457.73	13,461.81	13,460.39	0.00	0.00	0.00	
21,800.00	90.00	89.83	8,418.00	-457.44	13,561.80	13,560.39	0.00	0.00	0.00	
21,818.82	90.00	89.83	8,418.00	-457.38	13,580.62	13,579.20	0.00	0.00	0.00	
TD at 21818.82										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - (03) Bond 32-34 F - hit/miss target - Shape - Point	0.00	0.00	8,418.00	-457.55	13,530.62	620,834.25	722,033.30	32.70533914	-103.74588393
- plan misses target center by 0.02usft at 21768.82usft MD (8418.00 TVD, -457.53 N, 13530.62 E)									
PBHL - (03) Bond 32-34 - plan hits target center - Point	0.00	0.00	8,418.00	-457.38	13,580.62	620,834.42	722,083.30	32.70533885	-103.74572139
FTP/PP - (03) Bond 32-34 - plan hits target center - Point	0.00	0.00	8,418.00	-495.55	530.26	620,796.25	709,032.94	32.70542553	-103.78814755



Dixon Directional Planning Report

Database:	EDM 5000.1 Dixon Directional	Local Co-ordinate Reference:	Well (03) Bond 32-34 FED COM #103H
Company:	PBEX	TVD Reference:	RKB - 30.5 @ 3723.50usft
Project:	Lea County, NM (N83 - NME)	MD Reference:	RKB - 30.5 @ 3723.50usft
Site:	Bond North Pad - Phase 2	North Reference:	Grid
Well:	(03) Bond 32-34 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Wellbore:	#103H		
Design:	Plan 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Start Build 2.00
2,272.69	2,272.28	-12.92	-1.11	Start 4977.98 hold at 2272.69 MD
7,250.67	7,227.72	-484.31	-41.59	Start Drop -2.00
7,523.36	7,500.00	-497.23	-42.70	Start 345.04 hold at 7523.36 MD
7,868.40	7,845.04	-497.23	-42.70	Start Build 10.00
8,768.40	8,418.00	-495.55	530.26	Start 13050.42 hold at 8768.40 MD
21,818.82	8,418.00	-457.38	13,580.62	TD at 21818.82

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 542668

ACKNOWLEDGMENTS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 542668
	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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Santa Fe, NM 87505

COMMENTS

Action 542668

COMMENTS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 542668
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-025-55689 BOND 32 34 FEDERAL COM #301H	1/15/2026

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 542668

CONDITIONS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 542668
	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.	1/13/2026
mikahthomas	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/13/2026
jeffrey.harrison	All conducted logs must be submitted to the OCD.	1/15/2026
jeffrey.harrison	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.	1/15/2026
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	1/15/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/15/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	1/15/2026
jeffrey.harrison	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.	1/15/2026
jeffrey.harrison	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.	1/15/2026